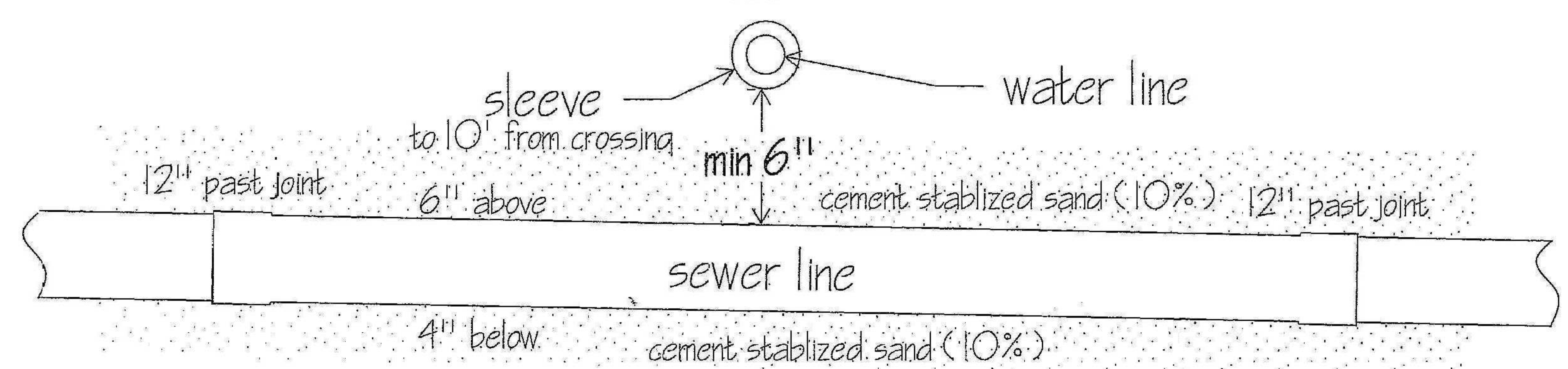
WATER & SEWER CROSSING

NTS

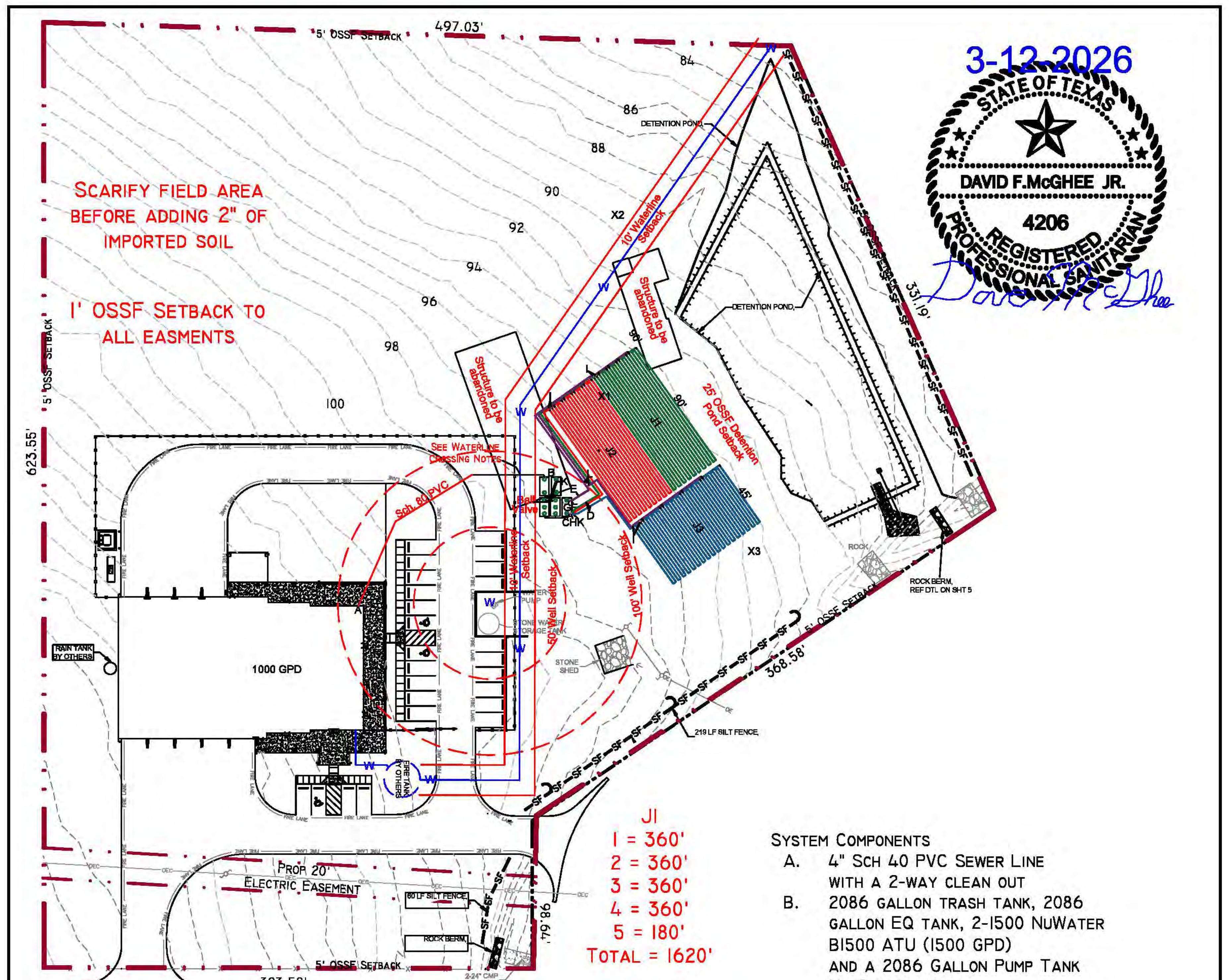


Cement Stablized Sand to 9' either side plus 12" past joint (min 10')

Per 290.44 (e)(4)(B)

(v) Where a new potable waterline crosses a new, pressure rated wastewater main or lateral, one segment of the waterline pipe shall be centered over the wastewater line such that the joints of the waterline pipe are equidistant and at least nine feet horizontally from the center line of the wastewater main or lateral. The potable waterline shall be at least six inches above the wastewater main or lateral. Whenever possible, the crossing shall be centered between the joints of the wastewater main or lateral. The wastewater pipe shall have a minimum pressure rating of at least 150 psi. The wastewater main or lateral shall be embedded in cement stabilized sand (see clause (vi) of this subparagraph) for the total length of one pipe segment plus 12 inches beyond the joint on each end.

(vi) Where cement stabilized sand bedding is required, the cement stabilized sand shall have a minimum of 10% cement per cubic yard of cement stabilized sand mixture, based on loose dry weight volume (at least 2.5 bags of cement per cubic yard of mixture). The cement stabilized sand bedding shall be a minimum of six inches above and four inches below the wastewater main or lateral. The use of brown coloring in cement stabilized sand for wastewater main or lateral bedding is recommended for the identification of pressure rated wastewater mains during future construction



RANCH ROAD 12

J1
1 = 360'
2 = 360'
3 = 360'
4 = 360'
5 = 180'
TOTAL = 1620'

J2
1 = 360'
2 = 360'
3 = 360'
4 = 360'
5 = 180'
TOTAL = 1620'

J3
1 = 360'
2 = 360'
3 = 360'
4 = 360'
5 = 180'
TOTAL = 1620'

ALL PIPING SHALL BE BEDDED WITH 4" OF CLASS IB, II OR CLASS III SOIL WITH LESS THAN 30% ORGANIC MATERIAL AND FREE OF ANY ROCKS OR GRAINS LARGER THAN ½"

REFER TO TANK DETAIL AND DESIGN NOTES FOR MORE INFORMATION

SURFACE ROCK IN SPRAY AREA MUST BE EXCAVATED, OR COVERED WITH A MINIMUM OF 4" OF SUITABLE SOIL

TRIM TREES IN APPLICATION AREA TO MAINTAIN A MINIMUM 10' SETBACK FROM SPRAY HEADS

ALL SEPARATION AND SETBACK REQUIREMENTS AS STATED IN CHAPTER 285, TCEQ, ON-SITE SEWAGE FACILITIES, MUST BE MAINTAINED

SYSTEM COMPONENTS

A. 4" SCH 40 PVC SEWER LINE WITH A 2-WAY CLEAN OUT
B. 2086 GALLON TRASH TANK, 2086 GALLON EQ TANK, 2-1500 NUWATER B1500 ATU (1500 GPD) AND A 2086 GALLON PUMP TANK NO CHLORINATOR
C. 1" ARKAL 100-MESH DISC FILTER ON ON SUPPLY LINE
D. 1.25" PURPLE SCH 40 PVC SUPPLY LINE
E. 1.25" PURPLE SCH 40 PVC RETURN LINE
F. 1" BALL VALUE
G. PRESSURE GAUGE SET AT 10 PSI
H. SENNINGER PRESSURE REGULATOR MODEL PMR0MF) 50 PSI
I. VACUUM BREAKERS
J. 3 ZONES @ 1620' EACH (4860' TOTAL) OF .6 GPH NETAFIM DRIP TUBING. DRIP TUBING WILL BE INSTALLED ON 2" OF IMPORTED CLASS III SOIL PARALLEL TO CONTOURS. THE FIELD WILL BE COVERED WITH 8" OF CLASS III SOIL. THE FIELD WILL BE SEEDED AND COVERED WITH EROSION BLANKET OR SODDED.
K. K-RAIN 6405
L. CHECK VALVES

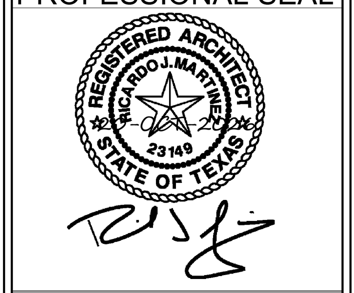
X = PROFILE HOLES

HAYS COUNTY ESD NO. 4
PROPOSED HAYS ESD
NO. 4 SUBDIVISION, LOT 1

SCALE 1" = 100'

DRAWING NO.: 01

PROFESSIONAL SEAL



LOGO/CONTACT

martinez ARCHITECTS

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8911 N Capital of Texas Hwy
Suite 4200
Austin, TX 78759
737.900.5166

DESIGN TEAM

Architectural
Martinez Architects

Civil
Hill Country Civil

Landscape
Evergreen Landscape Group

Structural
Matrix Structural

MEP
Emerald MEP

Technology
Imagine IT

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WestNET

STATION #42

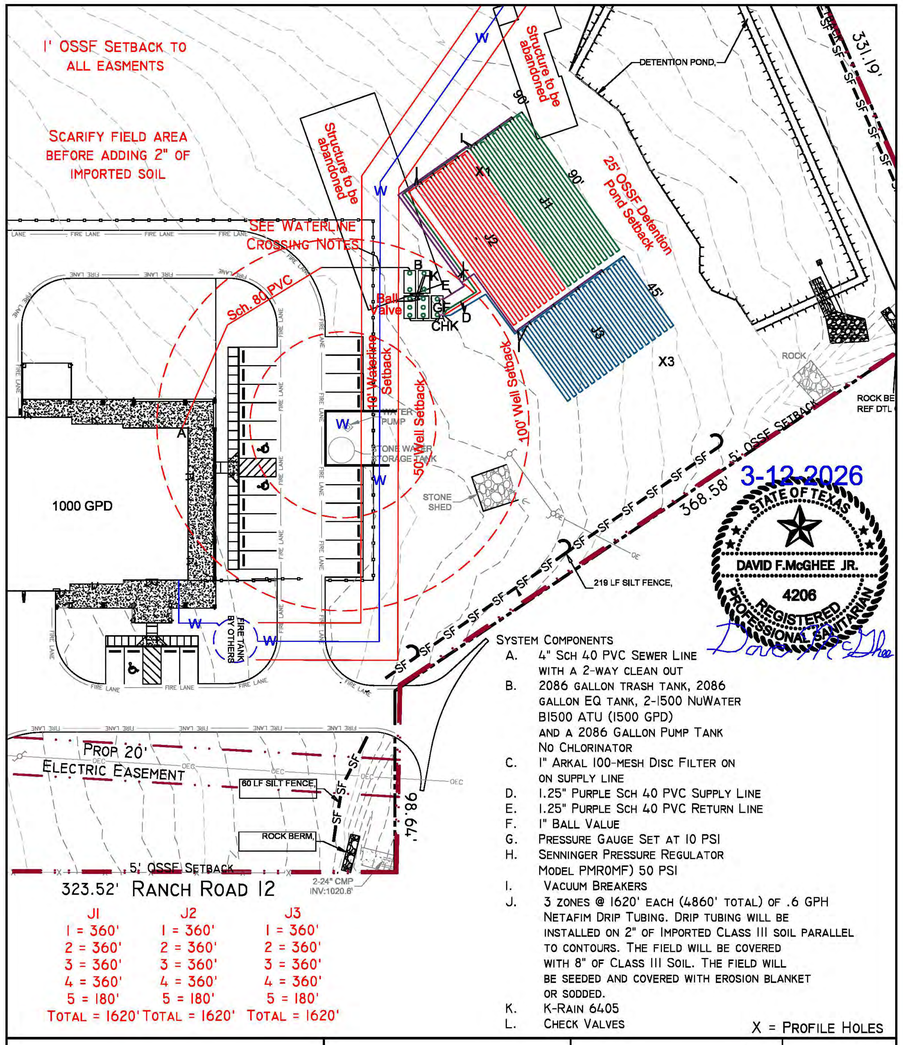
Hays County ESD #4
xxxxx
Wimberley, TX 78676

PROJECT No: MA 25016
DATE: 20-OCT-2026

ISSUE #		
1	100% DD	06-JAN-2026
2	25% CD	25-FEB-2026
3	75% CD	06-APR-2026
4	98% CD	04-MAY-2026
5	IFP	01-JUN-2026
6	IFB	20-OCT-2026

SEPTIC SHEET 1

OSSF-1



J1	J2	J3
1 = 360'	1 = 360'	1 = 360'
2 = 360'	2 = 360'	2 = 360'
3 = 360'	3 = 360'	3 = 360'
4 = 360'	4 = 360'	4 = 360'
5 = 180'	5 = 180'	5 = 180'
TOTAL = 1620'	TOTAL = 1620'	TOTAL = 1620'

3-12-2026
STATE OF TEXAS
DAVID F.McGHEE JR.
4206
REGISTERED PROFESSIONAL SANITARIAN

SYSTEM COMPONENTS

A. 4" SCH 40 PVC SEWER LINE WITH A 2-WAY CLEAN OUT
B. 2086 GALLON TRASH TANK, 2086 GALLON EQ TANK, 2-1500 NUWATER B1500 ATU (1500 GPD) AND A 2086 GALLON PUMP TANK NO CHLORINATOR
C. 1" ARKAL 100-MESH DISC FILTER ON ON SUPPLY LINE
D. 1.25" PURPLE SCH 40 PVC SUPPLY LINE
E. 1.25" PURPLE SCH 40 PVC RETURN LINE
F. 1" BALL VALUE
G. PRESSURE GAUGE SET AT 10 PSI
H. SENNINGER PRESSURE REGULATOR MODEL PMR0MF) 50 PSI
I. VACUUM BREAKERS
J. 3 ZONES @ 1620' EACH (4860' TOTAL) OF .6 GPH NETAFIM DRIP TUBING. DRIP TUBING WILL BE INSTALLED ON 2" OF IMPORTED CLASS III SOIL PARALLEL TO CONTOURS. THE FIELD WILL BE COVERED WITH 8" OF CLASS III SOIL. THE FIELD WILL BE SEEDED AND COVERED WITH EROSION BLANKET OR SODDED.
K. K-RAIN 6405
L. CHECK VALVES

X = PROFILE HOLES

HAYS COUNTY ESD No. 4
PROPOSED HAYS ESD
No. 4 SUBDIVISION, LOT 1

SCALE 1" = 60'

DRAWING NO.: 01

Advantage Wastewater Solutions llc

Inlet and outlet T's will extend .25 to .50 of the depth of tank as shown on Figures 6 and 7 of Title 30 T.A.C. 285

GENERAL NOTES:

1. **Tank structure material to be precast concrete and steel.**
2. **Maximum burial depth is 30" from slab top to grade.**
3. **Weight = 16,600 lbs.**
4. **Tank capacity is 2,086 Gal.**
5. **20" Ø acess riser w/ lid (Typical 3). Optional extension risers available.**
6. **4" min. compacted sand or gravel pad by Contractor**

MINIMUM EXCAVATION DIMENSIONS:
Width: 80"
Length: 156"

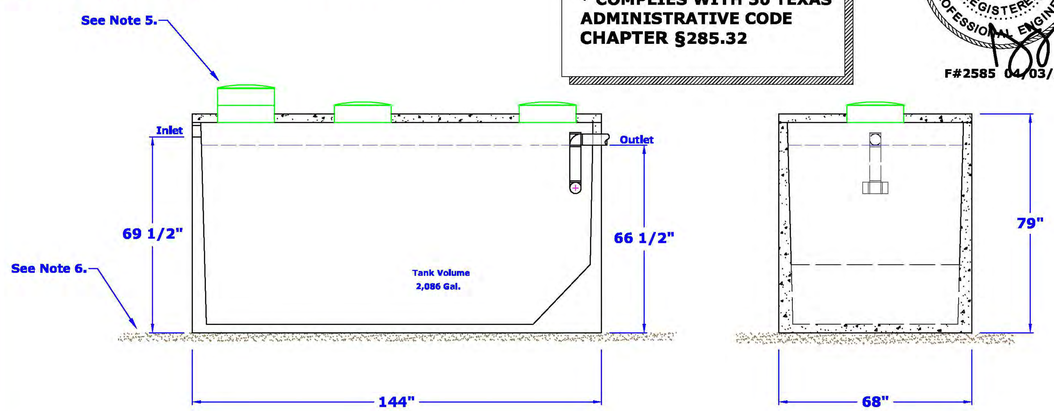
•Risers are required on all tank inspection ports 12" or larger extending a minimum 2" above final grade as per 30 TAC 285.38 (September 1, 2023).
Tank access limitation (<65lbs lid or hardware secured lid) and secondary plug, net, or mesh are required in riser.

CERTIFICATIONS:

*** ANALYSIS AND DESIGN IN ACCORDANCE WITH ASTM STANDARD C 1227**

*** COMPLIES WITH 30 TEXAS ADMINISTRATIVE CODE CHAPTER §285.32**

STATE OF TEXAS
GREG W. JOHNSON
67587
REGISTERED PROFESSIONAL ENGINEER
F#2585 04/03/2019



2086 gallon tank **Trash Tank**

Model: 2086 gallon

November 2011
By: gwj

Scale:
* All Dimensions subject to allowable specification tolerances.

Dwg. #: 2086 tank

Advantage Wastewater Solutions llc
Advantage Wastewater Solutions llc.
444 A Old Hwy No 9
Comfort, TX 78013
830-995-3189
fax 830-995-4051

PROFESSIONAL SEAL

RONALD J. MARTINEZ
23169
REGISTERED ARCHITECT
STATE OF TEXAS

LOGO/CONTACT

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Austin, TX 78759
737.900.5166

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Martinez Architects

Civil
Hill Country Civil

Landscape
Evergreen Landscape Group

Structural
Matrix Structural

MEP
Emerald MEP

Technology
Imagine IT

Alerting
WestNET

STATION #42
Hays County ESD #4
xxxxx
Wimberley, TX 78676

PROJECT No: **MA 25016**
DATE: **20-OCT-2026**

ISSUE

1	100% DD	06-JAN-2026
2	25% CD	25-FEB-2026
3	75% CD	06-APR-2026
4	98% CD	04-MAY-2026
5	IFP	01-JUN-2026
6	IFB	20-OCT-2026

SEPTIC SHEET 2

OSSF-2

Advantage Wastewater Solutions llc

Inlet and outlet T's will extend .25 to .50 of the depth of tank as shown on Figures 6 and 7 of Title 30 T.A.C. 285

GENERAL NOTES:

1. Tank structure material to be precast concrete and steel.
2. Maximum burial depth is 30" from slab top to grade.
3. Weight = 16,600 lbs.
4. Tank capacity is 2,086 Gal.
5. 20" Ø acess riser w/ lid (Typical 3). Optional extension risers available.
6. 4" min. compacted sand or gravel pad by Contractor

MINIMUM EXCAVATION DIMENSIONS:
Width: 80"
Length: 156"

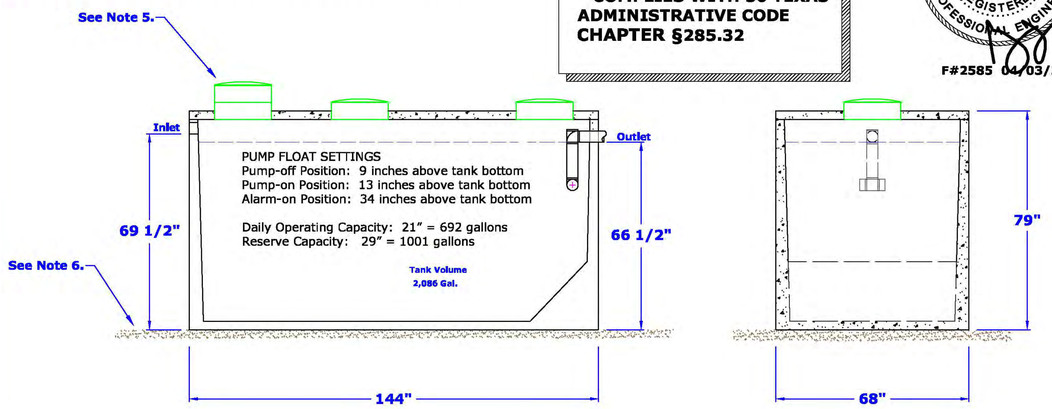
CERTIFICATIONS:

* ANALYSIS AND DESIGN IN ACCORDANCE WITH ASTM STANDARD C 1227

* COMPLIES WITH 30 TEXAS ADMINISTRATIVE CODE CHAPTER §285.32

STATE OF TEXAS
GREG W. JOHNSON
67587
REGISTERED
PROFESSIONAL ENGINEER
F#2585 04/03/2019

•Risers are required on all tank inspection ports 12" or larger extending a minimum 2" above final grade as per 30 TAC 285.38 (September 1, 2023).
Tank access limitation (<65lbs lid or hardware secured lid) and secondary plug, net, or mesh are required in riser.



2086 gallon tank **EQ Tank**

Model: 2086 gallon

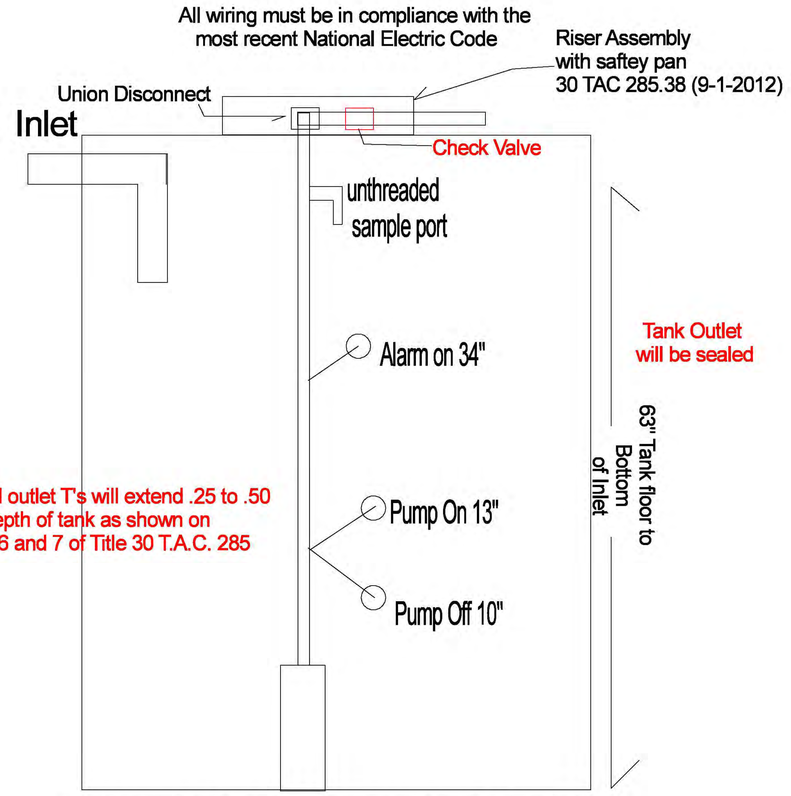
November 2011
By: gwj

Scale:
* All Dimensions subject to allowable specification tolerances.

Dwg. #: 2086 tank

Advantage Wastewater Solutions llc
Advantage Wastewater Solutions llc.
444 A Old Hwy No 9
Comfort, TX 78013
830-995-3189
fax 830-995-4051

2086 Gallon EQ Tank



Inlet and outlet T's will extend .25 to .50 of the depth of tank as shown on Figures 6 and 7 of Title 30 T.A.C. 285

*A minimum of 4" sand, sandy loam, cloay loam, pea gravel free of rock shall be placed under and around tank
* Backfill tank with sand, sandy loam, cloay loam, pea gravel free of rock shall be placed under and around tank

- Risers are required on all tank inspection ports as per 30 TAC 285.38 (September 1, 2023). This includes access limitation (<65lbs lid or hardware secured lid) and secondary plug, net, or mesh in riser. All risers will be a minimum 2" above final grade.

PROFESSIONAL SEAL

LOGO/CONTACT

martinez ARCHITECTS
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8911 N Capital of Texas Hwy
Suite 4200
Austin, TX 78759
737.900.5166

DESIGN TEAM

Architectural
Martinez Architects

Civil
Hill Country Civil

Landscape
Evergreen Landscape Group

Structural
Matrix Structural

MEP
Emerald MEP

Technology
Imagine IT

Alerting
WestNET

STATION #42
Hays County ESD #4
xxxxx
Wimberley, TX 78676

PROJECT No: MA 25016
DATE: 20-OCT-2026

ISSUE

1	100% DD	06-JAN-2026
2	25% CD	25-FEB-2026
3	75% CD	06-APR-2026
4	98% CD	04-MAY-2026
5	IFP	01-JUN-2026
6	IFB	20-OCT-2026

SEPTIC SHEET 3

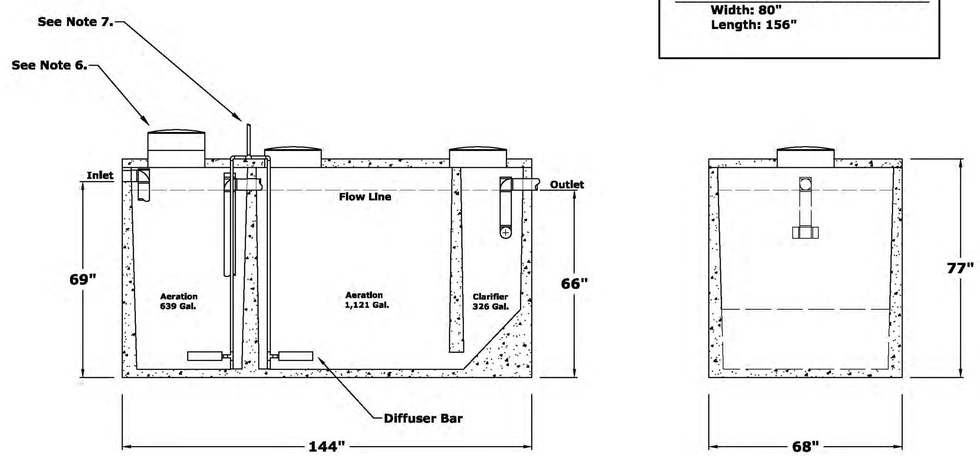
OSSF-3

Advantage
Wastewater Solutions llc

GENERAL NOTES:

1. **Plant structure material to be precast concrete and steel.**
2. **Maximum burial depth is 30" from slab top to grade.**
3. **Weight = 16,600 lbs.**
4. **Treatment capacity is 1,500 GPD.**
5. **BOD Loading = 4.50 lbs. per day.**
6. **20" Ø acess riser w/ lid (Typical 3). Optional extension risers available.**
7. **1" Sch. 40 PVC Air Line to NuWater B-1500 Air Compressor (Max. 50 Lft from Plant).**
8. **Requires minimum 1,000 gallon trash tank unless otherwise specified by engineering.**

MINIMUM EXCAVATION DIMENSIONS:
Width: 80"
Length: 156"



NuWater B-1500 Duel Aeration Aerobic Treatment Plant

Model: B-1500

Jan, 2019
By: A.S.

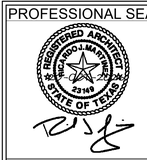
Scale:
* All Dimensions subject to allowable specification tolerances.

Dwg. #: ADV-B1500-2

Advantage
Wastewater Solutions llc

Advantage Wastewater Solutions llc.
444 A Old Hwy No 9
Comfort, TX 78013
830-995-3189
fax 830-995-4051

PROFESSIONAL SEAL



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Suite 4200
Austin, TX 78759
737.900.5166

DESIGN TEAM

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Martinez Architects

Civil
Hill Country Civil

Landscape
Evergreen Landscape Group

Structural
Matrix Structural

MEP
Emerald MEP

Technology
Imagine IT

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WestNET

STATION #42

Hays County ESD #4
xxxxx
Wimberley, TX 78676

PROJECT No: **MA 25016**
DATE: **20-OCT-2026**

ISSUE

1	100% DD	06-JAN-2026
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4	98% CD	04-MAY-2026
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6	IFB	20-OCT-2026

SEPTIC SHEET 4

OSSF-4

Advantage Wastewater Solutions llc

Inlet and outlet T's will extend .25 to .50 of the depth of tank as shown on Figures 6 and 7 of Title 30 T.A.C. 285

GENERAL NOTES:

1. Tank structure material to be precast concrete and steel.
2. Maximum burial depth is 30" from slab top to grade.
3. Weight = 16,600 lbs.
4. Tank capacity is 2,086 Gal.
5. 20" Ø acess riser w/ lid (Typical 3). Optional extension risers available.
6. 4" min. compacted sand or gravel pad by Contractor

MINIMUM EXCAVATION DIMENSIONS:
Width: 80"
Length: 156"

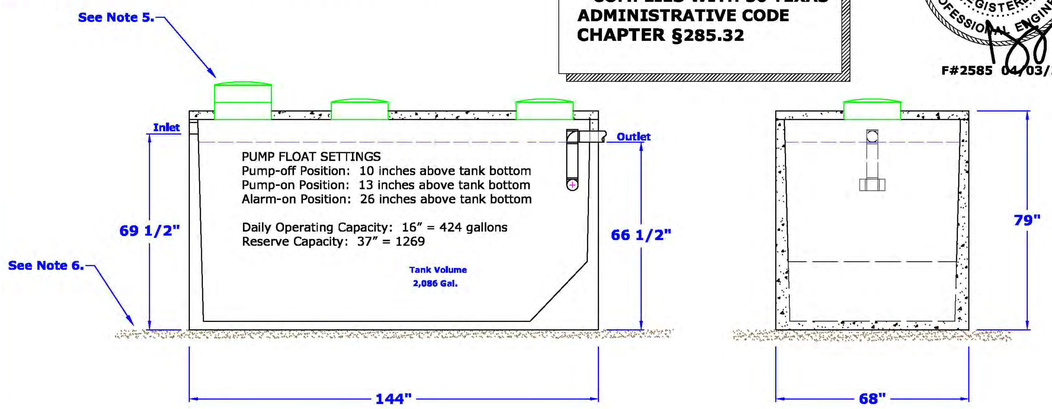
CERTIFICATIONS:

* ANALYSIS AND DESIGN IN ACCORDANCE WITH ASTM STANDARD C 1227

* COMPLIES WITH 30 TEXAS ADMINISTRATIVE CODE CHAPTER §285.32

STATE OF TEXAS
GREG W. JOHNSON
67587
REGISTERED
PROFESSIONAL ENGINEER
F#2585 04/03/2019

•Risers are required on all tank inspection ports 12" or larger extending a minimum 2" above final grade as per 30 TAC 285.38 (September 1, 2023).
Tank access limitation (<65lbs lid or hardware secured lid) and secondary plug, net, or mesh are required in riser.



2086 gallon tank **PUMP Tank**

Model: 2086 gallon

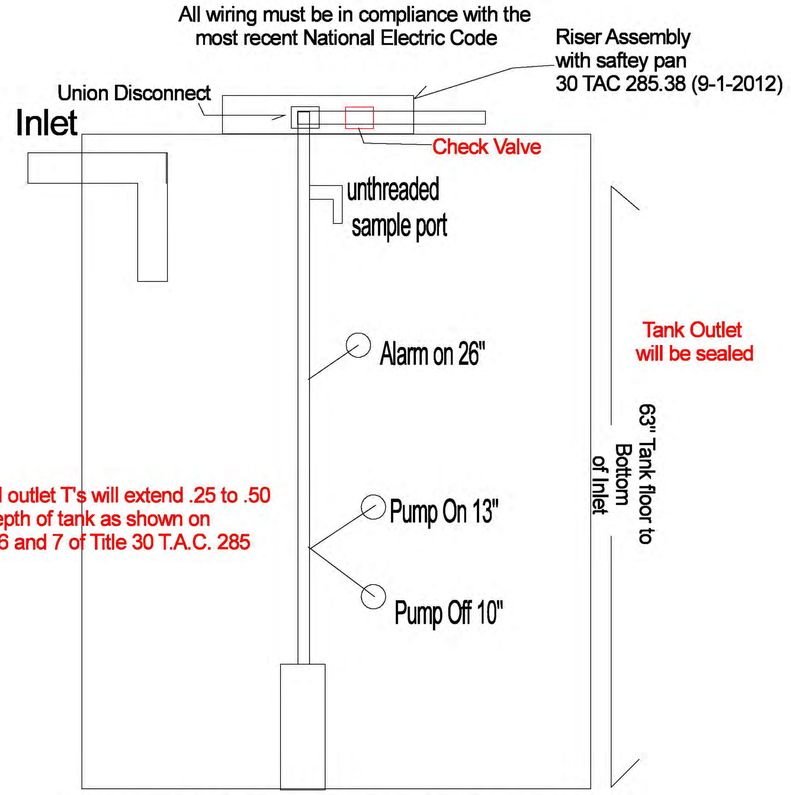
November 2011
By: gwj

Scale:
* All Dimensions subject to allowable specification tolerances.

Dwg. #: 2086 tank

Advantage Wastewater Solutions llc
Advantage Wastewater Solutions llc.
444 A Old Hwy No 9
Comfort, TX 78013
830-995-3189
fax 830-995-4051

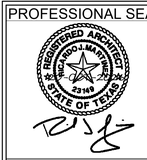
2086 Gallon Pump Tank



*A minimum of 4" sand, sandy loam, cloay loam, pea gravel free of rock shall be placed under and around tank
* Backfill tank with sand, sandy loam, cloay loam, pea gravel free of rock shall be placed under and around tank

- Risers are required on all tank inspection ports as per 30 TAC 285.38 (September 1, 2023). This includes access limitation (<65lbs lid or hardware secured lid) and secondary plug, net, or mesh in riser. All risers will be a minimum 2" above final grade.

PROFESSIONAL SEAL



LOGO/CONTACT

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Suite 4200
Austin, TX 78759
737.900.5166

DESIGN TEAM

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Alerting
WestNET

STATION #42
Hays County ESD #4
xxxxx
Wimberley, TX 78676

PROJECT No: MA 25016
DATE: 20-OCT-2026

ISSUE

1	100% DD	06-JAN-2026
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3	75% CD	06-APR-2026
4	98% CD	04-MAY-2026
5	IFP	01-JUN-2026
6	IFB	20-OCT-2026

SEPTIC SHEET 5

OSSF-5

CIVIL CONSTRUCTION SET

FOR

HAYS COUNTY ESD NO. 4, FIRE STATION NO. 42

WIMBERLEY, TX

CONTACT INFORMATION

ARCHITECT:

MARTINEZ ARCHITECTS
900 ROCKMEAD, SUITE 250
HOUSTON, TX 77339
(281) 349-7371

ENGINEER:

HILL COUNTRY CIVIL, LLC
391 LANDA ST. STE. 1204
NEW BRAUNFELS, TX 78130
CONTACT: ROSS CORDER, PE
PHONE: (210) 378-4953
EMAIL: ROSS@HILLCOUNTRYCIVIL.COM

SURVEYOR:

WCR LAND SURVEYING
P.O. BOX 481
BLANCO, TX 78606
CONTACT: CHRISTOPHER JURICA
PH: (830) 833-3010
EMAIL: CHRISJ@WCRLANDSURVEYING.COM
TBPE&LS Firm #10194135

SITE INFORMATION

LEGAL DESCRIPTION
SURVEY SHOWING A 147.21 ACRE TRACT OF LAND SITUATED IN THE CLEMENT HENSON ABSTRACT NO. 249 AND THE THOMAS CRAINSHAW SURVEY NO. 110, ABSTRACT NO. 85, HAYS COUNTY, TEXAS. BEING THE REMAINDER OF A CALLED 148.40 ACRE TRACT OF LAND RECORDED IN DOCUMENT NO. 18029272, OFFICIAL PUBLIC RECORDS, HAYS COUNTY, TEXAS.

FLOOD PLAIN NOTE

THIS PROPERTY DOES NOT LIE WITHIN THE 100 YEAR FLOODPLAIN AS SHOWN ON THE FLOOD INSURANCE RATE MAPS F.I.R.M. MAP No. 48209C0238G, DATED JANUARY 17, 2025, AND 48209C0236G DATED JANUARY 17, 2025.

CONTRIBUTING PLAN ZONE NOTE

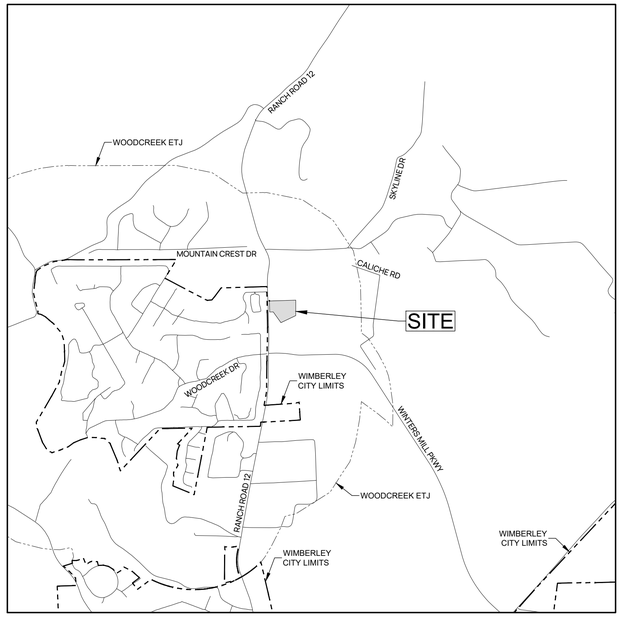
THIS PROPERTY IS LOCATED OVER THE EDWARDS AQUIFER CONTRIBUTING ZONE.

WATER NOTE

THE PROJECT SITE IS SERVED BY AQUA WATER SUPPLY COMPANY.

WASTEWATER NOTE

ALL WASTEWATER GENERATED BY THE SITE IS TREATED BY ONSITE OSSF TREATMENT SYSTEM DESIGNED BY CONTRACTOR AND PERMITTED THROUGH HAYS COUNTY.



LOCATION MAP
N.T.S

Sheet List Table	
Sheet Number	Sheet Title
1	COVER SHEET
2	GENERAL CONSTRUCTION NOTES
3	EXISTING CONDITIONS AND DEMOLITION PLAN
4	EROSION CONTROL PLAN
5	EROSION CONTROL DETAILS
6	SITE PLAN
7	OVERALL DIMENSION PLAN
8	OVERALL GRADING PLAN
9	OVERALL GRADING PLAN (1)
10	OVERALL GRADING PLAN (2)
11	DETENTION POND PLAN
12	DETENTION POND DETAILS
13	EXISTING DRAINAGE AREA MAP
14	PROPOSED DRAINAGE AREA MAP
15	OVERALL UTILITY CONNECTION PLAN
16	STORM DRAIN CONNECTION INSET
17	WATER CONNECTION INSET
18	SANITARY SEWER CONNECTION INSET
19	AQUA WATER UTILITY DETAILS
20	RAINWATER TANK DETAILS
21	FIRE TANK DETAILS
22	SITE DETAILS
23	TXDOT DRIVEWAY
24	TXDOT DETAILS (1 OF 2)
25	TXDOT DETAILS (2 OF 2)

CAUTION!

CONTRACTOR SHALL EXERCISE CAUTION DURING DEMOLITION, EXCAVATION, CLEARING AND CONSTRUCTION ACTIVITIES NEAR OVERHEAD ELECTRIC LINES. CONTRACTOR SHALL COMPLY WITH ALL SAFETY REGULATIONS WHEN OPERATING NEAR POWER LINES.

DIG TESS

CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION ACTIVITY (ON OR OFFSITE) FOR THE PROJECT.

TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR, SUB-CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE, OR STRUCTURAL/GEOTECHNICAL/SAFETY EQUIPMENT CONSULTANT, SHALL REVIEW THESE PLANS AND GEOTECHNICAL REPORT, THE INSTALLATION SITES WITHIN THE PROJECT AREA IN ORDER TO IMPLEMENT CONTRACTORS TRENCH EXCAVATION SAFETY PROTECTION PLAN. SYSTEMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM OSHA STANDARDS. SPECIFICALLY , CONTRACTOR AND/OR RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PLAN IN ACCORDANCE WITH OSHA REGULATIONS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND/OR AROUND THE EXPOSED TRENCH EXCAVATION.

