

PROPOSED CIVIL CONSTRUCTION PLANS
FOR
ROCKWALL FRIENDSHIP BAPTIST CHURCH

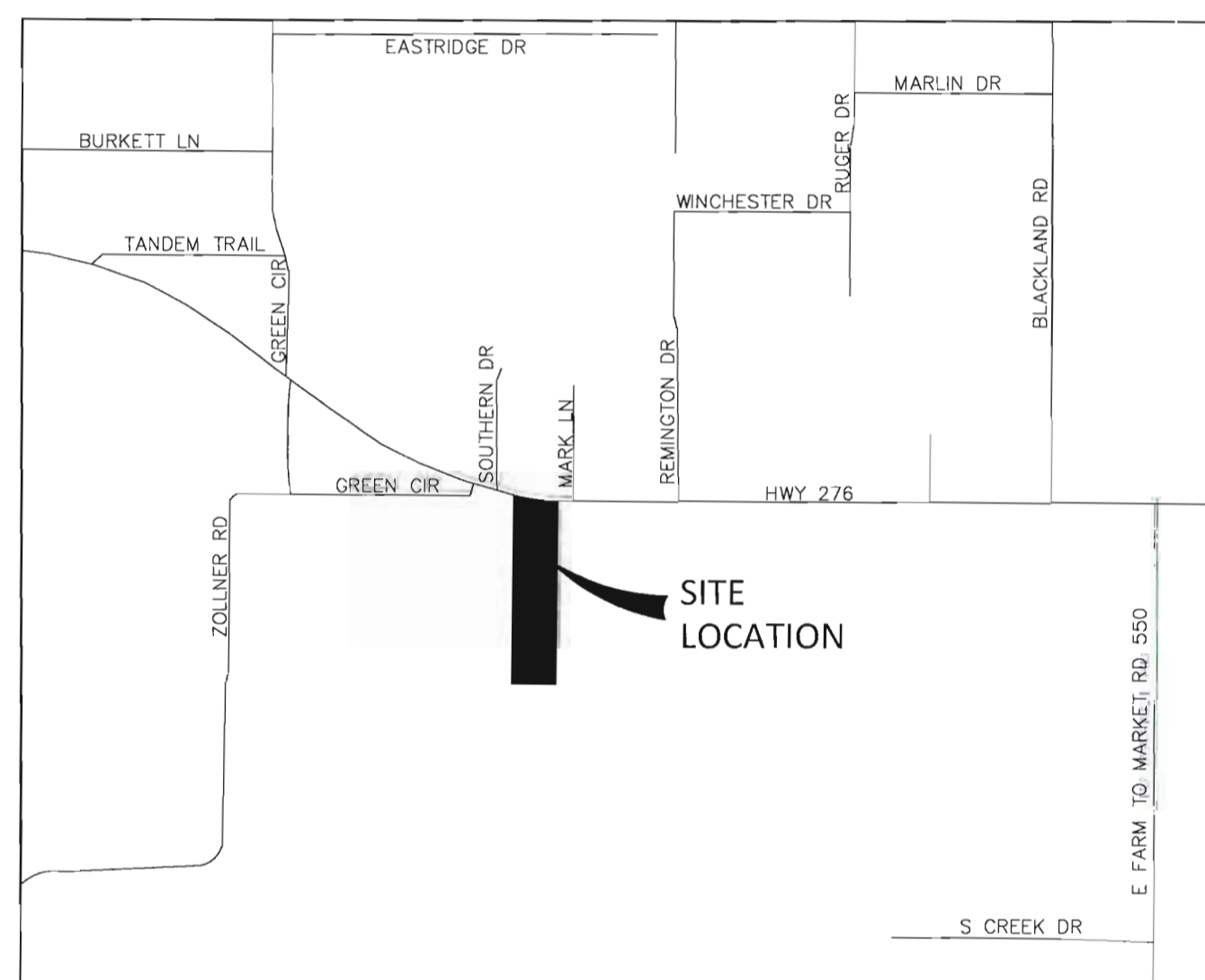
GRADING, PAVING, DRAINAGE, AND UTILITIES

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

NOTES:

1. THE BOUNDARY LINES AND TOPOGRAPHY FOR THIS PROJECT ARE BASED ON A SURVEY PREPARED BY AJ BEDFORD GROUP, INC DATED 05/30/2017. THE CONTRACTOR SHALL VERIFY THE EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND SHALL IMMEDIATELY NOTIFY THE ENGINEER AND THE CLIENT IN WRITING OF ANY DIFFERING CONDITIONS. THE ENGINEER HAS NOT VERIFIED THIS SURVEY AND IS NOT RESPONSIBLE FOR THE ACCURACY OF THE SURVEY BOUNDARY AND/OR TOPOGRAPHY.
2. THE ENGINEER IS NOT RESPONSIBLE FOR THE SAFETY OF ANY PARTY AT OR ON THE CONSTRUCTION SITE. SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND ANY OTHER PERSON OR ENTITY PERFORMING WORK OR SERVICES. NEITHER THE OWNER NOR ENGINEER ASSUMES ANY RESPONSIBILITY FOR THE JOB SITE SAFETY OF PERSONS ENGAGED IN THE WORK OR THE MEANS OR METHODS OF CONSTRUCTION.
3. CITY OF ROCKWALL CONTROL MONUMENTS:
 - A. COR-19
BRASS DISK STAMPED "CITY OF ROCKWALL SURVEY MONUMENT" AT THE SOUTHWEST CORNER OF THE INTERSECTION OF FM 550 AND WESTVIEW DRIVE AT THE WEST END OF A CONCRETE HEADWALL.
 - B. COR-20
BRASS DISK STAMPED "CITY OF ROCKWALL SURVEY MONUMENT" AT THE SOUTHEAST CORNER OF THE INTERSECTION OF SH 276 AND FM 551 AT THE NORTH END OF A CONCRETE HEADWALL.


FIRST SUBMITTAL: 04-28-2021
SECOND SUBMITTAL: 05-27-2021



LOCATION MAP

N.T.S.

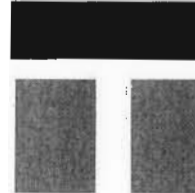
ROCKWALL FRIENDSHIP BAPTIST CHURCH
MR. SHANON THOMAS
SENIOR PASTOR
5561 STATE HWY 276
ROYSE CITY, TX 75189
972-772-7520


 **TOMDEN ENGINEERING, L.L.P.**
5815 MEADOWCREST
DALLAS, TX 75230
(214) 679 - 1679
FIRM No. 19244
Thomas P. Jones, P.E. tjones@tomden.com

SHEET NUMBER	SHEET TITLE
C0	COVER - INDEX FINAL PLAT (2 SHEETS)
SP1	BOUNDARY AND TOPOGRAPHIC SURVEY APPROVED SITE PLAN
C1	DIMENSIONAL CONTROL AND PAVING PLAN
C2	GRADING PLAN
C3	WATER PLAN
C4	DRAINAGE AREA MAP
C5	DETENTION POND DETAILS AND CALCULATIONS
C6	EROSION CONTROL PLAN
C7	EROSION CONTROL DETAILS
C8	TYP. SECTION, GENERAL NOTES, AND DETAILS CITY GENERAL CONSTRUCTION NOTES 1 OF 2 CITY GENERAL CONSTRUCTION NOTES 2 OF 2
L1.1	LANDSCAPE PLAN
L1.2	LANDSCAPE DETAILS

CONSTRUCTION RECORD DOCUMENTATION

EACH REVISED SHEET IN THIS CONSTRUCTION RECORD SET SUPPLEMENTS THE ORIGINAL SHEETS AND SHALL BE USED FOR THE CONSTRUCTION OF THE REVISED INFORMATION ONLY. BINKLEY BARFIELD SHALL BE RESPONSIBLE FOR ALL OTHER DESIGN INFORMATION SHOWN.

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Thomas P. Jones, P.E. tjones@tomden.com


THOMAS P. JONES, P.E. DATE: 3.28.2023

THOMAS P. JONES, P.E.

DATE



**Know what's below.
Call before you dig.**

DATE	REVISION	BY

TOMDEN ENGINEERING, L.L.P.
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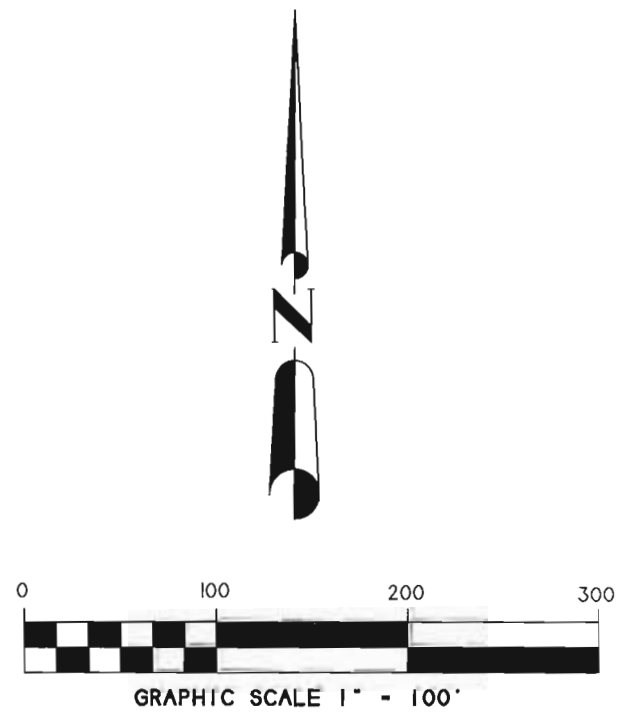
ROCKWALL FRIENDSHIP BAPTIST CHURCH
ROCKWALL, TEXAS
COVER-INDEX



PROJ MGR: TPJ
PROJ ASSOC: TPJ
DRAWN BY: MJD
DATE: 03/13/2021

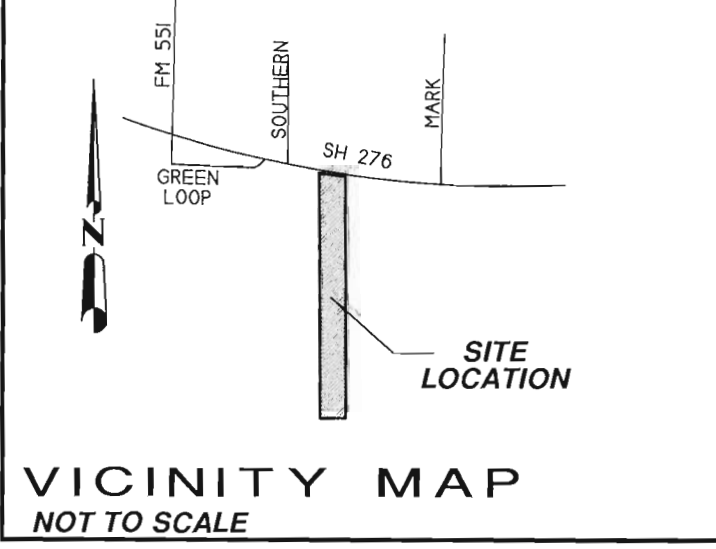
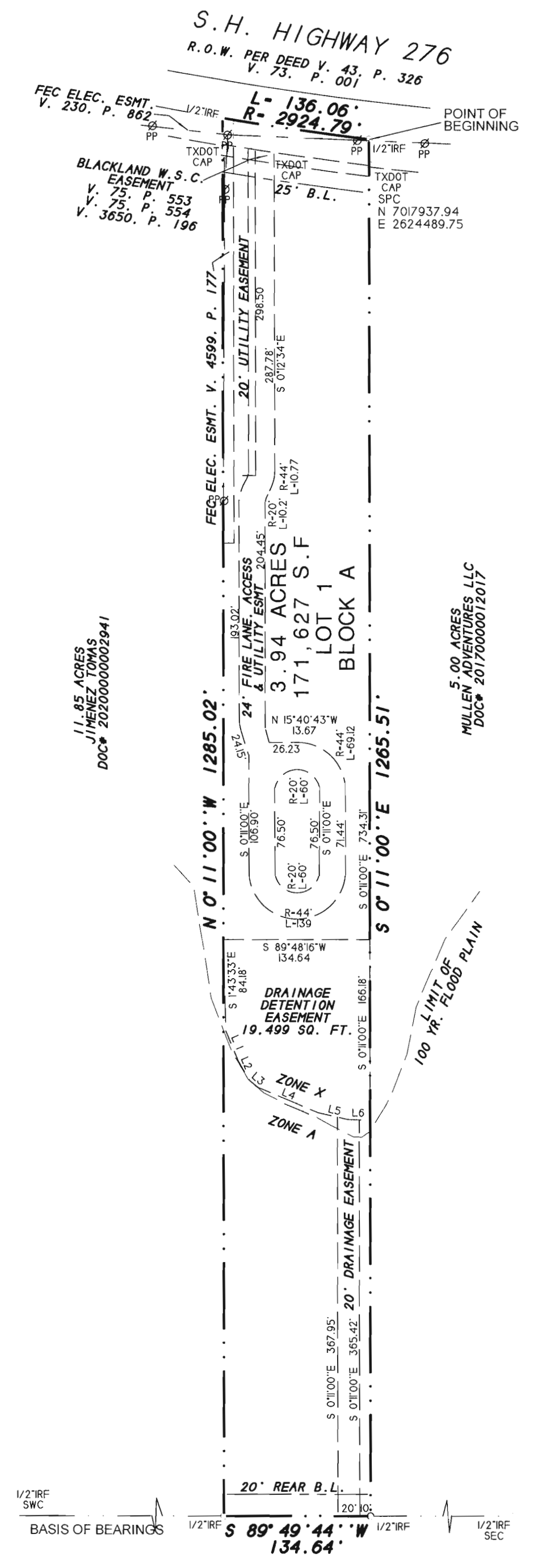
SHEET
C0

Plotfile: 3/13/2023 9:26 AM Dwg Name: P:\111009_Tomden\Projects\Support\0216_Rockwall\Rockwall\Drawings\Cover.dwg Plotted By: Carl Christoffel



EASEMENT LINE TABLE

LINE	BEARING	DISTANCE
L1	02°38'46"	29.11'
L2	09°46'42"	21.20'
L3	00°41'47"	10.46'
L4	07°25'09"	59.75'
L5	07°34'31"	27.72'
L6	07°52'15"	20.58'



- NOTES
- 1) According to F.E.M.A. Flood Insurance Rate Map, Community Panel No. 48397C0065 L dated Sept. 26, 2008, this property lies in Zones A & X. Part of this property does appear to lie within a 100-year flood plain.
 - 2) BEARING SOURCE: BASED ON MONUMENTS FOUND ON SOUTH BOUNDARY LINE OF PARENT TRACT PER RECORDED DEED IN VOL. 0084, PG. 266, R.P.R.C.T..
 - 3) ALL 1/2" IRS ARE CAPPED WITH YELLOW PLASTIC CAPS "R.S.C.I. RPLS 5034."
 - 4) Property owner shall be responsible for maintenance, repair, and replacement of drainage and detention systems on site.

FINAL PLAT
**ROCKWALL FRIENDSHIP
 BAPTIST CHURCH ADDITION**
 LOT 1, BLOCK A

CONTAINING A TOTAL OF
 3.94 ACRES/171,627 S.F.
 (1 LOT)

J.H. BAILEY SURVEY, A-22
 CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

SHEET 1 OF 2

OWNER:
 ROCKWALL FRIENDSHIP BAPTIST CHURCH
 5651 SH 276
 ROCKWALL, TEXAS 75032

SYMBOL LEGEND

[Symbol]	1/2" IRS
[Symbol]	20" UTILITY EASEMENT
[Symbol]	20" DRAINAGE EASEMENT
[Symbol]	20" REAR B.L.
[Symbol]	ZONE X
[Symbol]	ZONE A
[Symbol]	POINT OF BEGINNING
[Symbol]	BLACKLAND W. S.C. EASEMENT
[Symbol]	FED. ELEC. ESMT.
[Symbol]	DRAINAGE DETENTION EASEMENT
[Symbol]	LIMIT OF FLOOD PLAIN

H.D. Fetty Land Surveyor, LLC
 Firm Registration no. 10150900
 6770 FM 1565 ROYSE CITY, TX 75189 972-635-2255 PHONE tracy@hdfetty.com

CITY CASE NO. P2021-

OWNER'S CERTIFICATE
(Public Dedication)

STATE OF TEXAS
COUNTY OF ROCKWALL

WHEREAS ROCKWALL FRIENDSHIP BAPTIST CHURCH, BEING THE OWNER OF A TRACT OF land in the County of Rockwall, State of Texas, said tract being described as follows:

All that certain lot, tract or parcel of land situated in the J.H. BAILEY SURVEY, ABSTRACT NO. 22, Rockwall County, Texas, and being a part of that 47.10 acres tract of land as described in a Warranty deed from Billie Marie Peoples to Michael L. Peoples and Donna B. Peoples, dated February 2, 1998 and being recorded in Volume 1084, Page 266 of the Real Property Records of Rockwall County, Texas, and being more particularly described as follows:

BEGINNING at a 1/2" iron rod found for corner, said point being N. 89 deg. 50 min. 18 sec. W. 223.09 feet and along a curve to the right having a central angle of 66 deg. 34 min. 59 sec. a radius of 2324.79 feet, a chord of N. 86 deg. 32 min. 49 sec. W. 335.85 feet, and an arc distance of 336.03 feet from a 3/8" iron rod found at the Northeast corner of the above cited tract, said point being in the South right-of-way line of State Highway 276;

THENCE S. 00 deg. 11 min. 00 sec. E. parallel to the East line of said tract, a distance of 1265.51 feet to a 1/2" iron rod found with yellow plastic cap stamped "R.S.C.I. RPLS 5034" in the South line of said tract;

THENCE S. 89 deg. 49 min. 44 sec. W. along the South line of said tract, a distance of 134.64 feet to a 1/2" iron rod found with yellow plastic cap stamped "R.S.C.I. RPLS 5034" for corner;

THENCE N. 00 deg. 11 min. 00 sec. W. a distance of 1285.02 feet to a 1/2" iron rod found with yellow plastic cap stamped "R.S.C.I. RPLS 5034" for corner in the South right-of-way line of State Highway 276 and in the North boundary line of said 47.10 acres tract;

THENCE in a Southeasterly direction along a curve to the left having a central angle of 02 deg. 39 min. 56 sec. a radius of 2924.79 feet, a chord of S. 91 deg. 55 min. 22 sec. E. 136.05 feet along said right-of-way line an arc distance of 136.06 feet to the POINT OF BEGINNING and containing 171,628 square feet or 3.94 acres of land.