Hill Country Civil
Engineers ● Consultants
Texas Firm Registration # 20281
391 Landa Street, Ste. 1204, New Braunfels, TX 78130
Phone 817-659-5078 or 210-378-4953
www.hillcountrycivil.com

STATE OF TEXAS
ROSS T. CORDER
104201
LICENSED
PROFESSIONAL ENGINEER

20 OCTOBER 2026

No.	Date	Revisions
1	10/20/26	IFB SET

HAYS COUNTY ESD NO. 4
FIRE STATION NO. 42
HCC JOB No.: 013-14
DRAWN BY.: TN

COVER SHEET

SHEET No.
1
OF 25

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C:\HCC\Hill Country Civil\Projects - Documents\013 Martinez Architects\14 Wimberley Fire Station\1 - CAD\2 - Sheets\013-14 CVR-001.dwg

SURVEY NOTE

SURVEY PREPARED BY:
DILLO DEV ON JUNE 12, 2025
SETH REICHENAU, RPLS
967 BROADWAY
NEW BRAUNFELS , TX 78130
PH: (830) 282-0333
TX SURVEYING FIRM NO. 10194711
JOB NO. 25072

TOPOGRAPHIC SURVEY

0.227 ACRES
BEING A PART OF LOT 10,
CHARLES & OLLIE OLDHAM SUBDIVISION,
VOLUME 142, PAGE 424
DEED RECORDS, HAYS COUNTY, TEXAS

Texas Commission on Environmental Quality
Contributing Zone Plan
General Construction Notes

Edwards Aquifer Protection Program Construction Notes – Legal Disclaimer

The following/listed "construction notes" are intended to be advisory in nature only and do not constitute an approval or conditional approval by the Executive Director (ED), nor do they constitute a comprehensive listing of rules or conditions to be followed during construction. Further actions may be required to achieve compliance with TCEQ regulations found in Title 30, Texas Administrative Code (TAC), Chapters 213 and 217, as well as local ordinances and regulations providing for the protection of water quality. Additionally, nothing contained in the following/listed "construction notes" restricts the powers of the ED, the commission or any other governmental entity to prevent, correct, or curtail activities that result or may result in pollution of the Edwards Aquifer or hydrologically connected surface waters. The holder of any Edwards Aquifer Protection Plan containing "construction notes" is still responsible for compliance with Title 30, TAC, Chapters 213 or any other applicable TCEQ regulation, as well as all conditions of an Edwards Aquifer Protection Plan through all phases of plan implementation. Failure to comply with any condition of the ED's approval, whether or not in contradiction of any "construction notes," is a violation of TCEQ regulations and any violation is subject to administrative rules, orders, and penalties as provided under Title 30, TAC § 213.10 (relating to Enforcement). Such violations may also be subject to civil penalties and injunction. The following/listed "construction notes" in no way represent an approved exception by the ED to any part of Title 30 TAC, Chapters 213 and 217, or any other TCEQ applicable regulation

1. A written notice of construction must be submitted to the TCEQ regional office at least 48 hours prior to the start of any ground disturbance or construction 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 should be provided with complete copies of the approved Contributing Zone Plan (CZP) and the TCEQ letter indicating the specific conditions of its approval. During the course of these regulated activities, the contractor(s) should keep copies of the approved plan and approval letter on-site.
3. No hazardous substance storage tank shall be installed within 150 feet of a water supply source, distribution system, well, or sensitive feature.
4. 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 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.
5. 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.
6. Sediment must be removed from the sediment traps or sedimentation basins when it occupies 50% of the basin's design capacity.
7. Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from being discharged offsite.
8. All excavated material that will be stored on-site must have proper E&S controls.
9. If portions of the site will have a 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.
10. The following records should 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 CZP 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 best management practices (BMPs) or structure(s), including but not limited to temporary or permanent ponds, dams, berms, silt fences, and diversionary structures;
    B. any change in the nature or character of the regulated activity from that which was originally approved;
    C. any change that would significantly impact the ability to prevent pollution of the Edwards Aquifer; or
    D. any development of land previously identified as undeveloped in the approved contributing zone plan.

Austin Regional Office 12100 Park 35 Circle, Building A Austin, Texas 78753-1808 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.

GENERAL CONSTRUCTION NOTES:

1. CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL BUILDING CODES APPLICABLE TO THIS PROJECT. FURTHERMORE, THE CONTRACTOR PRIOR TO START OF CONSTRUCTION SHALL NOTIFY ALL GOVERNMENT AGENCIES, TCEQ, AND/OR UTILITY AGENCIES AFFECTED BY THE PROPOSED CONSTRUCTION IMPROVEMENTS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY SYSTEMS, PLANS AND DESIGNS APPLICABLE TO THE PROJECT. HILL COUNTRY CIVIL DOES NOT EXTEND TO OR INCLUDE DESIGNS OR PLANS PERTAINING TO THE SAFETY OF THE CONTRACTOR, SUBCONTRACTORS, EMPLOYEES OR PROJECT SITE. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE ALL SAFETY REGULATIONS, CODES AND ORDINANCES ARE BEING MET DURING THE DURATION OF THE PROJECT.
3. CONTRACTOR SHALL FOLLOW ALL SAFETY REQUIREMENTS AND REGULATIONS OUTLINED BY THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION.
4. CONTRACTOR SHALL KEEP A COPY OF THE APPROVED PLANS AT THE JOBSITE THROUGHOUT THE DURATION AND COMPLETION OF THE PROJECT.
5. PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL COORDINATE WITH LOCAL TV, ELECTRIC, GAS, WATER, SEWER AND PHONE PROVIDERS AS REQUIRED TO PROVIDE SERVICE TO THE PROJECT SITE. IN ADDITION, CONTRACTOR SHALL COORDINATE ANY INTERRUPTIONS OF UTILITY SERVICE TO THE APPLICABLE SERVICE PROVIDER.
6. CONTRACTOR TO EXERCISE EXTREME CAUTION WHEN OPERATING NEAR OR AROUND EXISTING GAS LINES. CONTRACTOR SHALL NOTIFY GAS COMPANY 72 HOURS PRIOR TO CONSTRUCTION WHEN OPERATING NEAR GAS LINE FACILITIES.
7. CONTRACTOR SHALL PROTECT ALL EXISTING FACILITIES INCLUDING BUT NOT LIMITED TO UTILITIES, PAVEMENT, STREETS, CURB AND GUTTER, TREES, LANDSCAPING, IRRIGATION SYSTEMS, ETC., IMPACTED BY THE PROJECT CONSTRUCTION LIMITS. CONTRACTOR RESTORE ANY DISTURBED AREAS IMPACTED BY CONSTRUCTION TO ITS ORIGINAL OR BETTER CONDITION, INCLUDING ANY AREAS DAMAGED REQUIRING REPAIR (NO SEPARATE PAY ITEM).
8. CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION ACTIVITY (ON OR OFFSITE) FOR THE PROJECT. FURTHERMORE, CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITED TO: WATER, TELEPHONE, SEWER, FIBER OPTIC, ELECTRIC, DUCT BANKS, IRRIGATION LINES AND GAS LINES.
9. LOCATION AND DEPICTION OF UTILITIES SHOWN ARE FOR REFERENCE ONLY AND PER NOTE 8 ABOVE, SHOULD BE CONFIRMED BEFORE STARTING CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND ANY REPAIR COSTS SHALL BE BORNE BY THE CONTRACTOR
10. CONTRACTOR SHALL PROTECT EXISTING TREES, BOTH DEPICTED ON THE CONSTRUCTION DRAWINGS AND THOSE TREES WHICH ARE NOT AS WELL. ANY TREES THAT EXIST ON SITE NOT SHOWN TO BE REMOVED, BUT APPEAR TO BE DISTURBED, OR REQUIRED TO BE REMOVED IN ORDER TO MEET THE PROPOSED SITE PLAN, SHALL BE COORDINATED WITH THE LANDSCAPE ARCHITECT, CIVIL ENGINEER OR OWNER PRIOR TO REMOVAL.
11. DURING CONSTRUCTION, CONTRACTOR SHALL MAINTAIN UNRESTRICTED DRAINAGE. NO PONDING OF STORM DRAINAGE SHALL BE PERMITTED IN AREAS OF PREPARED SUBGRADE OR EXCAVATION, EMBANKMENT. IF PONDING SHOULD OCCUR, CONTRACTOR SHALL IMMEDIATELY PUMP OUT OR GRAVITY DRAIN PONDING WATER OUT OF IMPACTED AREAS. IF ANY DAMAGE OCCURRED TO SUBGRADE, BUILDING PAD OR EXCAVATION AREAS, THE SOILS MUST BE DRIED OUT, REMOVED, REPLACED AND RE-COMPACTED.
12. DISTURBED AREAS (CONSTRUCTION AREAS) SHALL BE STRIPPED OF VEGETATION, LOOSE TOPSOIL, ORGANICS, BRUSH AND DEBRIS. AFTERWARDS, THE EXPOSED SUBGRADE SHALL SHALL BE PROOF ROLLED WITH A MINIMUM 20 TON PNEUMATIC ROLLER. ANY WEAK AREAS DETECTED SHALL BE REMOVED AND REPLACED WITH SUITABLE SOILS OF SIMILAR TYPE (CLASSIFICATION, MOISTURE CONTENT AND DENSITY).
13. IF REQUIRED TO MODIFY EXISTING GRADE, FILL MATERIALS SHOULD BE PLACED ON PREPARED SURFACES IN LIFTS NOT EXCEED 8 INCHES (LOOSE MEASURE), WITH COMPACTED THICKNESS NOT TO EXCEED 6 INCHES OR AS INDICATED IN SITE GEOTECHNICAL REPORT. FILL SHALL BE COMPACTED TO OPTIMUM MOISTURE CONTENT OR UP TO +3 PERCENTAGE POINTS OF OPTIMUM MOISTURE CONTENT TO A MINIMUM OF 95% MAXIMUM DENSITY AS DETERMINED BY TXDOT, TEX-114-E OR AS DESCRIBED IN THE SITE GEOTECHNICAL REPORT PREPARED BY TERRACON, PROJECT No. 96255246, DATED FEBRUARY 5, 2025.
14. ALL FILL MATERIALS SHALL BE CLEAR OF DEBRIS, ORGANICS AND VEGETATION. IF IMPORTED FILL IS USED, IT SHALL BE A RELATIVELY HOMOGENEOUS PARTICLE SIZE DISTRIBUTION, WITH MAX SIZE OF 3 INCHES , PLASTICITY INDEX BETWEEN 7 AND 20 AND A LIQUID LIMIT LESS THAN 40; OR AS INDICATED ON THE GEOTECHNICAL REPORT.
15. ANY EXCESS EXCAVATION MATERIALS NOT USED, SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OFFSITE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL LAWS.
16. CONTRACTOR IS RESPONSIBLE FOR FILING WITH THE TCEQ FOR THE TEMPORARY STORM WATER POLLUTION PREVENTION PLAN NOTICE TO PROCEED AND NOTICE OF TERMINATION AT THE START AND END OF CONSTRUCTION.
17. AFTER COMPLETION OF CONSTRUCTION, THE SITE SHALL BE THOROUGHLY CLEANED OF CONSTRUCTION DEBRIS, SEDIMENT, MATERIAL, ETC. PRIOR TO TURNING OVER TO OWNER.
18. CONTRACTOR SHALL INCLUDE IN THEIR BASE BID ANY TRAFFIC AND/OR PEDESTRIAN CONTROL DEVICES, PLANS OR LAYOUT NECESSARY FOR CONSTRUCTION; INCLUDING SEQUENCING OF CONSTRUCTION, DELIVERIES OF CONSTRUCTION MATERIAL AND EQUIPMENT; AND DEMOLITION ACTIVITIES, SO THAT THE ADJACENT ROADWAYS AND NEIGHBORING PROPERTIES HAVE SUITABLE VEHICULAR AND PEDESTRIAN ACCESS.
19. NOTES, CALLOUTS OR ITEMS NOTED AS "BY-OTHERS" SHALL BE CONSIDERED OUTSIDE THE SCOPE OF SERVICES PERFORMED BY HILL COUNTRY CIVIL. THESE ITEMS ARE CALLED OUT FOR REFERENCE ONLY, AND THE CONTRACTOR SHALL CONFIRM WITH OWNER, OTHER CONSULTANT OR MANUFACTURER FOR PLANS, OR DESIGNS DETAILING THOSE SPECIFIC ITEMS.
20. CONTRACTOR IS RESPONSIBLE FOR ALL VERTICAL AND HORIZONTAL CONTROL THROUGHOUT CONSTRUCTION.
21. BURNING IS NOT ALLOWED ON THIS PROJECT.
22. THIS PROPERTY IS NOT WITHIN THE 100 YEAR FLOODPLAIN AS SHOWN ON THE FLOOD INSURANCE RATE MAPS F.I.R.M. MAP No. 48209C0238G, DATED JANUARY 17, 2025, AND 48209C0236G DATED JANUARY 17, 2025.

CAUTION!

CONTRACTOR SHALL EXERCISE CAUTION DURING DEMOLITION, EXCAVATION, CLEARING AND CONSTRUCTION ACTIVITIES NEAR OVERHEAD ELECTRIC LINES. CONTRACTOR SHALL COMPLY WITH ALL SAFETY REGULATIONS WHEN OPERATING NEAR POWER LINES.

DIG TESS

CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION ACTIVITY (ON OR OFFSITE) FOR THE PROJECT.

TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR, SUB-CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE, OR STRUCTURAL/GEOTECHNICAL/SAFETY EQUIPMENT CONSULTANT, SHALL REVIEW THESE PLANS AND GEOTECHNICAL REPORT, THE INSTALLATION SITES WITHIN THE PROJECT AREA IN ORDER TO IMPLEMENT CONTRACTORS TRENCH EXCAVATION SAFETY PROTECTION PLAN. SYSTEMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM OSHA STANDARDS. SPECIFICALLY , CONTRACTOR AND/OR RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PLAN IN ACCORDANCE WITH OSHA REGULATIONS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND/OR AROUND THE EXPOSED TRENCH EXCAVATION.

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STATE OF TEXAS
ROSS T. CORDER
115431
LICENSED
PROFESSIONAL ENGINEER

20 OCTOBER 2026

No.	Date	Revisions	App.
1.	10/20/26	IFB SET	

HAYS COUNTY ESD NO. 4

FIRE STATION NO. 42

HCC JOB No.: 013-14 DRAWN BY.: TN

GENERAL CONSTRUCTION NOTES

SHEET No.

2

OF 25

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BENCHMARK, CONTROL POINT, IRON ROD FOUND				
Point #	Elevation	Northing	Easting	Description
6	1062.79	13924227.22	2252928.75	CP/SIR
7	1082.00	13925046.68	2252846.21	FIR
8	1076.79	13925308.38	2252701.43	FCM/BUSTED
9	1071.09	13925271.70	2252630.39	FCM/BUSTED
10	1081.50	13925044.24	2252836.51	FIR
11	1084.16	13924979.59	2252869.35	FCM
13	1018.37	13925089.00	2255137.22	FIR
14	1024.33	13925131.52	2255075.18	FMFP/5.5"
16	1017.20	13925137.89	2255222.05	FIR
17	1018.90	13925123.69	2255129.33	FIR
18	1017.90	13925086.83	2255106.06	FIR
19	1016.00	13925091.36	2255172.63	FIR/IN ASPH
20	1015.86	13925080.59	2255188.42	FIR
21	1010.14	13925058.92	2255305.25	FIR/3-8
22	1011.73	13925118.02	2255315.49	FIR/3-8
24	1034.70	13925103.04	2254679.20	FIR/PC
25	1003.70	13924651.08	2255163.14	FIR
26	1002.28	13924625.70	2255190.98	FIP/1"
27	1003.60	13924632.08	2255161.72	BEEP/PF ON 3
28	1000.69	13924622.44	2255221.76	FIR
29	999.83	13924487.15	2255180.43	FIP/1" IN 14" LO
30	1001.76	13924575.60	2255186.58	FIR
31	994.28	13924173.22	2255182.12	FIP/1"
32	993.10	13924197.74	2255232.64	FIP/1"
33	993.20	13924025.45	2255242.14	FIP/1"
34	999.22	13923726.10	2255245.65	FIP/1"
35	996.80	13923455.33	2255248.83	FIR
36	997.76	13923126.07	2255251.98	FIR
37	995.77	13922621.86	2255253.62	LO 17"
38	994.17	13922619.03	2255255.71	F60D
39	987.10	13922292.63	2255254.99	FIR
40	970.01	13922280.11	2254696.76	FIR/AD HAYS COUNTY
41	1000.04	13922773.93	2252914.72	FCM
42	1000.85	13922771.68	2252835.39	FCM
44	1062.89	13924067.35	2252874.45	FCM
45	1064.94	13924064.93	2252794.36	FCM
46	1088.07	13924465.28	2252823.63	FCM
47	1079.05	13924593.24	2252926.86	FCM
48	1095.27	13924606.81	2252848.81	FCM
49	1075.49	13924451.59	2252902.18	FCM
291	983.15	13922240.51	2252908.48	LAI
293	983.16	13922190.96	2255215.20	LAI
294	985.18	13922174.84	2255255.77	LAI
295	986.48	13922193.04	2255256.21	FIR
311	1004.38	13921325.39	2252897.02	FCM



0 75 150 300

SCALE (FEET)

LEGEND

- IRF — IRON ROD FOUND (SIZE NOTED)
- CONTROL/CALCULATED POINT
- BENCHMARK
- EXIST ELECTRIC METER
- EXIST POWER POLE
- EXIST GUY ANCHOR
- PROPERTY LINE
- ADJOINER LINE
- EXIST EDGE OF PAVEMENT
- EXIST BARBED WIRE FENCE
- EXIST WOOD FENCE
- EXIST WATER LINE
- EXIST OVERHEAD ELECTRIC
- EXIST OVERHEAD ELECTRIC/COMMUNICATION
- EXIST MAJOR CONTOUR
- EXIST MINOR CONTOUR
- EXIST CONCRETE
- EXIST STONE/ROCK
- EXIST BUILDING
- EXIST TO BE DEMOED
- EXIST TO BE DEMOLISHED

DEMOLITION PLAN NOTES:

1. PRIOR TO START OF CONSTRUCTION ACTIVITIES, CONTRACTOR SHALL CONSTRUCT ALL REQUIRED EROSION CONTROL AND TREE PROTECTION MEASURES AS INDICATED ON STORM WATER POLLUTION PREVENTION PLAN AND/OR LANDSCAPE ARCHITECT DRAWINGS.
2. PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL COORDINATE WITH LOCAL TV, ELECTRIC, GAS, WATER, SEWER AND PHONE PROVIDERS AS REQUIRED TO PROVIDE SERVICE TO THE PROJECT SITE.
3. CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION ACTIVITY (ON OR OFFSITE) FOR THE PROJECT.
4. ANY GARBAGE OR DEBRIS SHALL BE REMOVED FROM THE PROJECT SITE.
5. REMOVAL , RELOCATION OR DISCONNECTION FROM A UTILITY SERVICE (ELECTRIC, GAS, WATER, SEWER, CABLE, TV, FIBER, ETC.) SHALL BE COORDINATED WITH APPROPRIATE UTILITY SERVICE PROVIDER PRIOR TO START OF DEMOLITION ACTIVITIES.
6. CONTRACTOR SHALL PROPERLY DISPOSE OF ANY HAZARDOUS MATERIALS IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. FURTHERMORE, HAZARDOUS MATERIALS SHALL BE HANDLED BY PROPERLY LICENSED AND TRAINED HAZARDOUS MATERIAL SUB-CONTRACTORS/INDIVIDUALS.
7. CONTRACTOR SHALL COORDINATE ALL REMOVED ITEMS WITH OWNER. CONTRACTOR IS RESPONSIBLE FOR ALL DISPOSAL AND HAULING COSTS AND SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS FOR DISPOSING OF DEMOLISHED MATERIALS.
8. TREE REMOVAL SHALL BE COORDINATED WITH OWNER OR OWNER'S REP PRIOR TO START OF CONSTRUCTION TO CONFIRM TREE REMOVAL LIMITS. ALL TREES LOCATED WITHIN THE BUILDING FOOTPRINT, PAVEMENT, UTILITIES, OR STORM FACILITIES SHALL BE REMOVED. ADDITIONAL TREES MAY BE REQUIRED TO BE REMOVED FROM GRADING (EXCAVATION/EMBANKMENT) AREAS AS REQUIRED PER THE SITE GRADING PLAN. TREES TO BE REMOVED BY CONTRACTOR.

CAUTION!

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20 OCTOBER 2026

No.	Date	Revisions	App.
1.	10/20/26	IFB SET	

HAYS COUNTY ESD NO. 4

FIRE STATION NO. 42

HCC JOB No.: 013-14 DRAWN BY:.. TN

EXISTING CONDITIONS AND DEMOLITION PLAN

SHEET No.

3

OF 25

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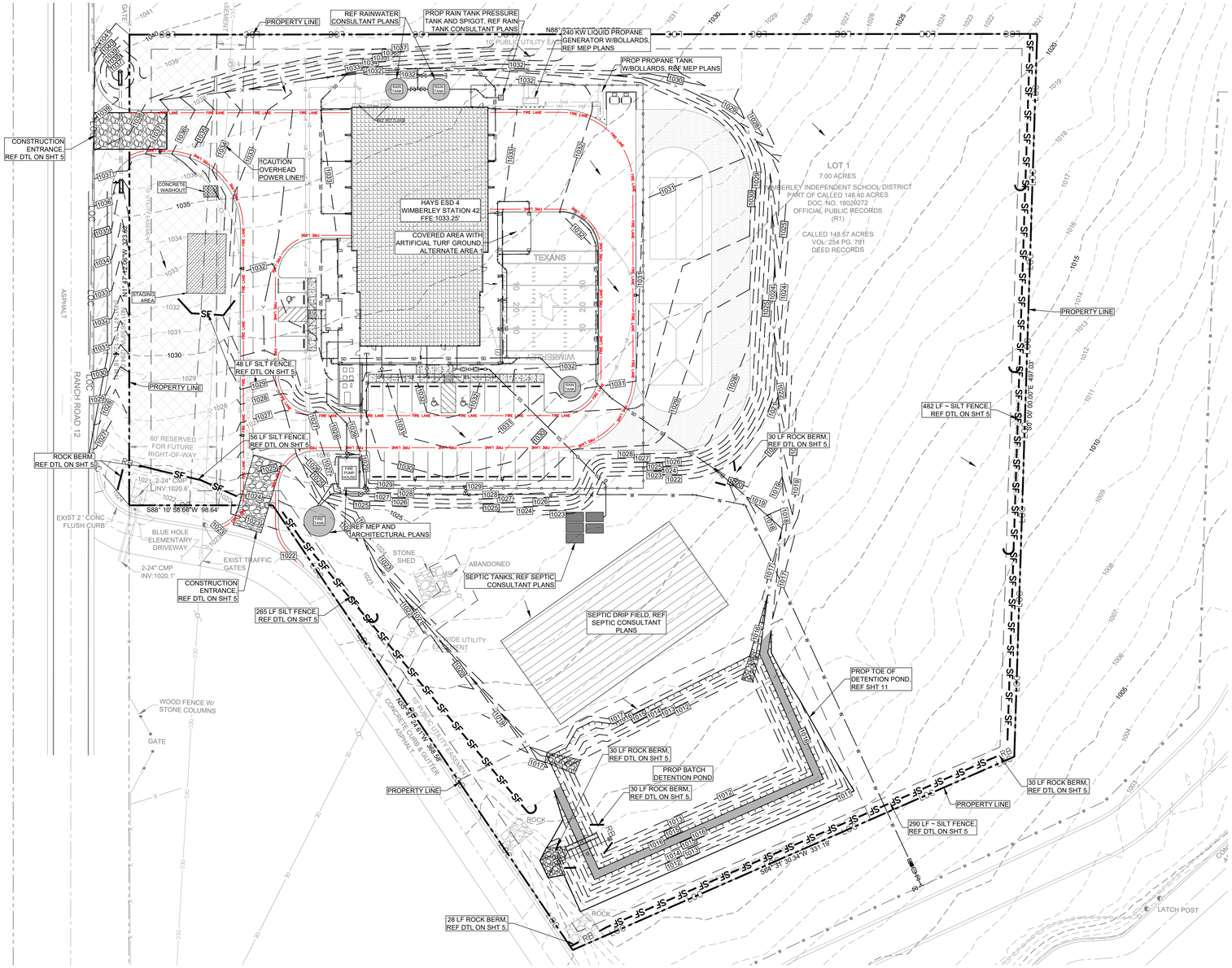
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SURVEY NOTE

SURVEY PREPARED BY:
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PH: (830) 282-0333
TX SURVEYING FIRM NO. 10194711
JOB NO. 25072

TOPOGRAPHIC SURVEY

0.227 ACRES
BEING A PART OF LOT 10,
CHARLES & OLLIE OLDHAM SUBDIVISION,
VOLUME 142, PAGE 424
DEED RECORDS, HAYS COUNTY, TEXAS



0 20 40 80
SCALE (FEET)

LEGEND

- IRF — IRON ROD FOUND (SIZE NOTED)
- CONTROL/CALCULATED POINT
- BENCHMARK
- EXIST ELECTRIC METER
- EXIST POWER POLE
- EXIST GUY ANCHOR
- PROPERTY LINE
- ADJOINER LINE
- EXIST EDGE OF PAVEMENT
- EXIST BARBED WIRE FENCE
- EXIST WOOD FENCE
- W — EXIST WATER LINE
- OE — EXIST OVERHEAD ELECTRIC
- OEC — EXIST OVERHEAD ELECTRIC/COMMUNICATION
- 910 — EXIST MAJOR CONTOUR
- 911 — EXIST MINOR CONTOUR
- EXIST CONCRETE
- EXIST STONE/ROCK
- EXIST BUILDING
- W — PROP WATER LINE
- SS — PROP SANITARY SEWER LINE
- FIRE LANE — PROP FIRE LANE
- PROP WHEELSTOP
- PROP BUILDING
- PROP FLOW ARROW
- SILT FENCE J-HOOK
- SF — SF — SF — SILT FENCE
- STAGING AREA
- CONSTRUCTION ENTRANCE
- RB — TEMPORARY ROCK BERM
- CONCRETE WASHOUT PIT

EROSION CONTROL PLAN NOTES:

1. CONTRACTOR SHALL FILE STORM WATER POLLUTION PREVENTION PLAN WITH THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY AND POST A SITE NOTICE AT LEAST 48 HOURS PRIOR TO START OF CONSTRUCTION.
2. CONTRACTOR SHALL FILE THE NOTICE OF INTENT AND NOTICE OF TERMINATION WITH THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY PRIOR TO START OF CONSTRUCTION AND AT THE END OF THE PROJECT.
3. ALL STRUCTURAL BMP'S SHALL BE INSTALLED PRIOR TO START OF ANY DISTURBANCE OR CONSTRUCTION ACTIVITY ONSITE, INCLUDING BUT NOT LIMITED TO EXCAVATION, CLEARING, GRUBBING, OR GRADING.
4. CONTRACTOR SHALL INSTALL BMP'S AS REQUIRED BY PHASE FOR THE PROJECT OR AS SPECIFICALLY INDICATED PER PLAN. ALL PHASING OR ADJUSTMENTS TO THE EROSION CONTROL PLAN SHALL TAKE IN TO ACCOUNT UP-GRADIENT STORM WATER FLOWS FOR PLACEMENT OF BMP'S.
5. CONTRACTOR SHOULD IN BEST EFFORT, ONLY DISTURB AREAS WHERE CONSTRUCTION ACTIVITY IS REQUIRED IN AN EFFORT TO REDUCE POTENTIAL OF STORM WATER POLLUTION RUNOFF FROM THE SITE.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND INSPECTING STRUCTURAL BMP'S DAILY AND ESPECIALLY AFTER STORM EVENTS TO ENSURE BMP'S ARE FUNCTIONING PROPERLY. THE CONTRACTOR MAY MODIFY CONTROLS AS REQUIRED TO PREVENT SEDIMENT RUNOFF DOWNSTREAM IMPACTS.
7. CONTRACTOR SHALL USE DUST CONTROL MEASURES DURING CONSTRUCTION SUCH AS IRRIGATION TRUCKS AND MULCHING AS REQUIRED.
8. CONTRACTOR SHALL CLEAN UP ANY SEDIMENTATION RUNOFF OR SPOILS THAT MIGRATE ONTO ADJACENT ROADWAYS AFTER A STORM EVENT OR AS REQUIRED BY THE LOCAL INSPECTOR.
9. CONTRACTOR SHALL SEED OR SOD DISTURBED AREAS WITH BERMUDA GRASS OR SOME OTHER FORM OF HARD GRASS AS SOON AS POSSIBLE TO AVOID SOIL RUNOFF AFTER CONSTRUCTION IN THAT AREA IS COMPLETED.
10. TREES PROPOSED TO BE PRESERVED SHALL BE PROTECTED DURING CONSTRUCTION AND MUST MEET THE FOLLOWING CRITERIA:
    - 10.1. MINIMUM OF 50% OF THE CRITICAL ROOT ZONE MUST BE PRESERVED AT NATURAL GRADE, WITH NATURAL GROUND COVER.
    - 10.2. CUT OR FILL IS LIMITED TO 4-INCHES FROM THE ½ CRITICAL ROOT ZONE TO THE ½ CRITICAL ROOT ZONE.
    - 10.3. NO CUT OR FILL IS PERMITTED WITHIN THE ½ CRITICAL ROOT ZONE.
11. BMP'S MAY ONLY BE REMOVED ONCE THE SITE ACHIEVES 95% RE-VEGETATION IN DISTURBED AREAS.

SEQUENCE OF MAJOR CONSTRUCTION ACTIVITIES:

1. INSTALLATION OF TEMPORARY BMPS.
2. SITE CLEARING AND GRUBBING.
3. SITE DEMOLITION ACTIVITIES.
4. ROUGH SITE GRADING AND SUBGRADE PREPARATION.
5. STORMWATER FACILITIES CONSTRUCTED.
6. UTILITY CONSTRUCTION.
7. FINAL SITE GRADING AND SUBGRADE PREPARATION.
8. PAVEMENT INSTALLATION, INCLUDING BASE MATERIALS AND CONCRETE/ASPHALT PAVEMENT AND CURBS.
9. BUILDING PAD CONSTRUCTION.
10. BUILDING CONSTRUCTION.
11. LANDSCAPING AND IRRIGATION CONSTRUCTION.
12. SITE STABILIZATION, REVEGETATION OF DISTURBED AREAS.
13. SITE CLEANUP AND REMOVAL OF TEMPORARY BMPS.

CAUTION!

CONTRACTOR SHALL EXERCISE CAUTION DURING DEMOLITION, EXCAVATION, CLEARING AND CONSTRUCTION ACTIVITIES NEAR OVERHEAD ELECTRIC LINES. CONTRACTOR SHALL COMPLY WITH ALL SAFETY REGULATIONS WHEN OPERATING NEAR POWER LINES.

DIG TESS

CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION ACTIVITY (ON OR OFFSITE) FOR THE PROJECT.

TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR, SUB-CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE, OR STRUCTURAL/GEOTECHNICAL/SAFETY EQUIPMENT CONSULTANT, SHALL REVIEW THESE PLANS AND GEOTECHNICAL REPORT, THE INSTALLATION SITES WITHIN THE PROJECT AREA IN ORDER TO IMPLEMENT CONTRACTORS TRENCH EXCAVATION SAFETY PROTECTION PLAN. SYSTEMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM OSHA STANDARDS, SPECIFICALLY , CONTRACTOR AND/OR RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PLAN IN ACCORDANCE WITH OSHA REGULATIONS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND/OR AROUND THE EXPOSED TRENCH EXCAVATION.

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135421
LICENSED
PROFESSIONAL ENGINEER
20 OCTOBER 2026

No.	Date	Revisions	App.
1.	10/20/26	IFB SET	

HAYS COUNTY ESD NO. 4
FIRE STATION NO. 42
HCC JOB No.: 013-14
DRAWN BY:: TN

EROSION CONTROL PLAN

SHEET No.
4
OF 25

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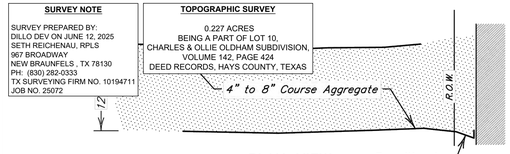
C:\HCC\Hill Country Civil\Projects - Documents\013 Martinez Architects\14 Wimberley Fire Station\1 - CAD\2 - Sheets\013-14 ECP-001.dwg

SURVEY NOTE

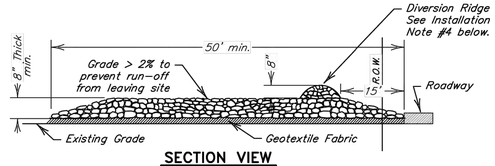
SURVEY PREPARED BY:
DILLO DEV ON JUNE 12, 2025
SETH REICHENAU, RPLS
967 BROADWAY
NEW BRAUNFELS , TX 78130
PH: (830) 282-0333
TX SURVEYING FIRM NO. 10194711
JOB NO. 25072

TOPOGRAPHIC SURVEY

0.227 ACRES
BEING A PART OF LOT 10,
CHARLES & OLLIE OLDHAM SUBDIVISION,
VOLUME 142, PAGE 424
DEED RECORDS, HAYS COUNTY, TEXAS



PLAN VIEW



SECTION VIEW

MATERIALS:

1. The aggregate should consist of four (4) inch to eight (8) inch washed stone over a stable foundation as specified in the plan.
2. The aggregate should be placed with a minimum thickness of eight (8) inches.
3. The geotextile fabric should be designed specifically for use as a soil filtration media with an approximate weight of 6 oz./sq.yd., a Mullen burst rating of 140 #/sq.in., and an equivalent opening size greater than a U.S. Sieve No. 50.
4. If a washing facility is required, a level area with a minimum of four (4) inch diameter washed stone or commercial rock should be included in the plans. Wastewater should be diverted to a sediment trap or basin.

INSTALLATION:

1. Avoid curves on public roads and steep slopes. Remove vegetation and other objectionable material from the foundation area. Grade a crown in the center of the foundation for positive drainage.
2. The minimum width of the facility should be either twelve (12) feet or the full width of Exit roadway, whichever is greater.
3. The Construction Entrance should be at least fifty (50) feet long.
4. If the slope toward the road exceeds two (2) percent, construct a ridge six (6) inches to eight (8) inches high with three to one (3H:1V) side slopes across the foundation approximately fifteen (15) feet from the Entrance to divert runoff away from the public road.
5. Place geotextile fabric and grade foundation to improve stability, especially where wet conditions are anticipated.
6. Place stone to dimensions and grade shown on plans. Leave the surface smooth and sloped for drainage.
7. Divert all surface runoff and drainage from the stone pad to a sediment trap or basin.
8. Install a pipe under pad as needed to maintain proper public road drainage.

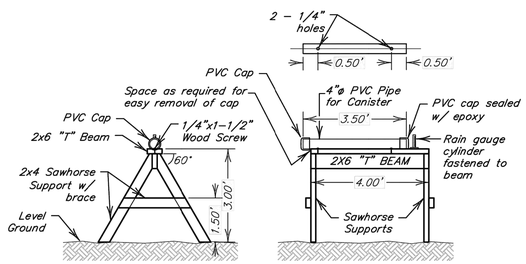
INSPECTION AND MAINTENANCE GUIDELINES:

1. The Entrance should be maintained in a condition which will prevent the tracking and flowing of sediment into public right-of-way. This may require a periodic top dressing of additional stone as conditions demand and repairing and/or cleaning out any measures used to trap sediment.
2. All sediment spilled, dropped, washed or tracked onto the public right-of-way should be removed immediately by the Contractor.
3. When necessary vehicular wheels should be cleaned to remove sediment prior to entrance onto public right-of-way.
4. When washing is required it should be done on an area stabilized with crushed stone that drains into an approved sediment trap or sediment basin.
5. All sediment should be prevented from entering any storm drain, ditch, or water course by using approved methods.

TEMPORARY CONSTRUCTION ENTRANCE/EXIT
(NTS)

GENERAL S.W.P.P.P. NOTES:

1. The location of Erosion and Sedimentation Control facilities are approximate. Contractor may modify, relocate, or add facilities with prior authorization from the Engineer.
2. Where a note or detail differs from the official Texas Commission On Environmental Quality (TCEQ) latest edition regulations, the TCEQ note or detail shall apply.



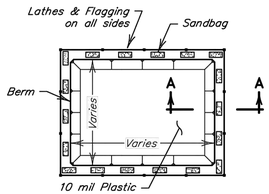
SECTION VIEW

PROFILE VIEW

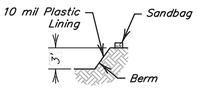
NOTES:

1. This canister shall be used to store the complete Storm Water Pollution Prevention Plan (SWPPP) and all other related documents so that they are available on-site for the Inspector.
2. The canister shall be located on solid level ground adjacent to the construction entrance and on the opposite side of the Concrete Washout Area.

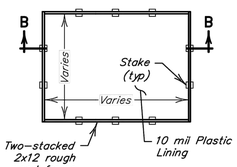
S.W.P.P.P. DOCUMENT CONTAINER
(NTS)



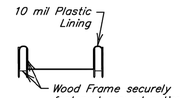
PLAN VIEW
TYPE: "BELOW GRADE"



SECTION "A-A"



PLAN VIEW
TYPE: "ABOVE GRADE"



SECTION "B-B"

NOTES:

1. Locate washout area at least 50 feet from sensitive features, storm drains, open ditches, or water bodies. Do not allow runoff from this area by constructing a temporary pit or bermed area large enough for liquid and solid waste.
2. Wash out wastes into the temporary pit where the concrete can set, be broken up, and then disposed properly.
3. Below grade concrete washout facilities are typical. These consist of a lined excavation sufficiently large to hold expected volume of washout material. Above grade facilities are used if excavation is not practical. Temporary concrete washout facility (type above grade) should be constructed as shown on the details at the end of this section, with sufficient quantity and volume to contain all liquid and concrete waste generated by washout operations. Plastic lining material should be a minimum of 10 mil in polyethylene sheeting and should be free of holes, tears, or other defects that compromise the impermeability of the material.
4. When temporary concrete washout facilities are no longer required for the work, the hardened concrete should be removed and disposed of. Materials used to construct temporary concrete washout facilities should be removed from the site of the work and disposed of. Holes, depressions or other ground disturbance caused by the removal of the temporary concrete washout facilities should be backfilled and repaired.

CONCRETE WASHOUT AREA
(NTS)

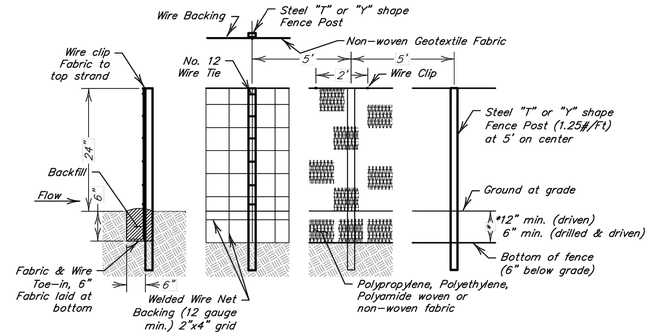
GUIDELINES FOR INSTALLATION:

1. Preserve natural vegetation or planting in clumps, blocks or strips in generally the easiest and most successful method.
2. All unstable steep slopes should be left in natural vegetation.
3. Fence or flag clearing limits and keep all equipment and construction debris out of the natural areas.
4. Keep all excavations outside the dripline of trees and shrubs.
5. Debris or extra soil should be pushed into the buffer zone area because it will cause from burying and smothering.
6. The minimum width of a vegetative buffer used for sediment control should be fifty (50) feet.

INSPECTION AND MAINTENANCE GUIDELINES:

Inspection and careful maintenance are important to ensure healthy vegetation. The need for routine maintenance such as mowing, fertilizing, irrigating, and weed and pest control will depend on the species of plants and trees, soil types, location, and climatic conditions. County agricultural extension agencies are a good source of this type of information.

VEGETATIVE BUFFER
(NTS)



MATERIALS:

1. Silt fence material should be polypropylene, polyethylene or polyamide woven or non-woven fabric. The fabric width should be thirty-six (36) inches with a minimum unit weight of 4.5 oz./sq.yd., a mullen burst strength exceeding 190 #/sq.in., ultraviolet stability exceeding 70%, and minimum apparent opening size of U.S. Sieve No. 30.
2. Fence posts should be made of hot rolled steel, at least four (4) feet long with Tee or Y-bar cross section, surface painted or galvanized, minimum nominal weight 1.25 #/ft, and Brindell hardness exceeding 140.
3. Woven wire backing to support the fabric should be galvanized twelve (12) gauge minimum two by four (2x4) inch welded wire.

INSTALLATION:

1. Steel posts which support the silt fence should be installed on a slight angle toward the anticipated runoff source. Posts must be embedded a minimum of one (1) foot deep and spaced not more than eight (8) feet on center. Where water concentrates the maximum spacing should be six (6) feet.
2. Lay out fencing down-slope of disturbed area following the contour as closely as possible. The fence should be sited so that the maximum drainage area is one-quarter (1/4) acre per one-hundred (100) feet of fence.
3. The toe of the silt fence should be trenched in with a spade or mechanical trencher so that the down-slope face of the trench is flat and perpendicular to the line of flow. Where fence cannot be trenched in (e.g. pavement or rock outcrop) weight fabric flap with three (3) inches of pea gravel on uphill side to prevent flow from seeping under the fence.
4. The trench must be a minimum of six (6) inches deep and six (6) inches wide to allow for the silt fence fabric to be laid in the ground and backfilled with compacted material.
5. Silt fence should be securely fastened to each steel support post or to woven wire which is in turn attached to the steel fence post. There should be a securely fastened three (3) foot overlap where ends of the fabric meet.
6. Silt fence should be removed when the site is completely stabilized so as not to block or impede storm flow or drainage.

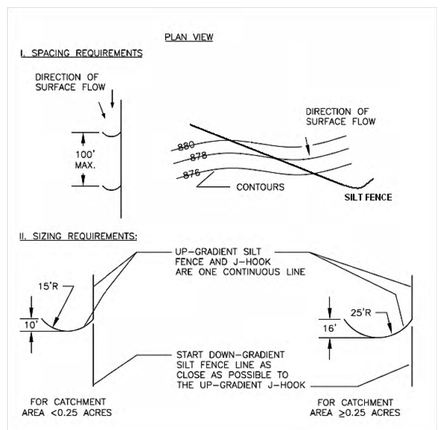
INSPECTION AND MAINTENANCE GUIDELINES:

1. Inspect all fencing weekly and after any rainfall event.
2. Remove sediment when buildup reaches 6 inches.
3. Replace any torn fabric or install a second line of fencing parallel to the torn section.
4. During the course of construction activities, Contractor shall replace or repair any crushed, collapsed sections. If a section of fence is obstructing vehicular access, consider relocating it to a spot where it will provide equal protection but will not obstruct vehicles. A triangular filter dike may be preferable to a silt fence at common vehicle access points.
5. When construction is complete, the sediment should be disposed of in a manner that will not cause additional siltation and the prior location of the silt fence should be re-vegetated. The fence itself should be disposed of in an approved landfill.

SILT FENCE
(NTS)

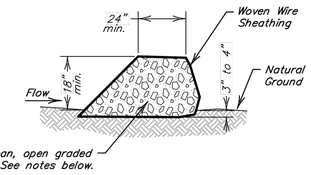
Recommended Silt Fence Spacing on Sloping Sites

	Soil Type		
Slope angle	Silty	Clays	Sandy
Very steep (1:1)	50 ft.	75 ft.	100 ft.
Steep (2:1)	75 ft.	100 ft.	125 ft.
Moderate (4:1)	100 ft.	125 ft.	150 ft.
Slight (10:1)	125 ft.	150 ft.	200 ft.



J-hook Placement Details

APPENDIX 2.7.1



MATERIALS:

1. The berm structure should be secured with a woven wire sheathing having a maximum opening of one (1) inch and a minimum wire diameter of 20 gauge galvanized and should be secured with shoat rings.
2. Clean, open graded three (3) inch to five (5) inch diameter rock should be used, except in areas where high velocities or large volumes of flow are expected five (5) inch to eight (8) inch diameter rocks may be used.

INSTALLATION:

1. Lay out the woven wire sheathing perpendicular to the flow line. The sheathing should be twenty (20) gauge woven wire mesh with one (1) inch openings.
2. Berm should have a top width of two (2) feet minimum with side slopes being two to one (2H:1V) ratio slope or flatter.
3. Place the rock along the sheathing as shown above to a height not less than eighteen (18) inches.
4. Wrap the wire sheathing around the rock and secure with tie wire so that the ends of the sheathing overlap at least two (2) inches. The berm should retain its shape when walked upon.
5. Berm should be built along the contour at zero percent grade or as near as possible.
6. The ends of the berm should be tied into existing up-slope grade and the berm should be buried in a trench approximately three (3) to four (4) inches deep to prevent failure of the control.

INSPECTION AND MAINTENANCE GUIDELINES:

1. Inspection should be made weekly and after each rainfall by the responsible party. For installations in stream beds additional daily inspections should be made.
2. Remove sediment and other debris when buildup reaches six (6) inches and dispose of the accumulated silt in a approved manner that will not cause any additional siltation.
3. Repair any loose wire sheathing.
4. The berm should be reshaped as needed during inspection.
5. The berm should be replaced when the structure ceases to function as intended due to silt accumulation among the rocks, washout, construction traffic damage, etc.
6. The rock berm should be left in place until all upstream areas are stabilized and accumulated silt is removed.

ROCK BERM
(NTS)

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20 OCTOBER 2026

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HAYS COUNTY ESD NO. 4
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HCC JOB No.: 013-14
DRAWN BY:: TN

EROSION CONTROL DETAILS

SHEET No.
5
OF 25

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FIRE LANE STRIPING DETAIL

NTS

FIRE PROTECTION PLAN NOTES

1. THIS PLAN COMPLIES WITH HAYS COUNTY FIRE PROTECTION ORDINANCES. HOSE PULL BY TRUCK SHALL NOT EXCEED 350 LF AND 150 LF MAN PULL WHEN BUILDINGS ARE NOT PROTECTED BY A FIRE SPRINKLER SYSTEM, AND WHEN PROTECTED BY A FIRE PROTECTION SYSTEM 200 LF.
2. FIRE LANE STRIPING SHALL BE RED PAINT STRIPING WITH 4" TYPE D BLOCK WHITE LETTERING SPACED EVERY 40'. WHITE LETTERING SHALL STATE: "FIRE LANE - NO PARKING - TOW AWAY ZONE".

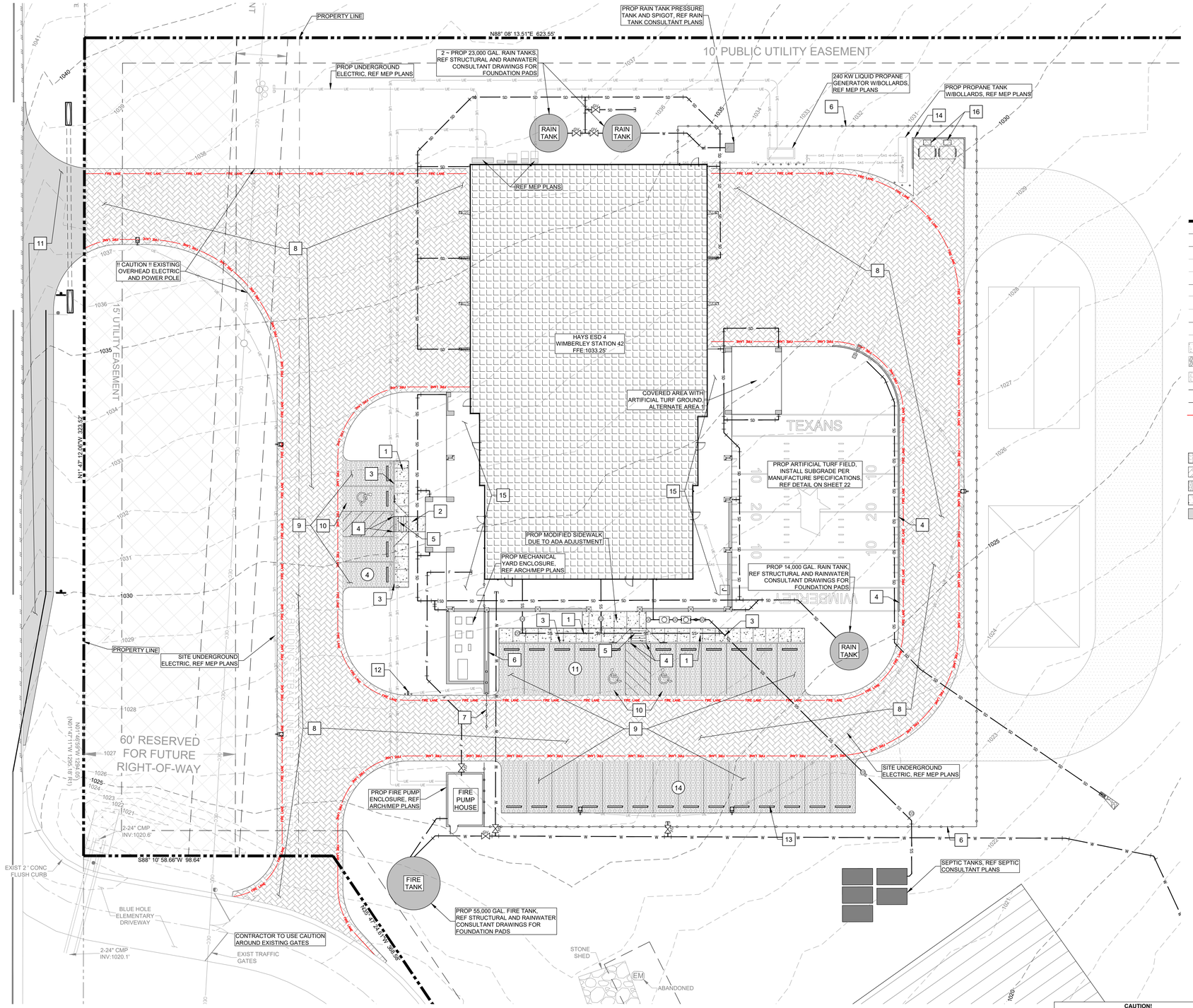
SITE SUMMARY TABLE	
LOT ACREAGE (ACRES)	6.99
IMPERVIOUS COVERAGE (SF)	61,206
IMPERVIOUS COVERAGE (%)	20
BUILDING HEIGHT	27' - 4.75"
BUILDING SQUARE FOOTAGE (SF)	14,737
PARKING COUNT	29
ADA PARKING COUNT	3

SITE PLAN NOTES

1. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LOCAL BUILDING, SAFETY, AND INSPECTION REGULATIONS.
2. CONTRACTOR SHALL KEEP A COPY OF APPROVED CONSTRUCTION DRAWINGS ONSITE AT ALL TIMES.
3. ALL DIMENSIONS SHOWN ARE TO FACE OF CURB OR EDGE OF PAVEMENT UNLESS STATED OTHERWISE.
4. PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL COORDINATE WITH LOCAL TV, ELECTRIC, GAS, WATER, SEWER AND PHONE PROVIDERS AS REQUIRED TO PROVIDE SERVICE TO THE PROJECT SITE.
5. CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION ACTIVITY (ON OR OFFSITE) FOR THE PROJECT.
6. ALL RAMPS, ACCESSIBLE PATHS, AND ACCESSIBLE PARKING SPOTS SHALL BE IN COMPLIANCE WITH THE LATEST TEXAS ACCESSIBILITY STANDARDS (TAS).
7. WHEELSTOPS SHALL BE PRE-CAST CONCRETE AND AND 6' IN LENGTH, OR AS SPECIFICALLY CALLED OUT ON PLANS. FURTHERMORE, WHEELSTOPS SHALL BE DOWELED IN PLACE A MINIMUM OF 12" INTO PAVEMENT AND BASE SECTION. WHEEL STOPS TO BE OWNER INSTALLED.
8. CONTRACTOR SHALL COORDINATE WITH ELECTRICAL ENGINEER OR LIGHTING CONSULTANT FOR LAYOUT OF PARKING LOT LIGHTS.
9. ALL DUMPSTER PADS AND APRONS SHALL BE CONSTRUCTED OF 7" REINFORCED CONCRETE PAVEMENT, WITH #4 BARS, 18" O.C.E.W., REF. GEOTECH REPORT AND PAVEMENT SECTION FOR MORE INFORMATION.
10. DUMPSTER'S SHALL BE SCREENED FROM PUBLIC RIGHT-OF-WAY AND ADJACENT PROPERTIES. SCREENING SHALL BE A MINIMUM OF 7' TALL. GATES TO ACCESS DUMPSTERS SHALL BE A MINIMUM OF 12' WIDE OR AS DETAILED ON ARCH DRAWINGS.

KEYNOTES

1	5.5' WIDE SIDEWALK, REF DTL ON SHT 22
2	6' WIDE SIDEWALK, REF DTL ON SHT 22
3	6" STANDARD CURB, REF DTL ON SHT 22
4	6" WIDE FLUSH CURB, REF DTL ON SHT 22
5	ADA RAMP, REF DTLS ON SHT 22
6	FENCE, REF ARCH SHEETS
7	GATE, REF ARCH SHEETS
8	HEAVY DUTY CONCRETE PAVEMENT, REF DTL ON SHT 22
9	LIGHT DUTY CONCRETE PAVEMENT, REF DTL ON SHT 22
10	ADA PARKING, REF DTLS ON SHT 22
11	TXDOT DRIVEWAY, REF SHT 23 & 24
12	CARD READER W/BOLLARDS, REF ARCH PLANS
13	WHEELSTOP (TYP), REF DTL ON SHT 22, OWNER TO PROVIDE AND INSTALL
14	DUMPSTER ENCLOSURE, REF ARCH SHEETS
15	STRUCTURAL SLAB/FLATWORK, REF STRUCTURAL SHEETS
16	LIMESTONE BUTTER BLOCKS, REF ARCH SHEETS



0 10 20 40
SCALE (FEET)

LEGEND

- IRF — IRON ROD FOUND (SIZE NOTED)
- CONTROL/CALCULATED POINT
- BENCHMARK
- EXIST ELECTRIC METER
- EXIST POWER POLE
- EXIST GUY ANCHOR
- PROPERTY LINE
- ADJOINER LINE
- EXIST EDGE OF PAVEMENT
- EXIST BARBED WIRE FENCE
- EXIST WOOD FENCE
- W — EXIST WATER LINE
- OE — EXIST OVERHEAD ELECTRIC
- OEC — EXIST OVERHEAD ELECTRIC/COMMUNICATION
- 910 — EXIST MAJOR CONTOUR
- 911 — EXIST MINOR CONTOUR
- EXIST CONCRETE
- EXIST STONE/ROCK
- EXIST BUILDING
- W — PROP WATER LINE
- SS — PROP SANITARY SEWER LINE
- FIRE LANE — PROP FIRE LANE
- PROP WHEELSTOP
- 9 — PARKING COUNT
- PROP BUILDING
- PROP HEAVY DUTY CONCRETE
- PROP LIGHT DUTY CONCRETE
- PROP CONCRETE SIDEWALK
- PROP TXDOT CONCRETE

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STATE OF TEXAS
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LICENSED PROFESSIONAL ENGINEER
20 OCTOBER 2026

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SITE PLAN

SHEET No.
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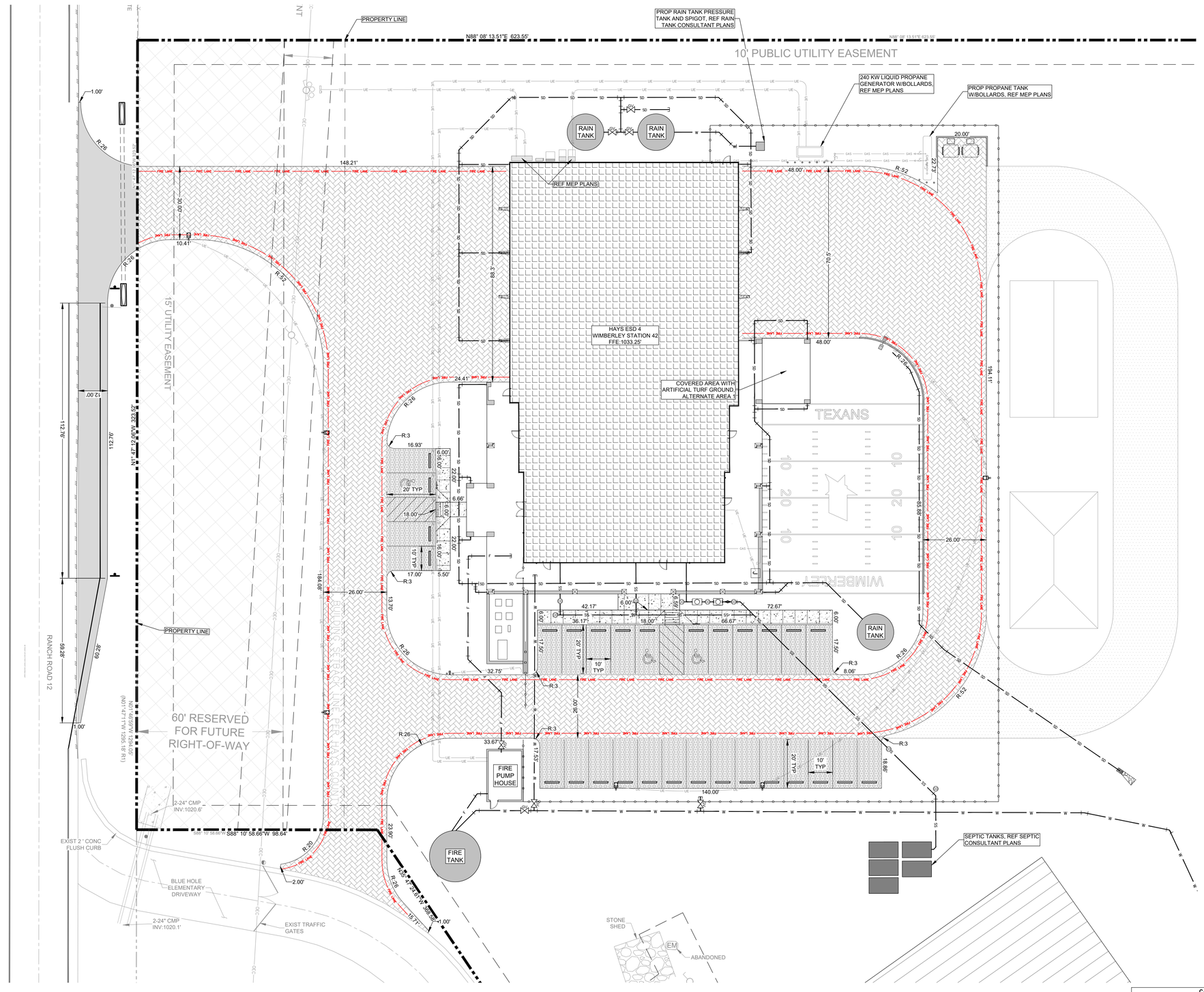
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SURVEY NOTE

SURVEY PREPARED BY:
DILLO DEV ON JUNE 12, 2025
SETH REICHENAU, RPLS
967 BROADWAY
NEW BRAUNFELS , TX 78130
PH: (830) 282-0333
TX SURVEYING FIRM NO. 10194711
JOB NO. 25072

TOPOGRAPHIC SURVEY

0.227 ACRES
BEING A PART OF LOT 10,
CHARLES & OLLIE OLDHAM SUBDIVISION,
VOLUME 142, PAGE 424
DEED RECORDS, HAYS COUNTY, TEXAS



0 10 20 40
SCALE (FEET)

LEGEND

- IRF — IRON ROD FOUND (SIZE NOTED)
- CONTROL/CALCULATED POINT
- BENCHMARK
- EM — EXIST ELECTRIC METER
- EXIST POWER POLE
- EXIST GUY ANCHOR
- PROPERTY LINE
- ADJOINER LINE
- EXIST EDGE OF PAVEMENT
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- 910 — EXIST MAJOR CONTOUR
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- EXIST STONE/ROCK
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- FIRE LANE — PROP FIRE LANE
- PROP WHEELSTOP
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- PROP HEAVY DUTY CONCRETE
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- PROP CONCRETE SIDEWALK
- PROP TXDOT PAVEMENT

CAUTION!

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ROSS T CORDER
STATE OF TEXAS
136421
LICENSED PROFESSIONAL ENGINEER

20 OCTOBER 2026

No.	Date	Revisions
1.	10/20/26	IFB SET

App.

HAYS COUNTY ESD NO. 4
FIRE STATION NO. 42
HCC JOB No.: 013-14 DRAWN BY:: TN

OVERALL DIMENSION PLAN

SHEET No.
7
OF 25

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C:\HCC\Hill Country Civil\Projects - Documents\013 Martinez Architects\14 Wimberley Fire Station\1 - CAD's\2 - Sheets\013-14 ESM-001.dwg

LEGEND

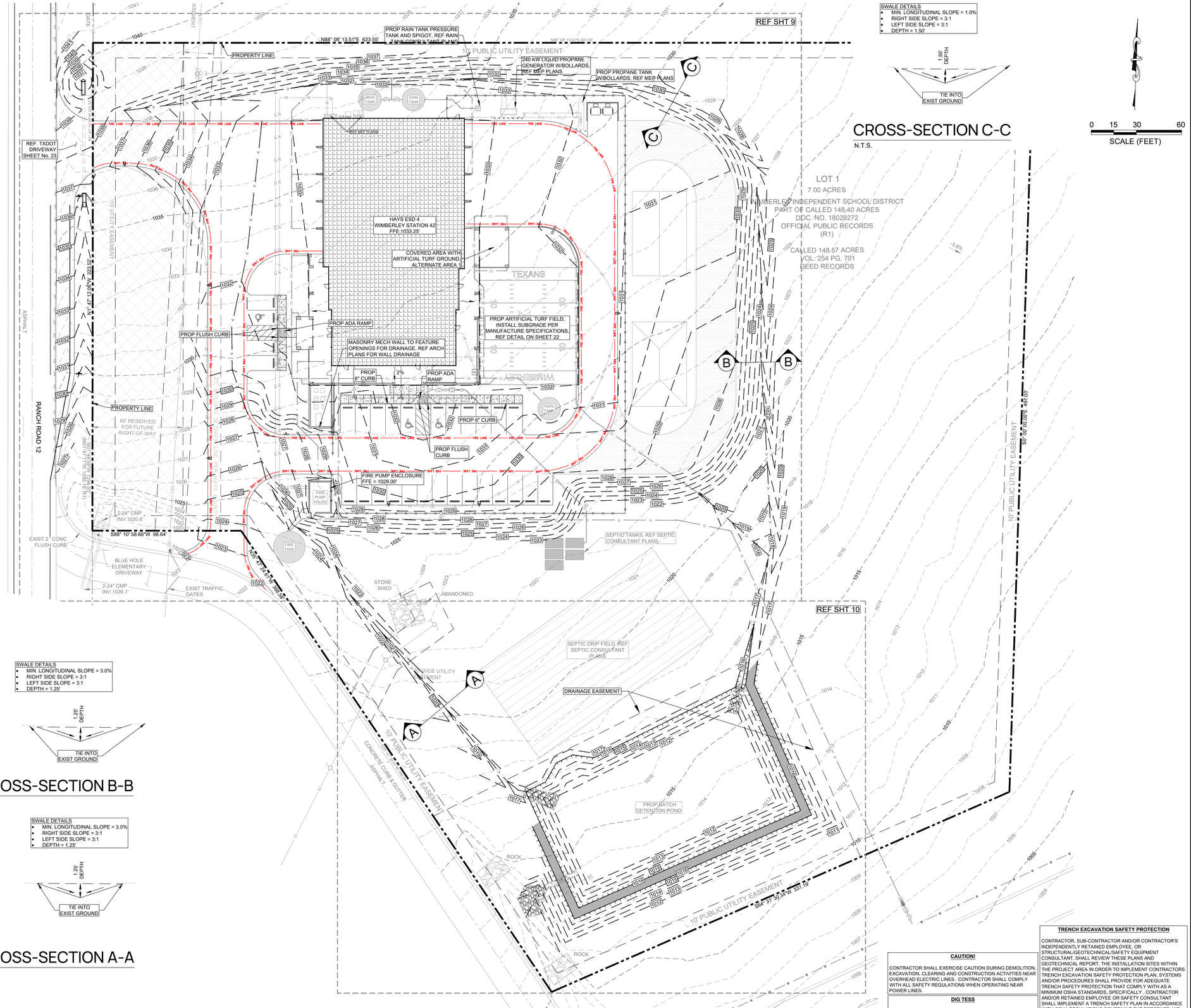
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SWALE DETAILS
- MIN. LONGITUDINAL SLOPE = 1.0%
- RIGHT SIDE SLOPE = 3:1
- LEFT SIDE SLOPE = 3:1
- DEPTH = 1.50'

1.50' DEPTH

TIE INTO EXIST GROUND

CROSS-SECTION C-C

N.T.S.

0 15 30 60

SCALE (FEET)

SWALE DETAILS
- MIN. LONGITUDINAL SLOPE = 3.0%
- RIGHT SIDE SLOPE = 3:1
- LEFT SIDE SLOPE = 3:1
- DEPTH = 1.25'

1.25' DEPTH

TIE INTO EXIST GROUND

CROSS-SECTION B-B

N.T.S.

SWALE DETAILS
- MIN. LONGITUDINAL SLOPE = 3.0%
- RIGHT SIDE SLOPE = 3:1
- LEFT SIDE SLOPE = 3:1
- DEPTH = 1.25'

1.25' DEPTH

TIE INTO EXIST GROUND

CROSS-SECTION A-A

N.T.S.

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HAYS COUNTY ESD NO. 4

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HCC JOB No.: 013-14 DRAWN BY: TN

OVERALL GRADING PLAN

SHEET No. 8 OF 25

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LEGEND

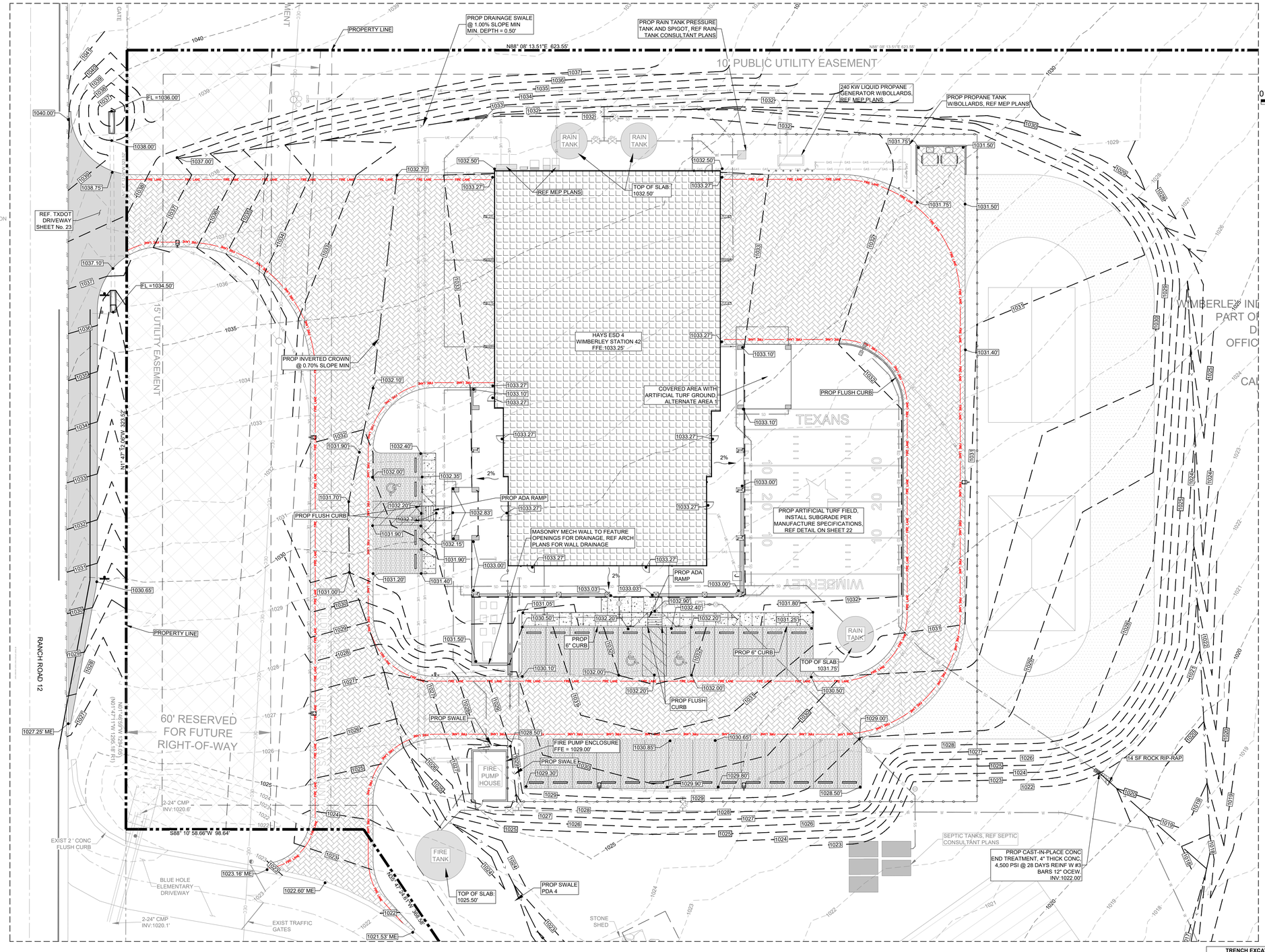
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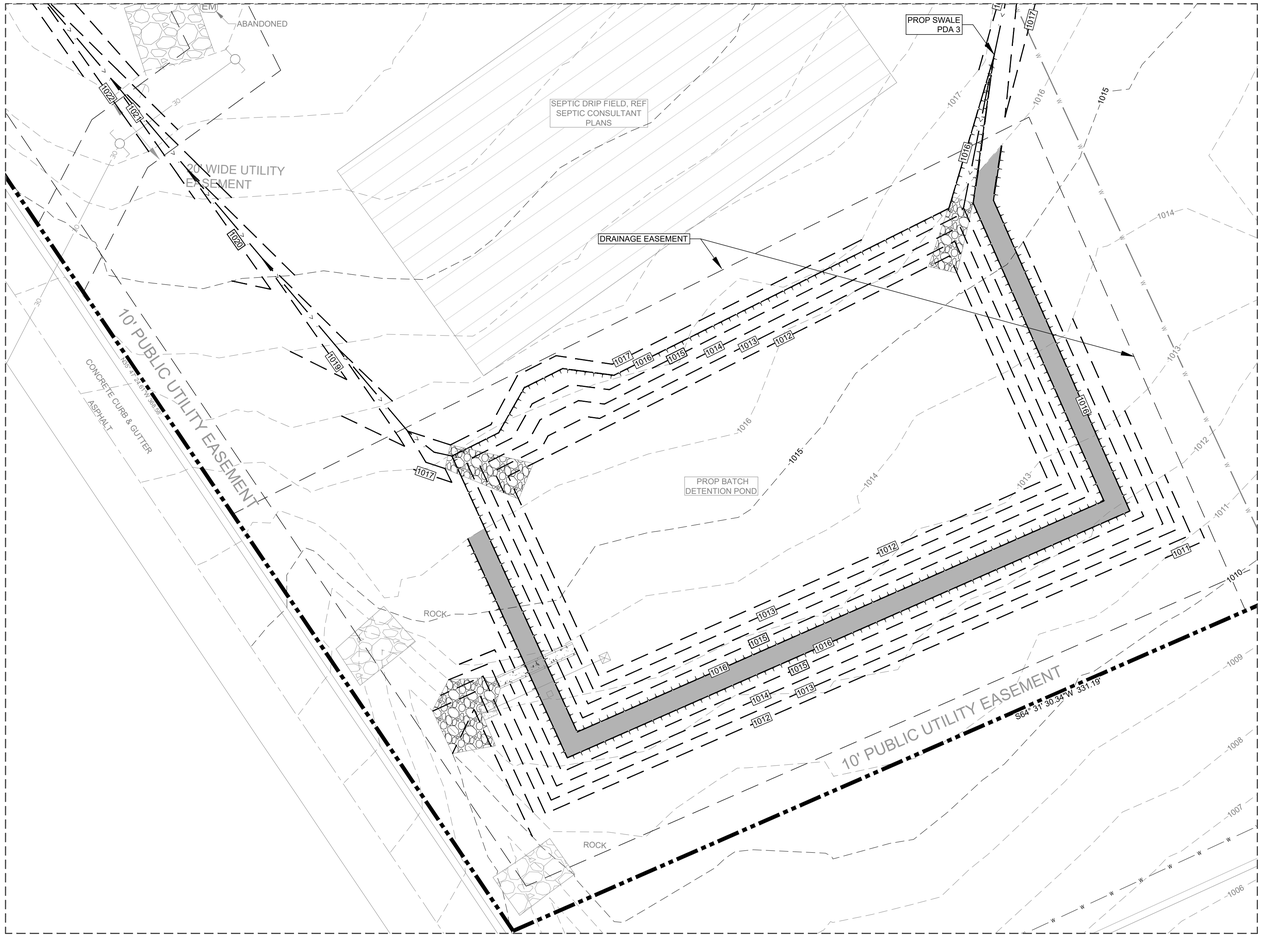
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FIRE STATION NO. 42

HCC JOB No.: 013-14 DRAWN BY.: TN

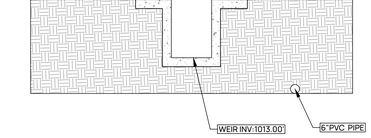
OVERALL GRADING PLAN (2)

SHEET No.
10
OF 25

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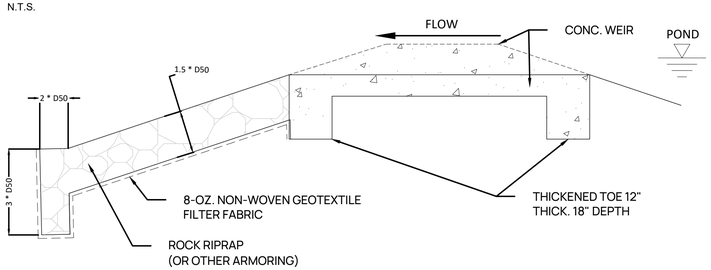
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12' MAINTENANCE ACCESS 6:1 SLOPE
12.00'
200 SF 6" ROCK RIP RAP
200 SF 6" ROCK RIP RAP
5.5' WIDE TOP OF BANK
PROP BATCH DETENTION POND
POND PROFILE ALIGNMENT
TOP OF POND:1016.00'
POND WEIR
6" PERFORATED PIPE
98 LF 6" PVC PIPE
BATCH POND LOGIC CONTROLLER
4" AUTOMATED VALVE OUTFALL
280 SF 6" ROCK RIP RAP
10' PUBLIC UTILITY EASEMENT
PROPERTY LINE
ROCK
ROCK
N29° 24' 8" W 385.63'
S64° 31' 30.34" W 331.19'
33.33%
25.00%



POND WEIR CROSS-SECTION A-A

N.T.S.



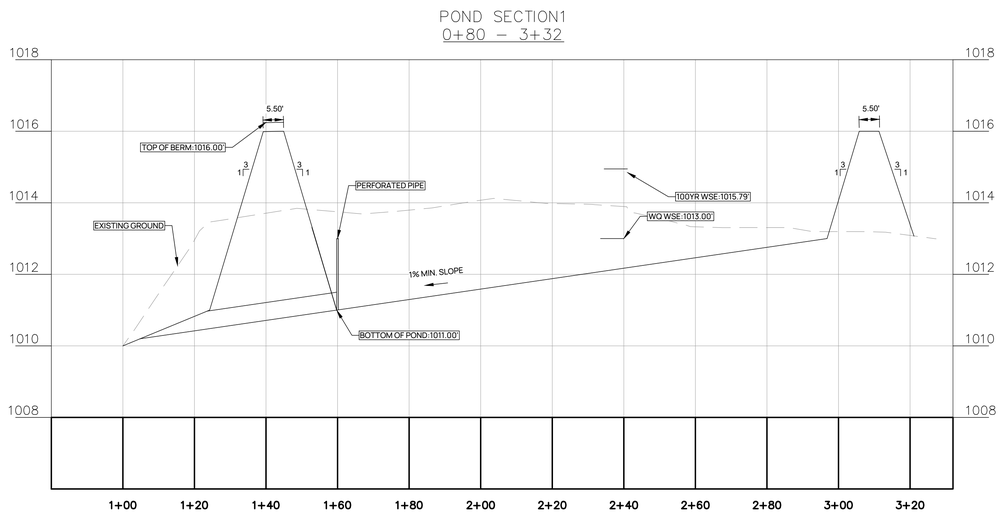
POND WEIR CROSS-SECTION TYP.

N.T.S.

POND STAGE, STORAGE, DISCHARGE

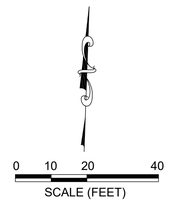
Stage (ft)	Elevation (ft)	Contour Area (sf)	Incremental Storage (cuft)	Total Storage (cuft)	Discharge (cfs)
0.00	1,011.00	0.00	0.00	0.00	0.000
1.00	1,012.00	8,878.00	2,959.00	2,959.00	0.819
2.00	1,013.00	10,158.00	9,510.00	12,469.00	1.112
3.00	1,014.00	11,521.00	10,831.00	23,300.00	8.307
4.00	1,015.00	12,969.00	12,237.00	35,537.00	21.250
5.00	1,016.00	14,509.00	13,730.00	49,267.00	37.930

Storm Event	Stage (ft)	Storage (cuft)	Discharge (cfs)
2-yr	1,013.93	16,701.00	2.909
5-yr	1,013.90	22,207.00	7.256
10-yr	1,014.32	27,201.00	11.960
25-yr	1,014.90	34,302.00	19.750
50-yr	1,015.34	40,197.00	26.540
100-yr	1,015.79	46,325.00	34.080



POND PROFILE

1"=20' HORIZONTAL 1"=2' VERTICAL



LEGEND

- IRF — IRON ROD FOUND (SIZE NOTED)
- CONTROL/CALCULATED POINT
- BENCHMARK
- EXIST ELECTRIC METER
- EXIST POWER POLE
- EXIST GUY ANCHOR
- PROPERTY LINE
- ADJOINER LINE
- EXIST EDGE OF PAVEMENT
- EXIST BARBED WIRE FENCE
- EXIST WOOD FENCE
- W — EXIST WATER LINE
- OE — EXIST OVERHEAD ELECTRIC
- OEC — EXIST OVERHEAD ELECTRIC/COMMUNICATION
- 910 — EXIST MAJOR CONTOUR
- 911 — EXIST MINOR CONTOUR
- EXIST CONCRETE
- EXIST STONE/ROCK
- EXIST BUILDING
- 1025 — PROP MAJOR CONTOUR
- 1024 — PROP MINOR CONTOUR
- PROP TOP OF BERM

DETENTION PLAN NOTES:

1. THE CONSTRUCTION HEIGHT OF AN EARTHEN EMBANKMENT SHALL BE EQUAL TO THE DESIGN HEIGHT PLUS THE AMOUNT NECESSARY TO ENSURE THAT THE DESIGN HEIGHT WILL BE MAINTAINED ONCE ALL SETTLEMENT HAS TAKEN PLACE. ALL EARTHEN EMBANKMENTS SHALL BE COMPACTED TO 95% MAXIMUM DENSITY.
2. ALL ROCK RIP RAP SHALL BE A MINIMUM 6" AND HAVE A MINIMUM APRON LENGTH OF 6' UNLESS SIZE IS SPECIFIED ON THE PLANS. EMBEDMENT DEPTH OF RIP RAP SHALL BE 1.5 TIMES THE DIAMETER OF THE ROCK.
3. ALL DISTURBED AREAS SHALL BE RESTORED AND PERMANENTLY REVEGETATED UNLESS OTHERWISE NOTED IN THE PLANS.
4. AT A MINIMUM DISTURBED AREAS NEED TO BE REVEGETATED AS PER TXDOT ITEM 164 SEEDING FOR EROSION CONTROL. PLANTING MUST FOLLOW EITHER SAN ANTONIO OR AUSTIN TXDOT REQUIREMENTS FOR SEED WEIGHT PER ACRE.
5. THE PLANTED AREAS SHALL BE 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 OCCURRENCES OF ½ INCH OF MORE SHALL POSTPONE THE WATERING SCHEDULE FOR ONE WEEK.
6. REFER TO DETENTION POND DETAILS SHEET FOR ADDITIONAL DETAILS ON POND DESIGN.
7. CONCRETE SHALL HAVE A MINIMUM THICKNESS OF 6" UNLESS NOTED OTHERWISE NOTED ON THE PLANS AND HAVE A MINIMUM OF 3,000 PSI COMPRESSIVE STRENGTH
8. CONCRETE FOR WEIR SHALL BE REINFORCED WITH #3 BARS @ 12" CENTERS
9. THICKENED TOE DOWN SHALL BE INSTALLED ON THE UP AND DOWNSTREAM ENDS OF THE WEIR STRUCTURE. TOE DOWN SHALL HAVE A MINIMUM THICKNESS OF 12" AND DEPTH OF 18"

CAUTION!

CONTRACTOR SHALL EXERCISE CAUTION DURING DEMOLITION, EXCAVATION, CLEARING AND CONSTRUCTION ACTIVITIES NEAR OVERHEAD ELECTRIC LINES. CONTRACTOR SHALL COMPLY WITH ALL SAFETY REGULATIONS WHEN OPERATING NEAR POWER LINES.

DIG TESS

CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION ACTIVITY (ON OR OFFSITE) FOR THE PROJECT.

TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR, SUB-CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE, OR STRUCTURAL/GEOTECHNICAL/SAFETY EQUIPMENT CONSULTANT, SHALL REVIEW THESE PLANS AND GEOTECHNICAL REPORT, THE INSTALLATION SITES WITHIN THE PROJECT AREA IN ORDER TO IMPLEMENT CONTRACTORS TRENCH EXCAVATION SAFETY PROTECTION PLAN, SYSTEMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM OSHA STANDARDS, SPECIFICALLY , CONTRACTOR AND/OR RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PLAN IN ACCORDANCE WITH OSHA REGULATIONS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND/OR AROUND THE EXPOSED TRENCH EXCAVATION.

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20 OCTOBER 2026

No.	Date	Revisions
1.	10/20/26	IFB SET

HAYS COUNTY ESD NO. 4

FIRE STATION NO. 42

HCC JOB No.: 013-14

DRAWN BY.: TN

DETENTION POND PLAN

SHEET No.

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OF 25

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Batch Detention Pond Specification Submittal

Preface – The following specifications describe the general function and components of a typical Texas Commission on Environmental Quality (TCEQ) approved batch detention pond. The system operates as an "off-grid" electronically controlled solar powered storm water management unit. This batch detention system uses a water level sensor, solar power panel, logic controller w/ microprocessor, and a plug valve with actuator to meet batch detention standards as set by the TCEQ.

Certification – All of the components described below meet TCEQ's batch detention specifications for a 91% Total Suspended Solid removal rate. See attached logic flow chart for overview of system cycles.

Components:

- Valve – 4" or 6", cast iron, actuated by an electric motor, valve placed in concrete vault when installed below ground, valve placed on concrete pad due to weight
- Actuator – low voltage motor mounted on top of valve, bolted in place to concrete vault ceiling
- Extended bonnet - Cold rolled steel stem extension that connects valve to actuator when valve is used in subgrade applications, stainless steel flanges
- Main board – 24-volt panel that controls all aspects of batch control system
- Batteries – two 12-volt 35 amp/hr. sealed lead acid (SLA) connected in series
- Solar Panel – 24-volt 30-watt. One charge controller regulates solar panel power for batch control system.
- Sensor 1 – float switch – mounted on trash rack that indicates when water present in pond and when pond is empty
- Sensor 2 – position sensor in actuator – determines the orientation of the valve to control positions for start and stop

Controller Programming – All functions of the system are factory programmed which allows the control box, valve, and actuator to received and send commands on their own based on environmental conditions without any human interaction. Manual mode to override switch to open and close valve by flip of a switch and to test all components during inspections. Reset button to reset controller.

Alerts - The main board will illuminate an exterior red light for the following conditions:

- Improper valve function
- Low battery
- Sensor 1 float switch inoperable

Manual Control - In case of electronic inoperability or failed actuator, an effortless clutchless handwheel on the actuator can be turned to open or close valve manually, easy-to-read position indicator displays open/closed valve position

Service Schedule:

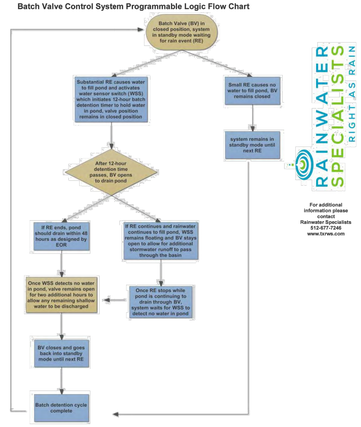
- Batteries – Sealed lead acid batteries can have a design life of anywhere from 3-5 years. Many factors affect service life of the battery, temperature being ones of those factors. Recommended replacement is every 3-5 years. Batteries can be tested annually to determine remaining life expectancy. Battery terminals to be inspected annually.
- Solar Panel(s) - Solar panels last 25-30 years. Annual inspection of the batch detention system should verify the surface of the solar panel is clean, facing south, is secure, and has no debris/trees blocking panel from sun.

Quality Installation - Rainwater Specialists, LLC agrees to perform in a good and workmanlike manner. All work detailed in the detailed scope of work sheet shall guarantee the installation of all products and material according to manufacturer's written instructions and construction industry standards.

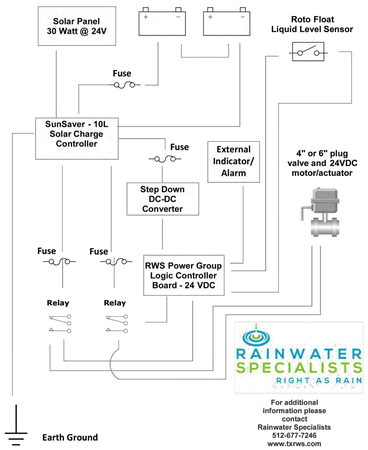
RAINWATER SPECIALISTS
RIGHT AS RAIN

For additional information please contact
Rainwater Specialists
512-677-7246
www.txrws.com

Batch Valve Control System Programmable Logic Flow Chart



Circuit Block Diagram



For additional information please contact
Rainwater Specialists
512-677-7246
www.txrws.com

Rainwater Specialists, LLC
15001 Crosscreek Dr.
Austin, TX 78737
www.rainwaterspecialists.com
512-677-RAIN

Batch Detention Pond Solar Specifications and Performance

System Power Consumption – 6.15 AH/day or ~75 wh/day average @ 8 valve turns maximum/week, sized for 5 days of autonomy

Control Board System – 24VDC PCB with error indication and remote cell output

Valve – 24 VDC @ 9 amps, one turn @ 16 seconds

Solar Panel - Solarland 30 Watt, 24 Volts polycrystalline solar module with junction box. Vmp: 34.4V, Imp: 0.87A, Voc: 43.2V, Isc: 0.96A. 21.3" x 20.08" x 1.18", 8.27 lbs.

Charge controller - SunSaver 10 10 Amp, 24 Volt solar charge controller with LVD 6' x 2.18' x 1.32'

Batteries - Universal Power Group UB12350(Group U1) 12V 35 amph 7.68" x 5.16" x 6.14" 23.15lbs

Valworx — Electric Actuated Butterfly Valves

Ductile Iron Lug Body ASME 150# 2" to 6" Pipe

SERIES 5673

Features

- Direct mount lug butterfly valve with ISO5211 mount
- Epoxy coated ductile iron body with 316 SS disc
- Unique wave line seat reduces torque and extends seal life
- Visual valve position indicator
- Rugged aluminum Type 4X weatherproof actuator
- Heavy duty motors with overload protection
- Thermostatically controlled anti-condensation heater
- Manual override with end of travel mechanical stops
- Two auxiliary position confirmation limit switches
- EPS - Electronic Positioning System models available
- Actuators CSA Listed per UL429 and CSA C22.2



Applications

EPDM seals typically used for on-off control of water and other compatible media. NBR (Buna-N) seals typically used for air, oil, vacuum and other compatible media. FPM (Viton) seals typically used for on-off control of hydrocarbons, oils and other compatible chemicals/media. Suitable for use with ANSI/ASME Class 125/150 pipe flanges. Actuators designed for 70% duty cycle.