NOW, THEREFORE, KNOW ALL MEN BY THESE PRESENTS:

STATE OF TEXAS
COUNTY OF ROCKWALL

I, the undersigned owner of the land shown on this plat, and designated herein as ROCKWALL FRIENDSHIP BAPTIST CHURCH ADDITION, LOT 1, BLOCK A, an Addition to the City of Rockwall, Texas, and whose name is subscribed hereto, hereby dedicate to the use of the public forever all streets, alleys, parks, water courses, drains, easements and public places thereon shown on the purpose and consideration therein expressed. I further certify that all other parties who have a mortgage or lien interest in ROCKWALL FRIENDSHIP BAPTIST CHURCH ADDITION, LOT 1, BLOCK A, have been notified and signed this plat.

I understand and do hereby reserve the easement strips shown on this plat for the purposes stated and for the mutual use and accommodation of all utilities desiring to use or using same.

I also understand the following:

- No buildings shall be constructed or placed upon, over, or across the utility easements as described herein.
 - Any public utility shall have the right to remove and keep removed all or part of any buildings, fences, trees, shrubs, or other growths or improvements which in any way endanger or interfere with construction, maintenance or efficiency of their respective system on any of these easement strips, and any public utility shall at all times have the right of ingress or egress to, from and upon the said easement strips for purpose of construction, reconstruction, inspecting, patrolling, maintaining, and either adding to or removing all or part of their respective system without the necessity of, at any time, procuring the permission of anyone.
 - The City of Rockwall will not be responsible for any claims of any nature resulting from or occasioned by the establishment of grade of streets in the subdivision.
 - The developer and subdivision engineer shall bear total responsibility for storm drain improvements.
 - The developer shall be responsible for the necessary facilities to provide drainage patterns and drainage controls such that properties within the drainage area are not adversely affected by storm drainage from the development.
 - No house dwelling unit, or other structure shall be constructed on any lot in this addition by the owner or any other person until the developer and/or owner has complied with all requirements of the Subdivision Regulations of the City of Rockwall regarding improvements with respect to the entire block on the street or streets on which property abuts, including the actual installation of streets with the required base and paving, curb and gutter, water and sewer, drainage structures, storm structures, storm sewers, and alleys, all according to the specifications of the City of Rockwall; or
- Until an escrow deposit, sufficient to pay for the cost of such improvements, as determined by the city's engineer and/or city administrator, computed on a private commercial rate basis, has been made with the city secretary, accompanied by an agreement signed by the developer and/or owner, authorizing the city to make such improvements at prevailing private commercial rates, or have the same made by a contractor and pay for the same out of the escrow deposit, should the developer and/or owner fail or refuse to install the required improvements within the time stated in such written agreement, but in no case shall the City be obligated to make such improvements itself. Such deposit may be used by the owner and/or developer as progress payments as the work progresses in making such improvements by making certified requisitions to the city secretary, supported by evidence of work done, or
- Until the developer and/or owner files a corporate surety bond with the city secretary in a sum equal to the cost of such improvements for the designated area, guaranteeing the installation thereof within the time stated in the bond, which time shall be fixed by the city council of the City of Rockwall.

7) Property owner shall be responsible for maintenance, repair, and replacement of drainage and detention systems on site.

I further acknowledge that the dedications and/or exaction's made herein are proportional to the impact of the subdivision upon the public services required in order that the development will comport with the present and future growth needs of the City. I, my successors and assigns hereby waive any claim, damage, or cause of action that I may have as a result of the dedication of exaction's made herein.

_____ for ROCKWALL FRIENDSHIP BAPTIST CHURCH

STATE OF TEXAS
COUNTY OF ROCKWALL

Before me, the undersigned authority, on this day personally appeared _____ known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purpose and consideration therein stated.

Given upon my hand and seal of office this _____ day of _____, _____

Notary Public in and for the State of Texas My Commission Expires: _____

NOTE: It shall be the policy of the City of Rockwall to withhold issuing building permits until all streets, water, sewer and storm drainage systems have been accepted by the City. The approval of a plat by the City does not constitute any representation, assurance or guarantee that any building within such plat shall be approved, authorized or permit therefore issued, as required under Ordinance 83-54.

SURVEYOR'S CERTIFICATE

NOW, THEREFORE KNOW ALL MEN BY THESE PRESENTS:

THAT I, Harold D. Fetty, III, R.P.L.S. No. 5034, do hereby certify that I prepared this plat from an actual and accurate survey of the land, and that the corner monuments shown thereon were properly placed under my personal supervision.



Harold D. Fetty, III
Registered Professional Land Surveyor No. 5034

RECOMMENDED FOR FINAL APPROVAL

Planning and Zoning Commission Date _____

APPROVED

I hereby certify that the above and foregoing plat of ROCKWALL FRIENDSHIP BAPTIST CHURCH ADDITION, LOT 1, BLOCK A, an addition to the City of Rockwall, Texas, was approved by the City Council of the City of Rockwall on the _____ day of _____, _____.

This approval shall be invalid unless the approved plat for such addition is recorded in the office of the County Clerk of Rockwall, County, Texas, within one hundred eighty (180) days from said date of final approval.

Said addition shall be subject to all the requirements of the Subdivision Regulations of the City of Rockwall.

WITNESS OUR HANDS, this _____ day of _____, _____.

Mayor, City of Rockwall _____ City Secretary City of Rockwall _____

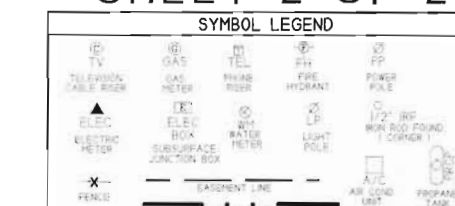
City Engineer _____ Date _____

FINAL PLAT
ROCKWALL FRIENDSHIP
BAPTIST CHURCH ADDITION
LOT 1, BLOCK A

CONTAINING A TOTAL OF
3.94 ACRES/171,627 S.F.
(1 LOT)

J.H. BAILEY SURVEY, A-22
CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

SHEET 2 OF 2



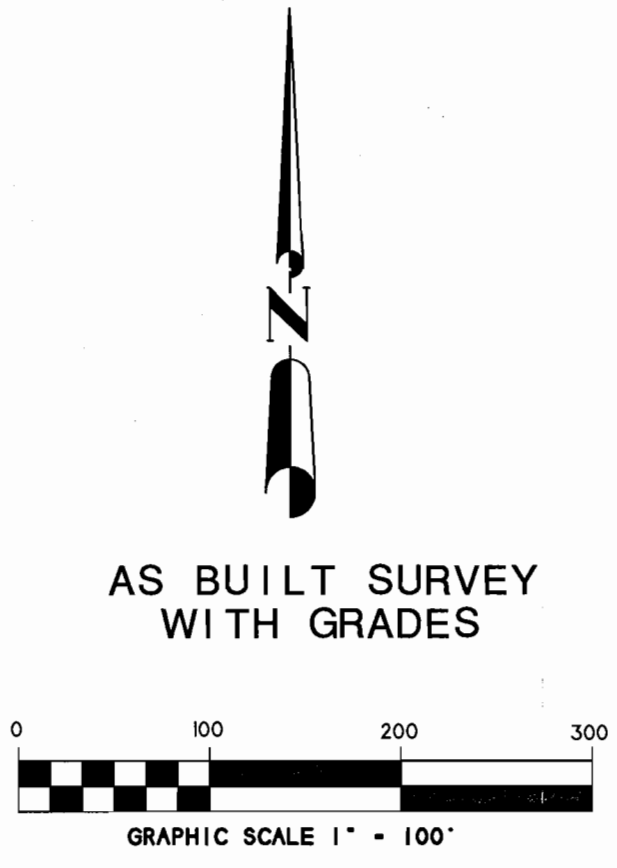
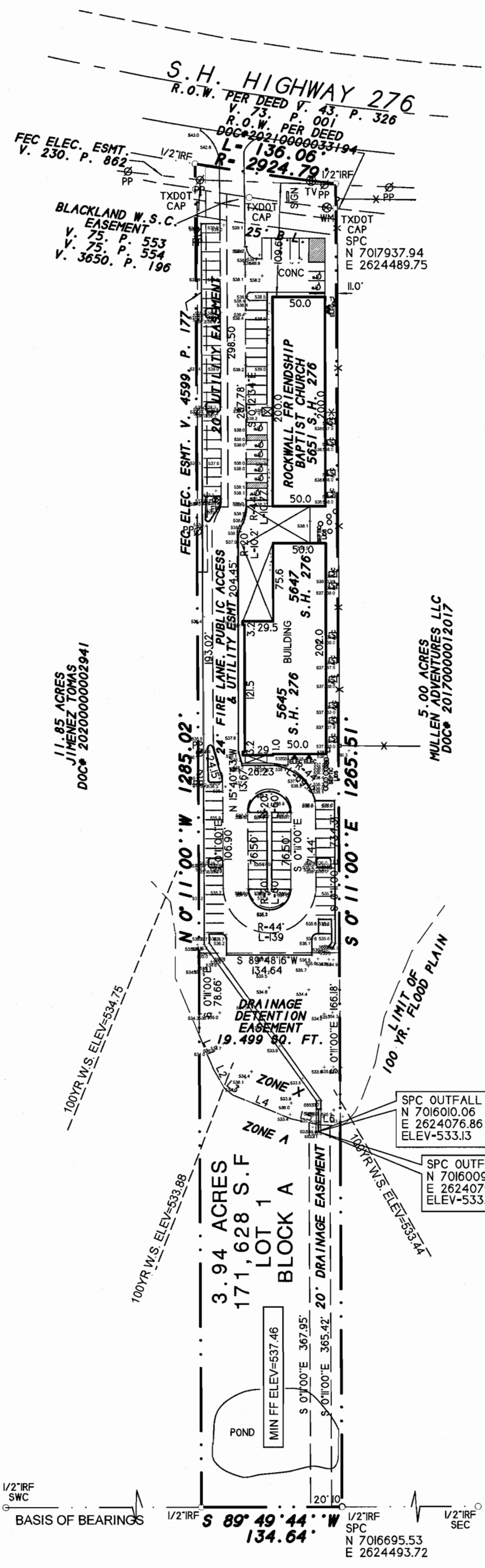
OWNER:
ROCKWALL FRIENDSHIP BAPTIST CHURCH
5651 SH 276
R

H.D. Fetty Land Surveyor, LLC

6770 FM 1565 ROYSE CITY, TX 75189 972-635-2255 PHONE tracy@hdfetty.com

SURVEY DATE NOVEMBER 16, 2020
SCALE 1" = 100' FILE # 2020/98729-SRP
CLIENT RBBC GF # NONE

CITY CASE NO. P2021-



EASEMENT LINE TABLE

LINE	BEARING	DISTANCE
L.1	0° 00' 00" E	35.00'
L.2	25° 46' 42" E	12.25'
L.3	50° 41' 47" E	10.46'
L.4	67° 25' 09" E	65.75'
L.5	77° 34' 31" E	27.72'
L.6	87° 52' 15" E	20.58'

DESCRIPTION
 Being Lot 1, Block A, ROCKWALL FRIENDSHIP BAPTIST CHURCH ADDITION, an Addition to the City of Rockwall, Texas, according to the Plat thereof recorded in Document no. 2021000026896 of the Plat Records of Rockwall County, Texas.

- NOTES
- 1) According to F.E.M.A. Flood Insurance Rate Map, Community Panel No. 48397C0065 L dated Sept. 26, 2008, this property lies in Zones A & X. Part of this property does appear to lie within a 100-year flood plain.
 - 2) BEARING SOURCE: BASED ON MONUMENTS FOUND ON SOUTH BOUNDARY LINE OF PARENT TRACT PER RECORDED DEED IN VOL. 0084, PG. 266, R.P.R.C.T.I..
 - 3) ALL 1/2" IRS ARE CAPPED WITH YELLOW PLASTIC CAPS "R.S.C.I. RPLS 5034."

SURVEYOR'S CERTIFICATE
 I, Harold D. Fetty III, Registered Professional Land Surveyor No. 5034, do hereby certify that the above plat of the property surveyed for Rockwall Friendship Baptist Church at 5651 State Highway 276, Rockwall County, Texas, is the result of a careful collection of the best evidence available to me and my opinion is based on the facts as found at the time of survey. This survey meets the requirements of the Minimum Standards of Practice as approved and published by the Texas Board of Professional Land Surveying, effective September 1, 1982 and subsequent revisions, and the same was surveyed under my supervision on the ground this the 2nd day of March, 2023.

Harold D. Fetty III, R.P.L.S. No. 5034

SYMBOL LEGEND	
[Symbol]	CONCRETE CURB
[Symbol]	ELECTRIC
[Symbol]	IRON PIPE
[Symbol]	WOOD PIPE
[Symbol]	WATER MAIN
[Symbol]	SEWER MAIN
[Symbol]	PROPERTY LINE
[Symbol]	ADJACENT PROPERTY
[Symbol]	ADJACENT ROAD
[Symbol]	ADJACENT FLOOD PLAIN