Operation

On-Off electric actuated valve uses power-to-open and power-to-close, stays in the last known position with loss of power. On receipt of a continuous voltage signal, the motor runs and via a rugged all metal gear system rotates the ball 90°. The motor is automatically stopped by internal cams striking limit switches. On receipt of a reversing continuous signal, the motor turns in the opposite direction reversing the valve position. Power connections direct to terminal strip via included cable connector, or optional 1/2" NPT conduit adapters.

Construction

Valve Body	Epoxy coated ductile iron
Disc	316 stainless steel CF8M
Disc Seat/Liner	EPDM, NBR (Buna-N) or FPM (Viton)
Stem/Stem Seals	420 stainless steel / (2) o-ring, same material as seat
Gear Drive	Heavy duty alloy steel and aluminum bronze, self locking
Actuator Enclosure	Aluminum, polyester powder painted, Type 4X, IP67
Visual Valve Position Indicator	Clear polycarbonate window, red/yellow open-closed
Fasteners	Stainless Steel
Auxiliary Limit Switches	2 x SPDT (125VAC/5A)

Description

Electric operated direct mount butterfly valves with epoxy- coated ductile iron lug body are designed for commercial and industrial applications. Valve mounts between two standard ANSI/ASME Class 150 flanges and includes integral molded flange gaskets. Disc is precision machined 316SS. Two piece stem and disc design enhances the flow capacity and reduces turbulence. Rugged corrosion resistant electric actuator includes a manual override, valve position confirmation switches, thermostatically controlled anti-condensation heater, and over-torque protection.

Approvals

Actuators

- CSA Listed to:
  - UL429 and CSA C22.2 no 139
  - Type 4X, IP67 weatherproof enclosure
- CE conformance
- ISO5211 Mounting

Valves

- Design complies with API-609, MSS SP-67
- Tests per API-598, AWWA C502-87
- CE according to PED 97/23/EC, ISO9208

Valworx — Electric Actuated Butterfly Valves

Ductile Iron Lug Body ASME 150# Features and P/T Chart

SERIES 5673

Construction Features



Pressure Rating

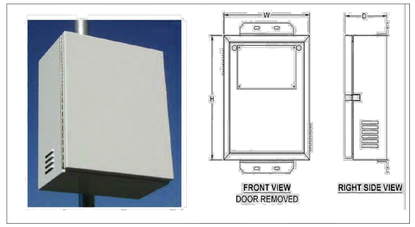
Pressure Rating: 230 PSI (16 Bar), Vacuum 29in Hg

Temperature Rating

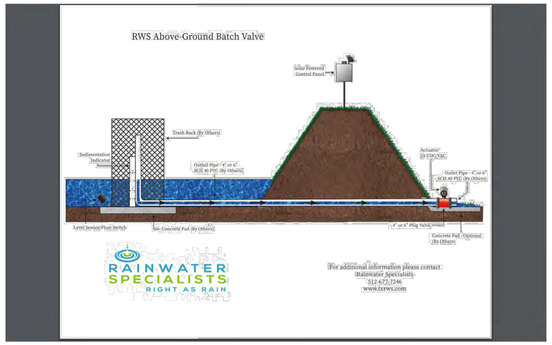
Actuator Temperature Rating: -13 to 131° F (-25 to 55° C)

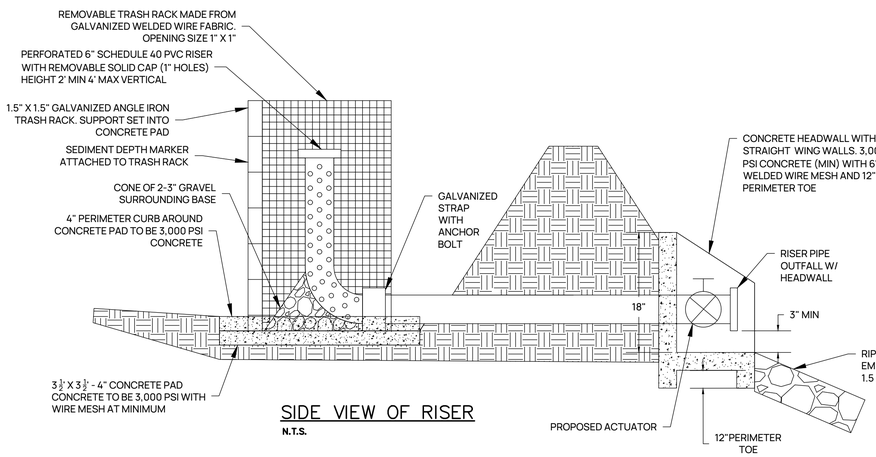
Valve Temperature Rating: EPDM seals 0 to 248° F (-18 to 120°C)
NBR (Buna-N) seals 5 to 185° F (-15 to 85°C)
FPM (Viton) seals 5 to 338° F (-15 to 170°C)

Ground Mount Controller and Battery Enclosure



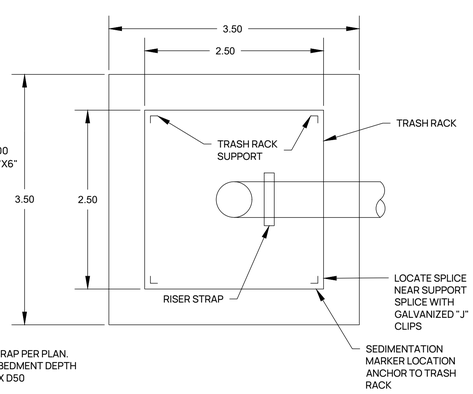
- Standard boxes are fabricated from .125" thick 5052--H32 aluminum
- Heavy--duty stainless steel continuous
- Heavy--duty stainless steel continuous hinge
- Seams are continuously welded and then sanded smooth
- Adjustable tension stainless steel padlock hasp
- Removable component mounting plate
- Standard finish is a bright white polyester powder--coat inside and out
- Two 7/8" diameter wire holes
- Built to NEMA 3R specifications
- Filtered or screened ventilation louvers
- Hinged front door with PORON door gasket
- Supplied with u--bolts (when pole specified)





SIDE VIEW OF RISER

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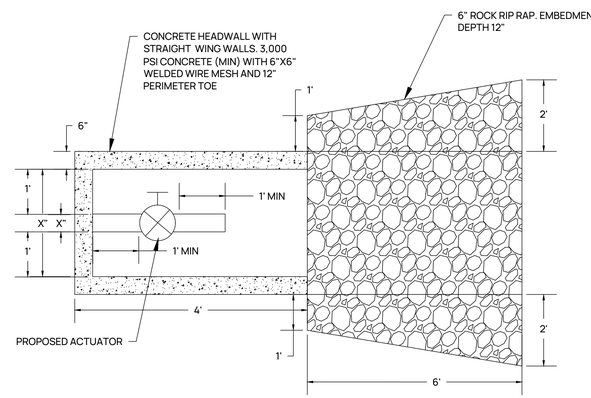


PLAN VIEW OF RISER

N.T.S.

PERFORATED RISER PIPE DETAIL THROUGH BERM

N.T.S.



NOTES

1. ROCK RIP RAP APRON SIZES SHOWN ARE MINIMUM. ADDITIONAL RIP RAP MAY BE INSTALLED IF DESIRED.
2. REFER TO PLANS FOR RIP RAP DIMENSIONS. IF NONE ARE LISTED USE MINIMUMS SHOWN ABOVE.

HEADWALL AND RIP RAP DETAIL

N.T.S.

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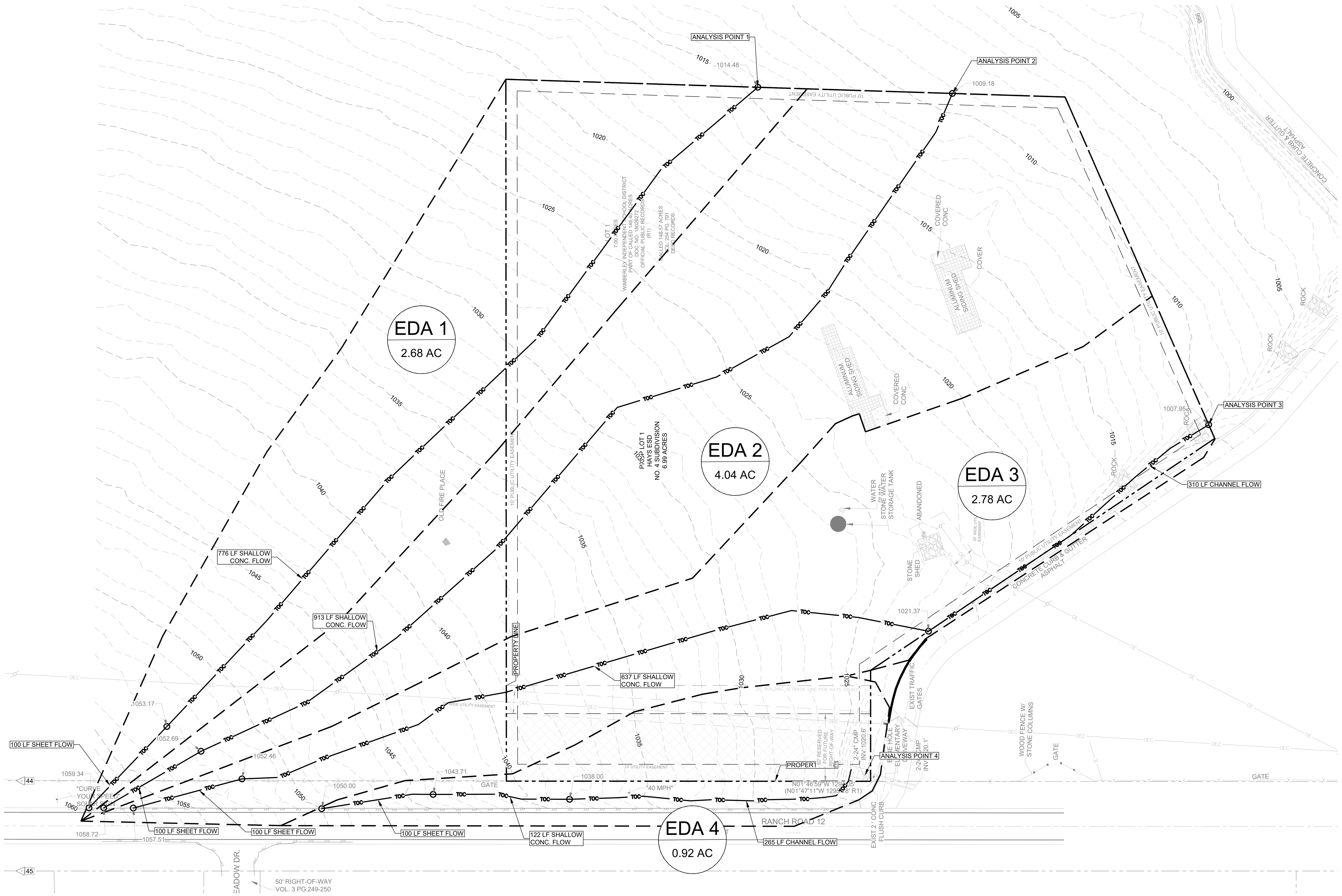
No.	Date	Revisions	App.
1.	10/20/26	IFB SET	

HAYS COUNTY ESD NO. 4
FIRE STATION NO. 42
HCC JOB No.: 013-14 DRAWN BY:: TN

DETENTION POND DETAILS

SHEET No.
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OF 25

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LEGEND

IRF	IRON ROD FOUND (SIZE NOTED)
	CONTROL/CALCULATED POINT
	BENCHMARK
EM	EXIST ELECTRIC METER
	EXIST POWER POLE
	EXIST GUY ANCHOR
	PROPERTY LINE
	ADJOINER LINE
	EXIST BARBED WIRE FENCE
	EXIST WOOD FENCE
OEC	EXIST ELECTRIC COMMUNICATION UTILITY
910	EXIST MAJOR CONTOUR
911	EXIST MINOR CONTOUR
	EXIST SLOPE LABEL
TOC	TIME OF CONCENTRATION
	DRAINAGE AREA BOUNDARY
DA# 0.00 AC	EXIST DRAINAGE AREA

TIME OF CONCENTRATION

Drainage Area Name: EDA 1
Proposed Time of Concentration (min): 11.6
*Minimum Initial T_c (min): 10

Segment	Condition	Length (ft)	Elevation (ft) Start	Elevation (ft) End	Mannings n	Velocity (ft/s)	Wetted Perimeter (ft)	XS Area (sq. ft)	Slope (ft/ft)	Incremental Time of Travel (min)	Cumulative Time of Travel (min)*
1	Sheet	100.0	1059.3	1053.2	0.240	0.209	N/A	N/A	0.0617	7.98	7.98
2	Shall. Conc. (Unpaved)	776.0	1053.2	1014.5		3.602	N/A	N/A	0.0499	3.59	11.57
3	Channel or Sewer	0.0	1014.5	0.0	0.000	0.000	0.00	0.00	0.0000	0.00	11.57

Drainage Area Name: EDA 2
Proposed Time of Concentration (min): 12.4
*Minimum Initial T_c (min): 10

Segment	Condition	Length (ft)	Elevation (ft) Start	Elevation (ft) End	Mannings n	Velocity (ft/s)	Wetted Perimeter (ft)	XS Area (sq. ft)	Slope (ft/ft)	Incremental Time of Travel (min)	Cumulative Time of Travel (min)*
1	Sheet	100.0	1058.7	1052.7	0.240	0.207	N/A	N/A	0.0603	8.05	8.05
2	Shall. Conc. (Unpaved)	913.0	1052.7	1009.2		3.521	N/A	N/A	0.0477	4.32	12.37
3	Channel or Sewer	0.0	1009.2	0.0	0.000	0.000	0.00	0.00	0.0000	0.00	12.37

Drainage Area Name: EDA 3
Proposed Time of Concentration (min): 12.7
*Minimum Initial T_c (min): 10

Segment	Condition	Length (ft)	Elevation (ft) Start	Elevation (ft) End	Mannings n	Velocity (ft/s)	Wetted Perimeter (ft)	XS Area (sq. ft)	Slope (ft/ft)	Incremental Time of Travel (min)	Cumulative Time of Travel (min)*
1	Sheet	100.0	1057.5	1052.5	0.240	0.193	N/A	N/A	0.0505	8.64	8.64
2	Shall. Conc. (Unpaved)	637.0	1052.5	1021.4		3.563	N/A	N/A	0.0488	2.98	11.62
3	Channel or Sewer	310.0	1021.4	1008.0	0.040	4.882	8.00	4.00	0.0433	1.06	12.68

Drainage Area Name: EDA 4
Proposed Time of Concentration (min): 10.0
*Minimum Initial T_c (min): 10

Segment	Condition	Length (ft)	Elevation (ft) Start	Elevation (ft) End	Mannings n	Velocity (ft/s)	Wetted Perimeter (ft)	XS Area (sq. ft)	Slope (ft/ft)	Incremental Time of Travel (min)	Cumulative Time of Travel (min)*
1	Sheet	100.0	1050.0	1043.7	0.240	0.211	N/A	N/A	0.0629	7.91	7.91
2	Shall. Conc. (Unpaved)	122.0	1043.7	1038.0		3.490	N/A	N/A	0.0468	0.58	8.50
3	Channel or Sewer	265.0	1038.0	1020.6	0.040	6.013	8.00	4.00	0.0657	0.73	9.23

COMPOSITE CURVE NUMBER

Drainage Area Name: EDA 1

DESCRIPTION	AREA	CN
Open Space	2.68	80
Paved parking lots, roofs, driveways, etc.	0	98
Total	**2.68**	**80**

Drainage Area Name: EDA 2

DESCRIPTION	AREA	CN
Open Space	3.95	80
Paved parking lots, roofs, driveways, etc.	0.09	98
Total	**4.04**	**80**

Drainage Area Name: EDA 3

DESCRIPTION	AREA	CN
Open Space	2.78	80
Paved parking lots, roofs, driveways, etc.	0	98
Total	**2.78**	**80**

Drainage Area Name: EDA 4

DESCRIPTION	AREA	CN
Open Space	0.92	80
Paved parking lots, roofs, driveways, etc.	0	98
Total	**0.92**	**80**

RUNOFF SUMMARY TABLE

Existing Rainfall Runoff - NRCS Method Calculations

Drainage Area	Contributing Area, A (Ac.)	CN Value	Time of Concentration TC (Min)	Q (CFS) 2 yr	5yr	10 yr	25 yr	50 yr	100 yr
EDA 1	2.68	80	11.6	8.415	12.990	17.660	24.980	31.540	38.970
EDA 2	4.04	80	12.4	12.690	19.580	26.620	37.660	47.540	58.750
EDA 3	2.78	80	12.7	8.729	13.470	18.320	25.910	32.710	40.430
EDA 4	0.92	80	10.0	2.889	4.458	6.061	8.575	10.830	13.380

CAUTION!

CONTRACTOR SHALL EXERCISE CAUTION DURING DEMOLITION, EXCAVATION, CLEARING AND CONSTRUCTION ACTIVITIES NEAR OVERHEAD ELECTRIC LINES. CONTRACTOR SHALL COMPLY WITH ALL SAFETY REGULATIONS WHEN OPERATING NEAR POWER LINES.

DIG TESS

CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION ACTIVITY (ON OR OFFSITE) FOR THE PROJECT.

TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR, SUB-CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE, OR STRUCTURAL/GEOTECHNICAL/SAFETY EQUIPMENT CONSULTANT, SHALL REVIEW THESE PLANS AND GEOTECHNICAL REPORT, THE INSTALLATION SITES WITHIN THE PROJECT AREA IN ORDER TO IMPLEMENT CONTRACTORS TRENCH EXCAVATION SAFETY PROTECTION PLAN, SYSTEMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM OSHA STANDARDS, SPECIFICALLY , CONTRACTOR AND/OR RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PLAN IN ACCORDANCE WITH OSHA REGULATIONS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND/OR AROUND THE EXPOSED TRENCH EXCAVATION.

Hill Country Civil
Engineers • Consultants
Texas Firm License No. F-22872
391 Landa Street, Ste. 1204, New Braunfels, TX 78130
Phone: 817-659-9078 or 210-378-4953
www.hillcountrycivil.com

ROSS T. CORDER
125401
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS
20 OCTOBER 2026

No.	Date	Revisions	App.
1.	10/20/26	IFB SET	

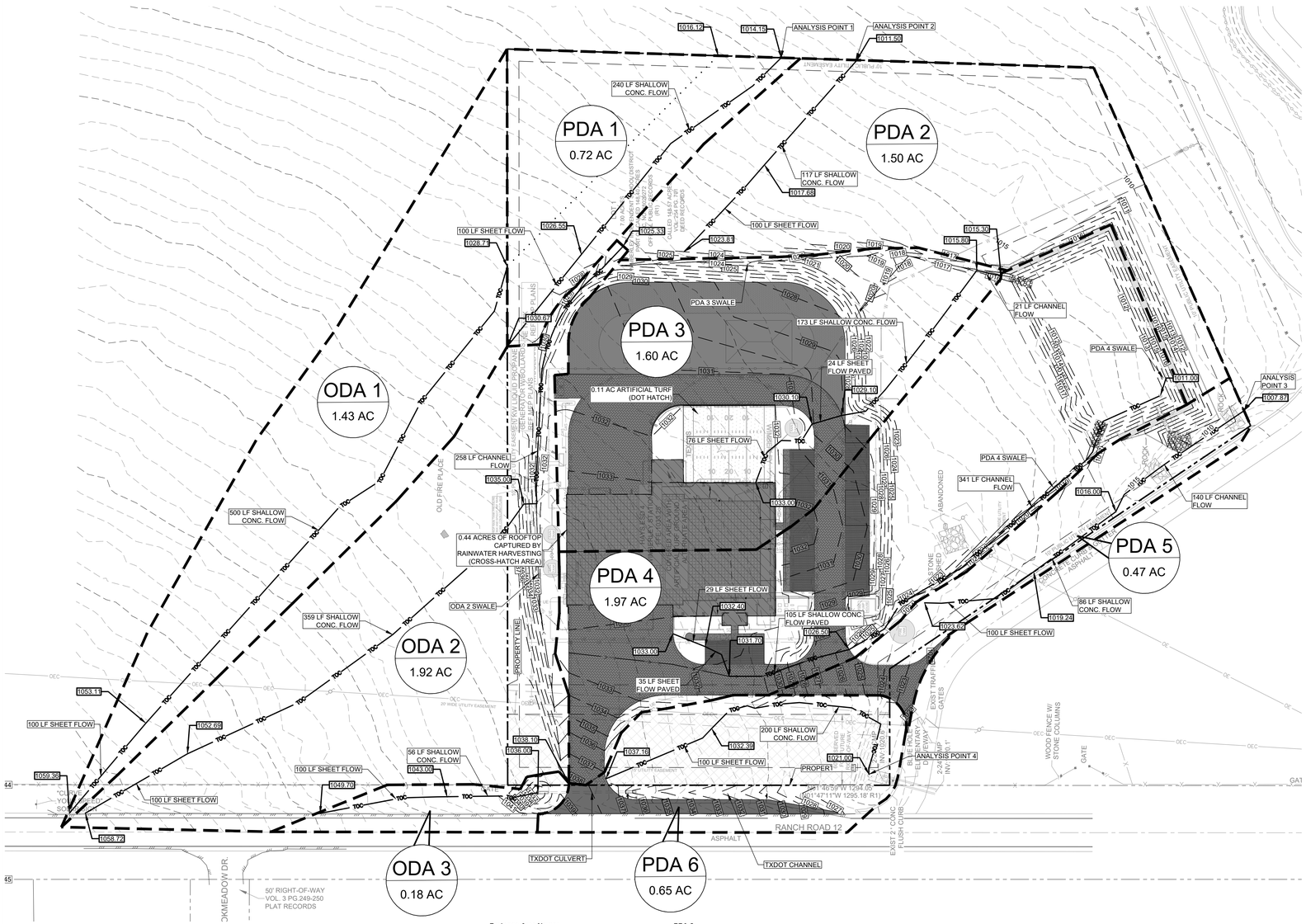
HAYS COUNTY ESD NO. 4
FIRE STATION NO. 42
HCC JOB No.: 013-14
DRAWN BY.: TN

EXISTING DRAINAGE AREA MAP

SHEET No.
13
OF 25

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0 25 50 100
SCALE (FEET)

LEGEND

- IRF — IRON ROD FOUND (SIZE NOTED)
- CONTROL/CALCULATED POINT
- BENCHMARK
- EXIST ELECTRIC METER
- EXIST POWER POLE
- EXIST GUY ANCHOR
- PROPERTY LINE
- ADJOINER LINE
- EXIST BARBED WIRE FENCE
- EXIST WOOD FENCE
- EXIST ELECTRIC COMMUNICATION UTILITY
- EXIST MAJOR CONTOUR
- EXIST MINOR CONTOUR
- PROP WATER LINE
- PROP SLOPE LABEL
- TOC — TIME OF CONCENTRATION
- DRAINAGE AREA BOUNDARY
- PROP IMPERVIOUS COVER
- DA# / 0.00 AC — PROP DRAINAGE AREA

DRAINAGE NOTES

DRAINAGE FOR THIS DEVELOPMENT HAS BEEN DESIGNED SUCH THAT THERE WILL BE NO ADVERSE IMPACTS ON THE CAPACITY, FUNCTION OR INTEGRITY OF TEXAS DEPARTMENT OF TRANSPORTATION RIGHT OF WAY DRAINAGE FACILITIES

TXDOT DRAINAGE NOTES & ASSUMPTIONS (ODA 3 AND PDA 6)

THERE IS A COMMERCIAL DRIVEWAY ACCESS PROPOSED WITH THIS DEVELOPMENT. THE PROPOSED DRIVEWAY HAS AN 18-INCH RCP CULVERT THAT DRAINS WATER FROM NORTH TO SOUTH. THE PROPOSED DRIVEWAY IS 30 FEET WIDE WITH A RIGHT TURN LANE AND TAPER. THE DRAINAGE AREA TO THE CULVERT CAN BE SEEN ON THE PROPOSED DRAINAGE AREA MAP (ODA 3 AND PDA 6). THE CULVERT WAS ANALYZED FOR THE 5-, 10-, AND 100-YEAR STORM EVENTS. THE CULVERT IS SIZED FOR THE 10-YEAR EVENT. THE 100-YEAR EVENT WAS ANALYZED TO SHOW THAT THE HEADWATER DOES NOT IMPACT RR12 OR ADJACENT PROPERTIES. REFER TO THE TXDOT CULVERT HY-8 CALCULATIONS IN THE DRAINAGE REPORT FOR THIS DEVELOPMENT.

1. MAXIMUM ALLOWABLE HEADWATER: 1.5' (ELEVATION 1037.50'). THIS IS GREATER THAN THE HEADWATER ELEVATION OF THE 100-YR STORM EVENT
2. NRCS CURVE NUMBER METHOD USED TO CALCULATE THE PEAK RUNOFF TO THE PROPOSED CULVERT.
   - 2.1. CURVE NUMBER FOR PERVIOUS AREA WAS ASSUMED AS OPEN SPACE (CN: 80)
   - 2.2. CURVE NUMBER FOR IMPERVIOUS AREA WAS ASSUMED AS STREETS (CN: 98)
3. TIME OF CONCENTRATION WAS CALCULATED USING TR-55 METHODOLOGY.
4. RAINFALL INTENSITIES WERE DERIVED FROM ATLAS 14.
5. SOIL DATA WAS DERIVED FROM USDA WEB SOIL SURVEY.

TIME OF CONCENTRATION

Drainage Area Name: ODA 1
Proposed Time of Concentration (min): 10.3

*Minimum Initial T_c (min): 10

Segment	Condition	Length (ft)	Elevation (ft) Start	Elevation (ft) End	Mannings n	Velocity (ft/s)	Wetted Perimeter (ft)	XS Area (sq. ft.)	Slope (ft/ft)	Incremental Time of Travel (min)	Cumulative Time of Travel (min)*
1	Sheet	100.0	1059.4	1053.1	0.240	0.210	N/A	N/A	0.0525	7.93	7.93
2	Shall. Conc. (Unpaved)	500.0	1053.1	1028.7		3.563	N/A	N/A	0.0488	2.34	10.27
3	Channel or Sewer	0.0	1028.7	0.0	0.000	0.000	0.00	0.00	0.0000	0.00	10.27

Drainage Area Name: ODA 2
Proposed Time of Concentration (min): 10.7

*Minimum Initial T_c (min): 10

Segment	Condition	Length (ft)	Elevation (ft) Start	Elevation (ft) End	Mannings n	Velocity (ft/s)	Wetted Perimeter (ft)	XS Area (sq. ft.)	Slope (ft/ft)	Incremental Time of Travel (min)	Cumulative Time of Travel (min)*
1	Sheet	100.0	1056.7	1052.7	0.240	0.207	N/A	N/A	0.0603	8.05	8.05
2	Shall. Conc. (Unpaved)	359.0	1052.7	1035.0		3.581	N/A	N/A	0.0493	1.67	9.72
3	Channel or Sewer	258.0	1035.0	1025.3	0.040	4.543	8.00	4.00	0.0375	0.95	10.67

Drainage Area Name: ODA 3
Proposed Time of Concentration (min): 10.0

*Minimum Initial T_c (min): 10

Segment	Condition	Length (ft)	Elevation (ft) Start	Elevation (ft) End	Mannings n	Velocity (ft/s)	Wetted Perimeter (ft)	XS Area (sq. ft.)	Slope (ft/ft)	Incremental Time of Travel (min)	Cumulative Time of Travel (min)*
1	Sheet	100.0	1049.7	1043.0	0.240	0.216	N/A	N/A	0.0670	7.72	7.72
2	Shall. Conc. (Unpaved)	56.0	1043.0	1036.0		5.703	N/A	N/A	0.1250	0.16	7.88
3	Channel or Sewer	0.0	1036.0	0.0	0.000	0.000	0.00	0.00	0.0000	0.00	7.88

Drainage Area Name: PDA 1
Proposed Time of Concentration (min): 10.5

*Minimum Initial T_c (min): 10

Segment	Condition	Length (ft)	Elevation (ft) Start	Elevation (ft) End	Mannings n	Velocity (ft/s)	Wetted Perimeter (ft)	XS Area (sq. ft.)	Slope (ft/ft)	Incremental Time of Travel (min)	Cumulative Time of Travel (min)*
1	Sheet	100.0	1030.7	1026.6	0.240	0.178	N/A	N/A	0.0412	9.37	9.37
2	Shall. Conc. (Unpaved)	240.0	1028.6	1014.2		3.666	N/A	N/A	0.0517	1.09	10.46
3	Channel or Sewer	0.0	1014.2	0.0	0.000	0.000	0.00	0.00	0.0000	0.00	10.46

Drainage Area Name: PDA 2
Proposed Time of Concentration (min): 10.0

*Minimum Initial T_c (min): 10

Segment	Condition	Length (ft)	Elevation (ft) Start	Elevation (ft) End	Mannings n	Velocity (ft/s)	Wetted Perimeter (ft)	XS Area (sq. ft.)	Slope (ft/ft)	Incremental Time of Travel (min)	Cumulative Time of Travel (min)*
1	Sheet	100.0	1022.8	1017.7	0.240	0.208	N/A	N/A	0.0613	8.00	8.00
2	Shall. Conc. (Unpaved)	117.0	1017.7	1011.5		3.707	N/A	N/A	0.0528	0.53	8.52
3	Channel or Sewer	0.0	1011.5	0.0	0.000	0.000	0.00	0.00	0.0000	0.00	8.52

Drainage Area Name: PDA 3
Proposed Time of Concentration (min): 10.0

*Minimum Initial T_c (min): 10

Segment	Condition	Length (ft)	Elevation (ft) Start	Elevation (ft) End	Mannings n	Velocity (ft/s)	Wetted Perimeter (ft)	XS Area (sq. ft.)	Slope (ft/ft)	Incremental Time of Travel (min)	Cumulative Time of Travel (min)*
1	Sheet	76.0	1033.0	1030.1	0.240	0.163	N/A	N/A	0.0382	7.76	7.76
2	Sheet Paved	24.0	1030.1	1029.1	0.011	1.581	N/A	N/A	0.0417	0.25	8.01
3	Shall. Conc. (Unpaved)	173.0	1029.1	1015.8		4.472	N/A	N/A	0.0769	0.64	8.66
4	Channel or Sewer	21.0	1015.8	1015.3	0.040	3.621	8.00	4.00	0.0238	0.10	8.75

Drainage Area Name: PDA 4
Proposed Time of Concentration (min): 10.0

*Minimum Initial T_c (min): 10

Segment	Condition	Length (ft)	Elevation (ft) Start	Elevation (ft) End	Mannings n	Velocity (ft/s)	Wetted Perimeter (ft)	XS Area (sq. ft.)	Slope (ft/ft)	Incremental Time of Travel (min)	Cumulative Time of Travel (min)*
1	Sheet	29.0	1033.0	1032.4	0.410	0.069	N/A	N/A	0.0207	7.04	7.04
2	Sheet Paved	35.0	1032.4	1031.7	0.011	1.271	N/A	N/A	0.0200	0.46	7.50
3	Shall. Conc. (Paved)	105.0	1031.7	1026.5		4.523	N/A	N/A	0.0495	0.39	7.89
4	Channel or Sewer	341.0	1026.5	1011.0	0.040	5.003	8.00	4.00	0.0455	1.14	9.02

Drainage Area Name: PDA 5
Proposed Time of Concentration (min): 10.0

*Minimum Initial T_c (min): 10

Segment	Condition	Length (ft)	Elevation (ft) Start	Elevation (ft) End	Mannings n	Velocity (ft/s)	Wetted Perimeter (ft)	XS Area (sq. ft.)	Slope (ft/ft)	Incremental Time of Travel (min)	Cumulative Time of Travel (min)*
1	Sheet	100.0	1023.6	1019.2	0.240	0.182	N/A	N/A	0.0438	9.15	9.15
2	Shall. Conc. (Unpaved)	86.0	1019.2	1016.0		3.131	N/A	N/A	0.0377	0.46	9.60
3	Channel or Sewer	140.0	1016.0	1007.9	0.040	5.655	8.00	4.00	0.0581	0.41	10.02

Drainage Area Name: PDA 6
Proposed Time of Concentration (min): 10.0

*Minimum Initial T_c (min): 10

Segment	Condition	Length (ft)	Elevation (ft) Start	Elevation (ft) End	Mannings n	Velocity (ft/s)	Wetted Perimeter (ft)	XS Area (sq. ft.)	Slope (ft/ft)	Incremental Time of Travel (min)	Cumulative Time of Travel (min)*
1	Sheet	100.0	1037.2	1032.4	0.240	0.189	N/A	N/A	0.0477	8.84	8.84
2	Shall. Conc. (Unpaved)	200.0	1032.4	1021.0		3.849	N/A	N/A	0.0570	0.87	9.71
3	Channel or Sewer	0.0	1021.0	0.0	0.000	0.000	0.00	0.00	0.0000	0.00	9.71

COMPOSITE CURVE NUMBER

Drainage Area Name: ODA 1

DESCRIPTION	AREA	CN
Open Space	1.43	80
Paved parking lots, roofs, driveways, etc.	0	98
Total	1.43	80

Drainage Area Name: ODA 2

DESCRIPTION	AREA	CN
Open Space	1.92	80
Paved parking lots, roofs, driveways, etc.	0	98
Total	1.92	80

Drainage Area Name: ODA 3

DESCRIPTION	AREA	CN
Open Space	0.18	80
Paved parking lots, roofs, driveways, etc.	0	98
Total	0.18	80

Drainage Area Name: PDA 1

DESCRIPTION	AREA	CN
Open Space	0.72	80
Paved parking lots, roofs, driveways, etc.	0	98
Total	0.72	80

Drainage Area Name: PDA 2

DESCRIPTION	AREA	CN
Open Space	1.5	80
Paved parking lots, roofs, driveways, etc.	0	98
Total	1.5	80

Drainage Area Name: PDA 3

DESCRIPTION	AREA	CN
Open Space	0.63	80
Paved parking lots, roofs, driveways, etc.	0.97	98
Total	1.6	91

Drainage Area Name: PDA 4

DESCRIPTION	AREA	CN
Open Space	1.27	80
Paved parking lots, roofs, driveways, etc.	0.7	98
Total	1.97	86

Drainage Area Name: PDA 5

DESCRIPTION	AREA	CN
Open Space	0.4	80
Paved parking lots, roofs, driveways, etc.	0.07	98
Total	0.47	83

Drainage Area Name: PDA 6

DESCRIPTION	AREA	CN
Open Space	0.58	80
Paved parking lots, roofs, driveways, etc.	0.07	98
Total	0.65	82

RUNOFF SUMMARY TABLE

Proposed Rainfall Runoff - NRCS Method Calculations

Drainage Area	Contributing Area, A (Ac.)	CN Value	Time of Concentration TC (Min)	Q (CFS) 2 yr	5yr	10 yr	25 yr	50 yr	100 yr
ODA 1	1.43	80	10.3	4.490	6.929	9.421	13.330	16.830	20.800
ODA 2	1.92	80	10.7	6.029	9.303	12.650	17.900	22.590	27.920
ODA 3	0.18	80	10.0	0.565	0.872	1.186	1.678	2.118	2.618
PDA 1	0.72	80	10.5	2.261	3.489	4.744	6.711	8.473	10.470
PDA 2	1.50	80	10.0	4.710	7.268	9.883	13.980	17.650	21.810
PDA 3	1.60	91	10.0	7.060	9.844	12.600	16.860	20.660	24.970
PDA 4	1.97	86	10.0	7.588	11.040	14.490	19.830	24.580	29.970
PDA 5	0.47	83	10.0	1.643	2.460	3.284	4.566	5.709	7.004
PDA 6	0.65	82	10.0	2.195	3.319	4.457	6.232	7.817	9.613

Rainfall Runoff - Summary

Analysis Point	Flow (cfs) 2 yr	5 yr	10 yr	25 yr	50 yr	100 yr
EX AP1	8.415	12.990	17.660	24.980	31.540	38.970
PROP AP1	6.751	10.420	14.170	20.040	25.300	31.270
EX AP2	12.690	19.580	26.620	37.660	47.540	58.750
PROP AP2	10.740	16.570	22.530	31.880	40.250	49.740
EX AP3	8.729	13.470	18.320	25.910	32.710	40.430
PROP AP3	3.361	8.281	13.650	22.470	30.270	38.920
EX AP4	2.889	4.458	6.061	8.575	10.830	13.380
PROP AP4	2.761	4.191	5.643	7.910	9.935	12.230

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ROSS T. CORDER — STATE OF TEXAS — 135401 — LICENSED PROFESSIONAL ENGINEER

20 OCTOBER 2026

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HAYS COUNTY ESD NO. 4
FIRE STATION NO. 42
HCC JOB No.: 013-14
DRAWN BY: TN

PROPOSED DRAINAGE AREA MAP

SHEET No.
14
OF 25

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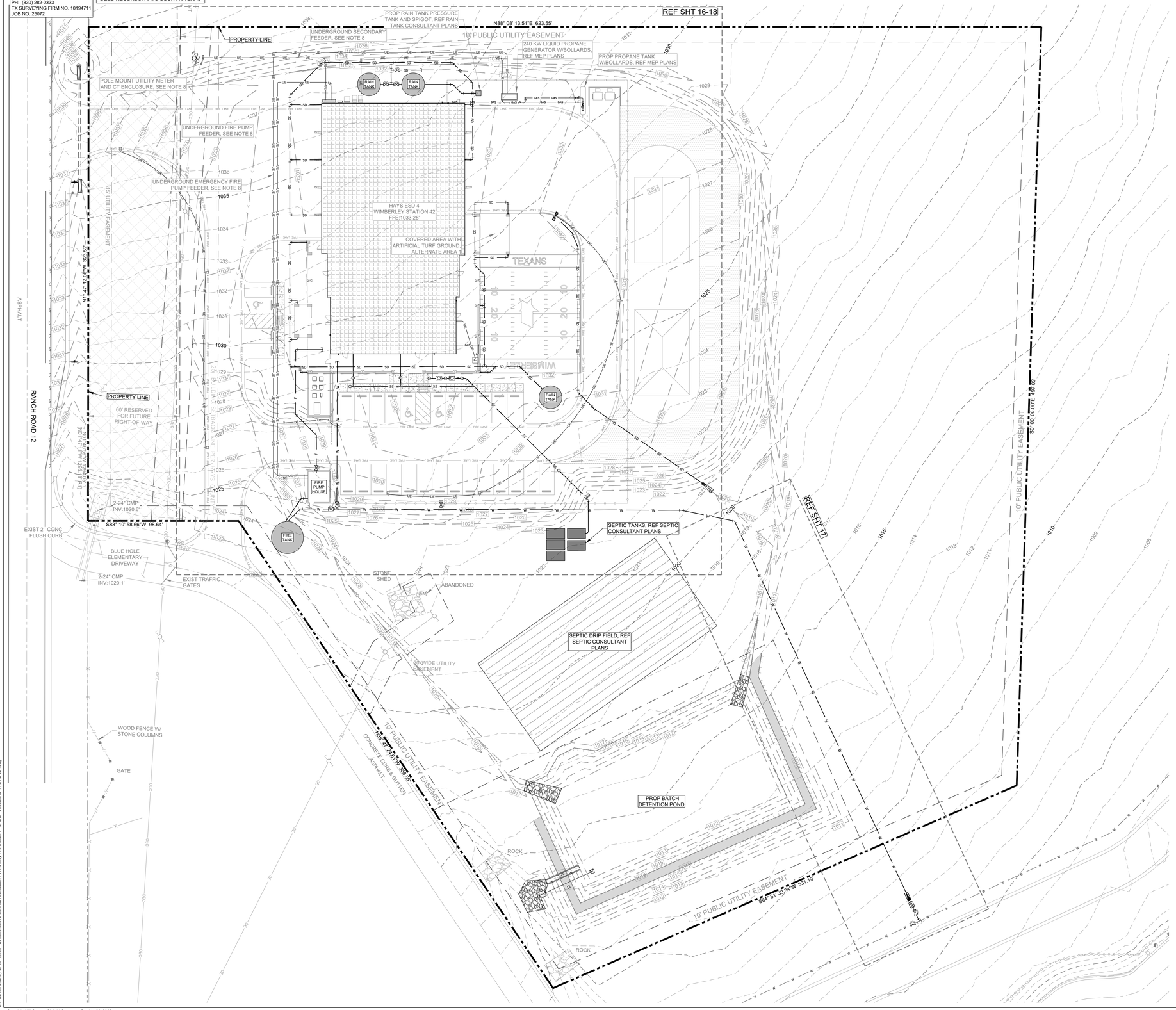
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SURVEY NOTE

SURVEY PREPARED BY:
DILLO DEV ON JUNE 12, 2025
SETH REICHENAU, RPLS
967 BROADWAY
NEW BRAUNFELS , TX 78130
PH: (830) 282-0333
TX SURVEYING FIRM NO. 10194711
JOB NO. 25072

TOPOGRAPHIC SURVEY

0.227 ACRES
BEING A PART OF LOT 10,
CHARLES & OLLIE OLDHAM SUBDIVISION,
VOLUME 142, PAGE 424
DEED RECORDS, HAYS COUNTY, TEXAS



0 15 30 60
SCALE (FEET)

LEGEND

- IRON ROD FOUND (SIZE NOTED) — IRF
- CONTROL/CALCULATED POINT
- BENCHMARK
- EXIST ELECTRIC METER
- EXIST POWER POLE
- EXIST GUY ANCHOR
- PROPERTY LINE
- ADJOINER LINE
- EXIST EDGE OF PAVEMENT
- EXIST BARBED WIRE FENCE
- EXIST WOOD FENCE
- EXIST WATER LINE — W
- EXIST OVERHEAD ELECTRIC — OE
- EXIST OVERHEAD ELECTRIC/COMMUNICATION — OEC
- EXIST MAJOR CONTOUR — 910
- EXIST MINOR CONTOUR — 911
- EXIST CONCRETE
- EXIST STONE/ROCK
- EXIST BUILDING
- PROP MAJOR CONTOUR — 1028
- PROP MINOR CONTOUR — 1024
- PROP FIRE LANE — FIRE LANE
- PROP WHEELSTOP
- PROP BUILDING
- PROP TOP OF BERM
- STORM DRAIN LINE — SD
- PROP WATER LINE — W
- PROP FIRE LINE — F
- PROP WASTEWATER LINE — WW

UTILITY NOTES

1. REFERENCE GENERAL NOTES SHEET FOR AQUA WATER SUPPLY CORPORATION NOTES.
2. CONTRACTOR SHALL VERIFY LOCATION, BOTH HORIZONTAL AND VERTICAL, FOR ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION; INCLUDING BUT NOT LIMITED TO, GAS, ELECTRIC, TV, PHONE,FIBER, WATER, AND SEWER.
3. ALL WATER LINES (PLASTIC PIPE) SHALL BE PVC SCH 40 (ASTM D1785) SCH 80 (ASTM D1785). FIRE LINES OR WATER MAINS SHALL BE PVC C-909 OR APPROVED EQUAL.
4. ALL WASTEWATER (SEPTIC) LINES SHALL BE PVC SDR-26 UNLESS OTHERWISE NOTED.
5. WHERE WATER AND WASTEWATER (SEPTIC) LINES ARE CLOSER THAN 9' SEPARATION DISTANCE AS MEASURED FROM OUTSIDE DIAMETER TO OUTSIDE DIAMETER, THE INSTALLATION OF WASTEWATER LINES SHALL BE IN ACCORDANCE WITH WITH TCEQ REGULATIONS. WASTEWATER LINES SHALL BE CONSTRUCTED OF PVC PIPE MEETING 150 PSI PRESSURE RATING FOR PIPES AND JOINTS AND IN ACCORDANCE WITH 30 TAC, SECTION 217.53 (D) (3) (I). WHERE THE NINE-FOOT SEPARATION DISTANCE CANNOT BE ACHIEVED, THE POTABLE WATERLINE SHALL BE ENCASED IN A JOINT OF AT LEAST 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-FOOT INTERVALS WITH SPACERS OR BE FILLED TO THE SPRINGLINE WITH WASHED SAND. THE ENCASEMENT PIPE SHALL BE CENTERED ON THE CROSSING AND BOTH ENDS SEALED WITH CEMENT GROUT OR MANUFACTURED SEALANT.
6. WHERE A NEW POTABLE WATERLINE CROSSES A NEW, PRESSURE RATED WASTEWATER MAIN OR LATERAL, ONE SEGMENT OF THE WATERLINE PIPE SHALL BE CENTERED OVER AND SHALL BE PERPENDICULAR TO THE WASTEWATER LINE SUCH THAT THE JOINTS OF THE WATERLINE PIPE ARE EQUIDISTANT AND AT LEAST NINE FEET HORIZONTALLY FROM THE CENTER LINE OF THE WASTEWATER MAIN OR LATERAL. THE POTABLE WATERLINE SHALL BE AT LEAST SIX INCHES ABOVE THE WASTEWATER MAIN OR LATERAL. WHENEVER POSSIBLE, THE CROSSING SHALL BE CENTERED BETWEEN THE JOINTS OF THE WASTEWATER MAIN OR LATERAL. THE WASTEWATER PIPE SHALL HAVE A MINIMUM PRESSURE RATING OF AT LEAST 150 PSI. THE WASTEWATER MAIN OR LATERAL SHALL BE EMBEDDED IN CEMENT STABILIZED SAND (SEE CLAUSE (V) OF THIS SUBPARAGRAPH) FOR THE TOTAL LENGTH OF ONE PIPE SEGMENT PLUS 12 INCHES BEYOND THE JOINT ON EACH END.
7. ELECTRIC LAYOUT IS SHOWN FOR REFERENCE AND COORDINATION PURPOSES ONLY. FOR DETAILED ELECTRICAL DESIGN INFORMATION.
8. CONTRACTOR SHALL FOLLOW PEC UNDERGROUND INSTALLATION SPECIFICATIONS.
9. CONNECT DOWNSPOUTS (DS) TO 4" SCH 80 PVC, 90° BEND, OR REF ARCH DWGS

CAUTION!

CONTRACTOR SHALL EXERCISE CAUTION DURING DEMOLITION, EXCAVATION, CLEARING AND CONSTRUCTION ACTIVITIES NEAR OVERHEAD ELECTRIC LINES. CONTRACTOR SHALL COMPLY WITH ALL SAFETY REGULATIONS WHEN OPERATING NEAR POWER LINES.

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STATE OF TEXAS
ROSS T CORDER
104011
LICENSED
PROFESSIONAL ENGINEER

20 OCTOBER 2026

No.	Date	Revisions
1.	10/20/26	IFB SET

HAYS COUNTY ESD NO. 4
FIRE STATION NO. 42
HCC JOB No.: 013-14
DRAWN BY:.. TN

OVERALL UTILITY CONNECTION PLAN

SHEET No.
15
OF 25

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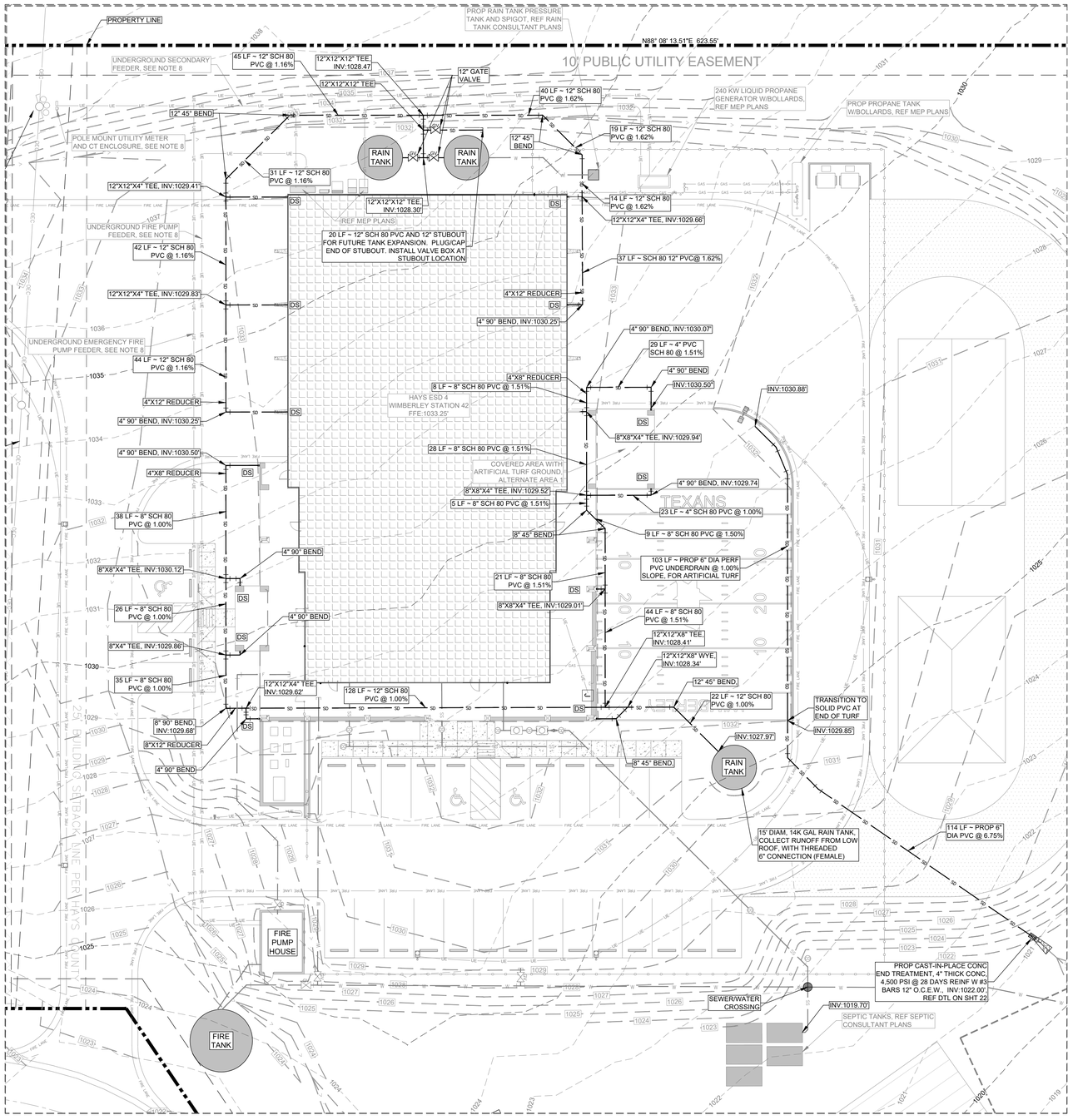
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SURVEY PREPARED BY:
DILLO DEV ON JUNE 12, 2025
SETH REICHENAU, RPLS
967 BROADWAY
NEW BRAUNFELS , TX 78130
PH: (830) 282-0333
TX SURVEYING FIRM NO. 10194711
JOB NO. 25072

TOPOGRAPHIC SURVEY

0.227 ACRES
BEING A PART OF LOT 10,
CHARLES & OLLIE OLDHAM SUBDIVISION,
VOLUME 142, PAGE 424
DEED RECORDS, HAYS COUNTY, TEXAS



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- EXIST OVERHEAD ELECTRIC/COMMUNICATION
- EXIST MAJOR CONTOUR
- EXIST MINOR CONTOUR
- EXIST CONCRETE
- EXIST STONE/ROCK
- EXIST BUILDING
- PROP MAJOR CONTOUR
- PROP MINOR CONTOUR
- PROP FIRE LANE
- PROP WHEELSTOP
- PROP BUILDING
- PROP TOP OF BERM
- STORM DRAIN LINE
- PROP WATER LINE
- PROP FIRE LINE
- PROP WASTEWATER LINE

UTILITY NOTES

1. REFERENCE GENERAL NOTES SHEET FOR AQUA WATER SUPPLY CORPORATION NOTES.
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8. CONTRACTOR SHALL FOLLOW PEC UNDERGROUND INSTALLATION SPECIFICATIONS.
9. CONNECT DOWNSPOUTS (DS) TO 4" SCH 80 PVC, 90° BEND, OR REF ARCH DWGS.
10. RAINWATER/FIRE TANKS TO BE INSTALLED BY CONTRACTOR.

TANKS ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR TO REFER TO RAINWATER TANK CONSULTANT PLANS FOR ALL RAINWATER AND FIRE TANK STORAGE. ADDITIONALLY, ANY CONTROLS, PUMPS AND APPURTENANCES FOR SYSTEM TO BE SPECIFIED BY RAINWATER COLLECTION SYSTEM CONSULTANT PLANS.

CAUTION!

CONTRACTOR SHALL EXERCISE CAUTION DURING DEMOLITION, EXCAVATION, CLEARING AND CONSTRUCTION ACTIVITIES NEAR OVERHEAD ELECTRIC LINES. CONTRACTOR SHALL COMPLY WITH ALL SAFETY REGULATIONS WHEN OPERATING NEAR POWER LINES.

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PROFESSIONAL ENGINEER
20 OCTOBER 2026

No.	Date	Revisions
1.	10/20/26	IFB SET

HAYS COUNTY ESD NO. 4
FIRE STATION NO. 42
HCC JOB No.: 013-14 DRAWN BY:: TN

STORM DRAIN CONNECTION INSET

SHEET No.
16
OF 25

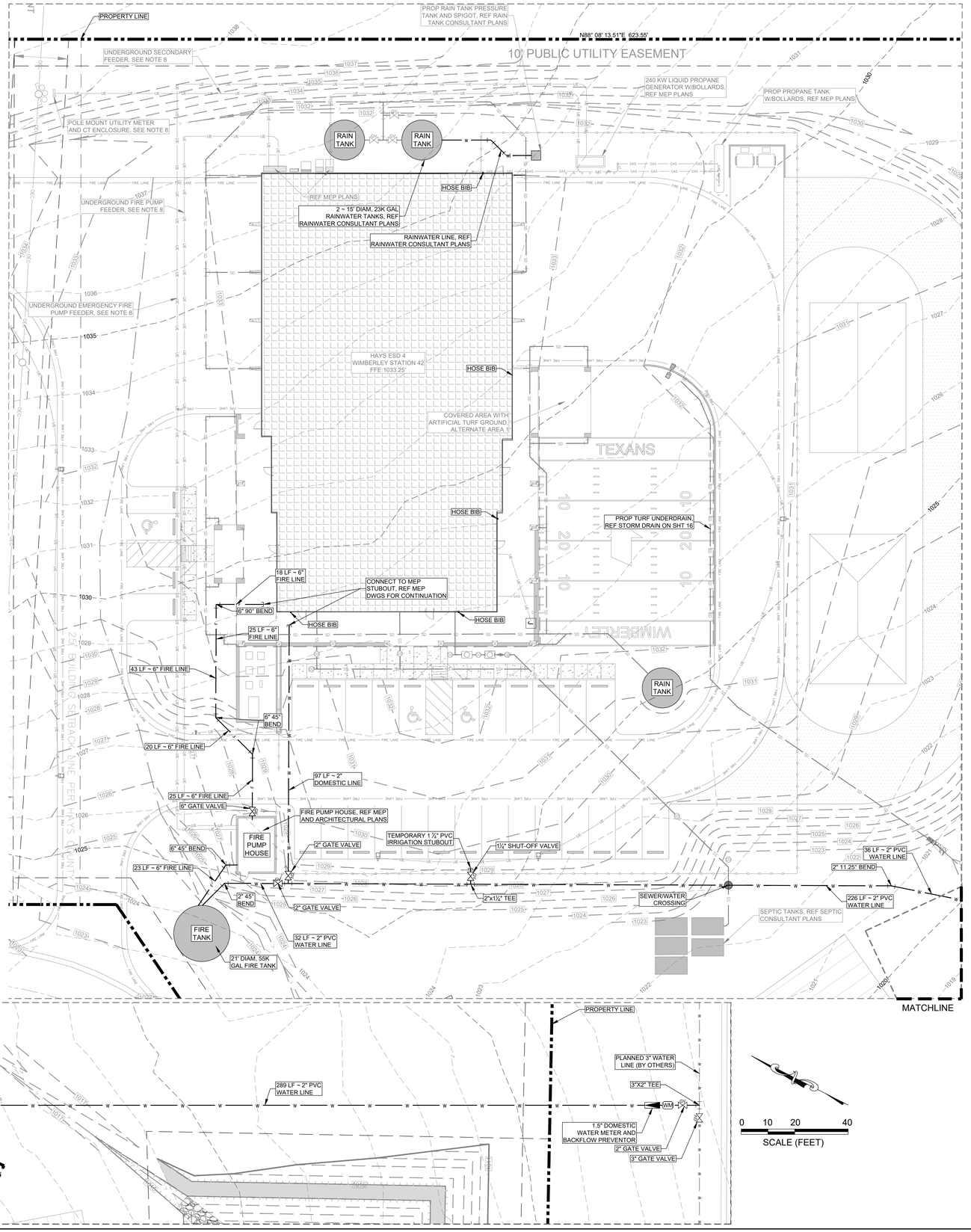
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SURVEY NOTE

SURVEY PREPARED BY:
DILLO DEV ON JUNE 12, 2025
SETH REICHENAU, RPLS
967 BROADWAY
NEW BRAUNFELS , TX 78130
PH: (830) 282-0333
TX SURVEYING FIRM NO. 10194711
JOB NO. 25072

TOPOGRAPHIC SURVEY

0.227 ACRES
BEING A PART OF LOT 10,
CHARLES & OLLIE OLDHAM SUBDIVISION,
VOLUME 142, PAGE 424
DEED RECORDS, HAYS COUNTY, TEXAS



LEGEND

- IRON ROD FOUND (SIZE NOTED) — IRF
- CONTROL/CALCULATED POINT
- BENCHMARK
- EXIST ELECTRIC METER
- EXIST POWER POLE
- EXIST GUY ANCHOR
- PROPERTY LINE
- ADJOINER LINE
- EXIST EDGE OF PAVEMENT
- EXIST BARBED WIRE FENCE
- EXIST WOOD FENCE
- EXIST WATER LINE — W
- EXIST OVERHEAD ELECTRIC — OE
- EXIST OVERHEAD ELECTRIC/COMMUNICATION — OEC
- EXIST MAJOR CONTOUR — 910
- EXIST MINOR CONTOUR — 911
- EXIST CONCRETE
- EXIST STONE/ROCK
- EXIST BUILDING
- PROP MAJOR CONTOUR — 1025
- PROP MINOR CONTOUR — 1024
- PROP FIRE LANE — FIRE LANE
- PROP WHEELSTOP
- PROP BUILDING
- PROP TOP OF BERM
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- PROP FIRE LINE — F
- PROP WASTEWATER LINE — WW

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STATE OF TEXAS
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104011
LICENSED
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20 OCTOBER 2026

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HAYS COUNTY ESD NO. 4
FIRE STATION NO. 42
HCC JOB No.: 013-14
DRAWN BY: TN

WATER CONNECTION INSET

SHEET No.
17
OF 25

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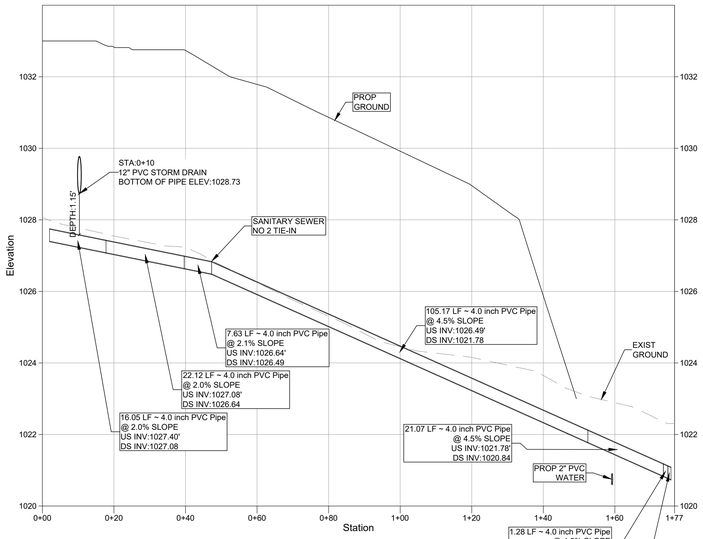
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SURVEY PREPARED BY:
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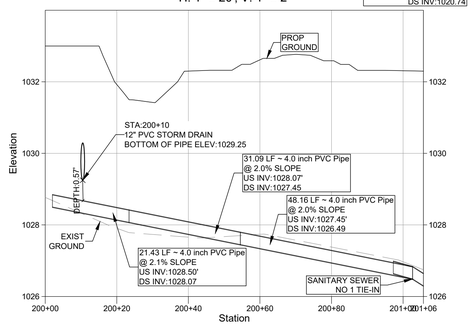
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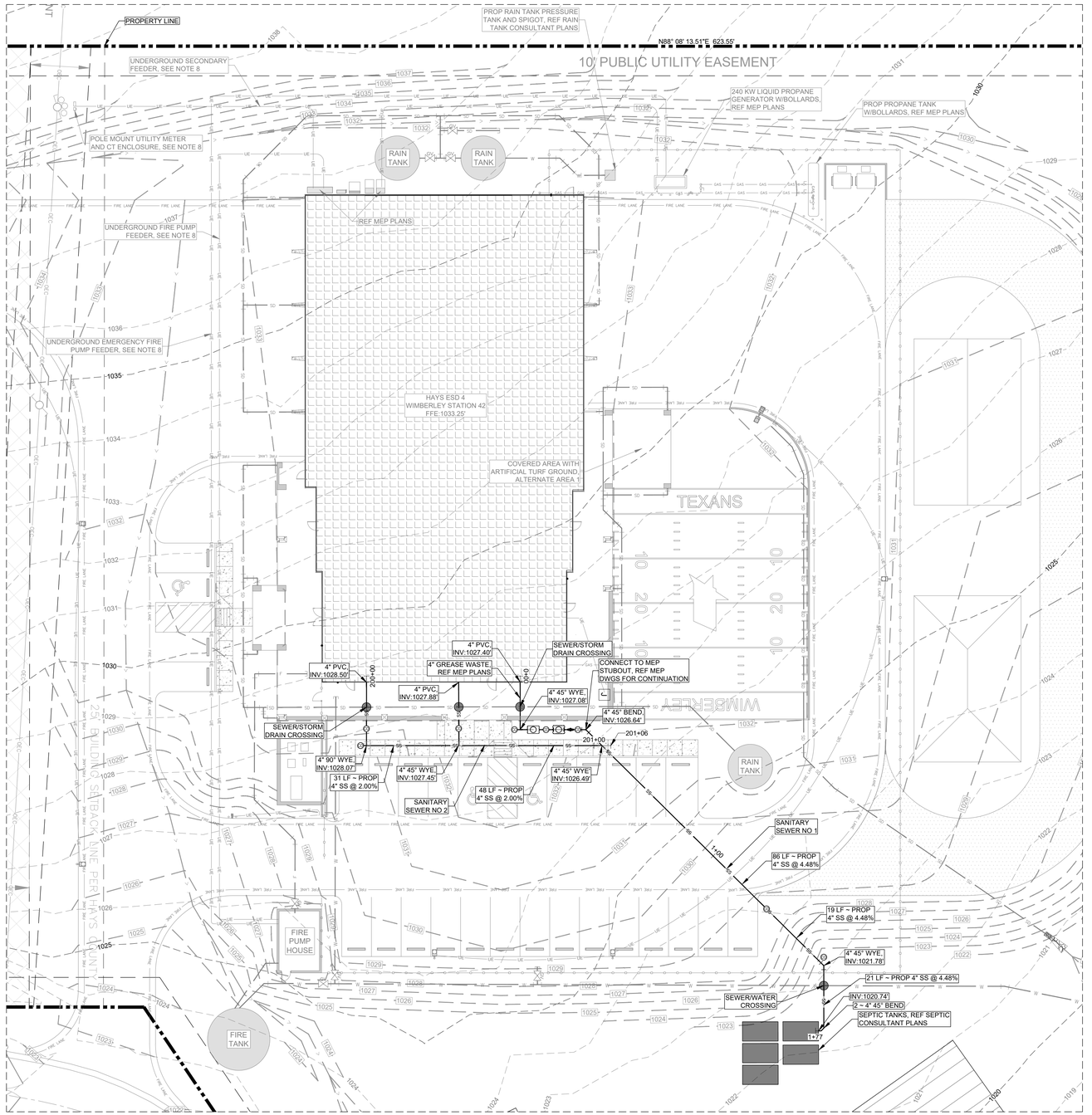
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BEING A PART OF LOT 10,
CHARLES & OLLIE OLDHAM SUBDIVISION,
VOLUME 142, PAGE 424
DEED RECORDS, HAYS COUNTY, TEXAS

SANITARY SEWER NO 1
STA 0+00.00 TO 1+76.67
H: 1" = 20', V: 1" = 2'



SANITARY SEWER NO 2
STA 200+00.00 TO 201+05.68
H: 1" = 20', V: 1" = 2'





0 10 20 40
SCALE (FEET)

LEGEND

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- EXIST ELECTRIC METER
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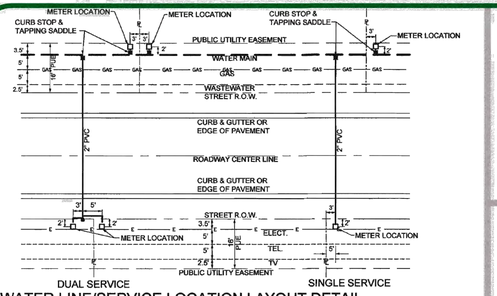
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SANITARY SEWER CONNECTION INSET

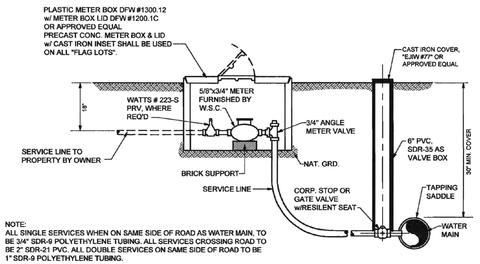
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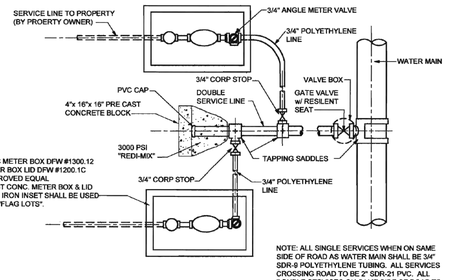


WATER LINE/SERVICE LOCATION LAYOUT DETAIL



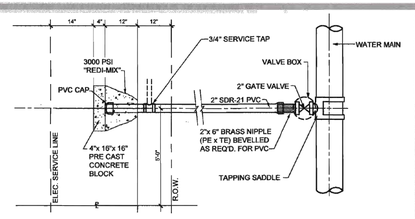
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SINGLE SERVICE DETAIL- SECTIONAL VIEW

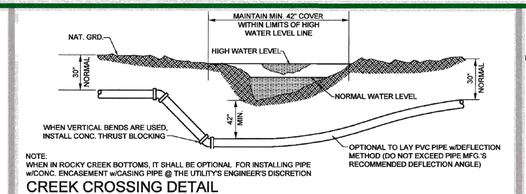


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DUAL SERVICE DETAIL

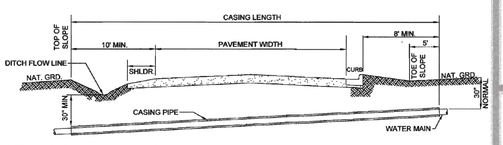


SINGLE LONG SERVICE DETAIL



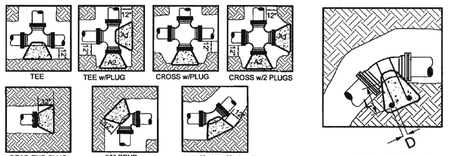
NOTE:
WHEN IN ROCKY CREEK BOTTOMS, IT SHALL BE OPTIONAL FOR INSTALLING PIPE w/CONC. ENCASEMENT w/CASING PIPE @ THE UTILITY'S ENGINEER'S DISCRETION

CREEK CROSSING DETAIL



NOTES:
1. CASING SHALL EXTEND TO TOP OF BACK SLOPE OF ROAD'S DITCH IN CUT AREAS & 5' BEYOND TOE OF SLOPE IN FILL AREAS.
2. THE CASING SHALL NOT TERMINATE LESS THAN 8' BEHIND BACK OF THE CURB OR LESS THAN 10' BEYOND EDGE OF PAVEMENT.
3. ALL HIGHWAYS (FED., STATE, F.M., ETC.) SHALL BE BORED & ENCASED W/STEEL CASING (SEE CASING SCHEDULE).
4. ALL PAVED COUNTY ROADS & SUBDIVISION ROADS MAY BE BORED & ENCASED WITH PVC CASING.
5. UNPAVED ROADS MAY BE OPEN CUT & ENCASED UPON APPROVAL BY PROPER AUTHORITIES.
6. PRESSURE GROUT SHALL BE INSTALLED BETWEEN CASING PIPE & BORED HOLE.
7. ALL CASING PIPE SHALL HAVE A MIN. COVER OF 30".
8. ALL ROAD CROSSINGS SHALL BE SUBJECT TO APPROVAL BY TxDOT, COUNTY OR OTHER PROPER AUTHORITIES.
9. ALL ENCASEMENTS, BORED OR OPEN CUT, SHALL HAVE SPACERS ON THE WATER MAIN PIPE.

ROAD CROSSING DETAIL

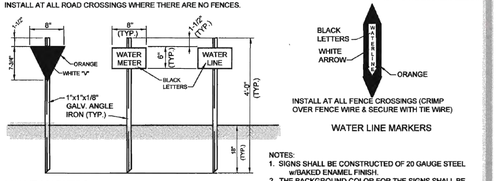


CONCRETE THRUST BLOCK SCHEDULE

FITTING SIZE (INCHES)	HORIZONTAL BENDS: BEARING AREA IN SQ. FT. TEE, CROSS W/ PLUG, OR DEAD END	90° BEND	TEE w/PLUG OR CROSS w/2 PLUGS A1	TEE w/PLUG OR CROSS w/2 PLUGS A2	45° BEND	22-½° BEND	11-¼° BEND	VERTICAL BENDS BEND ANGLE VOLUME IN CUBIC YARDS 45°	22-½°	11-¼°	REBAR SIZE SIZE	L (IN.)	D (IN.)
4 OR SMALLER	1.6	2.3	1.6	1.6	1.2	0.6	0.3	0.7	0.4	0.2	#4	15	4
6	3.4	4.8	3.4	3.4	2.6	1.3	0.7	1.5	0.8	0.4	#5	18	5
8	5.8	8.2	5.8	5.8	4.4	2.3	1.1	2.5	1.4	0.7	#5	18	5
10	8.7	12.3	8.7	8.7	6.7	3.4	1.7	3.8	2.1	1.0	#5	18	5
12	12.3	17.4	12.3	12.3	9.4	4.8	2.4	5.4	2.9	1.5	#5	18	5
14	16.5	23.4	16.5	16.5	12.7	6.5	3.2	7.2	3.9	2.0	#5	18	5
16	21.4	30.3	21.4	21.4	16.4	8.4	4.2	9.3	5.1	2.6	#5	18	5
18	26.9	38.0	26.9	26.9	20.6	10.5	5.3	FOR VERTICAL BENDS GREATER THAN 16°, USE RESTRAINT JOINTS.					
20	33.0	46.6	33.0	33.0	25.2	12.9	6.5						
24	47.1	66.5	47.1	47.1	36.0	18.4	9.2						

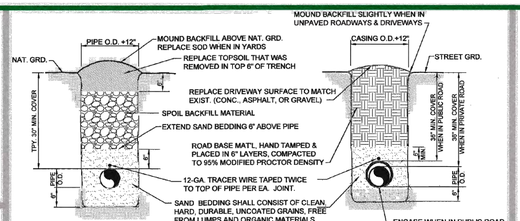
NOTES:
1. ALL CONCRETE THRUST BLOCKS SHALL BEAR AGAINST UNDISTURBED TRENCH WALLS. DISTANCE FROM PIPE FITTINGS TO TRENCH WALL SHALL BE A MIN. OF 12" AT THRUST BLOCK.
2. KEEP CONCRETE CLEAR OF ALL JOINTS & ACCESSORIES. INSTALL 12-MIL POLYETHYLENE SHEETING AROUND FITTINGS. SECURE SHEETING ENDS TO PREVENT ENTRANCE OF DIRT BETWEEN SHEETING AND PIPE FITTINGS PRIOR TO POURING THRUST BLOCK. PROTECT MECHANICAL JOINTS, FOLLOWERS, AND BOLTS FROM CONCRETE WITH TEMPORARY FORMS AND THE POLYETHYLENE SHEETING.
3. ALL CONCRETE THRUST BLOCKS SHALL CONSIST OF A MIXTURE OF 1-2-5 OF CEMENT TO WASHED SAND TO GRAVEL AND SHALL BE CURED FOR A MIN. OF 24 HOURS.
4. CONCRETE SHALL HAVE 2500 PSI MIN. STRENGTH AT 28 DAYS.
5. ALL JOINTS SHALL BE TEMPORARILY JACKED WHEN POURING THRUST BLOCKS.
6. CONCRETE THRUST BLOCKS SHALL APPLY TO ALL PIPE FITTINGS.
7. APPLY TWO COATS OF BITUMASTIC PAINT TO REBAR BEFORE ASSEMBLY.
8. CALCULATIONS BASED ON TEST PRESSURE OF 150 PSI, WEIGHT OF CONCRETE OF 150 LBS PER CU. FT., SAFETY FACTOR OF 1.5, AND SOIL STRENGTH OF 2000 PSF. FOR OTHER PRESSURES AND SOIL STRENGTHS, AREAS AND VOLUMES MUST BE SIZED ACCORDINGLY.

THRUST BLOCKING DETAILS



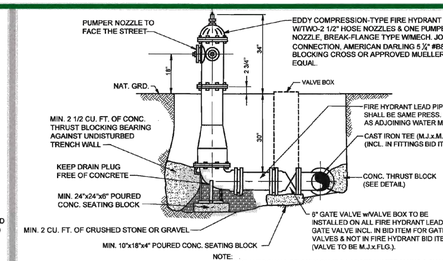
NOTES:
1. SIGNS SHALL BE CONSTRUCTED OF 20 GAUGE STEEL w/BAKED ENAMEL FINISH.
2. THE BACKGROUND COLOR FOR THE SIGNS SHALL BE "OMAHA" ORANGE.
3. THERE SHALL BE NO SEPARATE BID ITEM FOR MARKERS.
4. ALL MARKERS TO BE INCLUDED IN BID PRICE FOR VALVES, METERS, WATER LINES AND ETC.

MARKER DETAILS



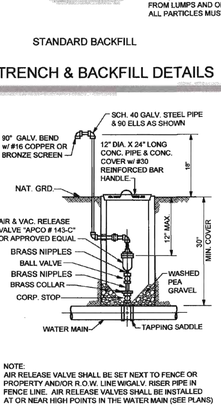
NOTE:
CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY SUBSIDENCE IN BACKFILL FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE.

TRENCH & BACKFILL DETAILS



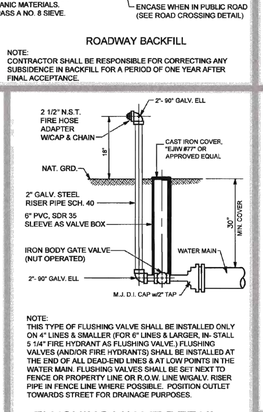
NOTE:
FIRE HYDRANTS SHALL BE ONLY ON 6" & LARGER WATER MAINS & SHALL ALSO BE INSTALLED AS FLUSHING VALVES AT THE END OF ALL DEAD-END LINES (8" & LARGER) & AT LOW POINTS OF WATER MAIN (8" & LARGER). POSITION FIRE HYDRANT WITH PUMPER NOZZLE TOWARD STREET.

FIRE HYDRANT DETAIL



NOTE:
AIR RELEASE VALVE SHALL BE SET NEXT TO FENCE OR PROPERTY AND/OR R.O.W. LINE W/GALV. RISER PIPE IN FENCE LINE. AIR RELEASE VALVES SHALL BE INSTALLED AT OR NEAR HIGH POINTS IN THE WATER MAIN (SEE PLANS)

AIR RELEASE VALVE DETAIL



NOTE:
THIS TYPE OF FLUSHING VALVE SHALL BE INSTALLED ONLY ON 4" LINES & SMALLER (FOR 6" LINES & LARGER, IN-STALL 5 1/4" FIRE HYDRANT AS FLUSHING VALVE.) FLUSHING VALVES (AND/OR FIRE HYDRANTS) SHALL BE INSTALLED AT THE END OF ALL DEAD-END LINES & AT LOW POINTS IN THE WATER MAIN. FLUSHING VALVES SHALL BE SET NEXT TO FENCE OR PROPERTY LINE OR R.O.W. LINE W/GALV. RISER PIPE IN FENCE LINE WHERE POSSIBLE. POSITION OUTLET TOWARDS STREET FOR DRAINAGE PURPOSES.

FLUSHING VALVE DETAIL

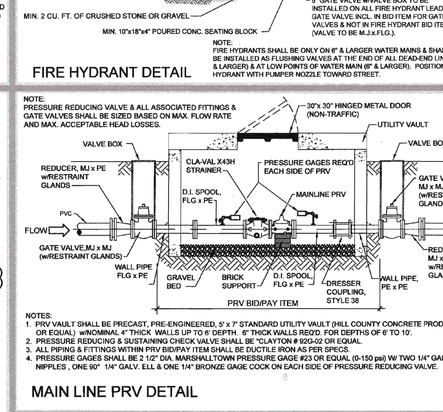
CASING SCHEDULE

SMOOTH STEEL CASING w/ MIN. YEILD STREGNTH OF 35,000 PSI

WATER LINE SIZE	CASING SIZE	CASING WALL THICKNESS
2"	4"	1/4"
3"	6"	1/4"
4"	8"	1/4"
6"	10"	1/4"
8"	12"	1/4"
10"	16"	5/16"
12"	18"	5/16"
14" & 16"	24"	7/16"
18"	30"	1/2"
20"	30"	1/2"
24"	36"	9/16"
27"	36"	9/16"
30"	42"	9/16"
36"	48"	5/8"

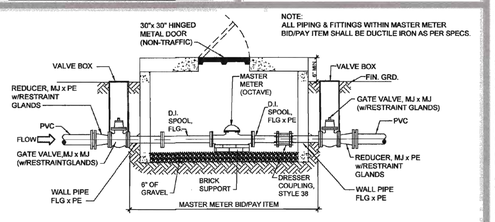
NOTE:
GATE VALVES SHALL BE MUELLER OR AMERICAN DARLING. EQUIPPED WITH RESILIENT SEAT & HAVE MECH. JOINTS UNLESS SPECIFIED OTHERWISE. MECH. JOINTS SHALL BE EQUIPPED WITH RESTRAINT GLANDS.

GATE VALVE DETAIL



NOTES:
1. PRV VAULT SHALL BE PRECAST, PRE-ENGINEERED, 5' x 7' STANDARD UTILITY VAULT (HILL COUNTY CONCRETE PRODUCTS OR EQUAL) w/NOMINAL 4" THICK WALLS UP TO 6' DEPTH. 6" THICK WALLS REQ'D. FOR DEPTHS OF 6' TO 10'.
2. PRESSURE REDUCING & SUSTAINING CHECK VALVE SHALL BE "CLAYTON # 92G-02 OR EQUAL.
3. ALL PIPING & FITTINGS WITHIN PRV BID/PAY ITEM SHALL BE DUCTILE IRON AS PER SPECS.
4. PRESSURE GAGES SHALL BE 2 1/2" DIA. MARSHALLTOWN PRESSURE GAGE #23 OR EQUAL (0-150 psi) W/ TWO 1/4" GALV. NIPPLES , ONE 90° 1/4" GALV. ELL & ONE 1/4" BRONZE GAGE COCK ON EACH SIDE OF PRESSURE REDUCING VALVE.

MAIN LINE PRV DETAIL



NOTE:
ALL PIPING & FITTINGS WITHIN MASTER METER BID/PAY ITEM SHALL BE DUCTILE IRON AS PER SPECS.

VAULT FOR MASTER METER SHALL BE PRECAST, PRE-ENGINEERED, 5 x 5 STANDARD UTILITY VAULT (HILL COUNTY CONCRETE PRODUCTS OR APPROVED EQUAL) w/NOMINAL 4" THICK WALLS UP TO 6' DEPTH. 6" THICK WALLS REQ'D. FOR DEPTHS OF 6' TO 10'.

MASTER METER DETAIL

GENERAL NOTES FOR SUBDIVISION DEVELOPMENT ON THE AQUA WSC SYSTEM:

1. THE DEVELOPER SHALL NOT START CONSTRUCTION UNTIL PLANS HAVE BEEN APPROVED BY AQUA'S ENGINEER. ALL SUBMITTED PLANS SHALL BE BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF TEXAS. HYDRAULIC PARAMETERS NECESSARY TO PROVIDE SERVICE TO THE DEVELOPMENT SHALL BE OBTAINED FROM AQUA'S ENGINEER. PRIOR TO BEGINNING OF ANY CONSTRUCTION, THE DEVELOPER'S CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF UTILITIES WHICH WILL EITHER BE CONNECTED TO OR CROSSED. THE LOCATIONS OF EXISTING FACILITIES SHOWN ON THE PLANS ARE BASED ON AVAILABLE RECORDS AND FIELD SURVEY DATA. IF CONFLICTS ARE DISCOVERED BETWEEN PROPOSED AND EXISTING UTILITIES OR IF EXISTING UTILITIES ARE DIFFERENT FROM THAT SHOWN ON THE PLANS, THEN IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE AFFECTED UTILITY BEFORE PROCEEDING WITH ANY CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE A SOLUTION AND BE RESPONSIBLE FOR RESOLVING ALL CONFLICTS.
2. DUCTILE IRON FITTINGS W/ RESTRAINT GLANDS SHALL BE USED ON ALL LINES. WATER MAINS SHALL BE SDR--21 PVC OR BETTER. ALL WATER LINES CROSSING ROADS, INCLUDING SERVICE LINES, SHALL BE ENCASED. WHERE NEW ROADS CROSS EXISTING AQUA WATER LINES, THE EXISTING LINE(S) SHALL ALSO BE ENCASED. ALL SERVICES SHALL BE DUAL UNLESS THERE IS A COMPELLING REASON OTHERWISE. NO SERVICES SHALL BE ALONG REAR LOT LINES EXCEPT FOR END LOTS ON STREETS WHERE THE REAR LOT LINE JOINS THE SIDE STREET LINE. ALL WATER MAIN TEES AND CROSSES SHALL HAVE A GATE VALVE PLACED SO THAT THE CENTERLINE OF THE VALVE IS 36" FROM THE CENTERLINE OF THE TEE OR CROSS. THERE SHALL BE 2 MAINLINE GATE VALVES AT EVERY MAINLINE TEE AND 3 MAINLINE GATE VALVES AT EVERY MAINLINE CROSS. ALL GATE VALVES (MECH. JT.) SHALL HAVE RESTRAINT GLANDS.
3. ALL WATER MAINS SHALL BE IN EASEMENTS AND NOT STREET R.O.W. ON A 12½' ASSIGNMENT AS PER COUNTY STANDARDS WITHIN THE DEVELOPMENT. ALL WATER MAINS, METERS, VALVES, HYDRANTS, AND OTHER APPURTENANCES SHALL BE PLACED WITHIN THESE EASEMENTS EXCEPT FOR NECESSARY ROAD CROSSINGS. WHERE SIDE-LOT PUE's ARE REQUIRED, THEY SHALL BE A MIN. OF 20' WIDE, WITH AT LEAST 10' ON EACH SIDE OF THE LOT LINE. ALL SUBDIVISIONS SHALL CONTAIN LOOPED LINES WHEN POSSIBLE AND PROVISIONS FOR LOOPING LINES THROUGH ADJACENT SUBDIVISIONS WHEN DEVELOPED. DEAD-END LINES ON CUL-DE-SACS SHALL BE AS SHORT AS PRACTICAL. IF LONG STREETS WITH CUL-DE-SACS ARE USED, PROVISIONS SHALL BE MADE FOR LOOPING THE LINES BY USING SIDE-LOT PUBLIC UTILITY EASEMENTS. UNLESS NORMAL APPLICATION PROCEDURES ARE FOLLOWED AND APPROPRIATE FEES ARE PAID, ACCEPTANCE OF A SUBDIVISION'S WATER DISTRIBUTION SYSTEM FOR OPERATION AND MAINTENANCE BY AQUA WILL NOT GUARANTEE WATER AVAILABILITY FOR ANY PARTICULAR APPLICANT. THE DEVELOPER SHALL PROVIDE A 12--MONTH WARRANTY ON ALL MATERIALS AND WORKMANSHIP AND THREE SETS OF "AS--BUILT" PLANS AT A SCALE OF 1"=200' MINIMUM PRIOR TO ACCEPTANCE OF THE SYSTEM BY AQUA. AQUA WILL ATTEMPT TO PROVIDE WATER TO EACH AND ALL APPLICANTS ON A NON--DISCRIMINATORY BASIS.
4. UNDERGROUND GAS, ELECTRICAL AND TELEPHONE LINES MAY EXIST IN THE AREA. THE DEVELOPER'S CONTRACTOR SHALL CONTACT THE RESPECTIVE UTILITY COMPANIES 48 HOURS PRIOR TO EXCAVATING. THE CONTRACTOR SHALL TAKE EXTRA CAUTION NOT TO UNNECESSARILY DISRUPT SERVICES OF EXISTING UTILITIES. TRENCH SAFETY AND EROSION CONTROL REGULATIONS AND REQUIREMENTS SHALL BE ENFORCED IN ACCORDANCE WITH THE APPLICABLE SPECIFICATIONS. BARRICADES IN ACCORDANCE WITH TXDOT STANDARDS SHALL BE ERECTED WHERE REQUIRED DURING CONSTRUCTION TO PROVIDE SAFETY AND CONVENIENCE FOR THE PUBLIC. ANY EXISTING PAVEMENT DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE DEVELOPER'S CONTRACTOR TO THE SATISFACTION OF THE AFFECTED PARTY.
5. THE DEVELOPER SHALL EITHER OBTAIN A WRITTEN STATEMENT FROM AQUA'S INSPECTOR THAT THE INSPECTOR OBSERVED THE INSTALLATION AND PLACEMENT OF ALL WATER MAINS AND APPURTENANCES PRIOR TO COVERING AND THAT ALL IS IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS APPROVED BY AQUA'S ENGINEER, OR A SIGNED AND SEALED CERTIFICATE BY THE DEVELOPER'S ENGINEER THAT ALL INSTALLATION WAS IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. THE SAME PROCEDURE SHALL BE FOLLOWED FOR DISINFECTION AND PRESSURE TESTING THE INSTALLED LINES. WITHOUT THE DOCUMENTS FOR THESE 3 PHASES, AQUA WILL NOT ACCEPT THE SYSTEM FOR MAINTENANCE AND OPERATION, UNLESS THE DEVELOPER GIVES A 10 YEAR WRITTEN WORKMANSHIP AND MATERIALS GUARANTEE WITH SUITABLE BOND OR DEPOSIT IN ESCROW. THE SUITABILITY OF THE BOND OR DEPOSIT SHALL BE DETERMINED BY AQUA.
6. WHEN THE SUBDIVISION IS WITHIN ANOTHER ENTITY'S JURISDICTION AS WELL AS WITHIN AQUA'S CCN, SUCH AS ETJ OF A CITY, THE SUBDIVISION'S INTERNAL WATER DISTRIBUTION SYSTEM SHALL COMPLY WITH THE OTHER ENTITY'S REGULATIONS AND SPECIFICATIONS.
7. ALL FACILITIES, EQUIPMENT, APPURTENANCES, ETC., OF THE WATER SYSTEM SHALL BE IN ACCORDANCE WITH THE STANDARDS, REQUIREMENTS, AND/OR SPECIFICATIONS OF THE AWWA AND THE TCEQ. HYDROSTATIC TESTING OF THE WATER SYSTEM SHALL BE SUCH THAT LEAKAGE SHALL NOT EXCEED 10 GALLONS PER INCH OF PIPE DIAMETER PER MILE OF PIPE PER 24 HOURS WHEN TESTED AT 1--1/2 TIMES THE WORKING PRESSURE OR TESTED AT THE RATED PRESSURE OF THE PIPE, WHICHEVER IS GREATER.
8. ALL SUBDIVISIONS SHALL HAVE FIRE HYDRANTS SPACED NO FURTHER THAN 600' APART AND BE LOCATED WITHIN AND ON THE BACKSIDE OF THE DEDICATED 15' UTILITIES EASEMENT. HYDRANTS SHALL BE LOCATED AT INTERSECTIONS. BETWEEN INTERSECTIONS, HYDRANTS SHALL BE LOCATED ON LOT LINES THAT HAVE DEDICATED 10' PUEs ON EACH SIDE OF THE LOT LINE. MIN. WATER MAIN SIZES IN SUBDIVISIONS SHALL BE 6". WATER MAINS SHALL BE LARGER WHERE NECESSARY TO MAINTAIN ADEQUATE FIRE FLOW STANDARDS.