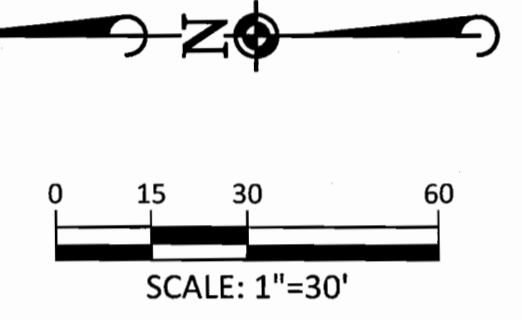
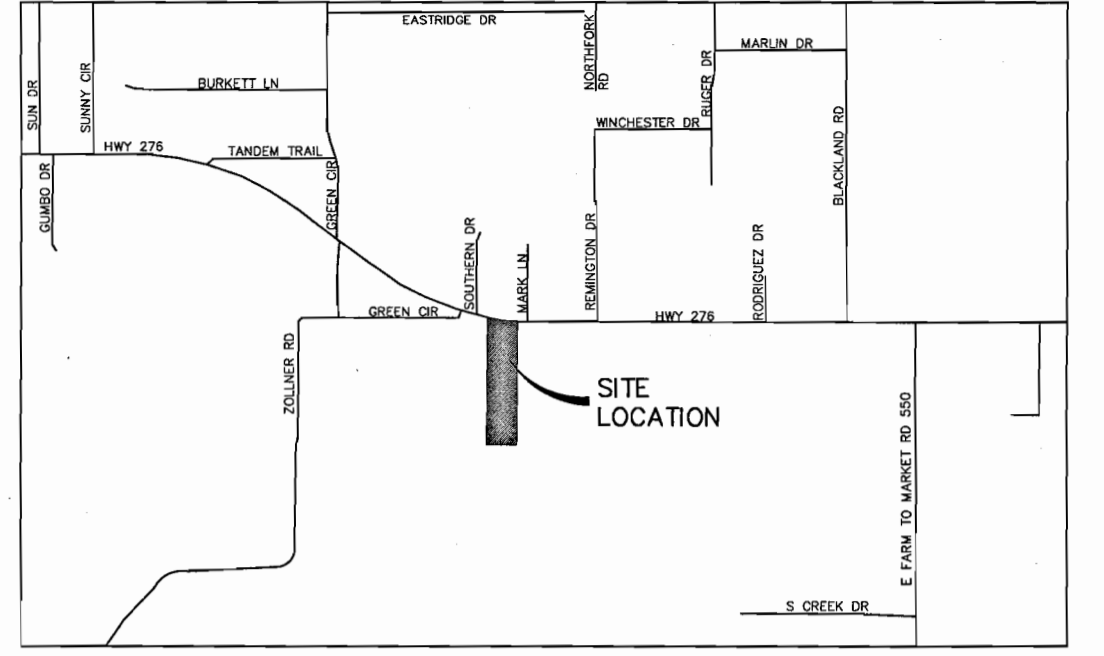
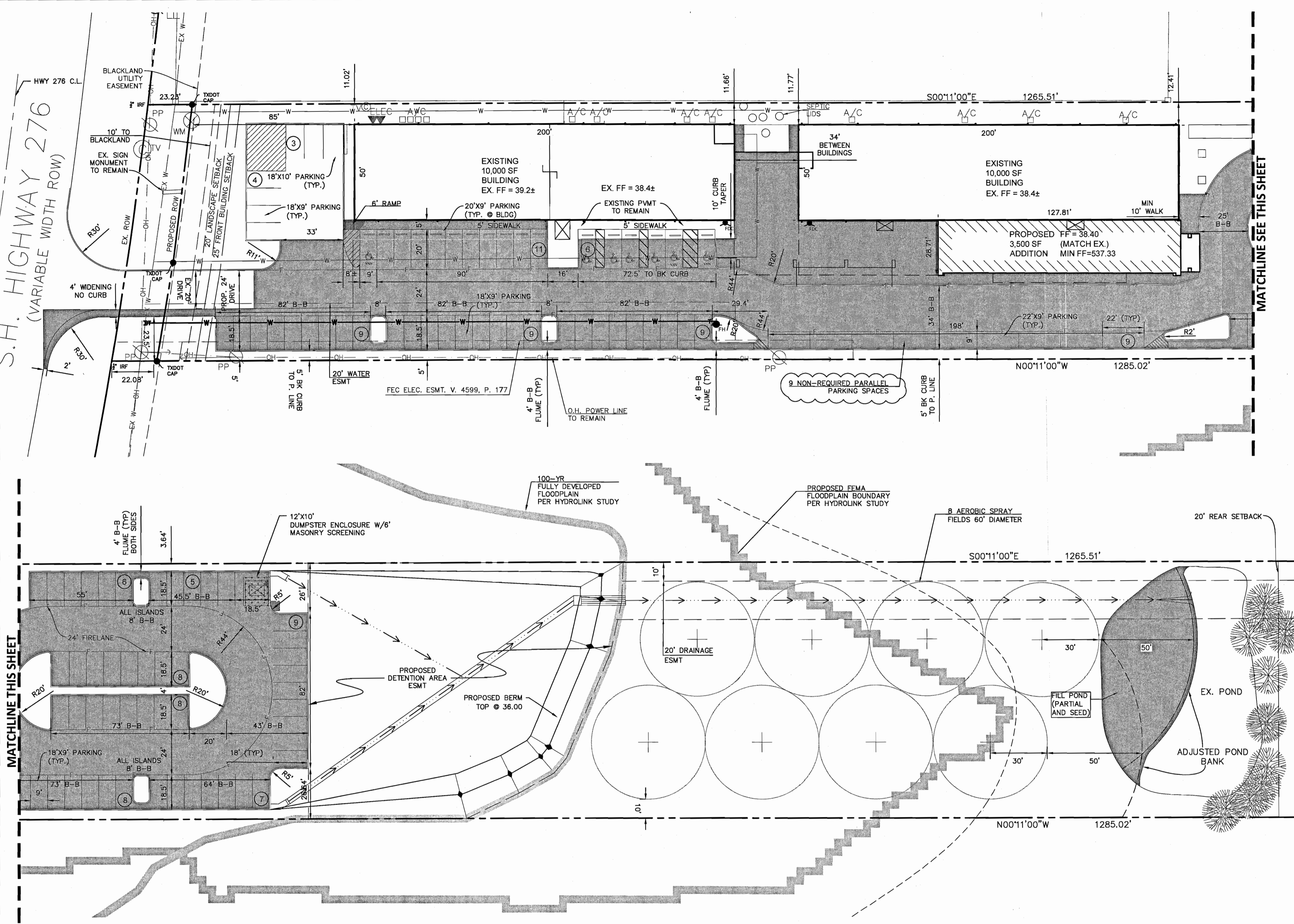
SURVEY DATE: MARCH 2, 2023
 SCALE: 1" = 100' FILE # 2020/98729-SF
 CLIENT: RFBC OF # NONE

H.D. Fetty Land Surveyor, LLC
 Firm Registration no. 10150900
 6770 FM 1565 ROYSE CITY, TX 75189 972-635-2255 PHONE tracy@hdfetty.com

SURVEY ACCEPTED BY:

DATE	_____
DATE	_____

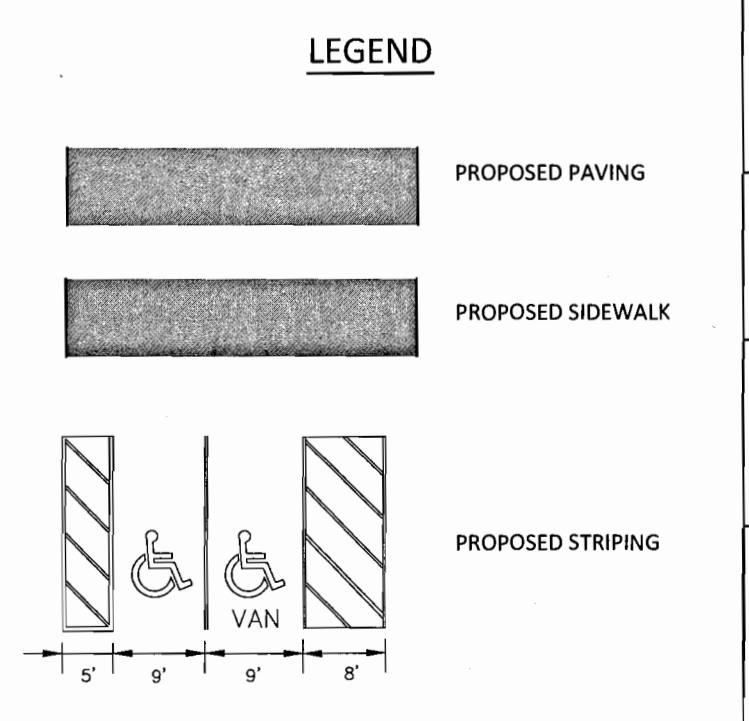
Draw Name: P:\111009 Tom Jones Support\026 Friendship Baptist Church.dwg(Exp)... Plan Set Drawings\Plan Sets\SITE PLANS.dwg Plotted By: Carl Crisfield



PROJECT INFORMATION	
NAME OF PROJECT	ROCKWALL FRIENDSHIP BAPTIST CHURCH
PROPOSED LAND USE	CHURCH
GENERAL	PROPOSED
ZONING DISTRICT OVERLAY	COMMERCIAL (C) SH 276 OVERLAY
OVERALL SITE	
TOTAL SITE AREA	3.94 AC. (171,626 SF)
IMPERVIOUS SURFACE	51.5% (2.03 AC)
PERVIOUS SURFACE AREA	48.5% (1.91 AC)
BUILDING	
ADDITIONAL SQUARE FOOTAGE	3,500 S.F.
TOTAL SQUARE FOOTAGE	23,500 S.F.
TOTAL GROSS INTENSITY (FAR)	0.14 OR 14%
SANCTUARY SEATING	400 SEATS
PROPERTY DEVELOPMENT REGULATIONS	
MAXIMUM LOT COVERAGE	60%
MINIMUM LOT AREA	10,000 SF
MINIMUM LOT WIDTH	60
MINIMUM LOT DEPTH	100
SETBACKS	
FRONT	25
REAR	20
SIDE	0
STRUCTURE HEIGHT	240' MAX
PARKING & ACCESS	
REQUIRED	
TOTAL PARKING (400 SEATS @ 1 PER 4 SEATS)	100
PROVIDED	
TOTAL PARKING	111
NO. OF HANDICAP (REGULAR)	4
NO. OF HANDICAP (VAN)	2

- NOTES:
- ALL DIMENSIONS ARE TO BACK OF CURB, FACE OF BUILDING, AND EDGE OF PAVEMENT.
 - FIRE HYDRANTS TO BE LOCATED 5 FT FROM BACK OF CURB PER CITY STANDARDS.
 - LANDSCAPE SETBACKS PER SH 276 OVERLAY.
 - ALL NEW PAVING TO BE 5", 6" AND 7" CONCRETE
 - PAD OR GROUND MOUNTED UTILITY EQUIPMENT MUST BE SCREENED FROM ADJACENT PROPERTIES AND STREETS. (SUBSECTION 0.1.05. C, OF ARTICLE 05)
 - THERE WILL BE NO ROOF MOUNTED UTILITY EQUIPMENT.
 - DUMPSTER MUST BE LOCATED WITHIN A MINIMUM 12'x10' ENCLOSURE. THE ENCLOSURE MUST BE 6' IN HEIGHT AND BE CONSTRUCTED OF MASONRY MATERIAL THAT MATCHES THE PRIMARY BUILDING. THE ENCLOSURE SHOULD ALSO INCORPORATE A SELF-LATCHING OPAQUE GATE. (SUBSECTION 0.105. B, OF ARTICLE 05)

CASE NO: SP 2021-008



SITE PLAN
3.94 ACRES

ROCKWALL FRIENDSHIP BAPTIST CHURCH

VOL. 1084, PG. 266 D.R.R.C.T.

OWNER/DEVELOPER ROCKWALL FRIENDSHIP BAPTIST CHURCH MR. SHANON THOMAS, SENIOR PASTOR 5651 STATE HWY 276 ROYSE CITY, TX 75189 972-772-7520	SURVEYOR H.D. FETTY LAND SURVEYOR, LLC TRACY FETTY 6770 FM 1565 ROYSE CITY, TEXAS 75189 972-635-2255
---	---

SITE PLAN SIGNATURE BLOCK

APPROVED: I HEREBY CERTIFY THAT THE ABOVE AND FOREGOING SITE PLAN FOR A DEVELOPMENT IN THE CITY OF ROCKWALL, TEXAS, WAS APPROVED BY THE PLANNING & ZONING COMMISSION OF THE CITY OF ROCKWALL ON THE _____ DAY OF _____, 2021

WITNESS OUR HANDS, THIS _____ DAY OF _____

PLANNING & ZONING COMMISSION, CHAIRMAN DIRECTOR OF PLANNING & ZONING

DATE	07/27/2021	REMOVED TREE WELL
REVISIONS		

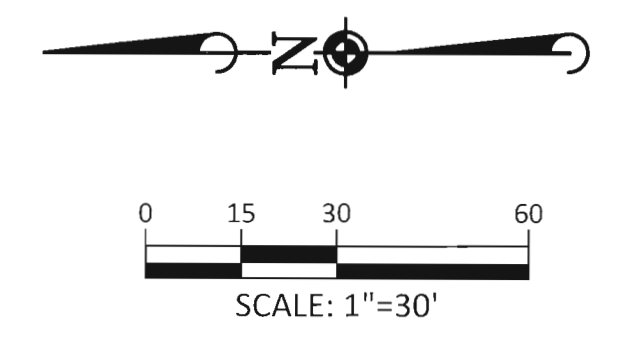
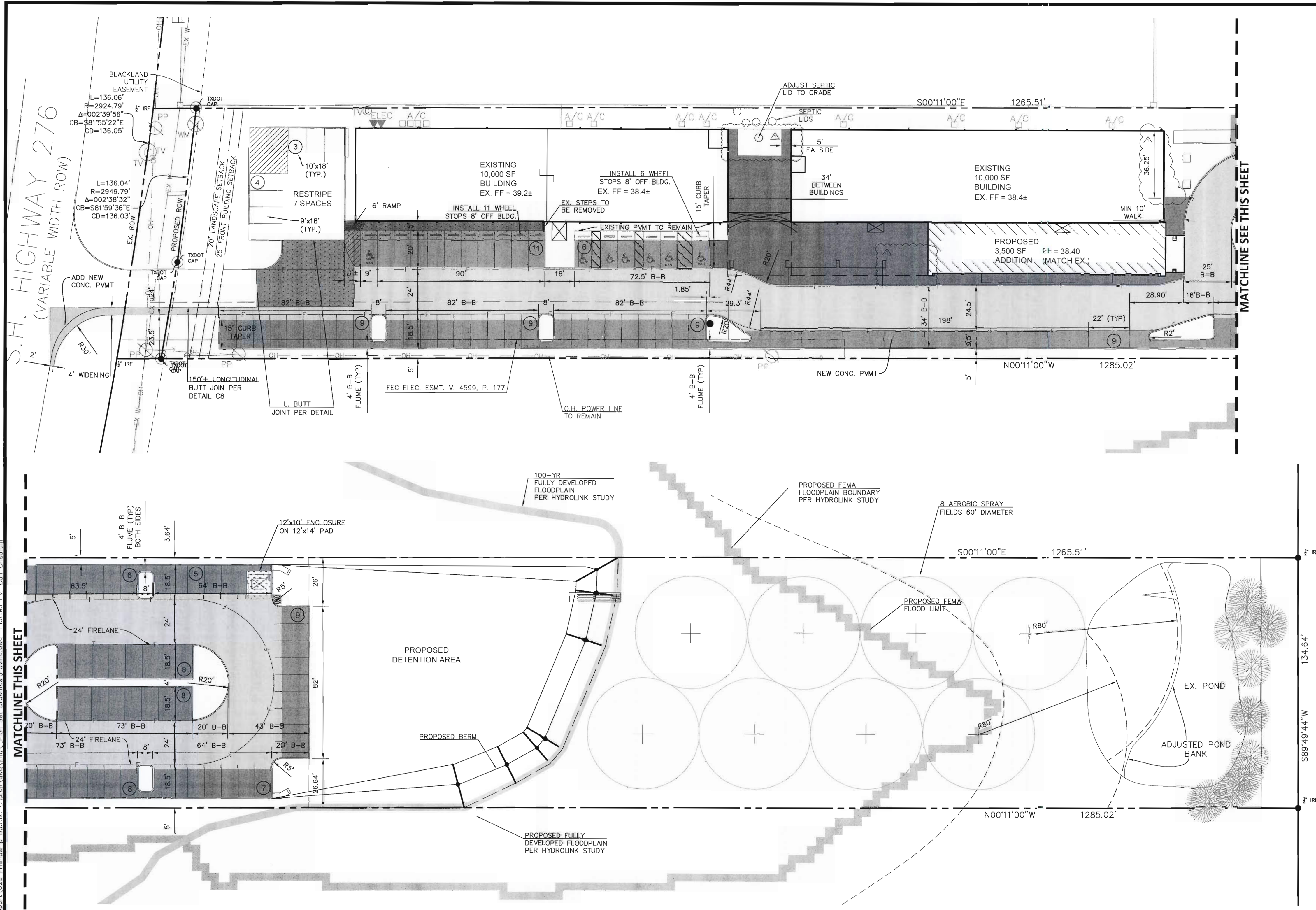
TOMDEN ENGINEERING, L.L.P.
5815 MEADOWCREST
DALLAS, TX 75230
(214) 679-1679
FIRM No. 19244
tjones@tomden.com