NO.	REVISION	BY	DATE
1.	UPDATE DETAIL SHEET	JEL	10/07
2.	COMPOUND METER & MAIN LINE PRV DETAIL	JEL	02/09
3.	TRENCH & BACKFILL DETAILS - SAND BEDDING	RJL	11/09
4.	ADDED 12-GA TRACER WIRE	gad	3/10
5.	CASING SPACERS, RESTRAINT GLANDS. MIN. 6" SDR-21 LINES	gad	12/11
6.	COMPOUND METER CHANGED TO OCTAVE MASTER METER	CJC	04/12
7.	MODIFY FIRE HYDRANT DETAIL	CJC	12/12
8	CHANGED TYPE OF METER BOX & METER/VALVE COVER LIDS	CJC	02/13

BERNHARD 12/2012 DESIGNED BY: DATE
gad/cjc 12/2012 DRAWN BY: DATE
CHECKED BY: DATE
APPROVED BY: DATE

STATE OF TEXAS CURTIS R. STEGER 87936 LICENSED PROFESSIONAL ENGINEER 2/24/13

STEGER BIZZELL
ADDRESS 1978 S. AUSTIN AVENUE GEORGETOWN, TX 78626
METRO 512.930.9412 TEXAS REGISTERED ENGINEERING FIRM F-181 WEB STEGERBIZZELL.COM
SERVICES >>ENGINEERS >>PLANNERS >>SURVEYORS

STANDARD DETAILS
FOR SUBDIVISION DEVELOPMENT ON THE AQUA WSC SYSTEM
AQUA WATER SUPPLY CORPORATION
BASTROP, TEXAS

Project Number: 2XXXX
Scale: NOT TO SCALE
Project Path: L:\PROJECTS 2006
Project Name: STANDARD DETAIL SHEET
Drawing Path: L:\ CAD STANDARDS\ TITLE BLOCKS\
DWG File Name: AQUA STD DETAILS 2013
Sheet Number: XX of XX SHEETS

Hill Country Civil
Engineers ● Consultants
Texas Registered Engineering Firm F-20222
301 Landa Street, Ste. 100A, New Braunfels, TX 78130
Phone 830-609-5078 or 210-378-4063
www.hillcountrycivil.com

ROSS T. CONDER 136421 LICENSED PROFESSIONAL ENGINEER STATE OF TEXAS
20 OCTOBER 2026

No.	Date	Revisions
1.	10/20/26	IFB SET

HAYS COUNTY ESD NO. 4
FIRE STATION NO. 42
HCC JOB No.: 013-14 DRAWN BY: TN

AQUA WATER UTILITY DETAILS

SHEET No. 19 OF 25

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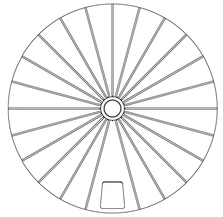
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C:\HCH\Hill Country Civil\Projects - Documents\013 Martinez Architects\14 Wimberley Fire Station\1 - CAD\2 - Sheets\013-14 UTIL-D01.dwg

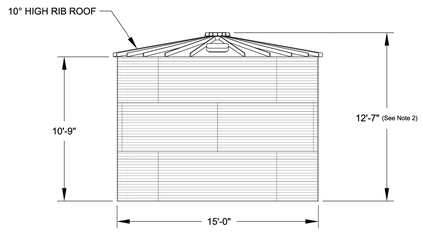
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Note 1. Corrugations on roof panels are not shown for clarity.

Note 2. Overall tank height on this drawing is only estimated. Overall height will only be confirmed after production of site specific engineering for this tank.



PLAN



ELEVATION

CORGAL		BY	DATE
WATER STORAGE TANKS, INC.	DWN	IU	6/15/15
1-800-463-1898	CKD	JH	6/15/15
www.corgaltanks.com	ENG	JH	6/15/15

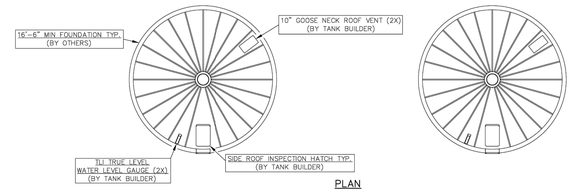
THE DRAWING DEPICTED ON THIS PRINT AND THE INFORMATION CONTAINED HEREIN ARE PROPRIETARY TO Water Storage Tanks, Inc. AND SHALL NOT BE USED IN WHOLE OR PART WITHOUT THE WRITTEN CONSENT OF Water Storage Tanks, Inc.

TITLE: MODEL 1503-WT-LPR
CORGAL STEEL WATER STORAGE TANK
NOMINAL CAPACITY - 14,000 GALLONS (U.S.)

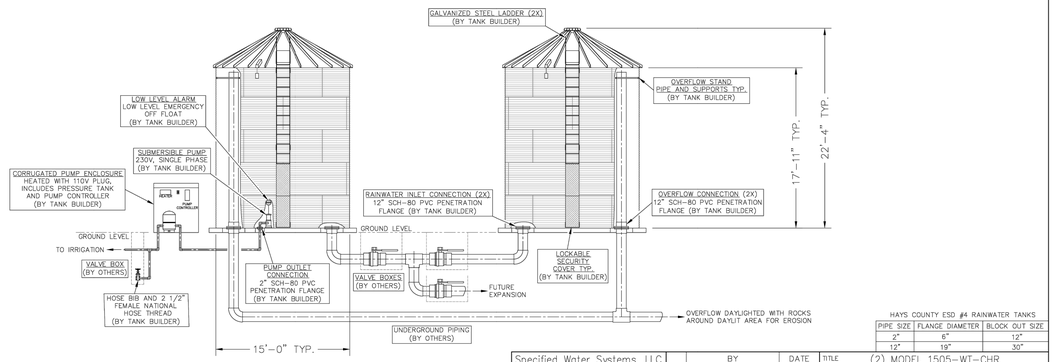
DWG. NO. 1503-WT-LPR-10 | REV. NO. A

SIZE A | SCALE 3/16"=1'-0" | SHEET 1 OF 1

Corrugations on roof panels are not shown for clarity.



PLAN



ELEVATION

HAYS COUNTY ESD #4 RAINWATER TANKS

PIPE SIZE	FLANGE DIAMETER	BLOCK OUT SIZE
2"	6"	12"
12"	19"	30"

Specified Water Systems, LLC		BY	DATE
Austin, Texas, USA	DWN	IU	4/14/26
1-877-301-5632	CKD	CL	4/14/26
www.specwater.com	ENG	CL	4/14/26

THE DRAWING DEPICTED ON THIS PRINT AND THE INFORMATION CONTAINED HEREIN ARE PROPRIETARY TO Specified Water Systems, LLC AND SHALL NOT BE USED IN WHOLE OR PART WITHOUT THE CONSENT OF Specified Water Systems, LLC

TITLE: (2) MODEL 1505-WT-CHR
CORGAL STEEL WATER STORAGE TANKS
NOMINAL CAPACITY - 23,000 GALLONS (U.S.) EACH

DWG. NO. SWS-Hays ESD #4-20 | REV. NO. A

SIZE B | SCALE 1/8"=1'-0" | SHEET 1 OF 1

Hill Country Civil
Engineers ◆ Consultants
Texas Firm Registration #20281
331 Landa Street, Ste. 204, New Braunfels, TX 78130
Phone 817-659-9378 or 210-378-4963
www.hillcountrycivil.com

Ross T Corder
STATE OF TEXAS
ROSS T CORDER
105421
LICENSED
PROFESSIONAL ENGINEER

20 OCTOBER 2026

No.	Date	Revisions
1.	10/20/26	IFB SET

HAYS COUNTY ESD NO. 4

FIRE STATION NO. 42

HCC JOB No.: 013-14 DRAWN BY.: TN

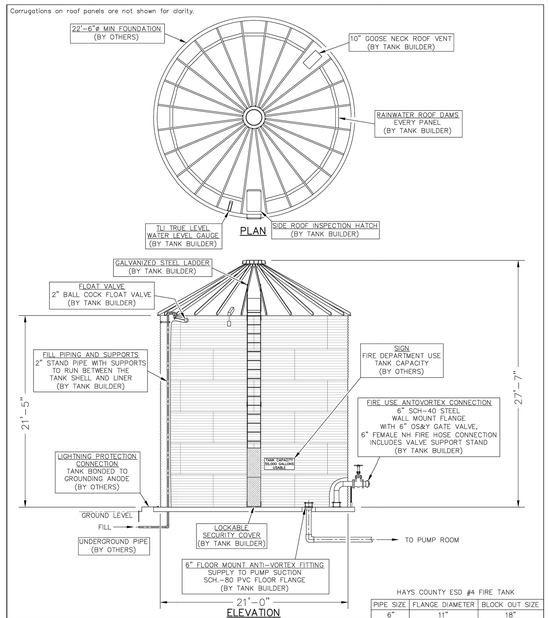
RAINWATER TANK DETAILS

SHEET No. 20 OF 25

C:\HCC\Hill Country Civil\Projects - Documents\013 Martinez Architects\14 Wimberley Fire Station\1 - CAD\2 - Sheets\13-14 UTIL-DTL-001.dwg

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Corrugations on roof panels are not shown for clarity.



HAYS COUNTY ESD #4 FIRE TANK

PIPE SIZE	FLANGE DIAMETER	BLOCK OUT SIZE
6"	11"	18"

Specified Water Systems, LLC Austin, Texas, USA 1-877-301-5632 www.specwater.com		BY	DATE
	DWN	IU	4/14/26
	CKD	CL	4/14/26
	ENG	CL	4/14/26

TITLE: MODEL 2106-WT-CHR
CORGAL STEEL WATER STORAGE TANK
NOMINAL CAPACITY - 55,000 GALLONS (U.S.)

DWG. NO.: SWS-Hays ESD #4-10 | REV. NO.: A

SIZE: A | SCALE: 1/8"=1'-0" | SHEET 1 OF 1

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STATE OF TEXAS
ROSS T CORDER
105401
LICENSED
PROFESSIONAL ENGINEER

20 OCTOBER 2026

No.	Date	Revisions	App.
1.	10/20/26	IFB SET	

HAYS COUNTY ESD NO. 4

FIRE STATION NO. 42

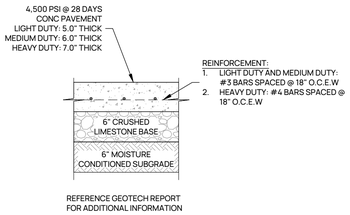
HCC JOB No.: 013-14 DRAWN BY.: TN

FIRE TANK DETAILS

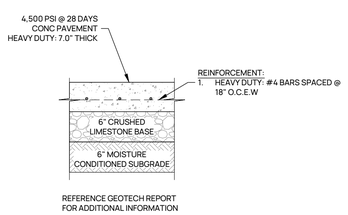
SHEET No.
21
OF 25

Copyright Hill Country Civil, LLC October 20, 2026

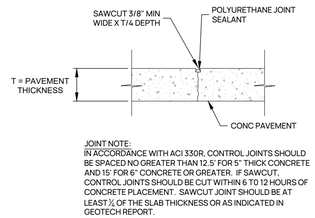
C:\HCC\Hill Country Civil\Projects - Documents\013 Martinez Architects\14 Wimberley Fire Station\1 - CAD\2 - Sheets\13-14 UTIL-DTL-001.dwg



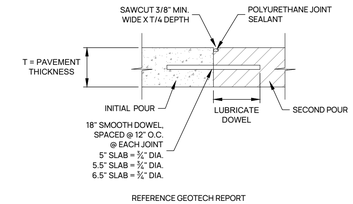
PAVEMENT SECTIONS
N.T.S



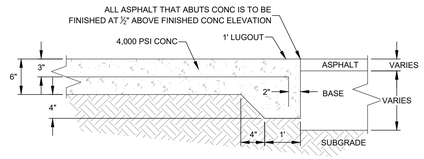
TXDOT PAVEMENT SECTION
N.T.S



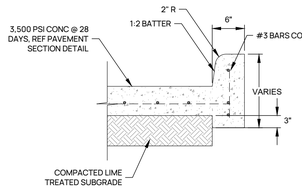
CONTROL JOINT DETAIL
N.T.S



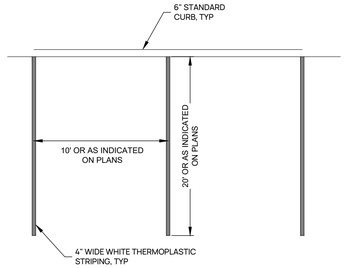
CONSTRUCTION JOINT DETAIL
N.T.S



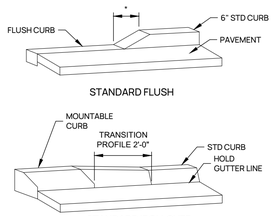
CONCRETE TO ASPHALT PAVING HEADER
N.T.S



STANDARD 6" CURB - CONCRETE PAVEMENT
N.T.S

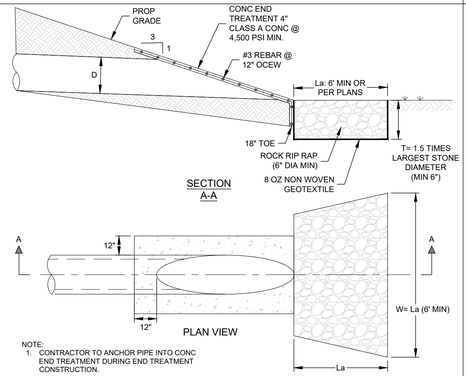


TYPICAL PARKING SPACE STRIPING
N.T.S

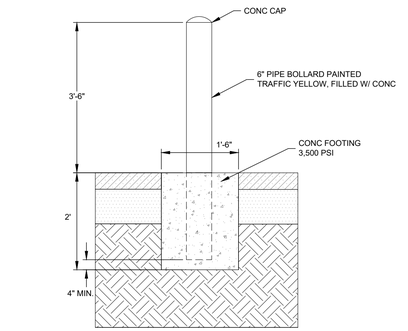


* - CURB TRANSITION SHALL BE 1' TYPICAL EXCEPT WHERE ABUTTING RAMP OR DRIVE MATCH GRADE OF ADJACENT CONSTRUCTION FEATURE. TRANSITION OVER DISTANCE AS INDICATED BY SPOT ELEVATIONS

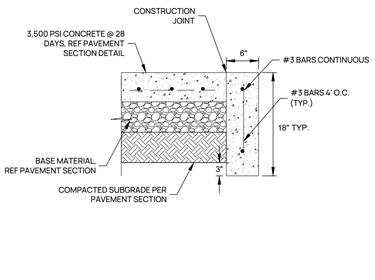
CURB TRANSITION DETAIL
N.T.S



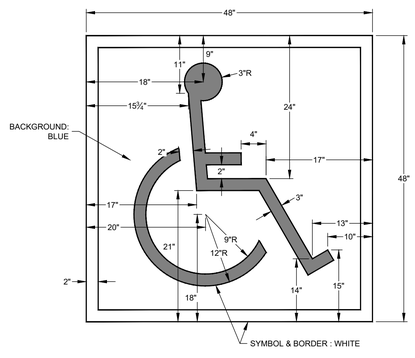
END TREATMENT AND RIP RAP DETAIL
N.T.S



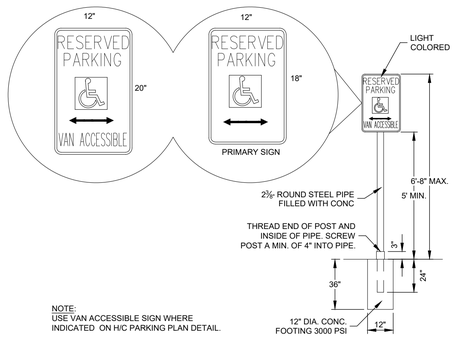
6" BOLLARD DETAIL
N.T.S



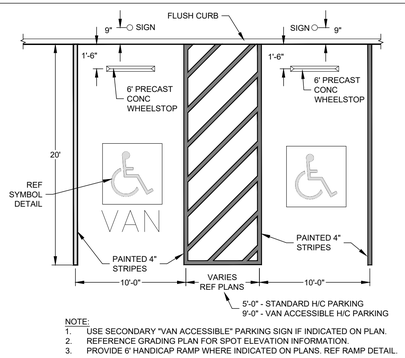
FLUSH CURB CONCRETE PAVEMENT
N.T.S



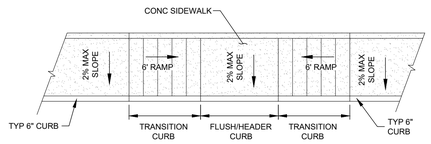
HANDICAP SYMBOL DETAIL
N.T.S



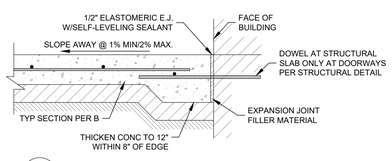
HANDICAP PARKING SIGN DETAIL
N.T.S



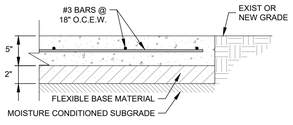
HANDICAP PARKING DETAIL
N.T.S



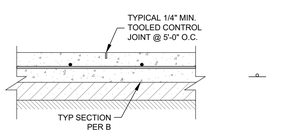
ADA RAMP
N.T.S



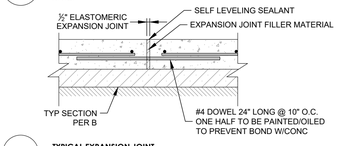
A **TYPICAL EXPANSION JOINT CONCRETE WALK/BLDG. INTERFACE**
N.T.S.



B **TYPICAL SECTION**
N.T.S.

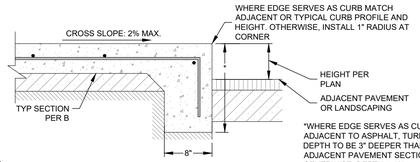


C **TYPICAL CONTRACTION JOINT**
N.T.S.

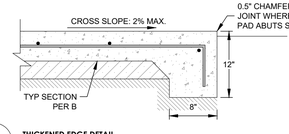


D **TYPICAL EXPANSION JOINT**
N.T.S.

TYPICAL SIDEWALK DETAILS
N.T.S



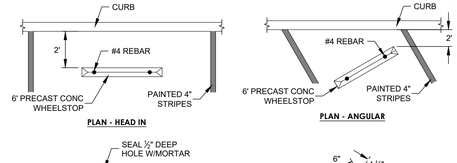
E **ELEVATED EDGE DETAIL**
N.T.S.

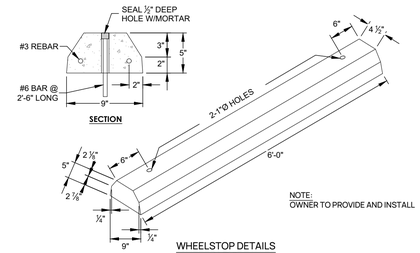


F **THICKENED EDGE DETAIL**
N.T.S.

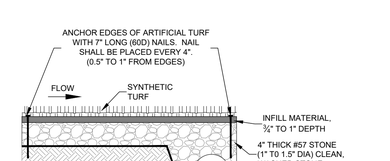
GENERAL NOTES FOR CONCRETE SIDEWALKS:

1. ALL SIDEWALKS SHALL BE A MINIMUM 4,500 PSI CONC WITH NO. 3 BARS AT 18" INCHES ON CENTER.
2. SLOPE SIDEWALKS AWAY FROM BLDG. AS INDICATED ON DRAWINGS OR AT 2% MAX.
3. PROVIDE SIDEWALK WITH A HORIZONTAL (CROSS) BRUSH FINISH ON ALL SURFACES.
4. GROOVE CONTRACTION JOINTS SHALL BE SPACED 5 FT. ON CENTERS, WITH 1/2" ELASTOMERIC EXPANSION JOINTS AT EVERY 30 FT.
5. PROVIDE A 1/2" ELASTOMERIC EXPANSION JOINT ALONG NEW BUILDING BETWEEN ALL NEW SIDEWALK.
6. ALL BASE MATERIAL UNDER SIDEWALKS TO BE MOISTURE CONDITIONED AND COMPACTED TO 95% MAX. DRY DENSITY 0% TO +2% OF OPTIMUM.





WHEELSTOP DETAILS
N.T.S



ARTIFICIAL TURF (PROVIDED BY OWNER)
NOT TO SCALE

CROSS SLOPE - SEE CIVIL GRADING PLAN

NOTE:

THE MANUFACTURE OF THE ARTIFICIAL TURF IS NOT KNOWN, AS MATERIAL IS BEING RECYCLED FROM PREVIOUS PROJECT. CONTRACTOR/OWNER SHALL CONFIRM MANUFACTURE AND ADJUST SECTION AND SPECIFICATIONS OUTLINED IN THIS DETAIL TO MATCH SUPPLIED ARTIFICIAL MANUFACTURE SPECIFICATION.

TURF DRAIN DETAILS
N.T.S

Hill Country Civil
Engineers ◆ Consultants
TBPE Firm # 17671201
301 Landa Street, Ste. 100, New Braunfels, TX 78130
Phone 817-659-9378 or 210-378-4563
www.hillcountrycivil.com

ROSS T. CORDER
115431
LICENSED
PROFESSIONAL ENGINEER
20 OCTOBER 2026

No.	Date	Revisions
1.	10/20/26	IFB SET

HAYS COUNTY ESD NO. 4
FIRE STATION NO. 42
HCC JOB No.: 013-14 DRAWN BY: TN

SITE DETAILS

SHEET No.
22
OF 25

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SITE PLAN NOTES

1. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LOCAL BUILDING, SAFETY, AND INSPECTION REGULATIONS.
2. CONTRACTOR SHALL KEEP A COPY OF APPROVED CONSTRUCTION DRAWINGS ONSITE AT ALL TIMES.
3. ALL DIMENSIONS SHOWN ARE TO FACE OF CURB OR EDGE OF PAVEMENT UNLESS STATED OTHERWISE.
4. PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL COORDINATE WITH LOCAL TV, ELECTRIC, GAS, WATER, SEWER AND PHONE PROVIDERS AS REQUIRED TO PROVIDE SERVICE TO THE PROJECT SITE.
5. CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION ACTIVITY (ON OR OFFSITE) FOR THE PROJECT.

DRAINAGE NOTES & ASSUMPTIONS

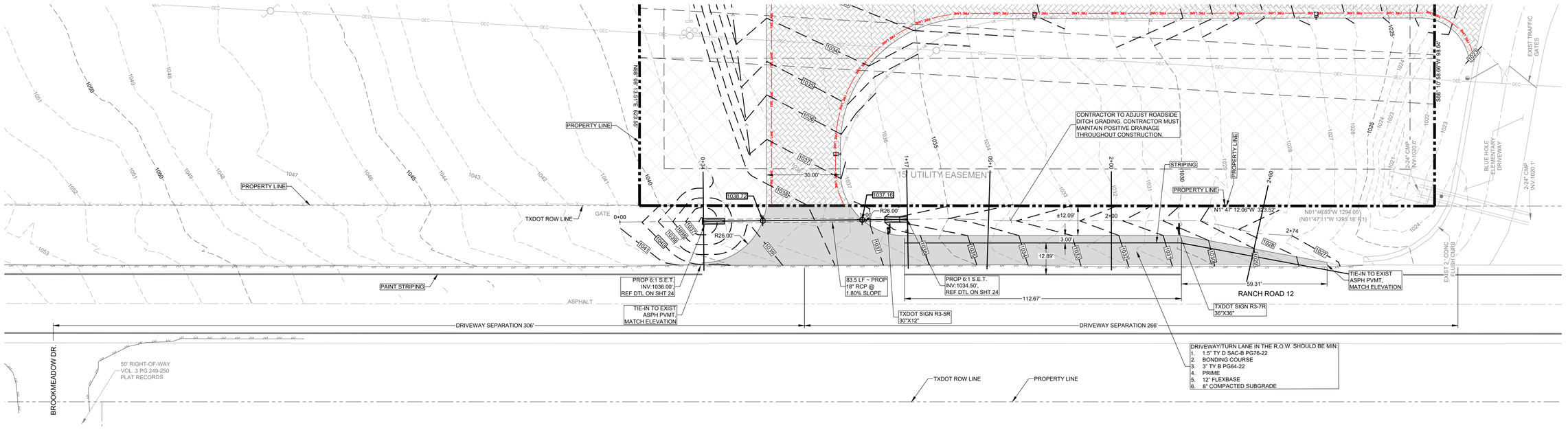
THERE IS A COMMERCIAL DRIVEWAY ACCESS PROPOSED WITH THIS DEVELOPMENT. THE PROPOSED DRIVEWAY HAS AN 18-INCH RCP CULVERT THAT DRAINS WATER FROM NORTH TO SOUTH. THE PROPOSED DRIVEWAY IS 30 FEET WIDE WITH A RIGHT TURN LANE AND TAPER. THE DRAINAGE AREA TO THE CULVERT CAN BE SEEN ON THE PROPOSED DRAINAGE AREA MAP (PDA 6). THE CULVERT WAS ANALYZED FOR THE 5-, 10- AND 100-YEAR STORM EVENTS. THE CULVERT IS SIZED FOR THE 10-YEAR EVENT. THE 100-YEAR EVENT WAS ANALYZED TO SHOW THAT THE HEADWATER DOES NOT IMPACT RR12 OR ADJACENT PROPERTIES. REFER TO THE TXDOT CULVERT HY-8 CALCULATIONS IN THE DRAINAGE REPORT FOR THIS DEVELOPMENT.

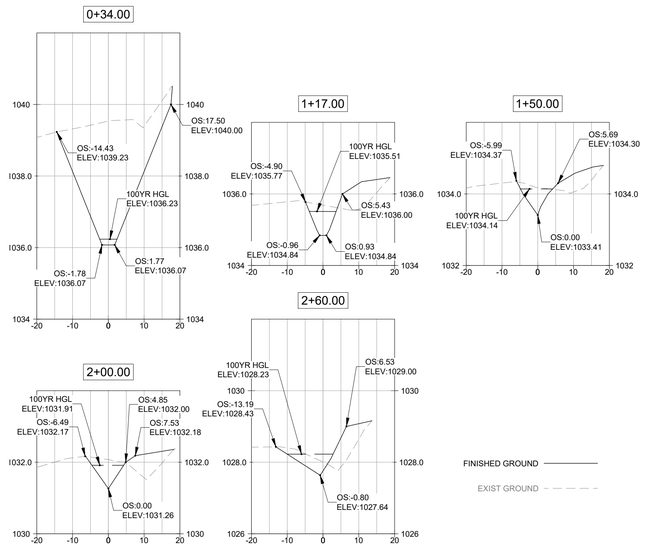
1. MAXIMUM ALLOWABLE HEADWATER: 1.5' (ELEVATION 1037.50'). THIS IS GREATER THAN THE HEADWATER ELEVATION OF THE 100-YR STORM EVENT
2. NRCS CURVE NUMBER METHOD USED TO CALCULATE THE PEAK RUNOFF TO THE PROPOSED CULVERT.
   - 2.1. CURVE NUMBER FOR PERVIOUS AREA WAS ASSUMED AS OPEN SPACE (CN: 80)
   - 2.2. CURVE NUMBER FOR IMPERVIOUS AREA WAS ASSUMED AS STREETS (CN: 98)
3. TIME OF CONCENTRATION WAS CALCULATED USING TR-55 METHODOLOGY.
4. RAINFALL INTENSITIES WERE DERIVED FROM ATLAS 14.
5. SOIL DATA WAS DERIVED FROM USDA WEB SOIL SURVEY.

LEGEND

- IRF — IRON ROD FOUND (SIZE NOTED)
- CONTROL/CALCULATED POINT
- BENCHMARK
- EXIST ELECTRIC METER
- EXIST POWER POLE
- EXIST GUY ANCHOR
- PROPERTY LINE
- ADJOINER LINE
- EXIST EDGE OF PAVEMENT
- EXIST BARBED WIRE FENCE
- EXIST WOOD FENCE
- EXIST WATER LINE
- OE — EXIST OVERHEAD ELECTRIC
- OEC — EXIST OVERHEAD ELECTRIC/COMMUNICATION
- 910 — EXIST MAJOR CONTOUR
- 911 — EXIST MINOR CONTOUR
- EXIST CONCRETE
- 1025 — PROP MAJOR CONTOUR
- 1024 — PROP MINOR CONTOUR
- PROP HEAVY DUTY CONCRETE
- PROP TXDOT CONCRETE
- PROP DRAINAGE SWALE

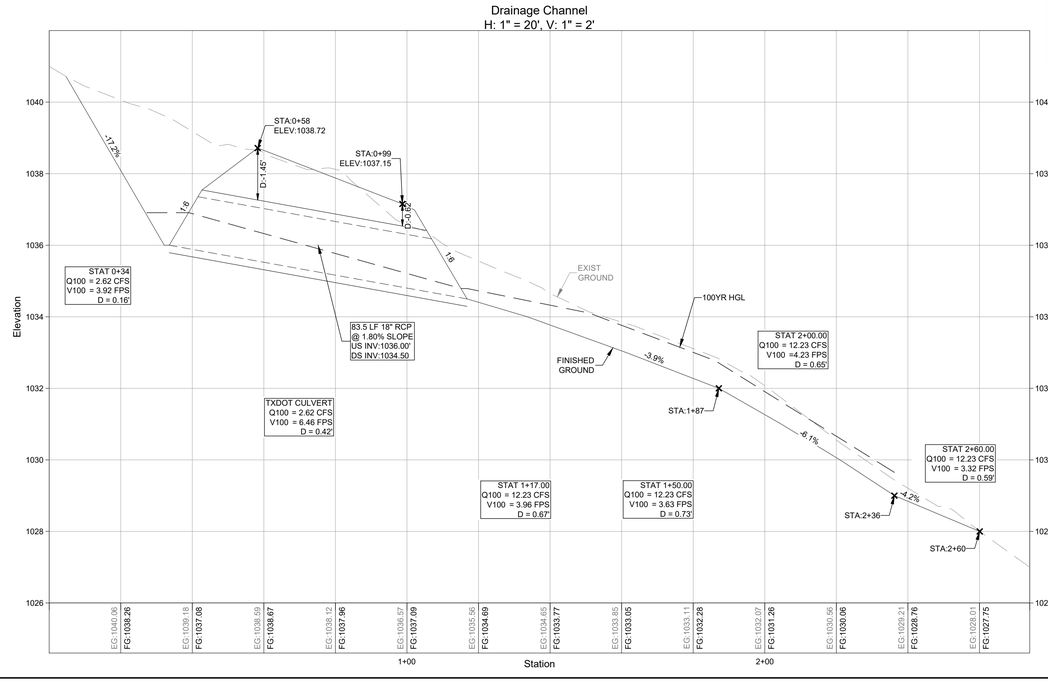
0 10 20 40
SCALE (FEET)





DRAINAGE CHANNEL SECTIONS

H: 1"=20', V: 1"=2'



NOTE:
DRAINAGE FOR THIS DEVELOPMENT HAS BEEN DESIGNED SUCH THAT THERE WILL BE NO ADVERSE IMPACTS ON THE CAPACITY, FUNCTION OR INTEGRITY OF TEXAS DEPARTMENT OF TRANSPORTATION RIGHT-OF-WAY DRAINAGE FACILITIES.

Hill Country Civil
Engineers ● Consultants
Texas Firm # 19267
301 Landa Street, Ste. 104, New Braunfels, TX 78130
Phone 817-659-5078 or 210-378-4063
www.hillcountrycivil.com

ROSS T CORDER — STATE OF TEXAS — 136421 — LICENSED PROFESSIONAL ENGINEER

20 OCTOBER 2026

No.	Date	Revisions	App.
1.	10/20/26	IFB SET	

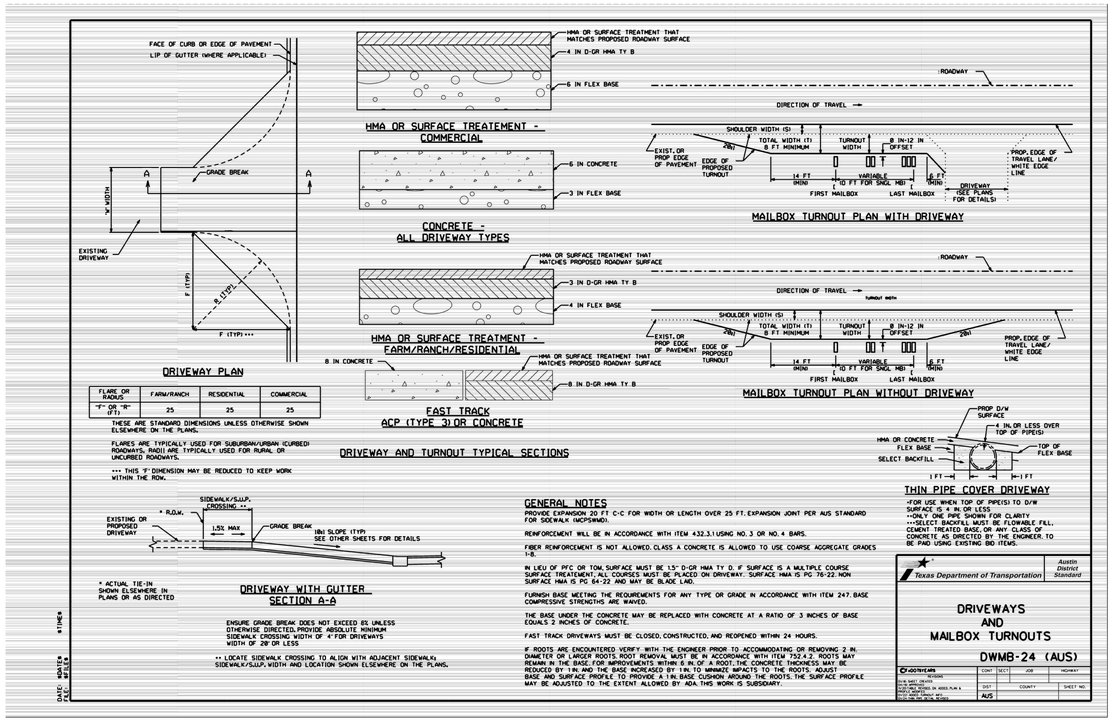
HAYS COUNTY ESD NO. 4
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DRAWN BY: TN

TXDOT DRIVEWAY

SHEET No.
23
OF 25

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GENERAL NOTES

PROVIDE EXPANSION 20 FT C-C FOR WIDTH OR LENGTH OVER 25 FT. EXPANSION JOINT PER AUS STANDARD FOR SIDEWALK (MCPSMMD).

REINFORCEMENT WILL BE IN ACCORDANCE WITH ITEM 432.3.1 USING NO. 3 OR NO. 4 BARS.

FIBER REINFORCEMENT IS NOT ALLOWED. CLASS A CONCRETE IS ALLOWED TO USE COARSE AGGREGATE GRADES 1-B.

IN LIEU OF PFC OR TOM, SURFACE MUST BE 1.5" D-GR HMA TY D. IF SURFACE IS A MULTIPLE COURSE SURFACE TREATEMENT, ALL COURSES MUST BE PLACED ON DRIVEWAY. SURFACE HMA IS PG 76-22 NON SURFACE HMA IS PG 64-22 AND MAY BE BLADE LAID.

FURNISH BASE MEETING THE REQUIREMENTS FOR ANY TYPE OR GRADE IN ACCORDANCE WITH ITEM 247. BASE COMPRESSIVE STRENGTHS ARE WAIVED.

THE BASE UNDER THE CONCRETE MAY BE REPLACED WITH CONCRETE AT A RATIO OF 3 INCHES OF BASE EQUALS 2 INCHES OF CONCRETE.

FAST TRACK DRIVEWAYS MUST BE CLOSED, CONSTRUCTED, AND REOPENED WITHIN 24 HOURS.

IF ROOTS ARE ENCOUNTERED VERIFY WITH THE ENGINEER PRIOR TO ACCOMMODATING OR REMOVING 2 IN. DIAMETER OR LARGER ROOTS. ROOT REMOVAL MUST BE IN ACCORDANCE WITH ITEM 752.4.2. ROOTS MAY REMAIN IN THE BASE. FOR IMPROVEMENTS WITHIN 6 IN OF A ROOT, THE CONCRETE THICKNESS MAY BE REDUCED BY 1 IN AND THE BASE INCREASED BY 1 IN. TO MINIMIZE IMPACTS TO THE ROOTS, ADJUST BASE AND SURFACE PROFILE TO PROVIDE A 1 IN. BASE CUSHION AROUND THE ROOTS. THE SURFACE PROFILE MAY BE ADJUSTED TO THE EXTENT ALLOWED BY ADA. THIS WORK IS SUBSIDIARY.

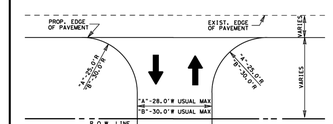
Texas Department of Transportation — Austin District Standard

DRIVEWAYS AND MAILBOX TURNOUTS

DWMB-24 (AUS)

©TxDOT 1985 REVISIONS	CONT	SECT	JOB	HIGHWAY
8-85 3-03 1-97 2-12 4-98 2-18	DIST	COUNTY		SHEET NO.
	AUS			

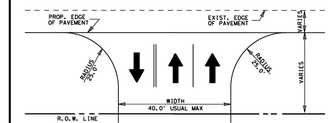
DESIGNS FOR TWO-WAY COMMERCIAL DRIVEWAYS



"A" - ONE ENTRY LANE AND ONE EXIT LANE, FEWER THAN 4 LARGE VEHICLES PER HOUR

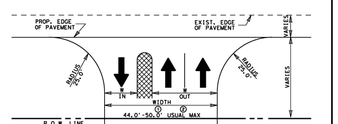
"B" - ONE ENTRY LANE AND ONE EXIT LANE, 4 OR MORE SINGLE UNIT VEHICLES PER HOUR

① - DRIVEWAY DESIGNS FOR LARGER VEHICLES WILL BE CONSIDERED ON A CASE BY CASE BASIS



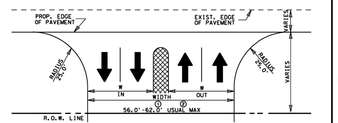
ONE ENTRY LANE AND TWO EXIT LANES (WITHOUT DIVIDERS)

DESIGNS FOR TWO-WAY COMMERCIAL DRIVEWAYS



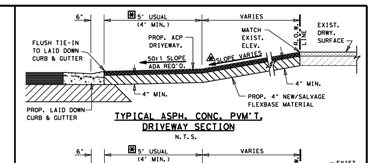
① - 4.0' WIDE DIVIDER, FACE-TO-FACE CURBS
② - 10.0' WIDE DIVIDER, FACE-TO-FACE CURBS

ONE ENTRY LANE AND TWO EXIT LANES (WITH A DIVIDER)



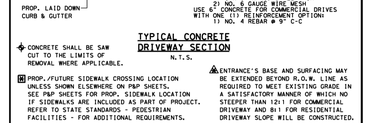
① - 4.0' WIDE DIVIDER, FACE-TO-FACE CURBS
② - 10.0' WIDE DIVIDER, FACE-TO-FACE CURBS

TWO ENTRY LANES AND TWO EXIT LANES (WITH A DIVIDER)



TYPICAL ASPH. CONC. PVM'T, DRIVEWAY SECTION

N.T.S.



TYPICAL CONCRETE DRIVEWAY SECTION

N.T.S.

CONCRETE SHALL BE SAW CUT TO THE LIMITS OF REMOVAL WHERE APPLICABLE.

Ⓟ PROP./FUTURE SIDEWALK CROSSING LOCATION UNLESS SHOWN ELSEWHERE ON P&P SHEETS. SEE P&P SHEETS FOR PROP. SIDEWALK LOCATION IF SIDEWALKS ARE INCLUDED AS PART OF PROJECT. REFER TO STATE STANDARDS - PEDESTRIAN FACILITIES - FOR ADDITIONAL REQUIREMENTS.

ⓐ ENTRANCE'S BASE AND SURFACING MAY BE EXTENDED BEYOND R.O.W. LINE AS REQUIRED TO MEET EXISTING GRADE IN A SATISFACTORY MANNER OF WHICH NO STEEPER THAN 12:1 FOR COMMERCIAL DRIVEWAY AND 8:1 FOR RESIDENTIAL DRIVEWAY SLOPE WILL BE CONSTRUCTED.

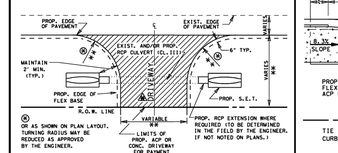
PROP. DWY ALGEBRAIC DIFFERENCE TABLE

COMMERCIAL DRIVEWAYS @ A = 6% MAX.	
RESIDENTIAL DRIVEWAYS @ A = 8% MAX.	