ROCKWALL FRIENDSHIP BAPTIST CHURCH
ROCKWALL, TEXAS
APPROVED SITE PLAN

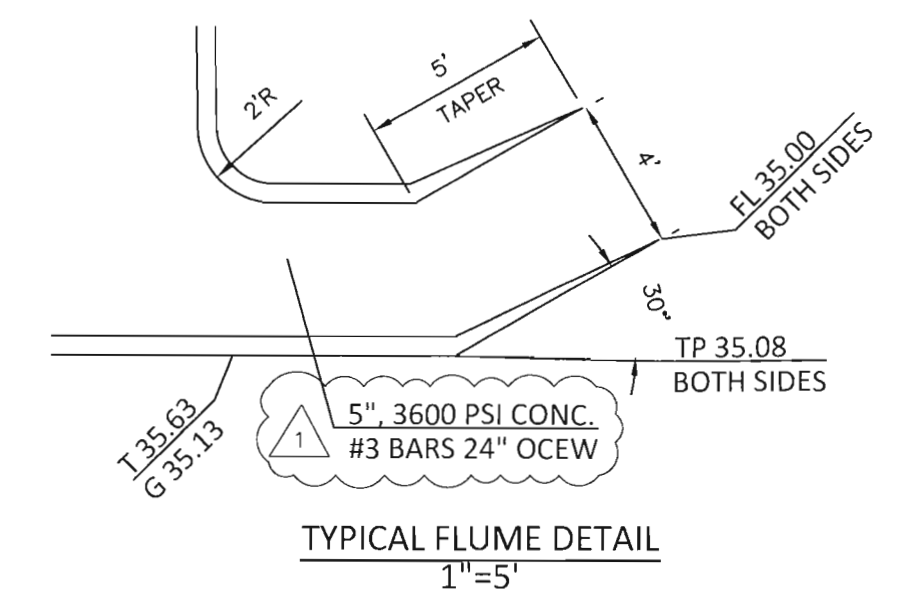
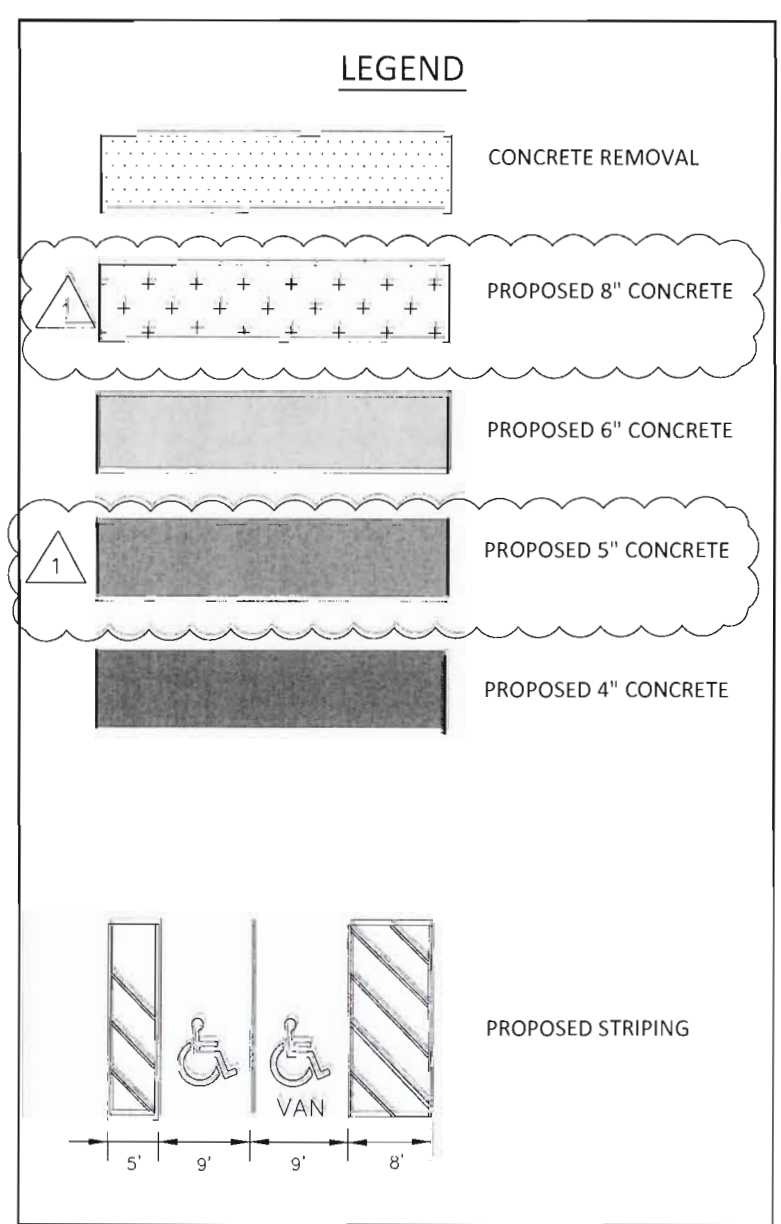
PROJ. MGR.: TPJ
PROJ. ASSOC.: TPJ
DRAWN BY: MJD
DATE: 03/13/2021

SHEET
SP1

Plotted: 3/13/2023 9:27 AM Dwg Name: P:\11.009 Tom Jones Support\026 Friendship Baptist Church\dwg\End_Plan_Set_Drawings\Paving.dwg Plotted By: Carl Crisofulli



- NOTES**
- BOUNDARY & TOPO PER H.D. Fetty Land Surveyor, LLC DATED 8/31/2020 AND 11/16/20.
 - ALL DIMENSIONS ARE TO BACK OF CURB, EDGE OF PAVEMENT AND FACE OF BUILDING.
 - ALL RADII NOT SHOWN ARE 2' MEASURED AT BACK OF CURB.



CONSTRUCTION RECORD DOCUMENTATION

EACH REVISED SHEET IN THIS CONSTRUCTION RECORD SET SUPPLEMENTS THE ORIGINAL SHEETS AND SHALL BE USED FOR THE CONSTRUCTION OF THE REVISED INFORMATION ONLY. BINKLEY BARFIELD SHALL BE RESPONSIBLE FOR ALL OTHER DESIGN INFORMATION SHOWN.

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 DALLAS, TX 75230
 (214) 679 - 1679
 FIRM No. 19244
 Thomas P. Jones, P.E. tjones@tomden.com

3.28.2023
DATE

DATE	07/27/2021	ADD'D	6" & 5" PAVING/ADJUSTED FLATWORK	TPJ
REVISIONS				

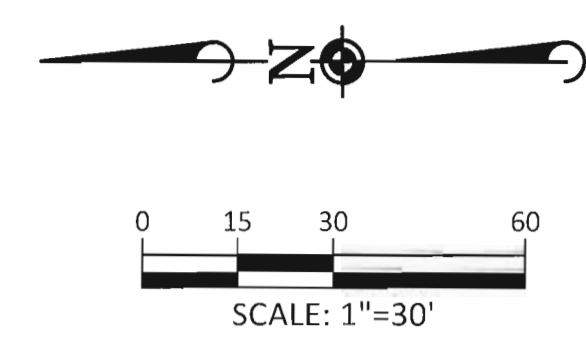
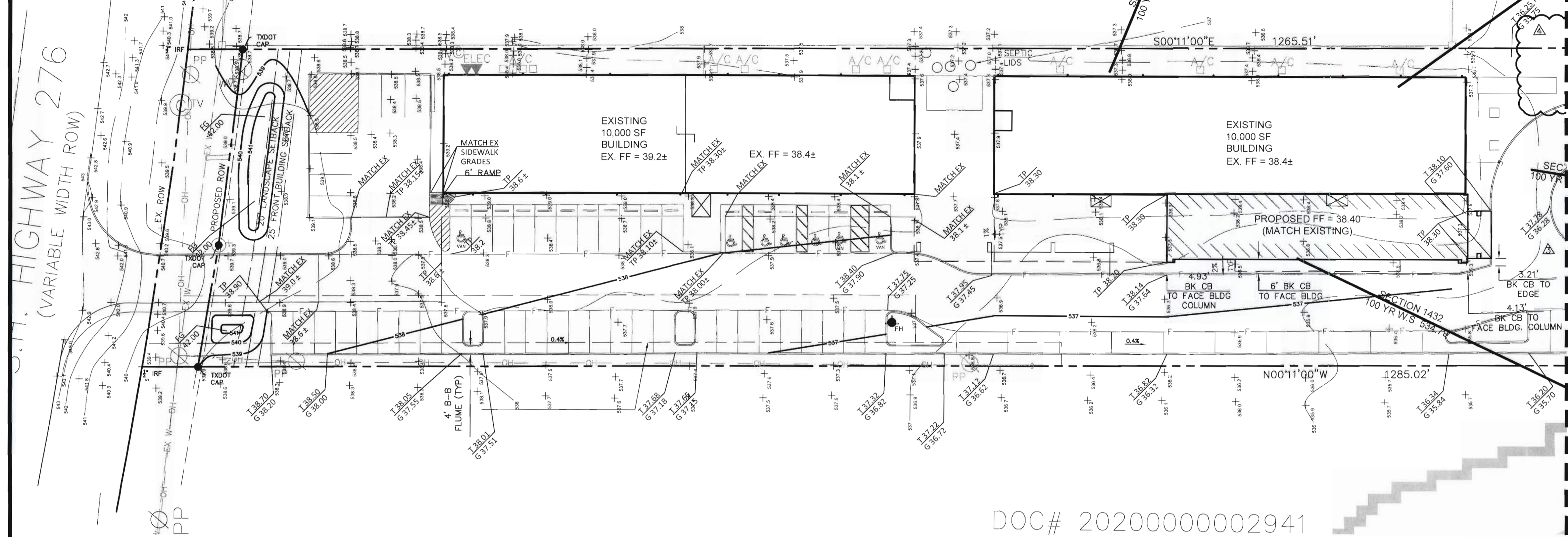
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 5815 MEADOWCREST
 DALLAS, TX 75230
 (214) 679 - 1679
 FIRM No. 19244
 tjones@tomden.com

ROCKWALL FRIENDSHIP BAPTIST CHURCH
ROCKWALL, TEXAS
DIMENSIONAL CONTROL AND PAVING PLAN

09/27/2021

PROJ. MGR.: TPJ
 PROJ. ASSOC.: TPJ
 DRAWN BY: MJD
 DATE: 03/13/2021

SHEET
C1



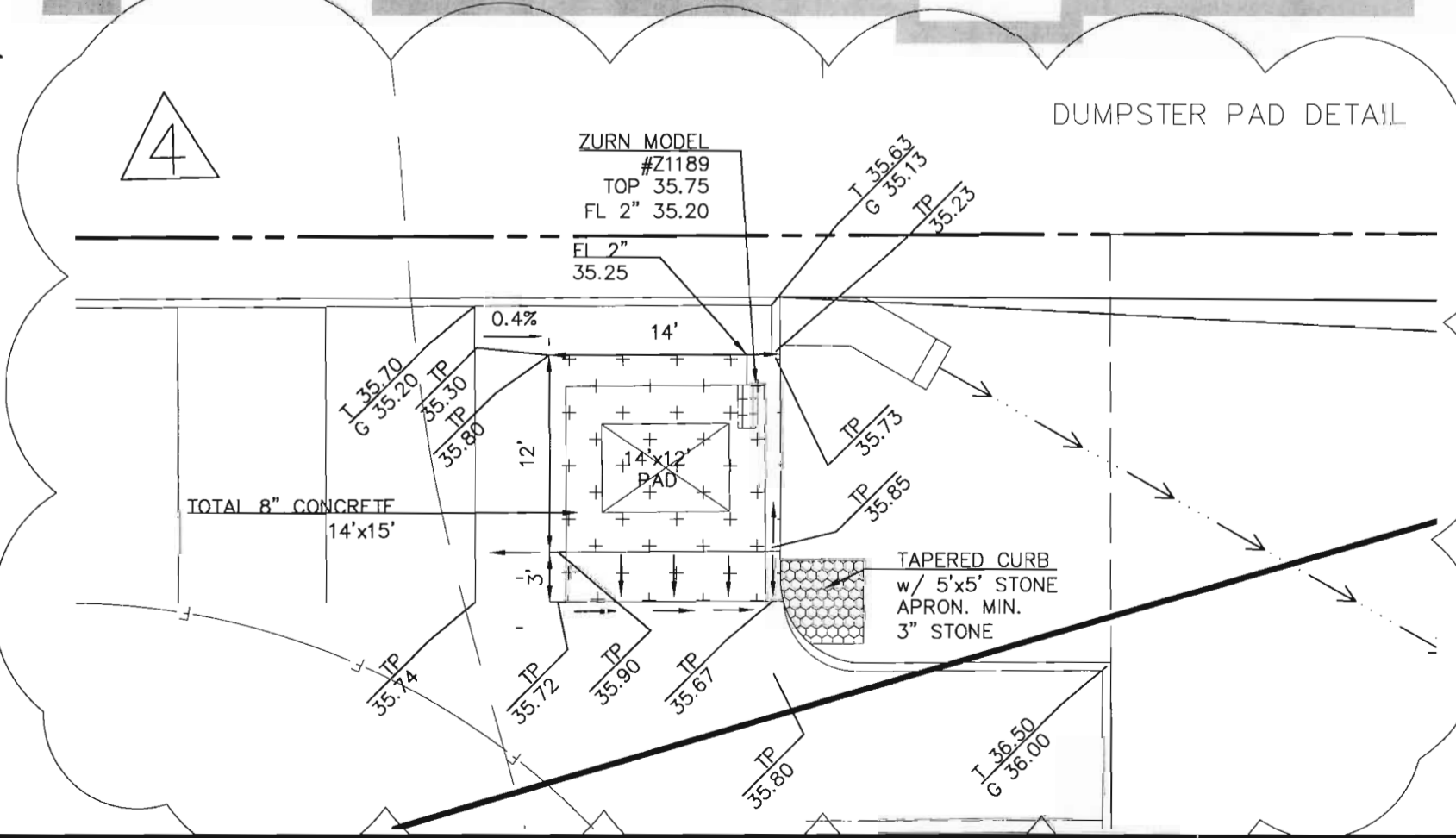
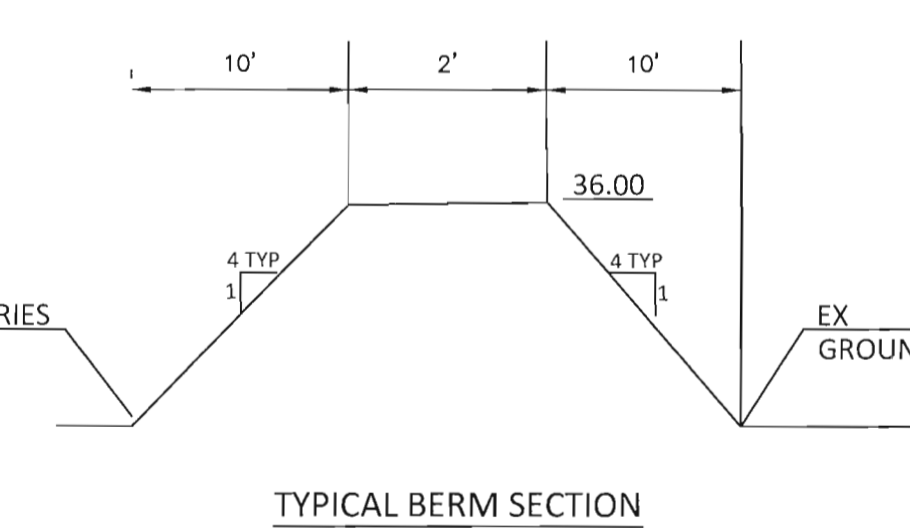
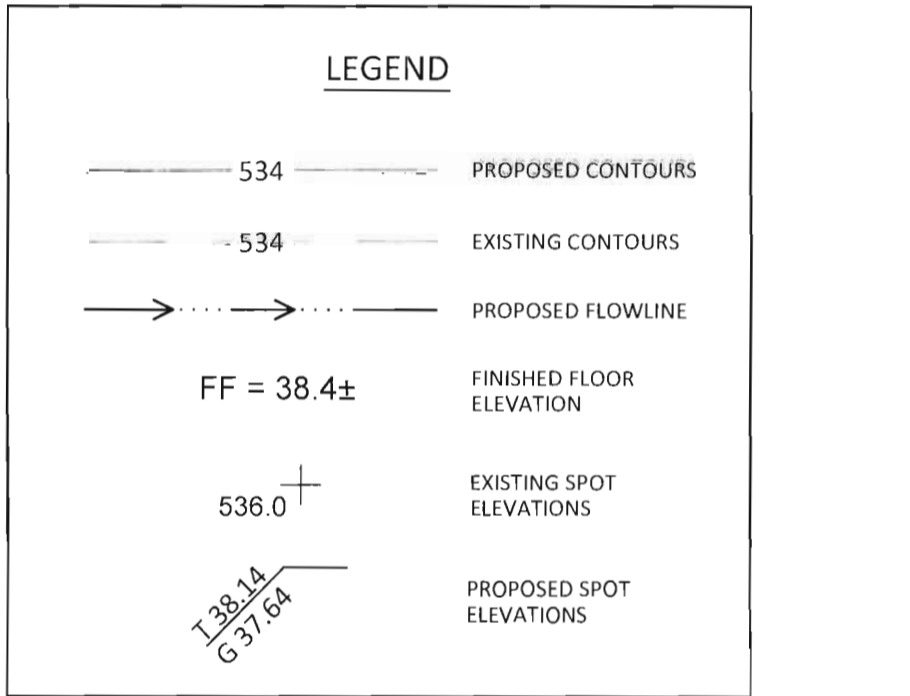
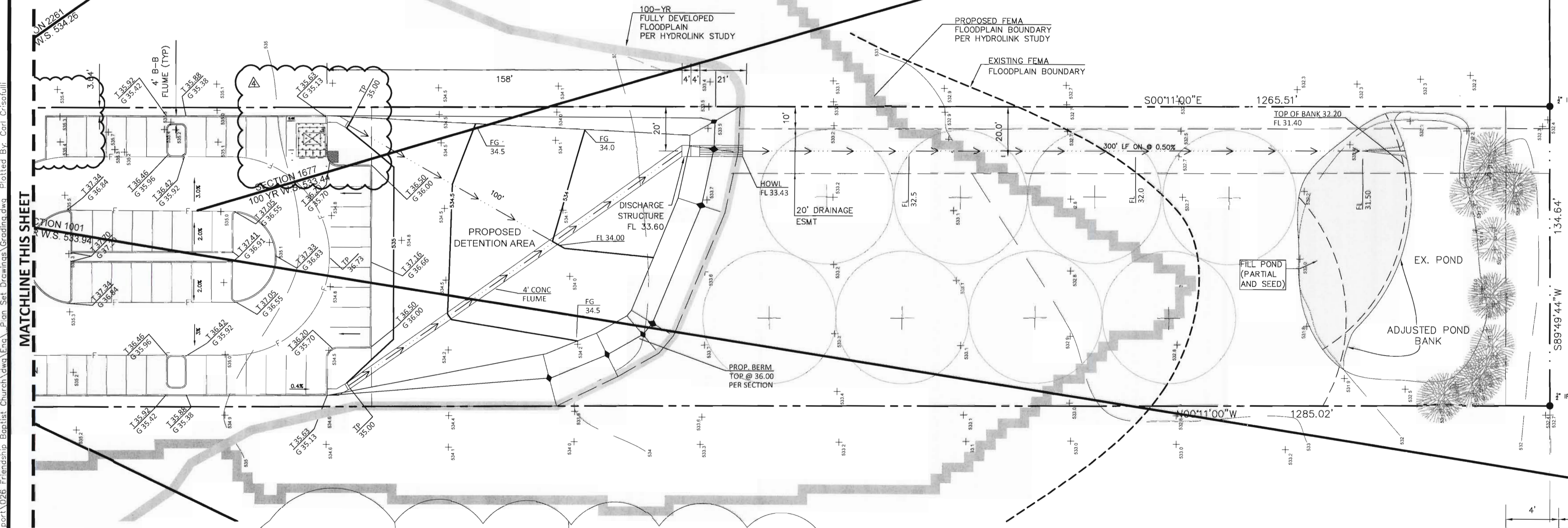
CONSTRUCTION RECORD DOCUMENTATION

EACH REVISED SHEET IN THIS CONSTRUCTION RECORD SET SUPPLEMENTS THE ORIGINAL SHEETS AND SHALL BE USED FOR THE CONSTRUCTION OF THE REVISED INFORMATION ONLY. BINKLEY BARFIELD SHALL BE RESPONSIBLE FOR ALL OTHER DESIGN INFORMATION SHOWN.