PROPOSED DRIVEWAY SLOPE TABLE

COMMERCIAL DRIVEWAYS @ 1:21 MAX.	
RESIDENTIAL DRIVEWAYS @ 8:1 MAX.	

PRIVATE AND COMMERCIAL DRIVES WITHOUT CURB & GUTTER



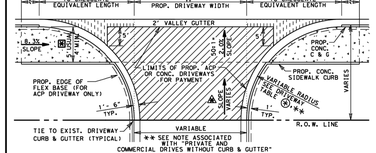
Ⓢ OR AS SHOWN ON PLAN LAYOUT. TURNING RADIUS MAY BE REDUCED AS APPROVED BY THE ENGINEER.

PLAN OF PRIVATE AND COMMERCIAL DRIVES

★★ FOR PRIVATE RESIDENTIAL DRIVES, TRY TO MATCH EXISTING WITH A MINIMUM RADIUS OF 12 FT, AND A MAXIMUM WIDTH OF 24 FT, WITH 30 FT RADIUS. FOR COMMERCIAL DRIVES, USE ABOVE COMMERCIAL DRIVEWAY DETAILS.

⚠ SEE TYPICAL DRIVEWAY SECTIONS NOTES FOR DRIVEWAY SLOPE CRITERIA.

PRIVATE AND COMMERCIAL DRIVES WITH CURB & GUTTER



★★ SEE NOTE ASSOCIATED WITH "PRIVATE AND COMMERCIAL DRIVES WITHOUT CURB & GUTTER"

PLAN OF PRIVATE AND COMMERCIAL DRIVES

SEE P&P SHEETS FOR LOCATIONS OF DRIVES.

N.T.S.

Ⓟ PROP./FUTURE CONC. SIDEWALK LOCATION UNLESS SHOWN ELSEWHERE ON P&P SHEETS. REFER TO STATE STANDARDS - PEDESTRIAN FACILITIES - FOR ADDITIONAL REQUIREMENTS.

Ⓛ LIMITS OF SLOPE FOR PROP. CONC. CURB RAMP BASED ON 8.3% SLOPE FOR SIDEWALK.

⚠ SEE TYPICAL DRIVEWAY SECTIONS NOTES FOR DRIVEWAY SLOPE CRITERIA.

LF EQUIVALENT TABLE FOR PAYMENT LIMITS OF 2' VALLEY GUTTER

LF OF VALLEY GUTTER= W + X1 + X2	
WHERE X1 AND X2 MAY VARY DEPENDING ON RADIUS	
Prop. Driveway Radius	X1 or X2 (Sq Ft Area ÷ 2') Equivalent LF Length
5'	1
8'	2
10'	4
12'	6
15'	9
18'	12
20'	15
22'	18
25'	24
28'	30
30'	34

SEE DRIVEWAY TABLE FOR LIMITS OF LAID DOWN CURB TO BE PAID FOR AS CURB AND GUTTER

DRIVEWAY TYPES

TY PB-1

EXIST. PRIVATE OR COMMERCIAL DRIVEWAYS TO BE CONSTRUCTED AS SHOWN WITH 4" NEW AND/OR SALVAGE FLEX. BASE, PRIMED AND SURFACED WITH 1"ITY/ST ACP. (HMA-D PG 64-22 SAC B MEETING ITEM 3401

CONCRETE (RESIDENTIAL)

EXIST. PRIVATE DRIVEWAYS TO BE CONSTRUCTED AS SHOWN WITH 4" CONCRETE. TO BE PAID FOR BY THE SQ.YD.

CONCRETE (COMMERCIAL)

EXIST. BUSINESS DRIVEWAYS TO BE CONSTRUCTED AS SHOWN WITH 6" CONCRETE. TO BE PAID FOR BY THE SQ.YD.

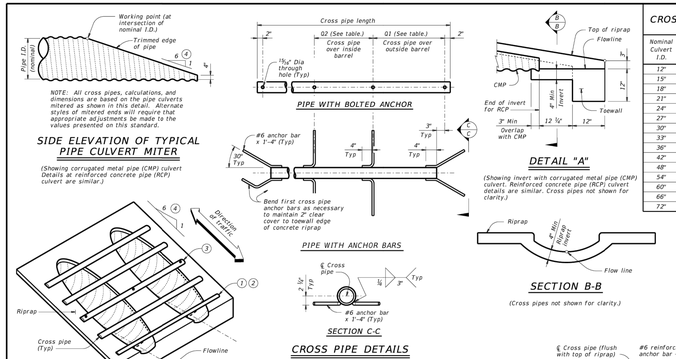
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Texas Department of Transportation

DRIVEWAY DETAILS PRIVATE (RESIDENTIAL-COMMERCIAL)

REV. 08/22 — DRIVEWAY2.DGN

DIST	COUNTY	CONT	SECT	JOB	HIGHWAY NO.
6					
STATE	FED. AID PROJ. NO.				
TEXAS	21				



CROSS PIPE LENGTHS, REQUIRED PIPE SIZES, AND RIPRAP QUANTITIES ②

Nominal Culvert I.D.	Conc Riprap (CY) ⑥	Pipe Culvert Spa = G	Single Barrel ~ Q1	Multi-Barrel ~ Q1	Q2	Conditions for Use of Cross Pipes	Cross Pipe Sizes
12"	0.6	0'-9"	N/A	2'-1"	1'-9"	3 or more pipe culverts	3" Std (3.500" O.D.)
15"	0.7	0'-11"	N/A	2'-5"	2'-2"		
18"	0.8	1'-2"	N/A	2'-10"	2'-8"		
21"	0.9	1'-4"	N/A	3'-2"	3'-1"		
24"	0.9	1'-7"	N/A	3'-6"	3'-7"		
27"	1.0	1'-8"	N/A	3'-10"	3'-11"	3 or more pipe culverts	
30"	1.1	1'-10"	N/A	4'-2"	4'-4"	2 or more pipe culverts	3 ½" Std (4.000" O.D.)
33"	1.2	1'-11"	4'-2"	4'-5"	4'-8"	All pipe culverts	
36"	1.3	2'-1"	4'-5"	4'-9"	5'-1"		4" Std (4.500" O.D.)
42"	1.5	2'-4"	4'-11"	5'-5"	5'-10"	All pipe culverts	
48"	1.7	2'-7"	5'-3"	6'-0"	6'-7"		
54"	2.0	3'-0"	5'-11"	6'-9"	7'-6"		5" Std (5.563" O.D.)
60"	2.2	3'-3"	6'-5"	7'-4"	8'-3"		
66"	2.4	3'-3"	6'-11"	7'-10"	8'-9"		
72"	2.7	3'-4"	7'-5"	8'-5"	9'-4"		

① The proper installation of the first cross pipe is critical for vehicle safety. Place the top of the first cross pipe no more than 6" above the flow line.

② Provide cross pipes, except the first bottom pipe, of the size shown in the table. Provide a 3 1/2" standard pipe (4" O.D.) for the first bottom pipe.

③ Install the third cross pipe from the bottom of the culvert using a bolted connection. Ensure that riprap concrete does not flow into the cross pipe so as to permit disassembly of the bolted connection to allow cleanout access. At the Contractor's option, install all other cross pipes using the bolted connection details.

④ Match cross slope as shown elsewhere in the plans. Cross slope of 6:1 or flatter is required for vehicle safety.

⑤ Riprap placed beyond the limits shown will be paid for as concrete riprap in accordance with Item 432, "Riprap."

⑥ Quantities shown are for one end of one reinforced concrete pipe (RCP) culvert. For multiple pipe culverts or for corrugated metal pipe (CMP) culverts, quantities will need to be adjusted. Riprap quantities are for contractor's information only.

MATERIAL NOTES:

Synthetic fibers listed on the "Fibers for Concrete" Material Producer List (MPL) may be used in lieu of steel reinforcing in riprap concrete unless noted otherwise.

Provide cross pipes that meet the requirements of ASTM A53 (Type E or S or B), ASTM A500 (Gr B), or API 5L/X52.

Provide ASTM A307 bolts and nuts.

Galvanize all steel components, except concrete reinforcing, after fabrication. Repair galvanizing damaged during transport or construction in accordance with the specifications.

GENERAL NOTES:

Cross pipes are designed for a traversing load of 10,000 pounds at yield as recommended by Research Report 280-2F, "Safety Treatment of Roadside Parallel-Drainage Structures", Texas Transportation Institute, March 1981.

Safety end treatments (SET) shown herein are intended for use in those installations where out of control vehicles are likely to traverse the openings approximately perpendicular to the cross pipes.

Construct concrete riprap and all necessary inverts in accordance with the requirements of Item 432, "Riprap."

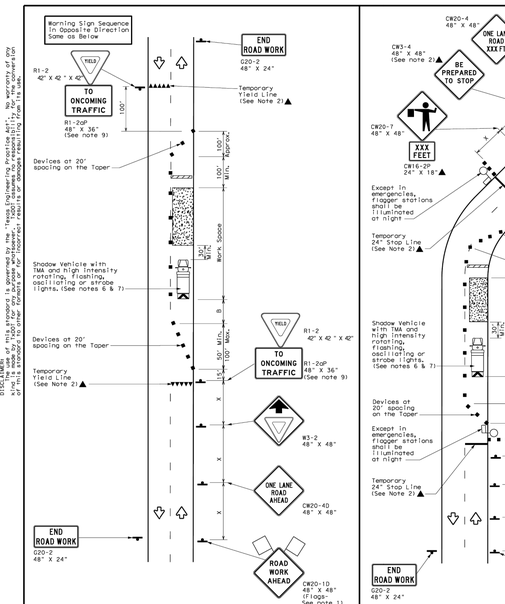
Payment for riprap and toewall is included in the Price Bid for each Safety End Treatment.

Texas Department of Transportation — Bridge Division Standard

SAFETY END TREATMENT FOR 12" DIA TO 72" DIA PIPE CULVERTS TYPE II ~ PARALLEL DRAINAGE

SETP-PD

©TxDOT February 2020 REVISIONS	CONT	SECT	JOB	HIGHWAY
	DIST	COUNTY		SHEET NO.



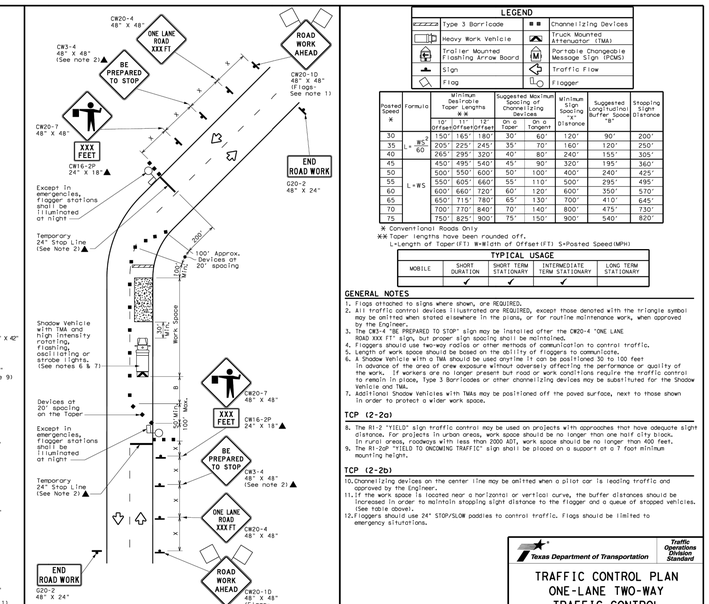
TCP (2-2a)

2-LANE ROADWAY WITHOUT PAVED SHOULDERS

ONE LANE TWO-WAY

CONTROL WITH YIELD SIGNS

(Less than 2000 ADT - See Note 9)



TCP (2-2b)

2-LANE ROADWAY WITHOUT PAVED SHOULDERS

ONE LANE TWO-WAY

CONTROL WITH FLAGGERS

LEGEND			
	Type 3 Barricade	■ ■	Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board		Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed *	Formula	Minimum Taper Lengths **		Suggested Maximum Spacing of Channelizing Devices		Minimum Sign Spacing Distance	Suggested Longitudinal Buffer Space Distance	Stopping Sight Distance
		10' Offset	12' Offset	On a Taper	On a Tangent			
30	L= WS²/60	150'	165'	180'	30'	60'	120'	90'	200'
35		205'	225'	245'	35'	70'	160'	120'	250'
40		265'	295'	320'	40'	80'	240'	155'	305'
45		450'	495'	540'	45'	90'	320'	195'	360'
50		500'	550'	600'	50'	100'	400'	240'	425'
55	L=WS	550'	605'	660'	55'	110'	500'	295'	495'
60		600'	660'	720'	60'	120'	600'	350'	570'
65		650'	715'	780'	65'	130'	700'	410'	645'
70		700'	770'	840'	70'	140'	800'	475'	730'
75		750'	825'	900'	75'	150'	900'	540'	820'

* Conventional Roads Only

** Taper lengths have been rounded off.

L=Length of Taper(FT) W=Width of Offset(FT) S=Posted Speed(MPH)

TYPICAL USAGE

MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
	✓	✓	✓	

GENERAL NOTES

1. Flags attached to signs where shown, are REQUIRED.
2. All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
3. The CW3-4 "BE PREPARED TO STOP" sign may be installed after the CW20-4 "ONE LANE ROAD XXX FT" sign, but proper sign spacing shall be maintained.
4. Flaggers should use two-way radios or other methods of communication to control traffic.
5. Length of work space should be based on the ability of flaggers to communicate.
6. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
7. Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect a wider work space.

TCP (2-2a)

8. The R1-2 "YIELD" sign traffic control may be used on projects with approaches that have adequate sight distance. For projects in urban areas, work space should be no longer than one half city block. In rural areas, roadways with less than 2000 ADT, work space should be no longer than 400 feet.
9. The R1-2aP "YIELD TO ONCOMING TRAFFIC" sign shall be placed on a support at a 7 foot minimum mounting height.

TCP (2-2b)

10. Channelizing devices on the center line may be omitted when a pilot car is leading traffic and approved by the Engineer.
11. If the work space is located near a horizontal or vertical curve, the buffer distances should be increased in order to maintain stopping sight distance to the flagger and a queue of stopped vehicles. (See table above).
12. Flaggers should use 24" STOP/SLOW paddles to control traffic. Flags should be limited to emergency situations.

Texas Department of Transportation — Traffic Operations Division Standard

TRAFFIC CONTROL PLAN ONE-LANE TWO-WAY TRAFFIC CONTROL

TCP(2-2)-18

©TxDOT December 1985 REVISIONS	CONT	SECT	JOB	HIGHWAY
8-95 3-03 1-97 2-12 4-98 2-18	DIST	COUNTY		SHEET NO.
[LTSZ.]				

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Ross T. Corder — STATE OF TEXAS — ROSS T. CORDER — 134201 — LICENSED PROFESSIONAL ENGINEER

20 OCTOBER 2026

No.	Date	Revisions
1.	10/20/26	IFB SET

HAYS COUNTY ESD NO. 4

FIRE STATION NO. 42

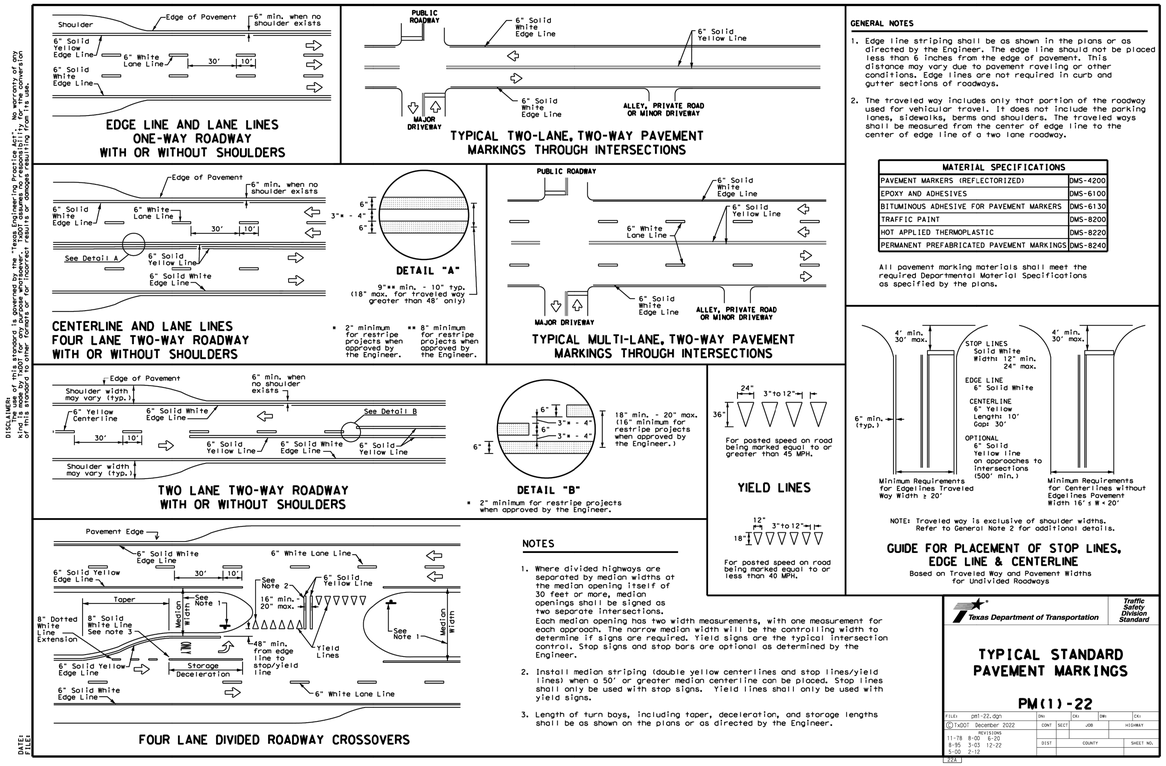
HCC JOB NO.: 013-14 — DRAWN BY: TN

TXDOT DETAILS (1 OF 2)

SHEET No. 24 OF 25

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HY-8 Culvert Analysis Report

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.87 cfs

Design Flow: 1.19 cfs

Maximum Flow: 2.62 cfs

Table 1 - Summary of Culvert Flows at Crossing: HAYS ESD 4 STA 2 DW

Headwater Elevation (ft)	Total Discharge (cfs)	Culvert 1 Discharge (cfs)	Roadway Discharge (cfs)	Iterations
1036.50	0.87	0.87	0.00	1
1036.55	1.05	1.05	0.00	1
1036.59	1.19	1.19	0.00	1
1036.64	1.40	1.40	0.00	1
1036.69	1.57	1.57	0.00	1
1036.73	1.75	1.75	0.00	1
1036.77	1.92	1.92	0.00	1
1036.80	2.09	2.09	0.00	1
1036.84	2.27	2.27	0.00	1
1036.88	2.44	2.44	0.00	1
1036.91	2.62	2.62	0.00	1
1038.00	8.14	8.14	0.00	Overtopping

Culvert Data: Culvert 1

Table 1 - Culvert Summary Table: Culvert 1

Total Discharge (cfs)	Culvert Discharge (cfs)	Headwater Elevation (ft)	Inlet Control Depth (ft)	Outlet Control Depth (ft)	Flow Type	Normal Depth (ft)	Critical Depth (ft)	Outlet Depth (ft)	Tailwater Depth (ft)	Outlet Velocity (ft/s)	Tailwater Velocity (ft/s)
0.87 cfs	0.87 cfs	1036.50	0.50	0.0*	1-S2n	0.24	0.35	0.24	0.19	4.70	7.77
1.05 cfs	1.05 cfs	1036.55	0.55	0.0*	1-S2n	0.27	0.38	0.27	0.21	4.95	8.13
1.19 cfs	1.19 cfs	1036.59	0.59	0.0*	1-S2n	0.28	0.41	0.28	0.22	5.14	8.39
1.40 cfs	1.40 cfs	1036.64	0.64	0.0*	1-S2n	0.31	0.44	0.31	0.23	5.39	8.74
1.57 cfs	1.57 cfs	1036.69	0.69	0.0*	1-S2n	0.32	0.47	0.32	0.24	5.58	9.00
1.75 cfs	1.75 cfs	1036.73	0.73	0.0*	1-S2n	0.34	0.50	0.34	0.25	5.75	9.24
1.92 cfs	1.92 cfs	1036.77	0.77	0.0*	1-S2n	0.36	0.52	0.36	0.26	5.92	9.47
2.09 cfs	2.09 cfs	1036.80	0.80	0.0*	1-S2n	0.37	0.55	0.37	0.27	6.06	9.67
2.27 cfs	2.27 cfs	1036.84	0.84	0.0*	1-S2n	0.39	0.57	0.39	0.28	6.20	9.87
2.44 cfs	2.44 cfs	1036.88	0.88	0.0*	1-S2n	0.41	0.59	0.41	0.28	6.34	10.06
2.62 cfs	2.62 cfs	1036.91	0.91	0.0*	1-S2n	0.42	0.61	0.42	0.29	6.46	10.23

* Full Flow Headwater elevation is below inlet invert.

Culvert Barrel Data

Culvert Barrel Type Straight Culvert

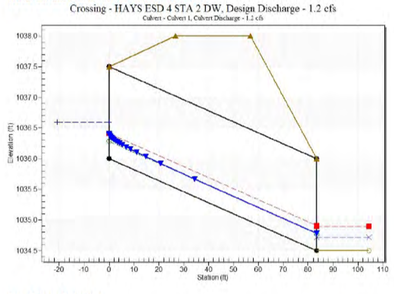
Inlet Elevation (Invert): 1036.00 ft,

Outlet Elevation (invert): 1034.50 ft

Culvert Length: 83.51 ft,

Culvert Slope: 0.0180

Water Surface Profile Plot for Culvert: Culvert 1



Site Data - Culvert 1

Site Data Option: Culvert Invert Data

Inlet Station: 0.00 ft

Inlet Elevation: 1036.00 ft

Outlet Station: 83.50 ft

Outlet Elevation: 1034.50 ft

Number of Barrels: 1

Culvert Data Summary - Culvert 1

Barrel Shape: Circular

Barrel Diameter: 1.50 ft

Barrel Material: Concrete

Embedment: 0.00 in

Barrel Manning's n: 0.0120

Culvert Type: Straight

Inlet Configuration: Mitered to Conform to Slope

Inlet Depression: None

Tailwater Data for Crossing: HAYS ESD 4 STA 2 DW

Table 2 - Downstream Channel Rating Curve (Crossing: HAYS ESD 4 STA 2 DW)

Flow (cfs)	Water Surface Elev (ft)	Velocity (ft/s)	Depth (ft)	Shear (psf)	Froude Number
0.87	1034.69	0.19	7.77	24.14	4.40
1.05	1034.71	0.21	8.13	25.84	4.45
1.19	1034.72	0.22	8.39	27.09	4.49
1.40	1034.73	0.23	8.74	28.79	4.54
1.57	1034.74	0.24	9.00	30.09	4.57
1.75	1034.75	0.25	9.24	31.31	4.60
1.92	1034.76	0.26	9.47	32.45	4.63
2.09	1034.77	0.27	9.67	33.52	4.65
2.27	1034.78	0.28	9.87	34.54	4.68
2.44	1034.78	0.28	10.06	35.52	4.70
2.62	1034.79	0.29	10.23	36.45	4.72

Tailwater Channel Data - HAYS ESD 4 STA 2 DW

Tailwater Channel Option: Triangular Channel

Side Slope (H:V): 3.00 (_:1)

Channel Slope: 2.0000

Channel Manning's n: 0.0550

Channel Invert Elevation: 1034.50 ft

Roadway Data for Crossing: HAYS ESD 4 STA 2 DW

Roadway Profile Shape: Constant Roadway Elevation

Crest Length: 15.00 ft

Crest Elevation: 1038.00 ft

Roadway Surface: Paved

Roadway Top Width: 30.00 ft

CULVERT CALCULATIONS

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20 OCTOBER 2026

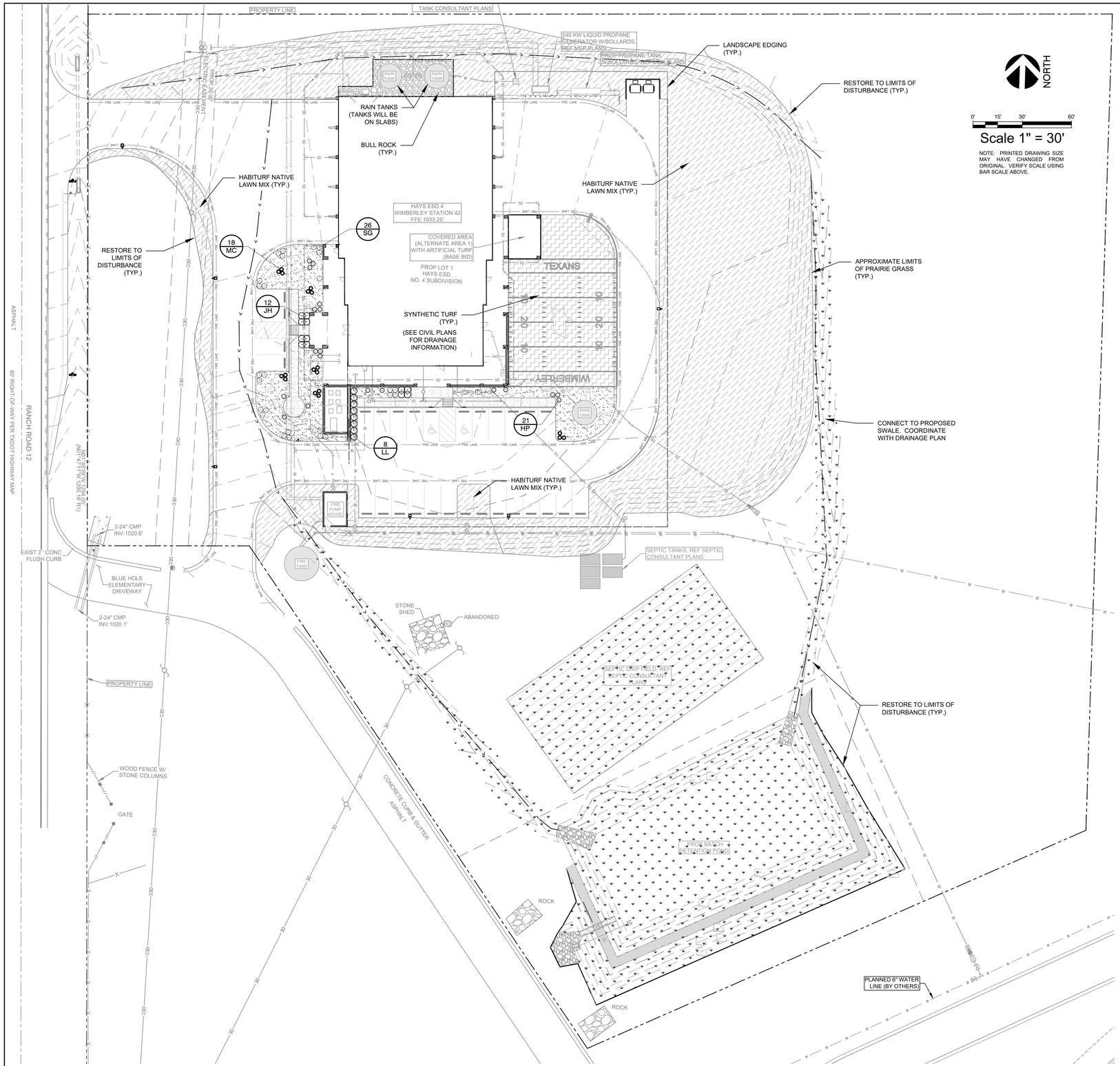
No.	Date	Revisions
1.	10/20/26	IFB SET

HAYS COUNTY ESD NO. 4
FIRE STATION NO. 42
DRAWN BY: TN
HCC JOB No.: 013-14

TXDOT DETAILS (2 OF 2)

SHEET No. 25 OF 25

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PLANT_SCHEDULE

SHRUBS	CODE	QTY	BOTANICAL / COMMON NAME	CONTAINER	SPACING	MIN. SIZE
	HP	19	Hesperaloe parviflora Red Yucca	3 gal	Per Plan	Full
	JH	12	Juniperus Horizontalis 'Blue Chip' Blue Chip Juniper	3 gal	Per Plan	Full
	LL	8	Leucophyllum langmaniae 'Lynn's Legacy' 'Lynn's Legacy' Texas Sage	3 gal	Per Plan	Full
	MC	18	Muhlenbergia capillaris `Regal Mist` `Regal Mist` Muhly Grass	3 gal	Per Plan	Full
	SG	26	Salvia greggii `Furman's Red` Furman's Red Sage	3 gal	Per Plan	Full

GROUND COVERS	CODE	QTY	BOTANICAL / COMMON NAME	CONTAINER	SPACING
	DG	4,790 sf	1.5" River Rock Min. 4" depth; submit for owner approval prior to bid/installation.		Solid Coverage
	BR	815 sf	Bull Rock Aggregate 6" depth over weed fabric, 4"-6" dia.; submit for owner approval prior to bid/installation.		Solid Coverage
	PG	42,870 sf	Habiturf Native Lawn Mix 5 lbs/1,000 sf, plant .25"-.50" depth		Solid Coverage
	HM	36,308 sf	Cynodon dactylon Common Bermuda Grass	Hydromulch	Solid Coverage
	ST	6,169 sf	Synthetic Turf See Detail H, Sheet LP-2		Solid Coverage

LANDSCAPE CALCULATIONS

PERMITTING AUTHORITY: HAYS COUNTY, TX

There are no landscape ordinance requirements in Hays County, TX.

GENERAL GRADING AND PLANTING NOTES

1. BY SUBMITTING A PROPOSAL FOR THE LANDSCAPE PLANTING SCOPE OF WORK, THE CONTRACTOR CONFIRMS THAT HE HAS READ, AND WILL COMPLY WITH, THE ASSOCIATED NOTES, SPECIFICATIONS, AND DETAILS WITH THIS PROJECT.
2. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL EXISTING VEGETATION (EXCEPT WHERE NOTED TO REMAIN).
3. IN THE CONTEXT OF THESE PLANS, NOTES, AND SPECIFICATIONS, "FINISH GRADE" REFERS TO THE FINAL ELEVATION OF THE SOIL SURFACE (NOT TOP OF MULCH) AS INDICATED ON THE GRADING PLANS.
   a. BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE ROUGH GRADES OF ALL LANDSCAPE AREAS ARE WITHIN +/-0.1' OF FINISH GRADE. SEE SPECIFICATIONS FOR MORE DETAILED INSTRUCTION ON TURF AREA AND PLANTING BED PREPARATION.
   b. CONSTRUCT AND MAINTAIN FINISH GRADES AS SHOWN ON GRADING PLANS, AND CONSTRUCT AND MAINTAIN SLOPES AS RECOMMENDED BY THE GEOTECHNICAL REPORT. ALL LANDSCAPE AREAS SHALL HAVE POSITIVE DRAINAGE AWAY FROM STRUCTURES AT THE MINIMUM SLOPE SPECIFIED IN THE REPORT AND ON THE GRADING PLANS, AND AREAS OF POTENTIAL PONDING SHALL BE REGRADED TO BLEND IN WITH THE SURROUNDING GRADES AND ELIMINATE PONDING POTENTIAL.
   c. THE LANDSCAPE CONTRACTOR SHALL DETERMINE WHETHER OR NOT THE EXPORT OF ANY SOIL WILL BE NEEDED, TAKING INTO ACCOUNT THE ROUGH GRADE PROVIDED, THE AMOUNT OF SOIL AMENDMENTS TO BE ADDED (**BASED ON A SOIL TEST** IN THE SPECIFICATIONS), AND THE FINISH GRADES TO BE ESTABLISHED.
   d. ENSURE THAT THE FINISH GRADE IN SHRUB AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 3" BELOW THE ADJACENT FINISH SURFACE, IN ORDER TO ALLOW FOR PROPER MULCH DEPTH. TAPER THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED ON THE GRADING PLANS, AT APPROXIMATELY 18" AWAY FROM THE WALKS.
   e. ENSURE THAT THE FINISH GRADE IN TURF AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 1" BELOW THE FINISH SURFACE OF THE WALKS. TAPER THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED ON THE GRADING PLANS, AT APPROXIMATELY 18" AWAY FROM THE WALKS.
   f. SHOULD ANY CONFLICTS AND/OR DISCREPANCIES ARISE BETWEEN THE GRADING PLANS, GEOTECHNICAL REPORT, THESE NOTES AND PLANS, AND ACTUAL CONDITIONS, THE CONTRACTOR SHALL IMMEDIATELY BRING SUCH ITEMS TO THE ATTENTION OF THE LANDSCAPE ARCHITECT, GENERAL CONTRACTOR, AND OWNER.
4. ALL PLANT LOCATIONS ARE DIAGRAMMATIC. ACTUAL LOCATIONS SHALL BE VERIFIED WITH THE LANDSCAPE ARCHITECT OR DESIGNER PRIOR TO PLANTING. THE LANDSCAPE CONTRACTOR SHALL ENSURE THAT ALL REQUIREMENTS OF THE PERMITTING AUTHORITY ARE MET (I.E., MINIMUM PLANT QUANTITIES, PLANTING METHODS, TREE PROTECTION METHODS, ETC.).
   a. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR DETERMINING PLANT QUANTITIES; PLANT QUANTITIES SHOWN ON LEGENDS AND CALLOUTS ARE FOR GENERAL INFORMATION ONLY. IN THE EVENT OF A DISCREPANCY BETWEEN THE PLAN AND THE PLANT LEGEND, THE PLANT QUANTITY AS SHOWN ON THE PLAN (FOR INDIVIDUAL SYMBOLS) OR CALLOUT (FOR GROUNDCOVER PATTERNS) SHALL TAKE PRECEDENCE.
   b. NO SUBSTITUTIONS OF PLANT MATERIALS SHALL BE ALLOWED WITHOUT THE WRITTEN PERMISSION OF THE LANDSCAPE ARCHITECT. IF SOME OF THE PLANTS ARE NOT AVAILABLE, THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IN WRITING (VIA PROPER CHANNELS).
   c. THE CONTRACTOR SHALL, AT A MINIMUM, PROVIDE REPRESENTATIVE PHOTOS OF ALL PLANTS PROPOSED FOR THE PROJECT. THE CONTRACTOR SHALL ALLOW THE LANDSCAPE ARCHITECT AND THE OWNER/OWNER'S REPRESENTATIVE TO INSPECT, AND APPROVE OR REJECT, ALL PLANTS DELIVERED TO THE JOBSITE. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR SUBMITTALS.
5. CONTRACTOR SHALL PROVIDE AND INSTALL SOLID SOD IN ALL RIGHT-OF-WAYS AND PARKWAYS (UNLESS NOT ALLOWED BY THE LOCAL JURISDICTION) AND SHALL PROVIDE WATERING AND MAINTENANCE UNTIL THE TURF IS ESTABLISHED AND HAS BEEN ACCEPTED BY OWNER.
6. THE CONTRACTOR SHALL MAINTAIN THE LANDSCAPE IN A HEALTHY CONDITION FOR 90 DAYS AFTER ACCEPTANCE BY THE OWNER. REFER TO SPECIFICATIONS FOR CONDITIONS OF ACCEPTANCE FOR THE START OF THE MAINTENANCE PERIOD, AND FOR FINAL ACCEPTANCE AT THE END OF THE MAINTENANCE PERIOD.
7. SEE SPECIFICATIONS AND DETAILS FOR FURTHER REQUIREMENTS.

ROOT BARRIERS

THE CONTRACTOR SHALL INSTALL ROOT BARRIERS NEAR ALL NEWLY-PLANTED TREES THAT ARE LOCATED WITHIN FIVE (5) FEET OF PAVING OR CURBS. ROOT BARRIERS SHALL BE "CENTURY" OR "DEEP-ROOT" 24" DEEP PANELS (OR EQUAL). BARRIERS SHALL BE LOCATED IMMEDIATELY ADJACENT TO HARDSCAPE. INSTALL PANELS PER MANUFACTURER'S RECOMMENDATIONS. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR USE ROOT BARRIERS OF A TYPE THAT COMPLETELY ENCIRCLE THE ROOTBALL.

MULCHES

AFTER ALL PLANTING IS COMPLETE, CONTRACTOR SHALL INSTALL 4" THICK LAYER OF 1.5" RIVER ROCK IN ALL PLANTING AREAS (EXCEPT FOR TURF AND SEEDED AREAS). CONTRACTOR SHALL SUBMIT SAMPLES OF ALL MULCHES TO LANDSCAPE ARCHITECT AND OWNER FOR APPROVAL PRIOR TO CONSTRUCTION. ABSOLUTELY NO EXPOSED GROUND SHALL BE LEFT SHOWING ANYWHERE ON THE PROJECT AFTER MULCH HAS BEEN INSTALLED (SUBJECT TO THE CONDITIONS AND REQUIREMENTS OF THE "GENERAL GRADING AND PLANTING NOTES" AND SPECIFICATIONS).

HYDROMULCH

CONTRACTOR SHALL ESTABLISH HYDROMULCH THREE MONTHS PRIOR TO SUBSTANTIAL COMPLETION DATE IN ORDER TO ENSURE COVERAGE.

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REGISTERED LANDSCAPE ARCHITECT
JON A. PULLIAM
3824
STATE OF TEXAS
10/16/2026

Project Name
HAYS COUNTY ESD NO. 4
FIRE STATION NO. 42

LANDSCAPE PLANTING PLAN

	Date	Comment
1	6/2/26	ISSUE FOR PERMIT

Project Number	
Date	10/16/2026
Drawn By	JP
Checked By	CS

LP-1

PLANTING SPECIFICATIONS

GENERAL

A. QUALIFICATIONS OF LANDSCAPE CONTRACTOR
   1. ALL LANDSCAPE WORK SHOWN ON THESE PLANS SHALL BE PERFORMED BY A SINGLE FIRM SPECIALIZING IN LANDSCAPE PLANTING.
   2. A LIST OF SUCCESSFULLY COMPLETED PROJECTS OF THIS TYPE, SIZE AND NATURE MAY BE REQUESTED BY THE OWNER FOR FURTHER QUALIFICATION MEASURES.
   3. THE LANDSCAPE CONTRACTOR SHALL HOLD A VALID NURSERY AND FLORAL CERTIFICATE ISSUED BY THE TEXAS DEPARTMENT OF AGRICULTURE, AS WELL AS OPERATE UNDER A COMMERCIAL PESTICIDE APPLICATOR LICENSE ISSUED BY EITHER THE TEXAS DEPARTMENT OF AGRICULTURE OR THE TEXAS STRUCTURAL PEST CONTROL BOARD.
   3. THE LANDSCAPE CONTRACTOR SHALL HOLD A VALID CONTRACTOR'S LICENSE ISSUED BY THE APPROPRIATE LOCAL JURISDICTION.
B. SCOPE OF WORK
   1. WORK COVERED BY THESE SECTIONS INCLUDES THE FURNISHING AND PAYMENT OF ALL MATERIALS, LABOR, SERVICES, EQUIPMENT, LICENSES, TAXES AND ANY OTHER ITEMS THAT ARE NECESSARY FOR THE EXECUTION, INSTALLATION AND COMPLETION OF ALL WORK, SPECIFIED HEREIN AND / OR SHOWN ON THE LANDSCAPE PLANS, NOTES, AND DETAILS.
   2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES AND REGULATIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION OVER SUCH WORK, INCLUDING ALL INSPECTIONS AND PERMITS REQUIRED BY FEDERAL, STATE AND LOCAL AUTHORITIES IN SUPPLY, TRANSPORTATION AND INSTALLATION OF MATERIALS.
   3. THE LANDSCAPE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITY LINES (WATER, SEWER, ELECTRICAL, TELEPHONE, GAS, CABLE, TELEVISION, ETC.) PRIOR TO THE START OF ANY WORK.

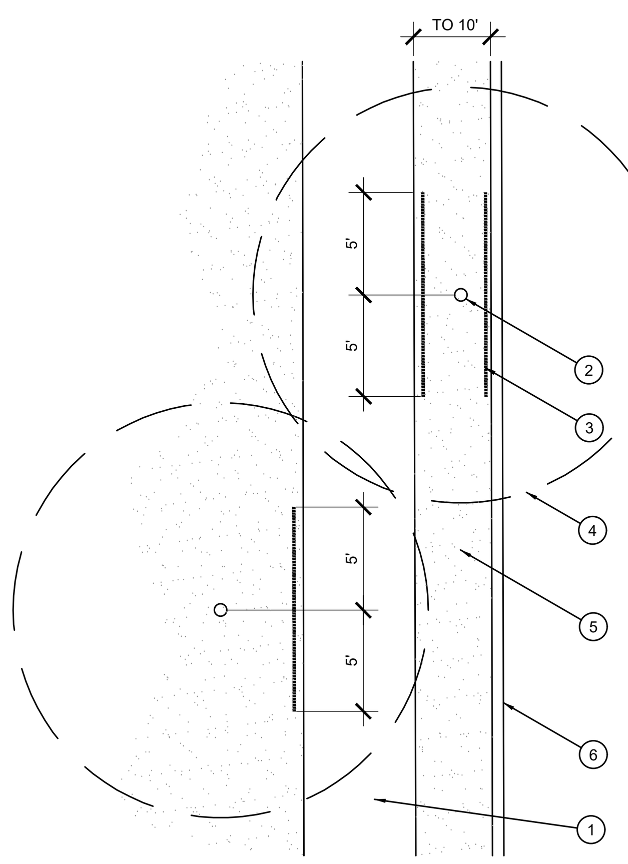
PRODUCTS

A. ALL MANUFACTURED PRODUCTS SHALL BE NEW.
B. CONTAINER AND BALLED-AND-BURLAPPED PLANTS:
   1. FURNISH NURSERY-GROWN PLANTS COMPLYING WITH ANSI Z60.1-2014. PROVIDE WELL-SHAPED, FULLY BRANCHED, HEALTHY, VIGOROUS STOCK FREE OF DISEASE, INSECTS, EGGS, LARVAE, AND DEFECTS SUCH AS KNOTS, SUN SCALD, INJURIES, ABRASIONS, AND DISFIGUREMENT. ALL PLANTS WITHIN A SPECIES SHALL HAVE SIMILAR SIZE, AND SHALL BE OF A FORM TYPICAL FOR THE SPECIES. ALL TREES SHALL BE OBTAINED FROM SOURCES WITHIN 200 MILES OF THE PROJECT SITE, AND WITH SIMILAR CLIMACTIC CONDITIONS.
   2. ROOT SYSTEMS SHALL BE HEALTHY, DENSELY BRANCHED ROOT SYSTEMS, NON-POT-BOUND, FREE FROM ENCIRCLING AND/OR GIRDLING ROOTS, AND FREE FROM ANY OTHER ROOT DEFECTS (SUCH AS J-SHAPED ROOTS).
   3. TREES MAY BE PLANTED FROM CONTAINERS OR BALLED-AND-BURLAPPED (B&B), UNLESS SPECIFIED ON THE PLANTING LEGEND. BARE-ROOT TREES ARE NOT ACCEPTABLE.
   4. ANY PLANT DEEMED UNACCEPTABLE BY THE LANDSCAPE ARCHITECT OR OWNER SHALL BE IMMEDIATELY REMOVED FROM THE SITE AND SHALL BE REPLACED WITH AN ACCEPTBLE PLANT OF LIKE TYPE AND SIZE AT THE CONTRACTOR'S OWN EXPENSE. ANY PLANTS APPEARING TO BE UNHEALTHY, EVEN IF DETERMINED TO STILL BE ALIVE, SHALL NOT BE ACCEPTED. THE LANDSCAPE ARCHITECT AND OWNER SHALL BE THE SOLE JUDGES AS TO THE ACCEPTABILITY OF PLANT MATERIAL.
   5. ALL TREES SHALL BE STANDARD IN FORM, UNLESS OTHERWISE SPECIFIED. TREES WITH CENTRAL LEADERS WILL NOT BE ACCEPTED IF LEADER IS DAMAGED OR REMOVED. PRUNE ALL DAMAGED TWIGS AFTER PLANTING.
   6. CALIPER MEASUREMENTS FOR STANDARD (SINGLE TRUNK) TREES SHALL BE AS FOLLOWS: SIX INCHES ABOVE THE ROOT FLARE FOR TREES UP TO AND INCLUDING FOUR INCHES IN CALIPER, AND TWELVE INCHES ABOVE THE ROOT FLARE FOR TREES EXCEEDING FOUR INCHES IN CALIPER.
   7. MULTI-TRUNK TREES SHALL BE MEASURED BY THEIR OVERALL HEIGHT, MEASURED FROM THE TOP OF THE ROOT BALL. WHERE CALIPER MEASUREMENTS ARE USED, THE CALIPER SHALL BE CALCULATED AS ONE-HALF OF THE SUM OF THE CALIPER OF THE THREE LARGEST TRUNKS.
   8. ANY TREE OR SHRUB SHOWN TO HAVE EXCESS SOIL PLACED ON TOP OF THE ROOT BALL, SO THAT THE ROOT FLARE HAS BEEN COMPLETELY COVERED, SHALL BE REJECTED.
C. SOD: PROVIDE WELL-ROOTED SOD OF THE VARIETY NOTED ON THE PLANS. SOD SHALL BE CUT FROM HEALTHY, MATURE TURF WITH SOIL THICKNESS OF 3/4" TO 1". EACH PALLET OF SOD SHALL BE ACCOMPANIED BY A CERTIFICATE FROM SUPPLIER STATING THE COMPOSITION OF THE SOD.
D. SEED: PROVIDE BLEND OF SPECIES AND VARIETIES AS NOTED ON THE PLANS, WITH MAXIMUM PERCENTAGES OF PURITY, GERMINATION, AND MINIMUM PERCENTAGE OF WEED SEED AS INDICATED ON PLANS. EACH BAG OF SEED SHALL BE ACCOMPANIED BY A TAG FROM THE SUPPLIER INDICATING THE COMPOSITION OF THE SEED.
E. TOPSOIL: SANDY TO CLAY LOAM TOPSOIL, FREE OF STONES LARGER THAN ½ INCH, FOREIGN MATTER, PLANTS, ROOTS, AND SEEDS.
F. COMPOST: WELL-COMPOSTED, STABLE, AND WEED-FREE ORGANIC MATTER, pH RANGE OF 5.5 TO 8; MOISTURE CONTENT 35 TO 55 PERCENT BY WEIGHT; 100 PERCENT PASSING THROUGH 3/4-INCH SIEVE; SOLUBLE SALT CONTENT OF 5 TO 10 DECISIEMENS/M; NOT EXCEEDING 0.5 PERCENT INERT CONTAMINANTS AND FREE OF SUBSTANCES TOXIC TO PLANTINGS. NO MANURE OR ANIMAL-BASED PRODUCTS SHALL BE USED.
G. PLANTING MIX FOR POTS: AN EQUAL PART MIXTURE OF TOPSOIL, SAND AND COMPOST. INCORPORATE "GELSCAPE", AS MADE BY AMEREQ, INC., (800) 832-8788, AT THE RATE OF 3 LB. PER CUBIC YARD OF PLANTING MIX.
H. FERTILIZER: GRANULAR FERTILIZER CONSISTING OF NITROGEN, PHOSPHORUS, POTASSIUM, AND OTHER NUTRIENTS IN PROPORTIONS, AMOUNTS, AND RELEASE RATES RECOMMENDED IN A SOIL REPORT FROM A QUALIFIED SOIL-TESTING AGENCY (SEE BELOW).
I. PALM MAINTENANCE SPIKES: AS MANUFACTURED BY THE LUTZ CORP, (800) 203-7740, OR APPROVED EQUAL.
J. MULCH: SIZE AND TYPE AS INDICATED ON PLANS, FREE FROM DELETERIOUS MATERIALS AND SUITABLE AS A TOP DRESSING OF TREES AND SHRUBS.
K. TREE STAKING AND GUYING
   1. STAKES: 6' LONG GREEN METAL T-POSTS.
   2. GUY AND TIE WIRE: ASTM A 641, CLASS 1, GALVANIZED-STEEL WIRE, 2-STRAND, TWISTED, 0.106 INCH DIAMETER.
   3. STRAP CHAFING GUARD: REINFORCED NYLON OR CANVAS AT LEAST 1-1/2 INCH WIDE, WITH GROMMETS TO PROTECT TREE TRUNKS FROM DAMAGE.
L. STEEL EDGING: PROFESSIONAL STEEL EDGING, 14 GAUGE THICK X 4 INCHES WIDE, FACTORY PAINTED DARK GREEN. ACCEPTABLE MANUFACTURERS INCLUDE COL-MET OR APPROVED EQUAL.
M. PRE-EMERGENT HERBICIDES: ANY GRANULAR, NON-STAINING PRE-EMERGENT HERBICIDE THAT IS LABELED FOR THE SPECIFIC ORNAMENTALS OR TURF ON WHICH IT WILL BE UTILIZED. PRE-EMERGENT HERBICIDES SHALL BE APPLIED PER THE MANUFACTURER'S LABELED RATES.

METHODS

A. SOIL PREPARATION
   1. BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE GRADE OF ALL LANDSCAPE AREAS ARE WITHIN +/-0.1' OF FINISH GRADE. THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY SHOULD ANY DISCREPANCIES EXIST.
   2. SOIL TESTING:
      a. AFTER FINISH GRADES HAVE BEEN ESTABLISHED, CONTRACTOR SHALL HAVE SOIL SAMPLES FROM THE PROJECT'S LANDSCAPE AREAS TESTED BY AN ESTABLISHED SOIL TESTING LABORATORY. EACH SAMPLE SUBMITTED TO THE LAB SHALL CONTAIN NO LESS THAN ONE QUART OF SOIL, TAKEN FROM BETWEEN THE SOIL SURFACE AND 6" DEPTH. IF NO SAMPLE LOCATIONS ARE INDICATED ON THE PLANS, THE CONTRACTOR SHALL TAKE A MINIMUM OF THREE SAMPLES FROM VARIOUS REPRESENTATIVE LOCATIONS FOR TESTING.
      b. THE CONTRACTOR SHALL HAVE THE SOIL TESTING LABORATORY PROVIDE RESULTS FOR THE FOLLOWING: SOIL TEXTURAL CLASS, GENERAL SOIL FERTILITY, pH, ORGANIC MATTER CONTENT, SALT (CEC), LIME, SODIUM ADSORPTION RATIO (SAR) AND BORON CONTENT.
      c. THE CONTRACTOR SHALL ALSO SUBMIT THE PROJECT'S PLANT LIST TO THE LABORATORY ALONG WITH THE SOIL SAMPLES.
      d. THE SOIL REPORT PRODUCED BY THE LABORATORY SHALL CONTAIN RECOMMENDATIONS FOR THE FOLLOWING (AS APPROPRIATE): SEPARATE SOIL PREPARATION AND BACKFILL MIX RECOMMENDATIONS FOR GENERAL ORNAMENTAL PLANTS, XERIC PLANTS, TURF, AND NATIVE SEED, AS WELL AS PRE-PLANT FERTILIZER APPLICATIONS AND RECOMMENDATIONS FOR ANY OTHER SOIL RELATED ISSUES. THE REPORT SHALL ALSO PROVIDE A FERTILIZER PROGRAM FOR THE ESTABLISHMENT PERIOD AND FOR LONG-TERM MAINTENANCE.
   3. THE CONTRACTOR SHALL INSTALL SOIL AMENDMENTS AND FERTILIZERS PER THE SOILS REPORT RECOMMENDATIONS. ANY CHANGE IN COST DUE TO THE SOIL REPORT RECOMMENDATIONS, EITHER INCREASE OR DECREASE, SHALL BE SUBMITTED TO THE OWNER WITH THE REPORT.
   4. FOR BIDDING PURPOSES ONLY, THE SOIL PREPARATION SHALL CONSIST OF THE FOLLOWING:
      a. TURF: INCORPORATE THE FOLLOWING AMENDMENTS INTO THE TOP 8" OF SOIL BY MEANS OF ROTOTILLING AFTER CROSS-RIPPING:
      i. NITROGEN STABILIZED ORGANIC AMENDMENT - 4 CU. YDS. PER 1,000 S.F.
      ii. PREPLANT TURF FERTILIZER (10-20-10 OR SIMILAR, SLOW RELEASE, ORGANIC) - 15 LBS PER 1,000 S.F.
      iii. "CLAY BUSTER" OR EQUAL - USE MANUFACTURER'S RECOMMENDED RATE
      b. TREES, SHRUBS, AND PERENNIALS: INCORPORATE THE FOLLOWING AMENDMENTS INTO THE TOP 8" OF SOIL BY MEANS OF ROTOTILLING AFTER CROSS-RIPPING:
      i. NITROGEN STABILIZED ORGANIC AMENDMENT - 4 CU. YDS. PER 1,000 S.F.
      ii. 12-12-12 FERTILIZER (OR SIMILAR, ORGANIC, SLOW RELEASE) - 10 LBS. PER CU. YD.
      iii. "CLAY BUSTER" OR EQUAL - USE MANUFACTURER'S RECOMMENDED RATE
      iv. IRON SULPHATE - 2 LBS. PER CU. YD.
   5. IN THE CONTEXT OF THESE PLANS, NOTES, AND SPECIFICATIONS, "FINISH GRADE" REFERS TO THE FINAL ELEVATION OF THE SOIL SURFACE (NOT TOP OF MULCH) AS INDICATED ON THE GRADING PLANS.
      a. BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE ROUGH GRADES OF ALL LANDSCAPE AREAS ARE WITHIN +/-0.1' OF FINISH GRADE. SEE SPECIFICATIONS FOR MORE DETAILED INSTRUCTION ON TURF AREA AND PLANTING BED PREPARATION.
      b. CONSTRUCT AND MAINTAIN FINISH GRADES AS SHOWN ON GRADING PLANS, AND CONSTRUCT AND MAINTAIN SLOPES AS RECOMMENDED BY THE GEOTECHNICAL REPORT. ALL LANDSCAPE AREAS SHALL HAVE POSITIVE DRAINAGE AWAY FROM STRUCTURES AT THE MINIMUM SLOPE SPECIFIED IN THE REPORT AND ON THE GRADING PLANS, AND AREAS OF POTENTIAL PONDING SHALL BE REGRADED TO BLEND IN WITH THE SURROUNDING GRADES AND ELIMINATE PONDING POTENTIAL.
      c. THE LANDSCAPE CONTRACTOR SHALL DETERMINE WHETHER OR NOT THE EXPORT OF ANY SOIL WILL BE NEEDED, TAKING INTO ACCOUNT THE ROUGH GRADE PROVIDED, THE AMOUNT OF SOIL AMENDMENTS TO BE ADDED (**BASED ON A SOIL TEST**, PER SPECIFICATIONS), AND THE FINISH GRADES TO BE ESTABLISHED.
      d. ENSURE THAT THE FINISH GRADE IN SHRUB AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 3" BELOW THE ADJACENT FINISH SURFACE, IN ORDER TO ALLOW FOR PROPER MULCH DEPTH. TAPER THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED ON THE GRADING PLANS, AT APPROXIMATELY 18" AWAY FROM THE WALKS.
      e. ENSURE THAT THE FINISH GRADE IN TURF AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 1" BELOW THE FINISH SURFACE OF THE WALKS. TAPER THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED ON THE GRADING PLANS, AT APPROXIMATELY 18" AWAY FROM THE WALKS.
      f. SHOULD ANY CONFLICTS AND/OR DISCREPANCIES ARISE BETWEEN THE GRADING PLANS, GEOTECHNICAL REPORT, THESE NOTES AND PLANS, AND ACTUAL CONDITIONS, THE CONTRACTOR SHALL IMMEDIATELY BRING SUCH ITEMS TO THE ATTENTION OF THE LANDSCAPE ARCHITECT, GENERAL CONTRACTOR, AND OWNER.
   6. ONCE SOIL PREPARATION IS COMPLETE, THE LANDSCAPE CONTRACTOR SHALL ENSURE THAT THERE ARE NO DEBRIS, TRASH, OR STONES LARGER THAN 1" REMAINING IN THE TOP 6" OF SOIL.

B. SUBMITTALS
   1. THE CONTRACTOR SHALL PROVIDE SUBMITTALS AND SAMPLES, IF REQUIRED, TO THE LANDSCAPE ARCHITECT, AND RECEIVE APPROVAL IN WRITING FOR SUCH SUBMITTALS BEFORE WORK COMMENCES.
   2. SUBMITTALS SHALL INCLUDE PHOTOS OF PLANTS WITH A RULER OR MEASURING STICK FOR SCALE, PHOTOS OR SAMPLES OF ANY REQUIRED MULCHES, AND SOIL TEST RESULTS AND PREPARATION RECOMMENDATIONS FROM THE TESTING LAB (INCLUDING COMPOST AND FERTILIZER RATES AND TYPES, AND OTHER AMENDMENTS FOR TREE/SHRUB, TURF, AND SEED AREAS AS MAY BE APPROPRIATE).
   3. SUBMITTALS SHALL ALSO INCLUDE MANUFACTURER CUT SHEETS FOR PLANTING ACCESSORIES SUCH AS TREE STAKES AND TIES, EDGING, AND LANDSCAPE FABRICS (IF ANY).
   4. WHERE MULTIPLE ITEMS ARE SHOWN ON A PAGE, THE CONTRACTOR SHALL CLEARLY INDICATE THE ITEM BEING CONSIDERED.
C. GENERAL PLANTING
   1. REMOVE ALL NURSERY TAGS AND STAKES FROM PLANTS.
   2. EXCEPT IN AREAS TO BE PLANTED WITH ORNAMENTAL GRASSES, APPLY PRE-EMERGENT HERBICIDES AT THE MANUFACTURER'S RECOMMENDED RATE.
   3. TRENCHING NEAR EXISTING TREES:
      a. CONTRACTOR SHALL NOT DISTURB ROOTS 1-1/2" AND LARGER IN DIAMETER WITHIN THE CRITICAL ROOT ZONE (CRZ) OF EXISTING TREES, AND SHALL EXERCISE ALL POSSIBLE CARE AND PRECAUTIONS TO AVOID INJURY TO TREE ROOTS, TRUNKS, AND BRANCHES. THE CRZ IS DEFINED AS A CIRCULAR AREA EXTENDING OUTWARD FROM THE TREE TRUNK, WITH A RADIUS EQUAL TO 1' FOR EVERY 1" OF TRUNK DIAMETER-AT-BREAST-HEIGHT (4.5' ABOVE THE AVERAGE GRADE AT THE TRUNK).
      b. ALL EXCAVATION WITHIN THE CRZ SHALL BE PERFORMED USING HAND TOOLS. NO MACHINE EXCAVATION OR TRENCHING OF ANY KIND SHALL BE ALLOWED WITHIN THE CRZ.
      c. ALTER ALIGNMENT OF PIPE TO AVOID TREE ROOTS 1-1/2" AND LARGER IN DIAMETER. WHERE TREE ROOTS 1-1/2" AND LARGER IN DIAMETER ARE ENCOUNTERED IN THE FIELD, TUNNEL UNDER SUCH ROOTS. WRAP EXPOSED ROOTS WITH SEVERAL LAYERS OF BURLAP AND KEEP MOIST. CLOSE ALL TRENCHES WITHIN THE CANOPY DRIP LINES WITHIN 24 HOURS.
      d. ALL SEVERED ROOTS SHALL BE HAND PRUNED WITH SHARP TOOLS AND ALLOWED TO AIR-DRY. DO NOT USE ANY SORT OF SEALERS OR WOUND PAINTS.
D. TREE PLANTING
   1. TREE PLANTING HOLES SHALL BE EXCAVATED TO MINIMUM WIDTH OF TWO TIMES THE WIDTH OF THE ROOTBALL, AND TO A DEPTH EQUAL TO THE DEPTH OF THE ROOTBALL LESS TWO TO FOUR INCHES.
   2. SCARIFY THE SIDES AND BOTTOM OF THE PLANTING HOLE PRIOR TO THE PLACEMENT OF THE TREE. REMOVE ANY GLAZING THAT MAY HAVE BEEN CAUSED DURING THE EXCAVATION OF THE HOLE.
   3. FOR CONTAINER AND BOX TREES, TO REMOVE ANY POTENTIALLY GIRDLING ROOTS AND OTHER ROOT DEFECTS, THE CONTRACTOR SHALL SHAVE A 1" LAYER OFF OF THE SIDES AND BOTTOM OF THE ROOTBALL OF ALL TREES JUST BEFORE PLACING INTO THE PLANTING PIT. DO NOT "TEASE" ROOTS OUT FROM THE ROOTBALL.
   4. INSTALL THE TREE ON UNDISTURBED SUBGRADE SO THAT THE TOP OF THE ROOTBALL IS TWO TO FOUR INCHES ABOVE THE SURROUNDING GRADE.
   5. BACKFILL THE TREE HOLE UTILIZING THE EXISTING TOPSOIL FROM ON-SITE. ROCKS LARGER THAN 1" DIA. AND ALL OTHER DEBRIS SHALL BE REMOVED FROM THE SOIL PRIOR TO THE BACKFILL. SHOULD ADDITIONAL SOIL BE REQUIRED TO ACCOMPLISH THIS TASK, USE STORED TOPSOIL FROM ON-SITE OR IMPORT ADDITIONAL TOPSOIL FROM OFF-SITE AT NO ADDITIONAL COST TO THE OWNER. IMPORTED TOPSOIL SHALL BE OF SIMILAR TEXTURAL CLASS AND COMPOSITION IN THE ON-SITE SOIL.
   6. TREES SHALL NOT BE STAKED UNLESS LOCAL CONDITIONS (SUCH AS HEAVY WINDS OR SLOPES) REQUIRE STAKES TO KEEP TREES UPRIGHT. SHOULD STAKING BE REQUIRED, THE TOTAL NUMBER OF TREE STAKES (BEYOND THE MINIMUMS LISTED BELOW) WILL BE LEFT TO THE LANDSCAPE CONTRACTOR'S DISCRETION. SHOULD ANY TREES FALL OR LEAN, THE LANDSCAPE CONTRACTOR SHALL STRAIGHTEN THE TREE, OR REPLACE IT SHOULD IT BECOME DAMAGED. TREE STAKING SHALL ADHERE TO THE FOLLOWING GUIDELINES:
      a. 1"-2" TREES — TWO STAKES PER TREE
      b. 2-1/2"-4" TREES — THREE STAKES PER TREE
      c. TREES OVER 4" CALIPER — GUY AS NEEDED
      d. MULTI-TRUNK TREES — THREE STAKES PER TREE MINIMUM, QUANTITY AND POSITIONS AS NEEDED TO STABILIZE THE TREE
      e. #15 CONT. - 24" BOX TREES — TWO STAKES PER TREE
      f. 36"-48" BOX TREES — THREE STAKES PER TREE
      g. OVER 48" BOX TREES — GUY AS NEEDED
      h. MULTI-TRUNK TREES — THREE STAKES PER TREE MINIMUM, QUANTITY AND POSITIONS AS NEEDED TO STABILIZE THE TREE
   7. UPON COMPLETION OF PLANTING, CONSTRUCT AN EARTH WATERING BASIN AROUND THE TREE. COVER THE INTERIOR OF THE TREE RING WITH THE WEED BARRIER CLOTH AND TOPDRESS WITH MULCH (TYPE AND DEPTH PER PLANS).
E. SHRUB, PERENNIAL, AND GROUNDCOVER PLANTING
   1. DIG THE PLANTING HOLES TWICE AS WIDE AND 2" LESS DEEP THAN EACH PLANT'S ROOTBALL. INSTALL THE PLANT IN THE HOLE. BACKFILL AROUND THE PLANT WITH SOIL AMENDED PER SOIL TEST RECOMMENDATIONS.
   2. INSTALL THE WEED BARRIER CLOTH, OVERLAPPING IT AT THE ENDS. UTILIZE STEEL STAPLES TO KEEP THE WEED BARRIER CLOTH IN PLACE.
   3. WHEN PLANTING IS COMPLETE, INSTALL MULCH (TYPE AND DEPTH PER PLANS) OVER ALL PLANTING BEDS, COVERING THE ENTIRE PLANTING AREA.
F. SODDING
   1. SOD VARIETY TO BE AS SPECIFIED ON THE LANDSCAPE PLAN.
   2. LAY SOD WITHIN 24 HOURS FROM THE TIME OF STRIPPING. DO NOT LAY IF THE GROUND IS FROZEN.
   3. LAY THE SOD TO FORM A SOLID MASS WITH TIGHTLY FITTED JOINTS. BUTT ENDS AND SIDES OF SOD STRIPS - DO NOT OVERLAP. STAGGER STRIPS TO OFFSET JOINTS IN ADJACENT COURSES.
   4. ROLL THE SOD TO ENSURE GOOD CONTACT OF THE SOD'S ROOT SYSTEM WITH THE SOIL UNDERNEATH.
   5. WATER THE SOD THOROUGHLY WITH A FINE SPRAY IMMEDIATELY AFTER PLANTING TO OBTAIN AT LEAST SIX INCHES OF PENETRATION INTO THE SOIL BELOW THE SOD.
G. HYDROMULCHING
   1. TURF HYDROMULCH MIX (PER 1,000 SF) SHALL BE AS FOLLOWS:
      a. WINTER MIX (OCTOBER 1 - MARCH 31)
         50# CELLULOSE FIBER MULCH
         2# UNHULLED BERMUDA SEED
         2# ANNUAL RYE SEED
         15# 15-15-15 WATER SOLUBLE FERTILIZER
      b. SUMMER MIX (APRIL 1 - SEPTEMBER 30)
         50# CELLULOSE FIBER MULCH
         2# HULLED BERMUDA SEED
         15# 15-15-15 WATER SOLUBLE FERTILIZER
   2. SEED HYDROMULCH MIX (PER 1,000 SF) SHALL BE AS FOLLOWS:
      a. GENERAL
         50# CELLULOSE FIBER MULCH
         15# 15-15-15 WATER SOLUBLE FERTILIZER
         SEED RATE PER LEGEND
H. DRILL SEEDING
   1. ALL SEED SHALL BE DRILL SEEDED AT THE RATES SHOWN ON THE PLANS, WITH A HYDROMULCH MIX APPLIED AFTER SEEDING.
   2. THE HYDROMULCH MIX (PER 1,000 SF) SHALL BE AS FOLLOWS:
         50# CELLULOSE FIBER MULCH
         15# 15-15-15 WATER SOLUBLE FERTILIZER
         4# ORGANIC BINDER
I. MULCH
   1. INSTALL MULCH TOPDRESSING, TYPE AND DEPTH PER MULCH NOTE, IN ALL PLANTING AREAS AND TREE RINGS.
   2. DO NOT INSTALL MULCH WITHIN 6" OF TREE ROOT FLARE AND WITHIN 24" OF HABITABLE STRUCTURES, EXCEPT AS MAY BE NOTED ON THESE PLANS. MULCH COVER WITHIN 6" OF CONCRETE WALKS AND CURBS SHALL NOT PROTRUDE ABOVE THE FINISH SURFACE OF THE WALKS AND CURBS. MULCH COVER WITHIN 12" OF WALLS SHALL BE AT LEAST 3" LOWER THAN THE TOP OF WALL.
J. CLEAN UP
   1. DURING LANDSCAPE PREPARATION AND PLANTING, KEEP ALL PAVEMENT CLEAN AND ALL WORK AREAS IN A NEAT, ORDERLY CONDITION.
   2. DISPOSED LEGALLY OF ALL EXCAVATED MATERIALS OFF THE PROJECT SITE.
K. INSPECTION AND ACCEPTANCE
   1. UPON COMPLETION OF THE WORK, THE LANDSCAPE CONTRACTOR SHALL PROVIDE THE SITE CLEAN, FREE OF DEBRIS AND TRASH, AND SUITABLE FOR USE AS INTENDED. THE LANDSCAPE CONTRACTOR SHALL THEN REQUEST AN INSPECTION BY THE OWNER TO DETERMINE FINAL ACCEPTABILITY.
   2. WHEN THE INSPECTED PLANTING WORK DOES NOT COMPLY WITH THE CONTRACT DOCUMENTS, THE LANDSCAPE CONTRACTOR SHALL REPLACE AND/OR REPAIR THE REJECTED WORK TO THE OWNER'S SATISFACTION WITHIN 24 HOURS.
   3. THE LANDSCAPE MAINTENANCE PERIOD WILL NOT COMMENCE UNTIL THE LANDSCAPE WORK HAS BEEN RE-INSPECTED BY THE OWNER AND FOUND TO BE ACCEPTABLE. AT THAT TIME, A WRITTEN NOTICE OF FINAL ACCEPTANCE WILL BE ISSUED BY THE OWNER, AND THE MAINTENANCE AND GUARANTEE PERIODS WILL COMMENCE.
L. LANDSCAPE MAINTENANCE
   1. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL WORK SHOWN ON THESE PLANS FOR 90 DAYS BEYOND FINAL ACCEPTANCE OF ALL LANDSCAPE WORK BY THE OWNER. LANDSCAPE MAINTENANCE SHALL INCLUDE WEEKLY SITE VISITS FOR THE FOLLOWING ACTIONS (AS APPROPRIATE): PROPER PRUNING, RESTAKING OF TREES, RESETTING OF PLANTS THAT HAVE SETTLED, MOWING AND AERATION OF LAWNS, WEEDING, RESEEDING AREAS WHICH HAVE NOT GERMINATED WELL, TREATING FOR INSECTS AND DISEASES,REPLACEMENT OF MULCH, REMOVAL OF LITTER, REPAIRS TO THE IRRIGATION SYSTEM DUE TO FAULTY PARTS AND/OR WORKMANSHIP, AND THE APPROPRIATE WATERING OF ALL PLANTINGS. THE LANDSCAPE CONTRACTOR SHALL MAINTAIN THE IRRIGATION SYSTEM IN PROPER WORKING ORDER, WITH SCHEDULING ADJUSTMENTS BY SEASON TO MAXIMIZE WATER CONSERVATION.
   2. SHOULD SEEDED AND/OR SODDED AREAS NOT BE COVERED BY AN AUTOMATIC IRRIGATION SYSTEM, THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING THESE AREAS AND OBTAINING A FULL, HEALTHY STAND OF PLANTS AT NO ADDITIONAL COST TO THE OWNER.
   3. TO ACHIEVE FINAL ACCEPTANCE AT THE END OF THE MAINTENANCE PERIOD, ALL OF THE FOLLOWING CONDITIONS MUST OCCUR:
      a. THE LANDSCAPE SHALL SHOW ACTIVE, HEALTHY GROWTH (WITH EXCEPTIONS MADE FOR SEASONAL DORMANCY). ALL PLANTS NOT MEETING THIS CONDITION SHALL BE REJECTED AND REPLACED BY HEALTHY PLANT MATERIAL PRIOR TO FINAL ACCEPTANCE.
      b. ALL HARDSCAPE SHALL BE CLEANED PRIOR TO FINAL ACCEPTANCE.
      c. SODDED AREAS MUST BE ACTIVELY GROWING AND MUST REACH A MINIMUM HEIGHT OF 1 1/2 INCHES BEFORE FIRST MOWING. HYDROMULCHED AREAS SHALL SHOW ACTIVE, HEALTHY GROWTH. BARE AREAS LARGER THAN TWELVE SQUARE INCHES MUST BE RESODDED OR RESEEDED (AS APPROPRIATE) PRIOR TO FINAL ACCEPTANCE. ALL SODDED TURF SHALL BE NEATLY MOWED.
M. WARRANTY PERIOD, PLANT GUARANTEE AND REPLACEMENTS
   1. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL TREES, SHRUBS, PERENNIALS, SOD, SEEDED/HYDROMULCHED AREAS, AND IRRIGATION SYSTEMS FOR A PERIOD OF ONE YEAR FROM THE DATE OF THE OWNER'S FINAL ACCEPTANCE (90 DAYS FOR ANNUAL PLANTS). THE CONTRACTOR SHALL REPLACE, AT HIS OWN EXPENSE AND TO THE SATISFACTION OF THE OWNER, ANY PLANTS WHICH DIE IN THAT TIME, OR REPAIR ANY PORTIONS OF THE IRRIGATION SYSTEM WHICH OPERATE IMPROPERLY.
   2. AFTER THE INITIAL MAINTENANCE PERIOD AND DURING THE GUARANTEE PERIOD, THE LANDSCAPE CONTRACTOR SHALL ONLY BE RESPONSIBLE FOR REPLACEMENT OF PLANTS WHEN PLANT DEATH CANNOT BE ATTRIBUTED DIRECTLY TO OVERWATERING OR OTHER DAMAGE BY HUMAN ACTIONS.
N. PROVIDE A MINIMUM OF (2) COPIES OF RECORD DRAWINGS TO THE OWNER UPON COMPLETION OF WORK. A RECORD DRAWING IS A RECORD OF ALL CHANGES THAT OCCURRED IN THE FIELD AND THAT ARE DOCUMENTED THROUGH CHANGE ORDERS, ADDENDA, OR CONTRACTOR/CONSULTANT DRAWING MARKUPS.

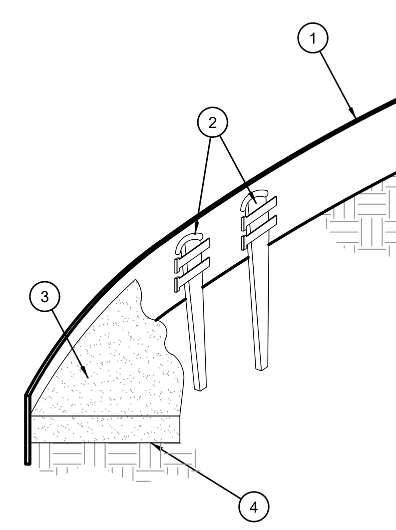


1. TYPICAL WALKWAY OR PAVING
2. TREE TRUNK
3. LINEAR ROOT BARRIER MATERIAL. SEE PLANTING NOTES FOR TYPE AND MANUFACTURER. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
4. TREE CANOPY
5. TYPICAL PLANTING AREA
6. TYPICAL CURB AND GUTTER

NOTES:
1) INSTALL ROOT BARRIERS NEAR ALL NEWLY-PLANTED TREES THAT ARE LOCATED WITHIN FIVE (5) FEET OF PAVING OR CURBS.
2) BARRIERS SHALL BE LOCATED IMMEDIATELY ADJACENT TO HARDSCAPE. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR USE ROOT BARRIERS OF A TYPE THAT COMPLETELY ENCIRCLE THE ROOTBALL.

A ROOT BARRIER - PLAN VIEW

SCALE: NOT TO SCALE

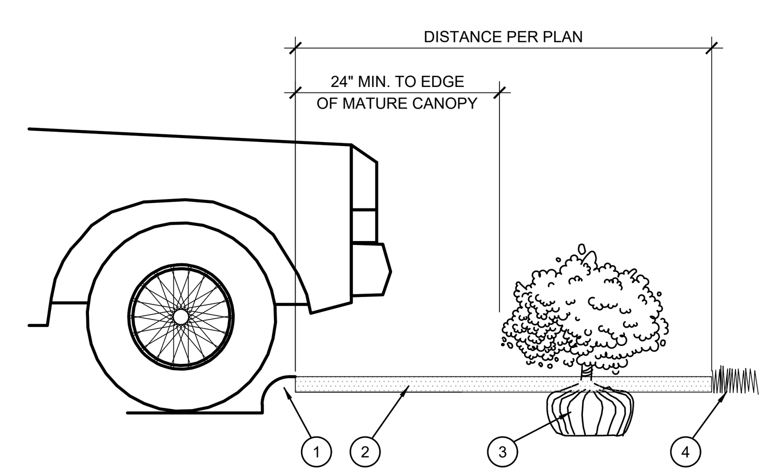


1. ROLLED-TOP STEEL EDGING PER PLANS.
2. TAPERED STEEL STAKES.
3. MULCH, TYPE AND DEPTH PER PLANS.
4. FINISH GRADE.

NOTES:
1) INSTALL EDGING SO THAT STAKES WILL BE ON INSIDE OF PLANTING BED.
2) BOTTOM OF EDGING SHALL BE BURIED A MINIMUM OF 1" BELOW FINISH GRADE.
3) TOP OF MULCH SHALL BE 1" LOWER THAN TOP OF EDGING.

B STEEL EDGING

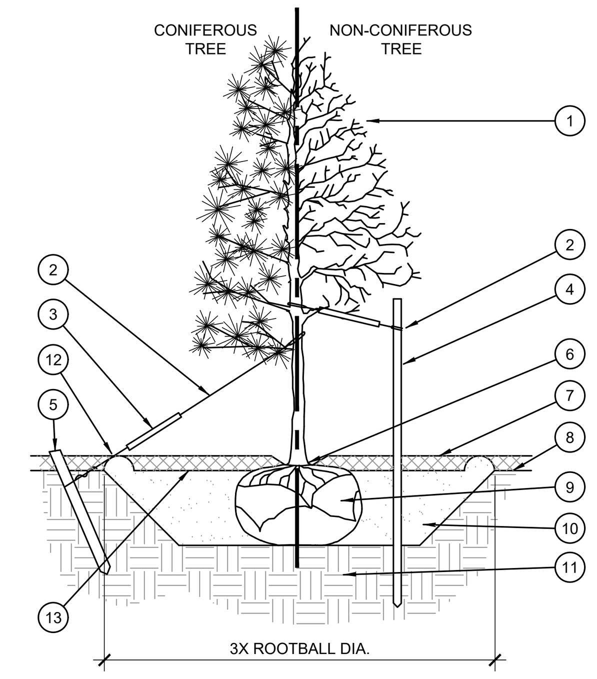
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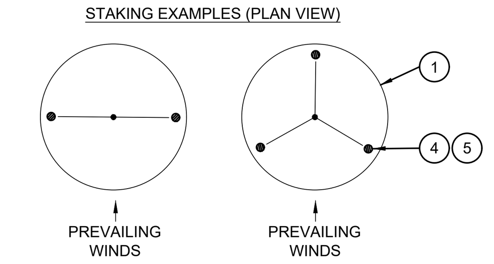


1. CURB.
2. MULCH LAYER.
3. PLANT.
4. TURF (WHERE SHOWN ON PLAN).

C PLANTING AT PARKING AREA

SCALE: NOT TO SCALE



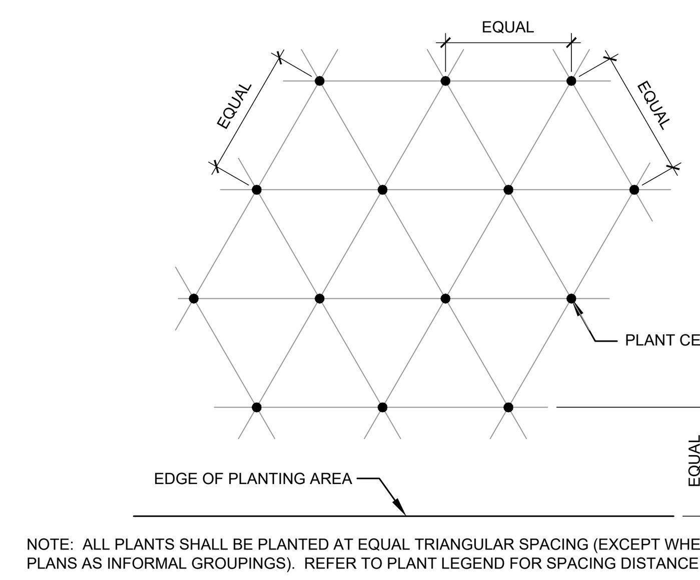


1. TREE CANOPY.
2. CINCH-TIES (24" BOX/2" CAL. TREES AND SMALLER) OR 12 GAUGE GALVANIZED WIRE WITH NYLON TREE STRAPS AT TREE AND STAKE (36" BOX/2.5" CAL. TREES AND LARGER). SECURE TIES OR STRAPS TO TRUNK JUST ABOVE LOWEST MAJOR BRANCHES.
3. 24" X 3/4" P.V.C. MARKERS OVER WIRES.
4. GREEN STEEL T-POSTS. EXTEND POSTS 12" MIN. INTO UNDISTURBED SOIL.
5. PRESSURE-TREATED WOOD DEADMAN, TWO PER TREE (MIN.). BURY OUTSIDE OF PLANTING PIT AND 18" MIN. INTO UNDISTURBED SOIL.
6. TRUNK FLARE.
7. MULCH, TYPE AND DEPTH PER PLANS. DO NOT PLACE MULCH WITHIN 6" OF TRUNK.
8. FINISH GRADE.
9. ROOT BALL.
10. BACKFILL. AMEND AND FERTILIZE ONLY AS RECOMMENDED IN SOIL FERTILITY ANALYSIS.
11. UNDISTURBED NATIVE SOIL.
12. 4" HIGH EARTHEN WATERING BASIN.
13. FINISH GRADE.

NOTES:
1. SCARIFY SIDES OF PLANTING PIT PRIOR TO SETTING TREE.
2. REMOVE EXCESS SOIL APPLIED ON TOP OF THE ROOTBALL THAT COVERS THE ROOT FLARE. THE PLANTING HOLE DEPTH SHALL BE SUCH THAT THE ROOTBALL RESTS ON UNDISTURBED SOIL, AND THE ROOT FLARE IS 2"-4" ABOVE FINISH GRADE.
3. FOR B&B TREES, CUT OFF BOTTOM 1/3 OF WIRE BASKET BEFORE PLACING TREE IN HOLE, CUT OFF AND REMOVE REMAINDER OF BASKET AFTER TREE IS SET IN HOLE, REMOVE ALL NYLON TIES, TWINE, ROPE, AND OTHER PACKING MATERIAL. REMOVE AS MUCH BURLAP FROM AROUND ROOTBALL AS IS PRACTICAL.
4. REMOVE ALL NURSERY STAKES AFTER PLANTING.
5. FOR TREES 36" BOX/2.5" CAL. AND LARGER, USE THREE STAKES OR DEADMEN (AS APPROPRIATE), SPACED EVENLY AROUND TREE.
6. STAKING SHALL BE TIGHT ENOUGH TO PREVENT TRUNK FROM BENDING, BUT LOOSE ENOUGH TO ALLOW SOME TRUNK MOVEMENT IN WIND.

D TREE PLANTING

SCALE: NOT TO SCALE



NOTE: ALL PLANTS SHALL BE PLANTED AT EQUAL TRIANGULAR SPACING (EXCEPT WHERE SHOWN ON PLANS AS INFORMAL GROUPINGS). REFER TO PLANT LEGEND FOR SPACING DISTANCE BETWEEN PLANTS.

1) STEP 1: DETERMINE TOTAL PLANTS FOR THE AREA WITH THE FOLLOWING FORMULA:
TOTAL AREA / AREA DIVIDER = TOTAL PLANTS

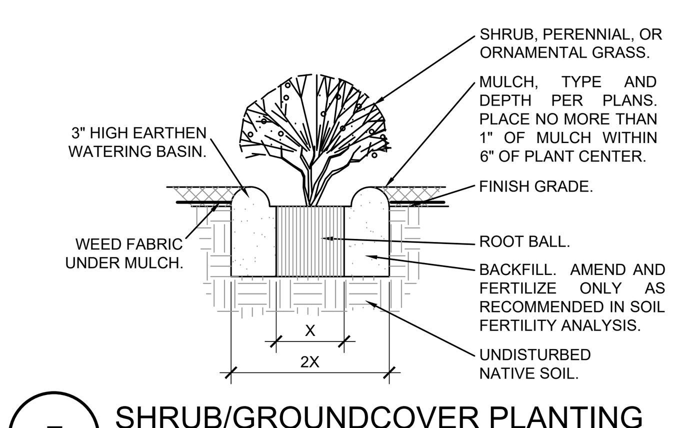
PLANT SPACING	AREA DIVIDER	PLANT SPACING	AREA DIVIDER
6"	0.22	18"	1.95
8"	0.39	24"	3.46
10"	0.60	30"	5.41
12"	0.87	36"	7.79
15"	1.35		

2) STEP 2: SUBTRACT THE ROW (S) OF PLANTS THAT WOULD OCCUR AT THE EDGE OF THE PLANTED AREA WITH THE FOLLOWING FORMULA:
TOTAL PERIMETER LENGTH / PLANT SPACING = TOTAL PLANT SUBTRACTION

EXAMPLE: PLANTS AT 18" O.C. IN 100 SF PLANTING AREA, 40 LF PERIMETER
STEP 1: 100 SF/1.95 = 51 PLANTS
STEP 2: 51 PLANTS - (40 LF / 1.95 = 21 PLANTS) = 30 PLANTS TOTAL

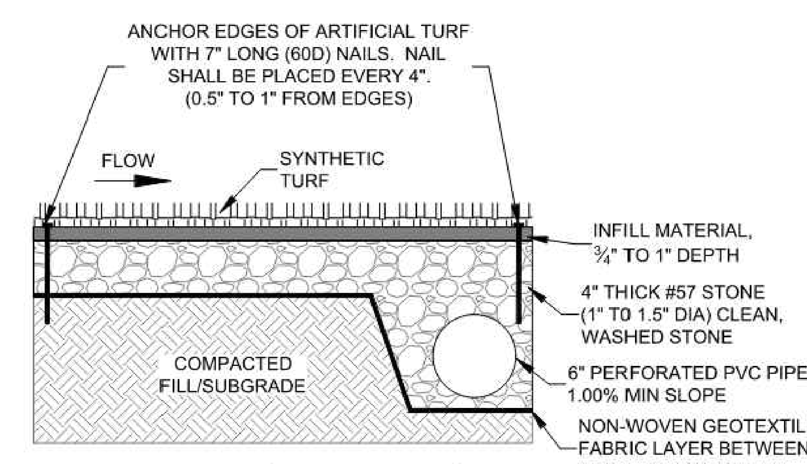
E PLANT SPACING

SCALE: NTS



F SHRUB/GROUNDCOVER PLANTING

SCALE: NTS



ARTIFICIAL TURF (PROVIDED BY OWNER)
NOT TO SCALE

CROSS SLOPE - SEE CIVIL GRADING PLAN

NOTE:

THE MANUFACTURE OF THE ARTIFICIAL TURF IS NOT KNOWN, AS MATERIAL IS BEING RECYCLED FROM PREVIOUS PROJECT. CONTRACTOR/OWNER SHALL CONFIRM MANUFACTURE AND ADJUST SECTION AND SPECIFICATIONS OUTRLINED IN THIS DETAIL TO MATCH SUPPLIED ARTIFICIAL MANUFACTURE SPECIFICATION.

G SYNTHETIC TURF OVER AGGREGATE BASE

Scale: NTS

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JON J. PULLIAM
3824
STATE OF TEXAS
10/16/2026

Project Name
HAYS COUNTY ESD NO. 4
FIRE STATION NO. 42

LANDSCAPE SPECIFICATIONS AND DETAILS

	Date	Comment
1	6/2/26	ISSUE FOR PERMIT

Project Number	
Date	10/16/2026
Drawn By	JP
Checked By	CS

LP-2