TOMDEN ENGINEERING, L.L.P.
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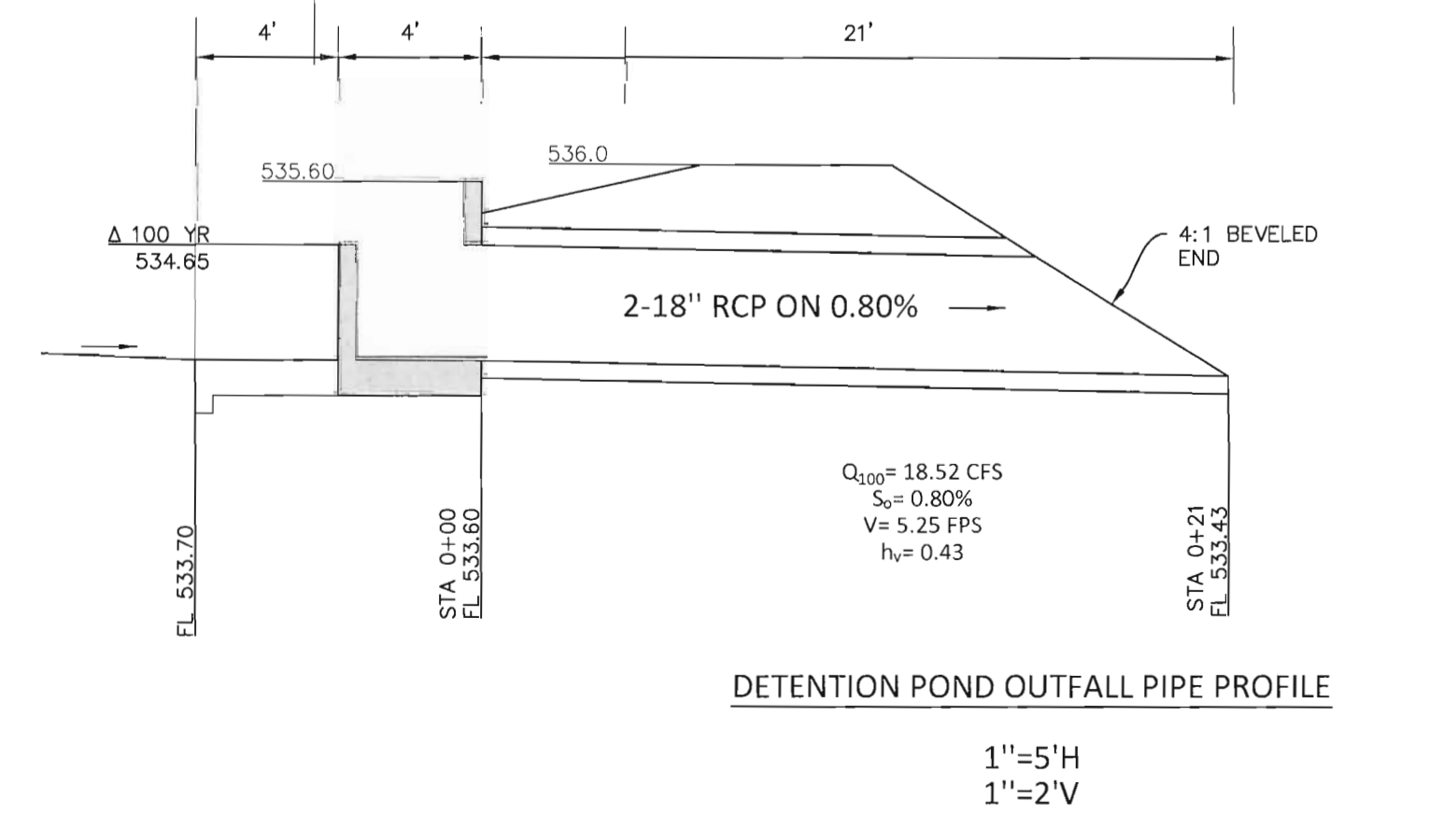
FIRM No. 19244
Thomas P. Jones, P.E. tjones@tomden.com

THOMAS P. JONES, P.E. DATE: 3.28.2023



DETENTION POND STAGE STORAGE TABLE

Stage (ft)	Elevation (ft)	Contour Area (sq ft)	Incremental Storage (cu ft)	Total Storage (cu ft)	Notes
0	533.6	-	-	-	Discharge F.L.
0.4	534	2721.0	363.0	363.0	
0.9	534.5	8480.0	2,800.0	3,163.0	
1.05	534.65	9722.0	1,365.0	4,528.0	Required Storage
1.4	535	12620.0	5,275.0	8,435.0	
1.9	535.5	13364.0	6,496.0	14,931.0	
2.03	535.63	13504.0	1,746.0	16,677.0	Top of Low Curb

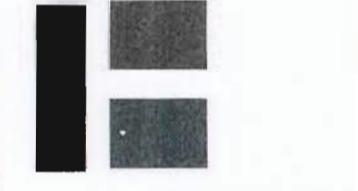


Plotted: 3/13/2023 9:27 AM Dwg Name: P:\111009 Tom Jones Support\026 Friendship Baptist Church\dwg\Exc\Plan Set Drawings\Grading.dwg Created By: Carl Ciccolini

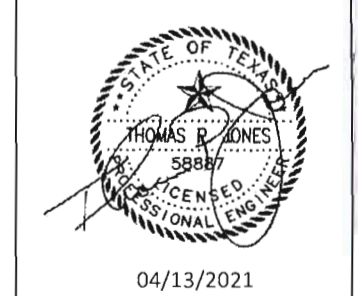
DATE	DESCRIPTION
11/09/23	2023 OUTFALL DIMENSION UPDATE
11/09/23	2023 ADA CLARIFICATIONS
11/09/23	2023 ADA CLARIFICATIONS
11/09/23	2023 DUMPSTER RELOCATION

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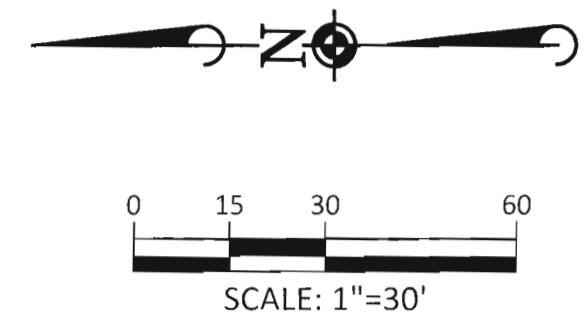
ROCKWALL FRIENDSHIP BAPTIST CHURCH
ROCKWALL, TEXAS
GRADING PLAN



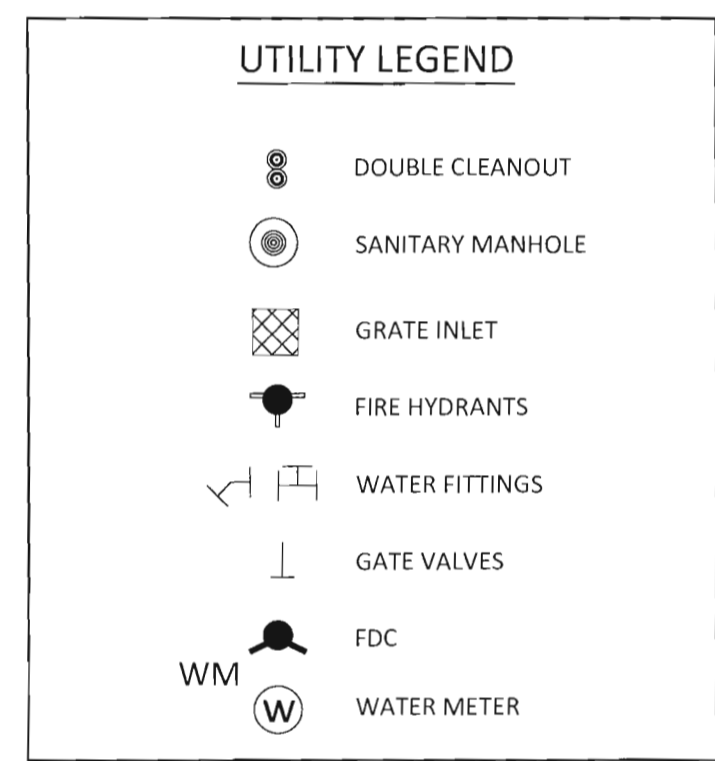
PROJ MGR: TPJ
PROJ ASSOC: TPJ
DRAWN BY: MJD
DATE: 04/13/2022

SHEET
C2

5.00 ACRES



- NOTES**
1. SEE SHEET C8 FOR UTILITY GENERAL NOTES.
 2. COORDINATE NEW CONNECTIONS WITH BLACKLAND WATER SUPPLY CORP.
 3. FIRE HYDRANT LEAD TO BE PER CITY OF ROCKWALL STANDARDS.
 4. FIRE LINE TO BE DESIGNED AND INSTALLED BY LICENSED FIRE PROTECTION ENGINEER. THIS PLAN FOR LOCATION ONLY.



CONSTRUCTION RECORD DOCUMENTATION

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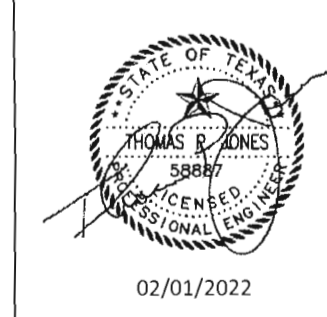
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Thomas P. Jones
 THOMAS P. JONES, P.E. 3-28-2023
 DATE

DATE	REVISIONS
09/16/2021	UPDATED WATER PLAN PER BLACKLAND COMMENTS
09/27/2021	UPDATED WATER PLAN PER CITY COMMENTS
02/07/2022	ADDED F. FIRE METER
02/20/2023	MADE F. FIRE TO SOUTH BLDG.

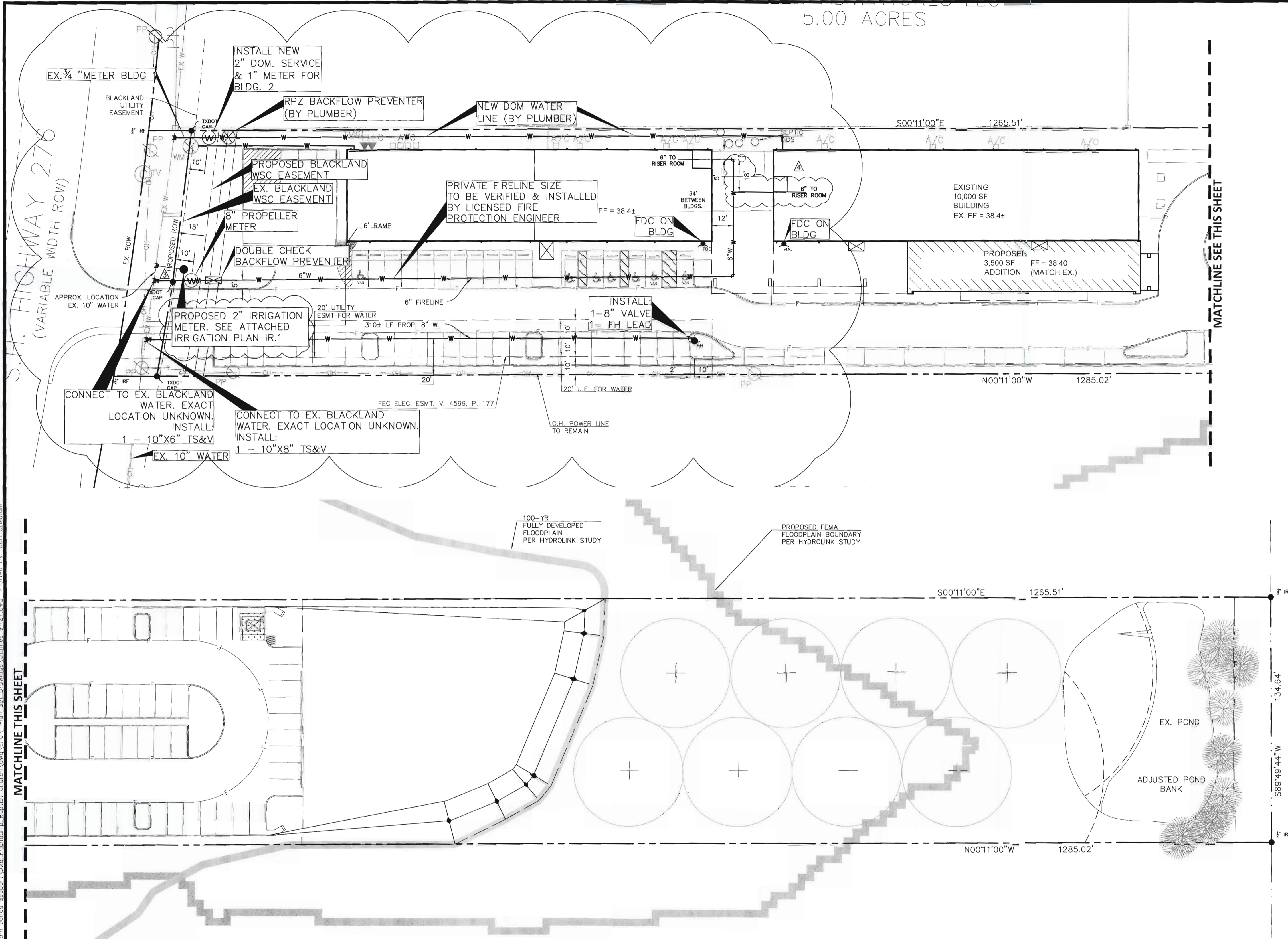
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ROCKWALL FRIENDSHIP BAPTIST CHURCH
ROCKWALL, TEXAS
WATER PLAN

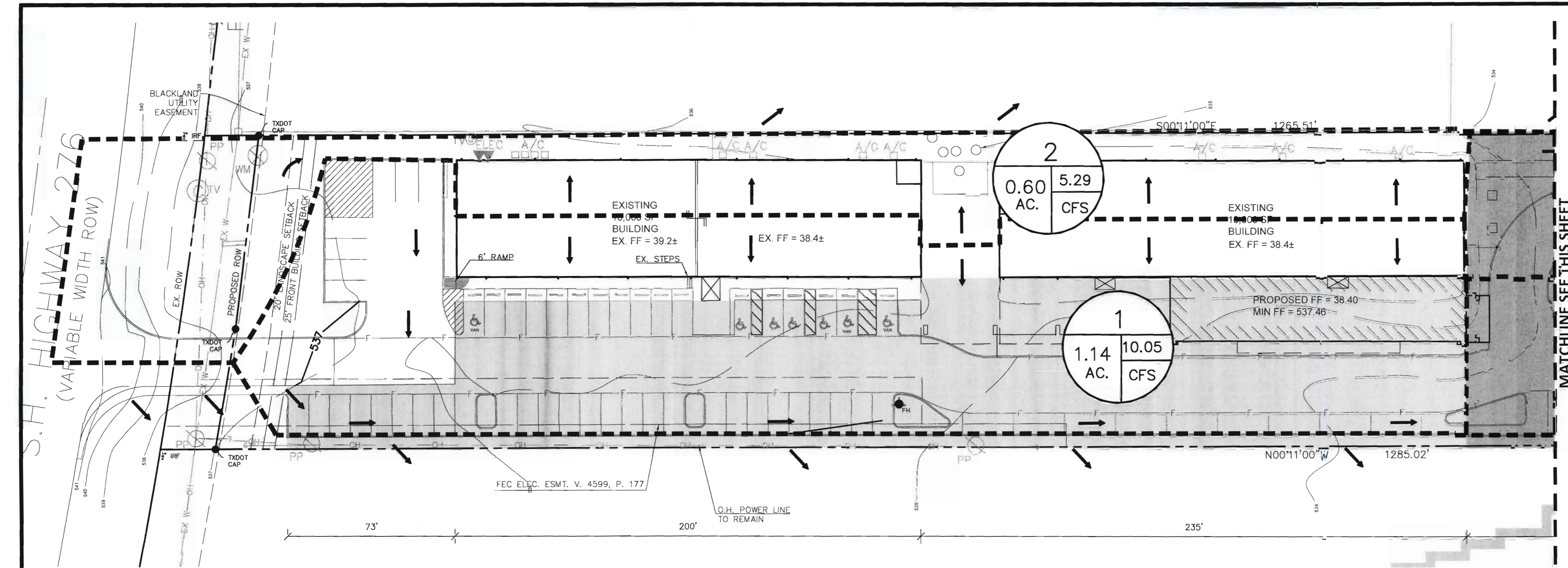


PROJ. MGR.:	TPJ
PROJ. ASSOC.:	TPJ
DRAWN BY:	MJD
DATE:	02/01/2022

SHEET
C3

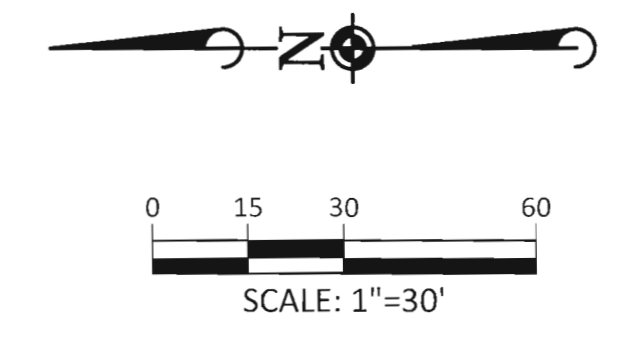


Plotted: 3/13/2023 9:27 AM Dwg Name: P:\011009 Tom Jones Support\026 Friendship Baptist Church.dwg Plan Set: Drawings\Utilities 9-27.dwg Plotted By: Carl Crisafulli



MATCHLINE SEE THIS SHEET

S.H. HIGHWAY 276
(VARIABLE WIDTH ROW)



CONSTRUCTION RECORD DOCUMENTATION

THIS DRAWING INDICATES THE WORK COMPLETED PER INFORMATION SUPPLIED BY THE CONTRACTOR. ACTUAL ON THE GROUND SURVEY VERIFICATION WAS NOT PERFORMED EXCEPT AS SPECIFICALLY NOTED. ALL LOT AND RIGHT-OF-WAY CORNERS HAVE BEEN MARKED WITH 1/2-INCH IRON RODS.

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DALLAS, TX 75230
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FIRM No. 19244
Thomas P. Jones, P.E. tjones@tomden.com

THOMAS P. JONES, P.E. DATE: 5.28.2023

LEGEND

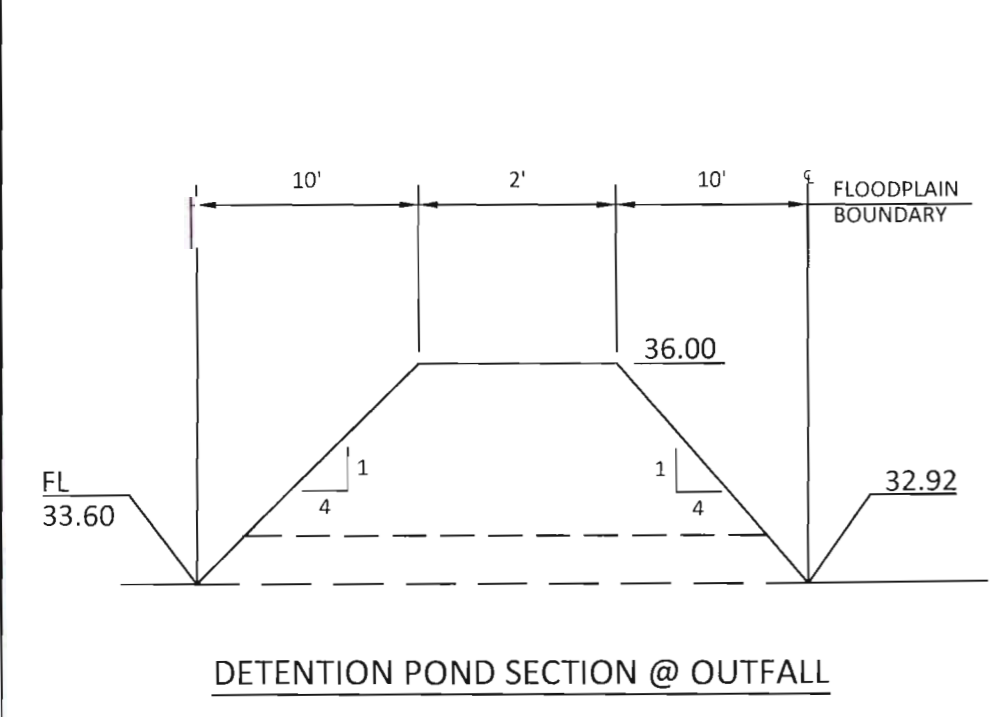
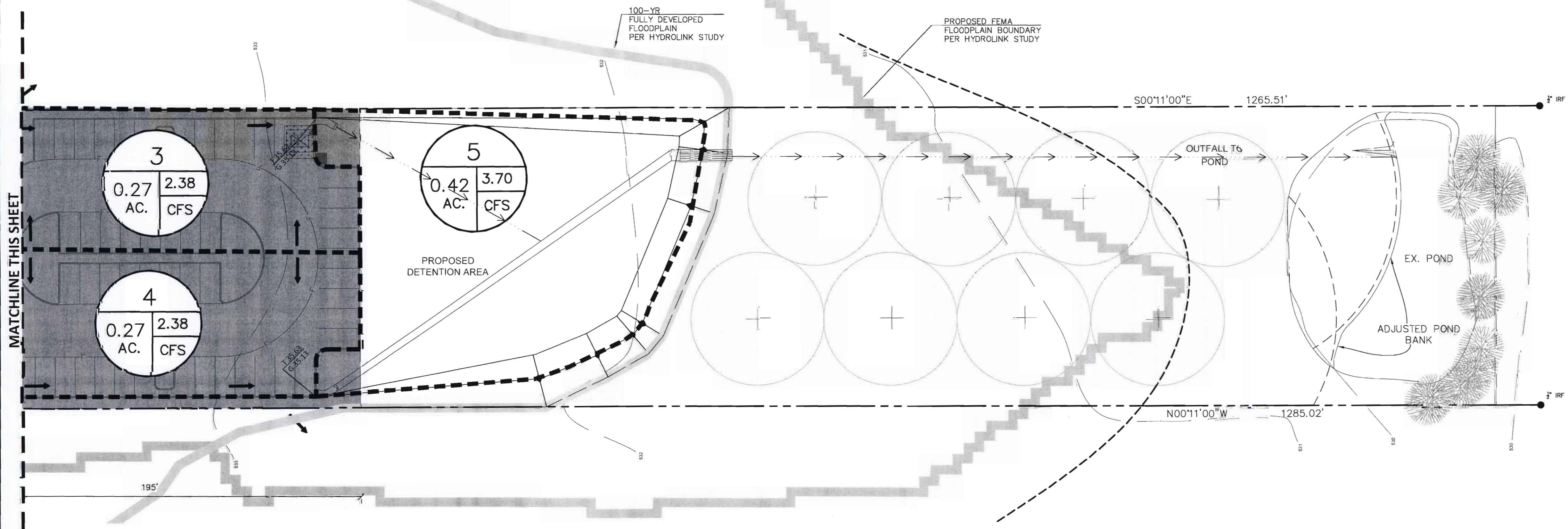
- 534 — PROPOSED CONTOURS
- 536 — EXISTING CONTOURS
- ➔ PROPOSED FLOWLINE
- FF = XX.XX FINISHED FLOOR ELEVATION
- — DRAINAGE DESIGN
- ⊙ XX-X
X.XX EX AREA ID
AREA (ACRES)
- ▭ EXISTING GRAVEL
- ▭ EXISTING GRASS

**DETENTION POND
STAGE STORAGE TABLE AS-BUILT**

Stage (ft)	Elevation (ft)	Contour Area (sq ft)	Incremental Storage (cu ft)	Total Storage (cu ft)	Notes
0	533.49	-	-	-	Discharge F.L.
0.51	534	2,523.80	429.0	429.0	
1.01	534.5	6,992.55	2,379.0	2,808.0	
1.16	534.7	8,449.35	1,544.0	4,352.0	Provided Storage
1.51	535	10,635.07	2,863.0	7,215.0	
2.01	535.5	12,694.03	5,832.0	13,047.0	

**DETENTION POND
STAGE STORAGE TABLE - DESIGN**

Stage (ft)	Elevation (ft)	Contour Area (sq ft)	Incremental Storage (cu ft)	Total Storage (cu ft)	Notes
0	533.6	-	-	-	Discharge F.L.
0.4	534	2,721.0	363.0	363.0	
0.9	534.5	8,480.0	2,800.0	3,163.0	
1.05	534.6	9,722.0	1,365.0	4,528.0	Provided Storage
1.4	535	12,620.0	3,910.0	8,438.0	
1.9	535.5	13,364.0	6,496.0	14,934.0	
2.03	535.63	13,504.0	1,746.0	16,680.0	Top of Low Curb



- DETENTION SIZING**
- MUST DETAIN FOR NEW DEVELOPMENT ONLY (1.69 ACRES)
 - C FACTOR PER ZONING (COMMERCIAL) = 0.9
 - EXISTING GRAVEL AREA = 73'x27' = 1971 SF @ C=0.9
= 200'x63' = 12,600 SF @ C=0.9
= 235'x73' = 17,155 SF @ C=0.9
TOTAL = 31,726 SF (0.73 AC)
 - EXISTING GRASSED AREA (3.4,5) = 0.96 AC. @ C=0.35
 - ALLOWABLE RUNOFF FROM NEW DEVELOPMENT
Q = (9.8x0.73x0.90) + (8.3x0.96x0.35)
Q = 6.44+2.79=9.23
 - DEVELOPED RUNOFF FROM NEW DEVELOPMENT
Tc = 10 MINUTES
Q = 1.10x1.69x0.9
Q = 1.491 CFS
 - NET DETENTION REDUCTION FROM TOTAL DEVELOPED SITE = 5.68 CFS

DRAINAGE AREA TABLE - 100 YEAR STORM

Area No.	Area (Acres)	C	Tc (MIN)	I100 (IN/HR)	Q100 (CFS)	COMMENTS
1	1.14	0.9	10	9.8	10.05	TO POND
2	0.6	0.9	10	9.8	5.29	TO OFFSITE
3	0.27	0.9	10	9.8	2.38	TO POND
4	0.27	0.9	10	9.8	2.38	TO POND
5	0.42	0.9	10	9.8	3.70	POND AREA
TOTAL	2.7	0.9	10	9.8	23.81	
TOTAL TO POND	2.1	0.9	10	9.8	18.52	
ALLOWABLE RELEASE					12.84	

Storage Requirements

Duration (hours)	Duration (min)	Rainfall Intensity (in/hr)	Inflow Rate (cfs)	Inflow Volume (cf)	Release Rate (cfs)	Outflow Volume (cf)	Inflow- Outflow (cf)	Required Storage (ac-ft)
0.08	5.00	10.90	20.60	6,180	12.84	9,630	-3,450	-0.079
0.17	10.00	9.80	18.52	11,113	12.84	11,556	-443	-0.010
0.25	15.00	9.00	17.01	15,309	12.84	13,482	1,827	0.042
0.33	20.00	8.30	15.69	18,824	12.84	15,408	3,416	0.078
0.50	30.00	6.90	13.04	23,474	12.84	19,260	4,214	0.097
0.67	40.00	5.80	10.96	26,309	12.84	23,112	3,197	0.073
0.83	50.00	5.00	9.45	28,350	12.84	26,964	1,386	0.032
1.00	60.00	4.50	8.51	30,618	12.84	30,816	-198	-0.005
1.17	70.00	4.00	7.56	31,752	12.84	34,668	-2,916	-0.067
1.33	80.00	3.70	6.99	33,566	12.84	38,520	-4,954	-0.114
1.50	90.00	3.50	6.62	35,721	12.84	42,372	-6,651	-0.153
1.67	100.00	3.30	6.24	37,422	12.84	46,224	-8,802	-0.202
1.83	110.00	3.10	5.86	38,669	12.84	50,076	-11,407	-0.262
2.00	120.00	2.90	5.48	39,463	12.84	53,928	-14,465	-0.332
2.50	150.00	2.30	4.35	39,123	12.84	65,484	-26,361	-0.605

PROJECT: ROCKWALL FRIENDSHIP BAPTIST CHURCH PROPOSED DRAINAGE AREA MAP
 SHEET C4
 DATE: 03/13/2021
 DRAWN BY: MJD
 PROJ. ASSOC.: TPJ
 PROJ. MGR.: TPJ
 09/17/2021
 THOMAS P. JONES, P.E.
 LICENSE NO. 19244
 T. JONES
 5815 MEADOWCREST
 DALLAS, TX 75230
 (214) 679-1679
 FIRM NO. 19244
 tjones@tomden.com

ALLOWABLE RELEASE RATE	5 YEAR	10 YEAR	25 YEAR	100 YEAR
T _c @20 MIN	-	-	-	-
AREA	1.69	1.69	1.69	1.69
Q _{UND.} (CFS)	5.66	6.64	7.67	9.23
DEVELOPED INFLOW	5 YEAR	10 YEAR	25 YEAR	100 YEAR
T _c @10 MIN	-	-	-	-
C*A (AC) (0.9x1.69)	1.52	1.52	1.52	1.52
I (IN/HR)	6.10	7.10	8.30	9.80
Q _{DEV.} (CFS)	9.27	10.79	12.62	14.90
DETAINED FLOW (CFS)	3.61	4.15	4.95	5.67
DEVELOPED Q TO POND (2.1 AC)	11.53	13.42	15.69	18.52
ALLOWABLE RELEASE	7.91	9.27	10.74	12.84

AREA 1,3,4,5 = 2.1 ACRES
CA = 0.9x2.10 = 1.89

INFLOW = T_c x Q_p x 60
OUTFLOW = 0.5 x (T_c+20) x Q_A x 60

CONSTRUCTION RECORD DOCUMENTATION

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FIRM No. 19244
Thomas P. Jones, P.E. tjones@tomden.com

Thomas P. Jones 3/28/2023
THOMAS P. JONES, P.E. DATE

STORAGE VOLUME REQUIRED - 5 YEAR STORM

Duration (hours)	Duration (min)	Rainfall Intensity (in/hr)	Inflow Rate (cfs)	Inflow Volume (cf)	Release Rate (cfs)	Outflow Volume (cf)	Inflow- Outflow (cf)	Required Storage (ac-ft)
0.17	10.00	6.10	11.53	6,917	7.91	7,119	-202	-0.005
0.25	15.00	5.50	10.40	9,356	7.91	8,306	1,050	0.024
0.33	20.00	4.90	9.26	11,113	7.91	9,492	1,621	0.037
0.50	30.00	4.10	7.75	13,948	7.91	11,865	2,083	0.048
0.67	40.00	3.40	6.43	15,422	7.91	14,238	1,184	0.027
0.83	50.00	2.80	5.29	15,876	7.91	16,611	-735	-0.017
1.00	60.00	2.60	4.91	17,690	7.91	18,984	-1,294	-0.030
1.17	70.00	2.40	4.54	19,051	7.91	21,357	-2,306	-0.053
1.33	80.00	2.30	4.35	20,866	7.91	23,730	-2,864	-0.066
1.50	90.00	2.10	3.97	21,433	7.91	26,103	-4,670	-0.107
1.67	100.00	1.90	3.59	21,546	7.91	28,476	-6,930	-0.159
1.83	110.00	1.80	3.40	22,453	7.91	30,849	-8,396	-0.193

STORAGE VOLUME REQUIRED - 10 YEAR STORM

Duration (hours)	Duration (min)	Rainfall Intensity (in/hr)	Inflow Rate (cfs)	Inflow Volume (cf)	Release Rate (cfs)	Outflow Volume (cf)	Inflow- Outflow (cf)	Required Storage (ac-ft)
0.17	10.00	7.10	13.42	8,051	9.27	8,343	-292	-0.007
0.25	15.00	6.50	12.29	11,057	9.27	9,734	1,323	0.030
0.33	20.00	5.90	11.15	13,381	9.27	11,124	2,257	0.052
0.50	30.00	4.80	9.07	16,330	9.27	13,905	2,425	0.056
0.67	40.00	4.00	7.56	18,144	9.27	16,686	1,458	0.033
0.83	50.00	3.50	6.62	19,845	9.27	19,467	378	0.009
1.00	60.00	3.00	5.67	20,412	9.27	22,248	-1,836	-0.042
1.17	70.00	2.80	5.29	22,226	9.27	25,029	-2,803	-0.064
1.33	80.00	2.60	4.91	23,587	9.27	27,810	-4,223	-0.097
1.50	90.00	2.50	4.73	25,515	9.27	30,591	-5,076	-0.117
1.67	100.00	2.40	4.54	27,216	9.27	33,372	-6,156	-0.141
1.83	110.00	2.20	4.16	27,443	9.27	36,153	-8,710	-0.200

5 YEAR WSEL

Stage (ft)	Elevation (ft)	Contour Area (sq ft)	Incremental Storage (cu ft)	Total Storage (cu ft)	Notes
0	533.6	-	-	-	Discharge F.L.
0.4	534	2,721.0	363.0	363.0	
0.71	534.31	-	-	2,083.0	Provided Storage
0.9	534.5	8,480.0	2,800.0	3,163.0	
1.4	535	12,620.0	5,275.0	8,438.0	
1.9	535.5	13,364.0	6,496.0	14,934.0	
2.03	535.63	13,504.0	1,746.0	16,680.0	Top of Low Curb

10 YEAR WSEL

Stage (ft)	Elevation (ft)	Contour Area (sq ft)	Incremental Storage (cu ft)	Total Storage (cu ft)	Notes
0	533.6	-	-	-	Discharge F.L.
0.4	534	2,721.0	363.0	363.0	
0.85	534.37	-	-	2,425.0	Provided Storage
0.9	534.5	8,480.0	2,800.0	3,163.0	
1.4	535	12,620.0	5,275.0	8,438.0	
1.9	535.5	13,364.0	6,496.0	14,934.0	
2.03	535.63	13,504.0	1,746.0	16,680.0	Top of Low Curb

STORAGE VOLUME REQUIRED - 25 YEAR STORM

Duration (hours)	Duration (min)	Rainfall Intensity (in/hr)	Inflow Rate (cfs)	Inflow Volume (cf)	Release Rate (cfs)	Outflow Volume (cf)	Inflow- Outflow (cf)	Required Storage (ac-ft)
0.17	10.00	8.30	15.69	9,412	10.74	9,666	-254	-0.006
0.25	15.00	7.50	14.18	12,758	10.74	11,277	1,481	0.034
0.33	20.00	6.60	12.47	14,969	10.74	12,888	2,081	0.048
0.50	30.00	5.50	10.40	18,711	10.74	16,110	2,601	0.060
0.67	40.00	4.60	8.69	20,866	10.74	19,332	1,534	0.035
0.83	50.00	4.00	7.56	22,680	10.74	22,554	126	0.003
1.00	60.00	3.50	6.62	23,814	10.74	25,776	-1,962	-0.045
1.17	70.00	3.30	6.24	26,195	10.74	28,998	-2,803	-0.064
1.33	80.00	3.10	5.86	28,123	10.74	32,220	-4,097	-0.094
1.50	90.00	2.90	5.48	29,597	10.74	35,442	-5,845	-0.134
1.67	100.00	2.70	5.10	30,618	10.74	38,664	-8,046	-0.185
1.83	110.00	2.50	4.73	31,185	10.74	41,886	-10,701	-0.246

STORAGE VOLUME REQUIRED - 100 YEAR STORM

Duration (hours)	Duration (min)	Rainfall Intensity (in/hr)	Inflow Rate (cfs)	Inflow Volume (cf)	Release Rate (cfs)	Outflow Volume (cf)	Inflow- Outflow (cf)	Required Storage (ac-ft)
0.08	5.00	10.90	20.60	6,180	12.84	9,630	-3,450	-0.079
0.17	10.00	9.80	18.52	11,113	12.84	11,556	-443	-0.010
0.25	15.00	9.00	17.01	15,309	12.84	13,482	1,827	0.042
0.33	20.00	8.30	15.69	18,824	12.84	15,408	3,416	0.078
* 0.50	30.00	6.90	13.04	23,474	12.84	19,260	4,214	0.097
0.67	40.00	5.80	10.96	26,309	12.84	23,112	3,197	0.073
0.83	50.00	5.00	9.45	28,350	12.84	26,964	1,386	0.032
1.00	60.00	4.50	8.51	30,618	12.84	30,816	-198	-0.005
1.17	70.00	4.00	7.56	31,752	12.84	34,668	-2,916	-0.067
1.33	80.00	3.70	6.99	33,566	12.84	38,520	-4,954	-0.114
1.50	90.00	3.50	6.62	35,721	12.84	42,372	-6,651	-0.153
1.67	100.00	3.30	6.24	37,422	12.84	46,224	-8,802	-0.202
1.83	110.00	3.10	5.86	38,669	12.84	50,076	-11,407	-0.262
2.00	120.00	2.90	5.48	39,463	12.84	53,928	-14,465	-0.332
2.50	150.00	2.30	4.35	39,123	12.84	65,484	-26,361	-0.605

* TOTAL STORAGE CAPACITY REQUIRED: 4,213.70 CU FT

25 YEAR WSEL

Stage (ft)	Elevation (ft)	Contour Area (sq ft)	Incremental Storage (cu ft)	Total Storage (cu ft)	Notes
0	533.6	-	-	-	Discharge F.L.
0.4	534	2,721.0	363.0	363.0	
0.8	534.4	-	-	2,601.0	Provided Storage
0.9	534.5	8,480.0	2,800.0	3,163.0	
1.4	535	12,620.0	5,275.0	8,438.0	
1.9	535.5	13,364.0	6,496.0	14,934.0	
2.03	535.63	13,504.0	1,746.0	16,680.0	Top of Low Curb

100 YEAR WSEL

Stage (ft)	Elevation (ft)	Contour Area (sq ft)	Incremental Storage (cu ft)	Total Storage (cu ft)	Notes
0	533.6	-	-	-	Discharge F.L.
0.4	534	2,721.0	363.0	363.0	
0.9	534.5	8,480.0	2,800.0	3,163.0	
* 1.05	534.65	9,722.0	1,365.0	4,528.0	Provided Storage
1.4	535	12,620.0	3,910.0	8,438.0	
1.9	535.5	13,364.0	6,496.0	14,934.0	
2.03	535.63	13,504.0	1,746.0	16,680.0	Top of Low Curb

* TOTAL STORAGE PROVIDED: 4,356.0 CU FT

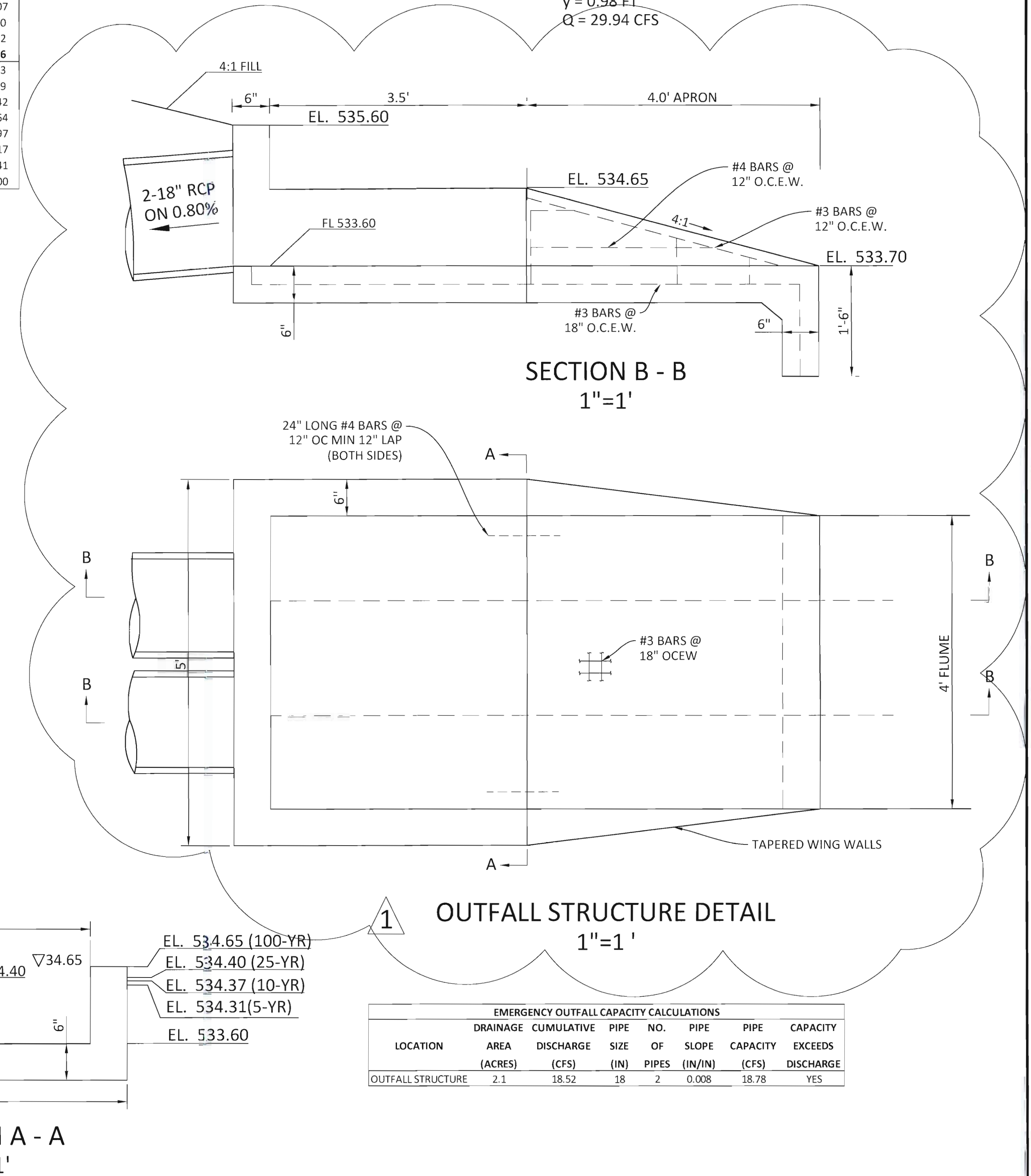
RELEASE SUMMARY TABLE

STORM (YR)	DETAINED FLOW (CFS)	ALLOWED DISCHARGE (CFS)	ACTUAL DISCHARGE (CFS)
5	3.62	7.91	7.39
10	4.15	9.27	8.34
25	4.95	10.74	8.84
100	5.68	12.84	13.29

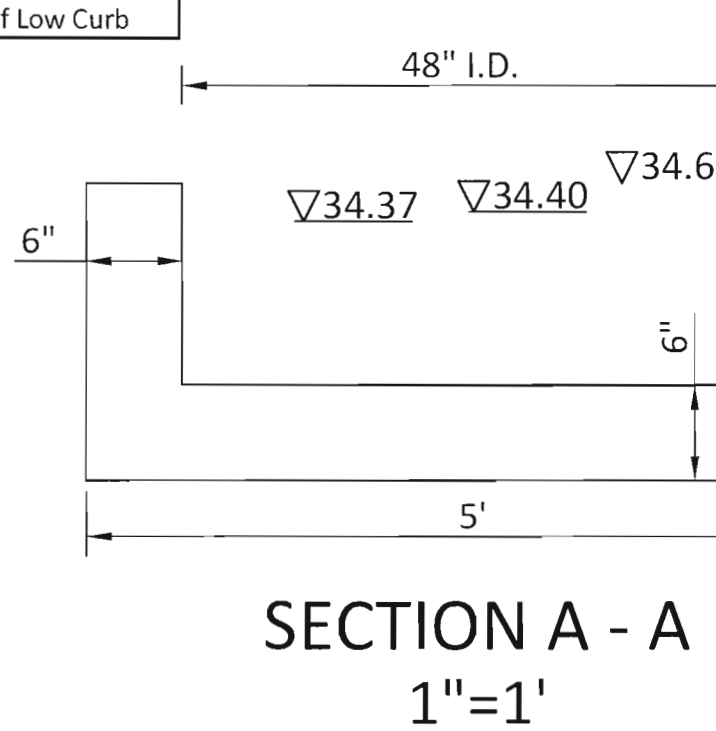
OUTFALL DESIGN CALCULATIONS

5 YEAR WEIR FLOW		25 YEAR WEIR FLOW		100 YEAR WEIR FLOW	
Flowline Elevation	533.6 feet	Flowline Elevation	533.6 feet	Flowline Elevation	534.5 feet
Weir Length	4.00 feet	Orifice Length	4.00 feet	Orifice Length	4.00 feet
Weir Depth	0.71 feet	Orifice Height	0.8 feet	Orifice Height	1.05 feet
5 YR WSEL	534.31 feet	25 YR WSEL	534.4 feet	100 YR WSEL	534.65 feet
Q=3.087LH ^{3/2}	7.39 cfs	Q=3.087LH ^{3/2}	8.84 cfs	Q=3.087LH ^{3/2}	13.29 cfs
Total 5 YR	7.39 cfs	Total 25 YR	8.84 cfs	Total 100 YR	13.29 cfs

10 YEAR WEIR FLOW		OVERFLOW	
Flowline Elevation	533.6 feet	EMERGENCY OVERFLOW TO PASS = 18.52 CFS	
Weir Length	4.00 feet	(ELEVATION 534.65)	
Weir Depth	0.77 feet	CURB OVERFLOW 535.63	
10 YR WSEL	534.37 feet	BERM OVERFLOW 536.00	
Q=3.087LH ^{3/2}	8.34 cfs	Q = 3.087Ly ^{3/2}	
Total 10 YR	8.34 cfs	L = 10 FT	
		y = 0.98 FT	
		Q = 29.94 CFS	



EMERGENCY OUTFALL CAPACITY CALCULATIONS							
LOCATION	DRAINAGE AREA (ACRES)	CUMULATIVE DISCHARGE (CFS)	PIPE SIZE (IN)	NO. OF PIPES	PIPE SLOPE (IN/IN)	PIPE CAPACITY (CFS)	EXCEEDS CAPACITY
OUTFALL STRUCTURE	2.1	18.52	18	2	0.008	18.78	YES



Drawn By: T.P.J.
 PROJECT ASSOCIATE: T.P.J.
 DATE: 04/29/2022
 SHEET C5

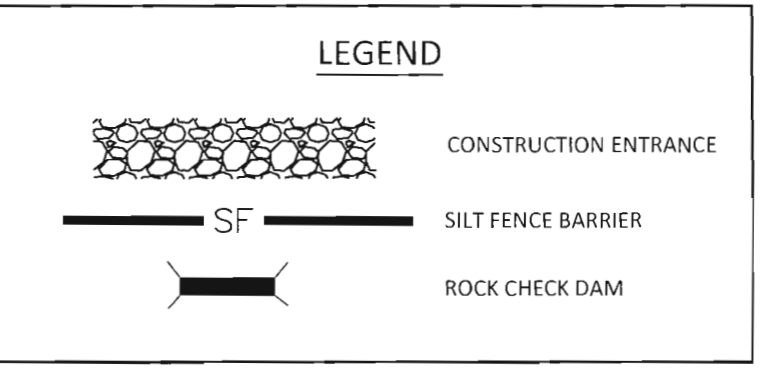
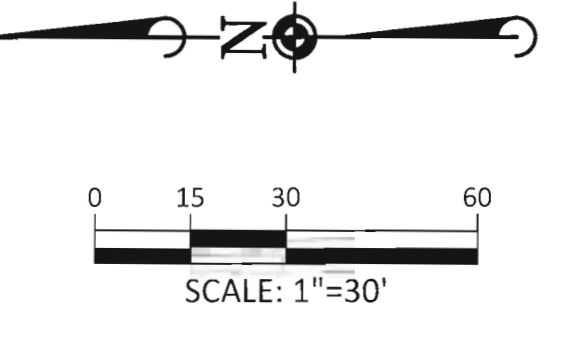
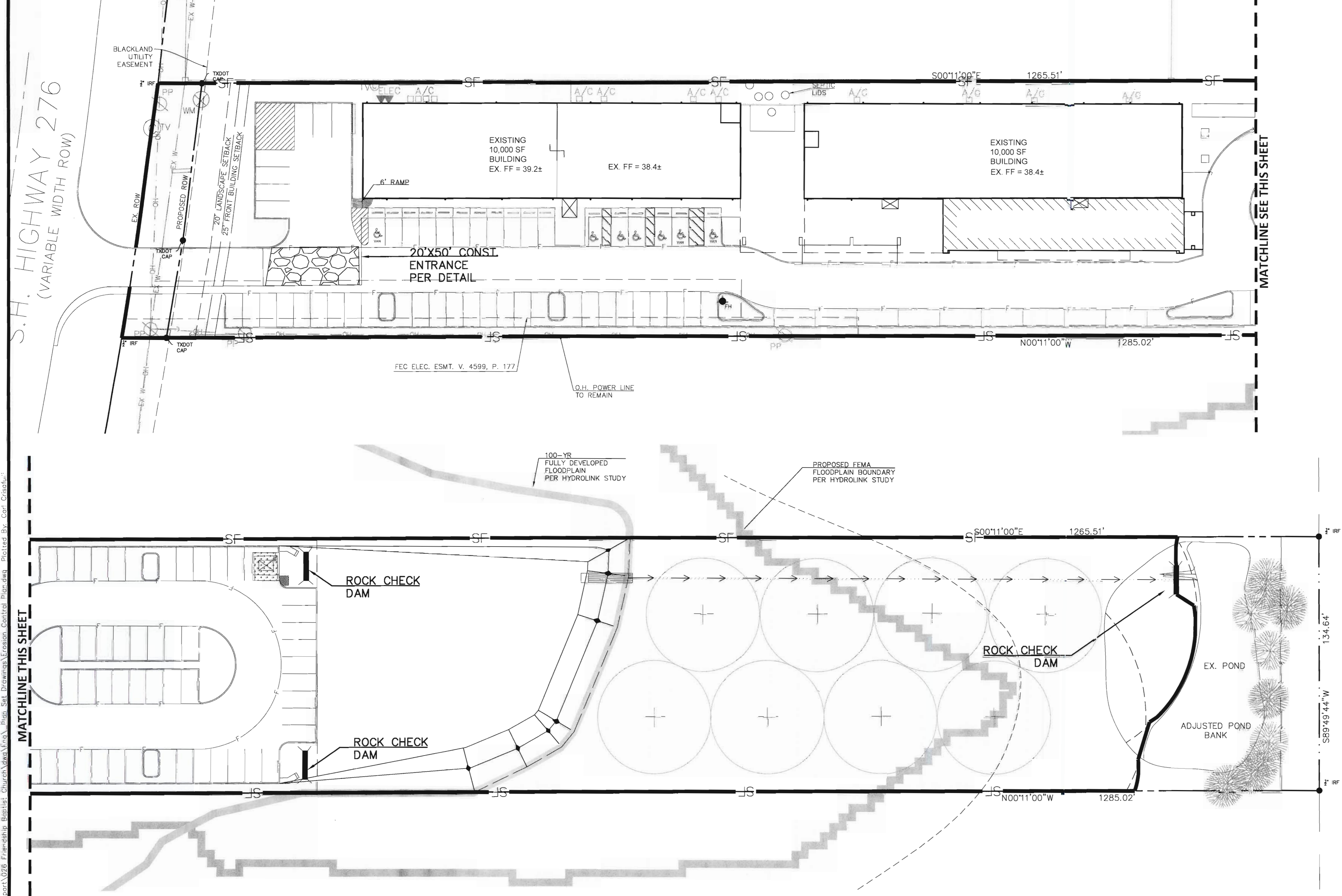
DIVISION: OUTFALL STRUCTURE
 DATE: 04/29/2022
TOMDEN ENGINEERING, L.L.P.
 5815 MEADOWCREST
 DALLAS, TX 75230
 (214) 679-1679
 FIRM No. 19244
 tjones@tomden.com

ROCKWALL FRIENDSHIP BAPTIST CHURCH
ROCKWALL, TEXAS
DETENTION POND DETAILS AND CALCULATIONS



03/13/2023 9:28 AM Dwg Name: P:\01-009 Tom Jones Support\028 Friendship Baptist Church\DWG\Friendship Baptist Church\Set Drawings\Erosion Control Plan.dwg Plotted By: Carl Cristofori

S.H. HIGHWAY 276
 (VARIABLE WIDTH ROW)



DATE	BY	CHECKED	REVISIONS

TOMDEN ENGINEERING, L.L.P.
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 DALLAS, TX 75230
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 tjones@tomden.com



ROCKWALL FRIENDSHIP BAPTIST CHURCH
ROCKWALL, TEXAS
EROSION CONTROL PLAN

CONSTRUCTION RECORD DOCUMENTATION

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 FIRM No. 19244
 Thomas P. Jones, P.E.

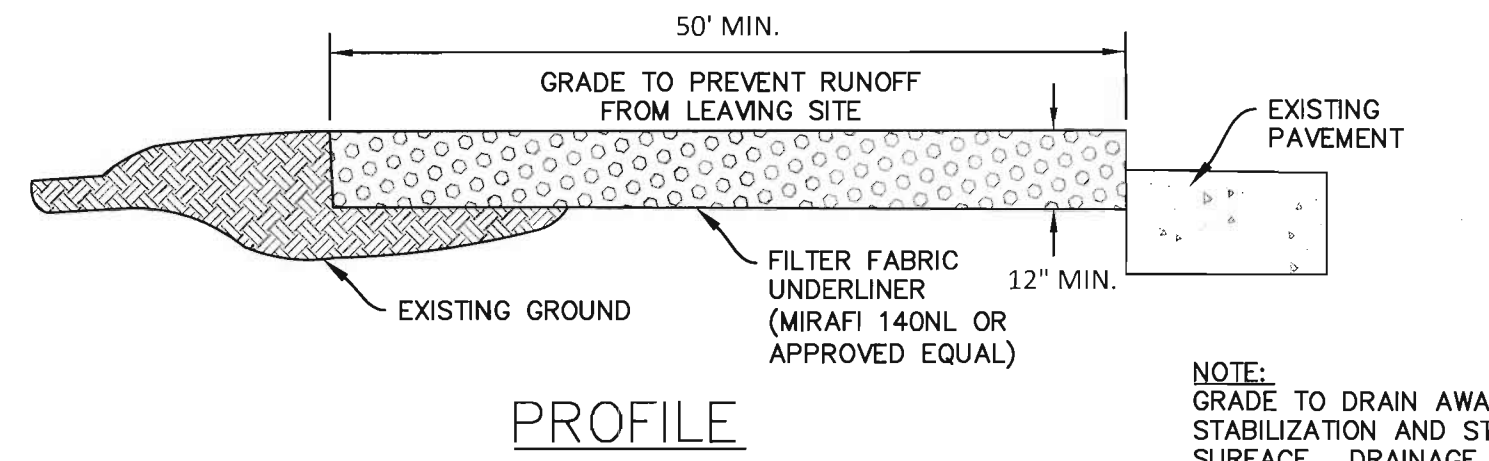
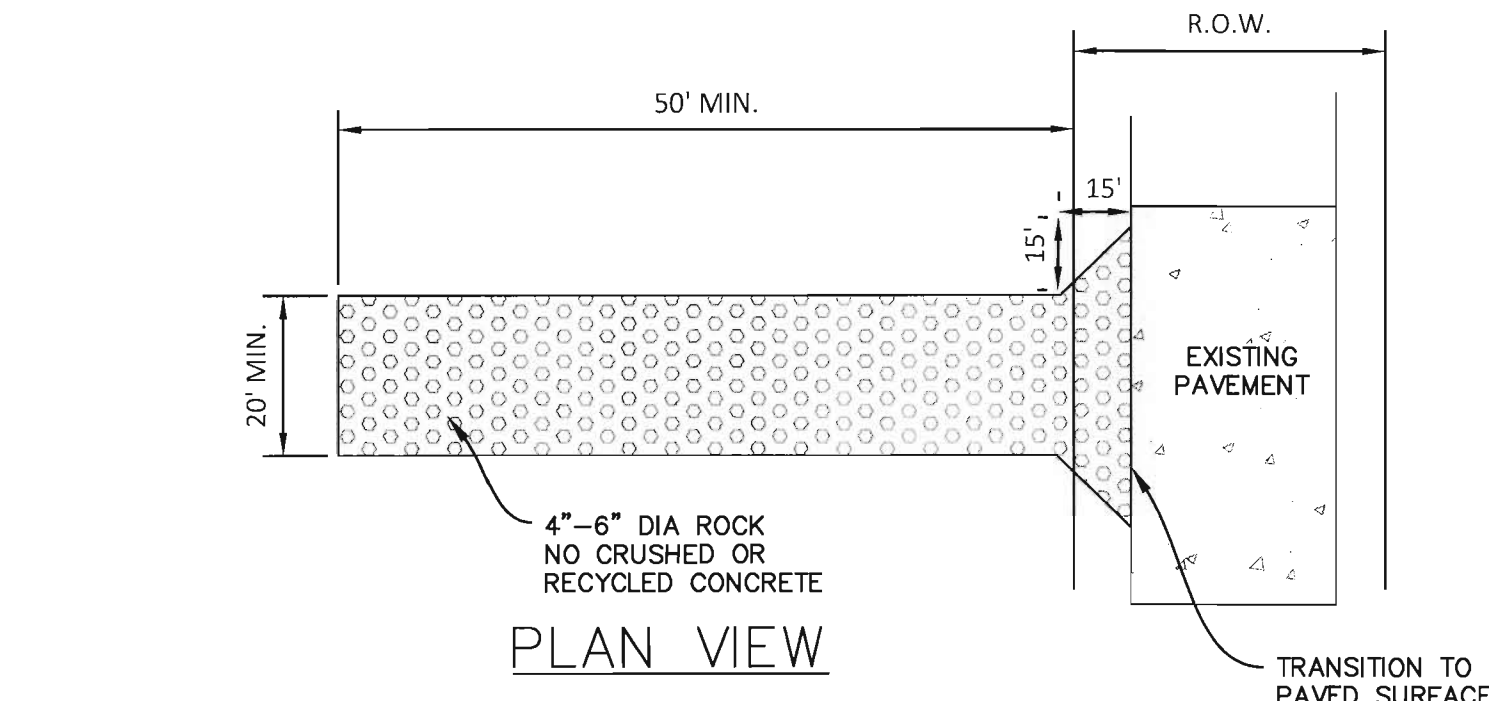
tjones@tomden.com

 THOMAS P. JONES, P.E.

09/27/2021
 DATE: 03/13/2023

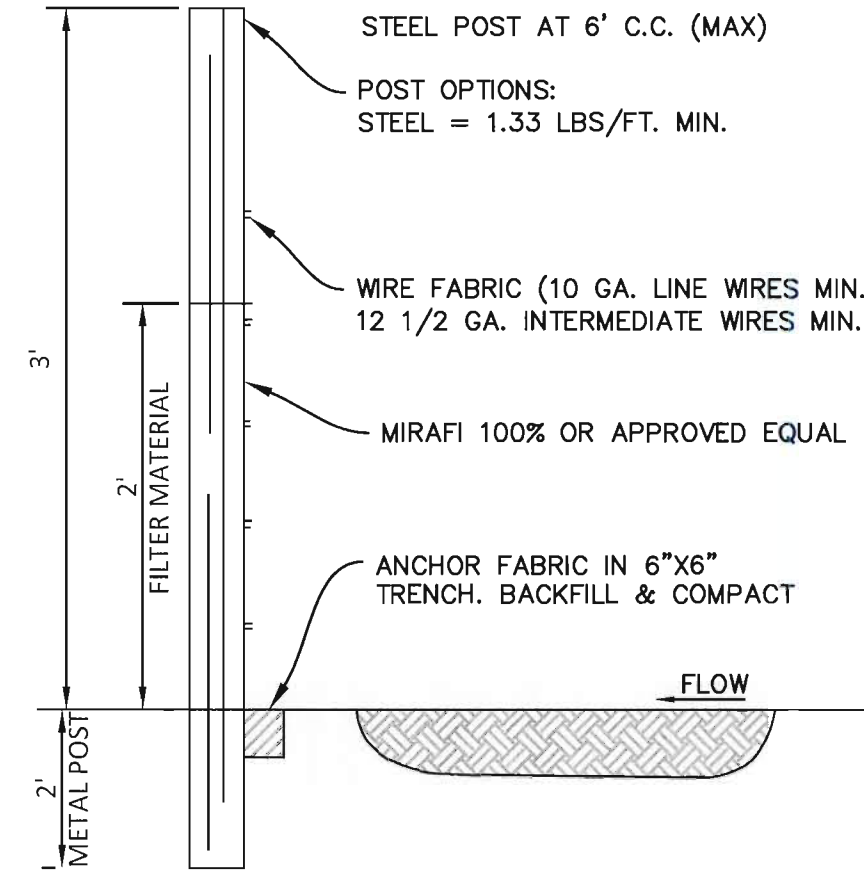
PROJ. MGR.: TPJ
 PROJ. ASSOC.: TPJ
 DRAWN BY: MJD
 DATE: 03/13/2023

SHEET
C6

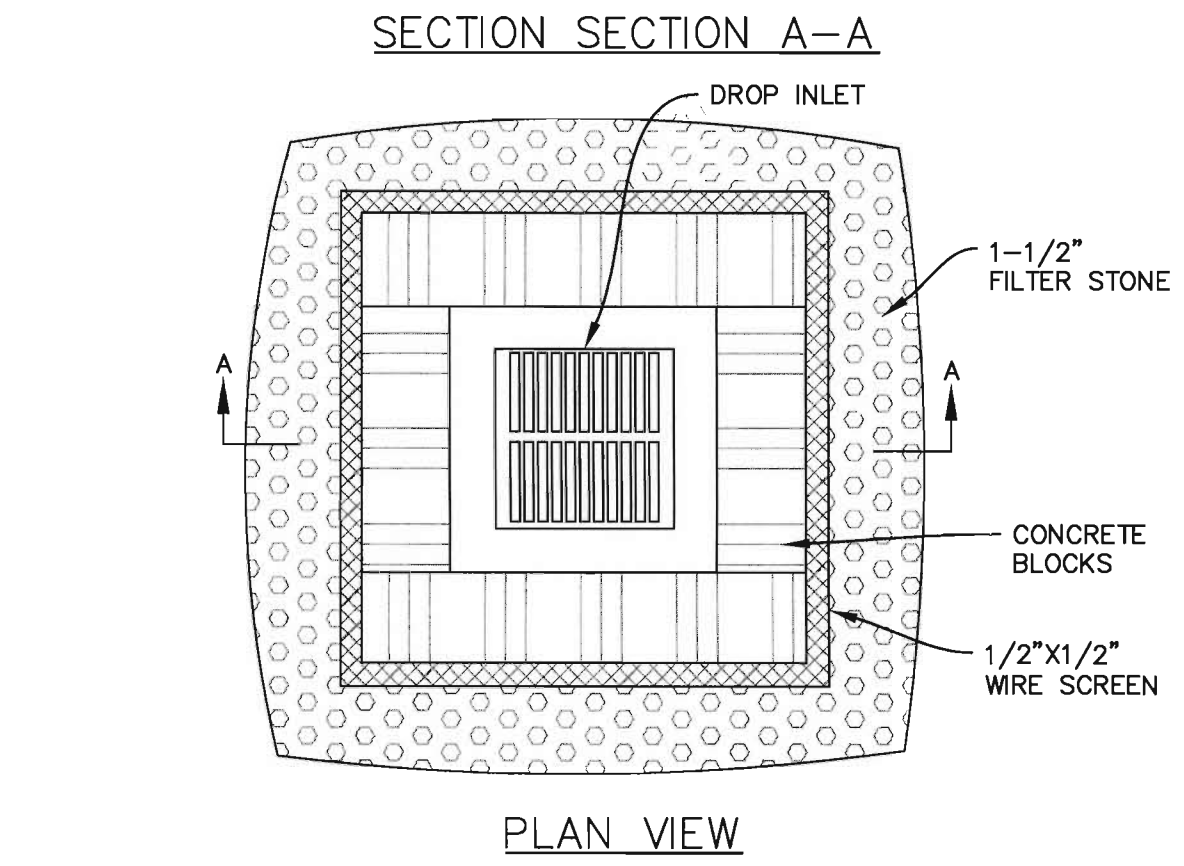
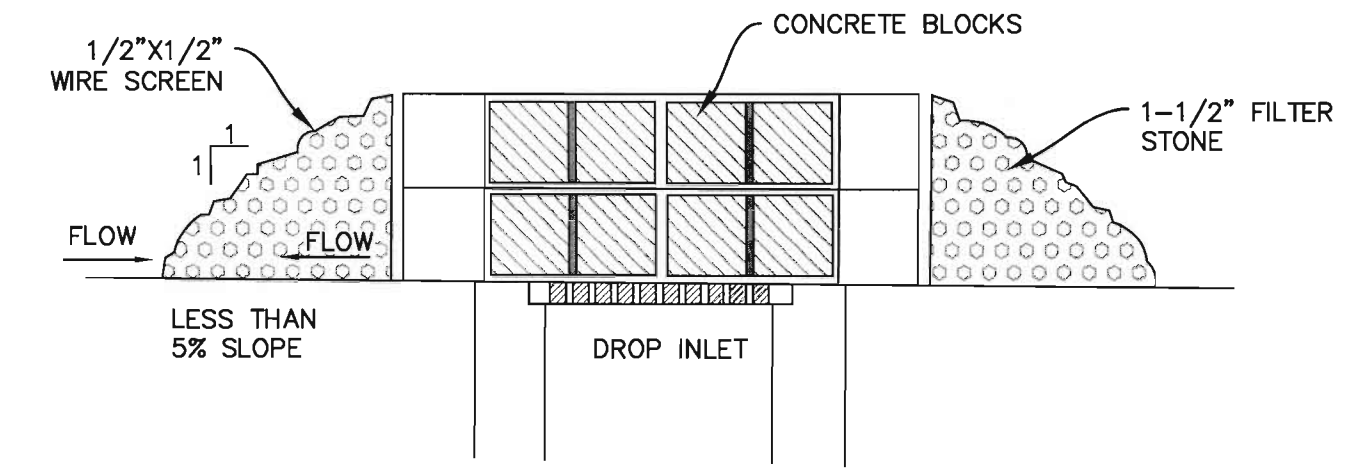


NOTE:
GRADE TO DRAIN AWAY FROM STABILIZATION AND STREET PAVED SURFACE. DRAINAGE MUST FLOW AWAY FROM ENTRANCE.

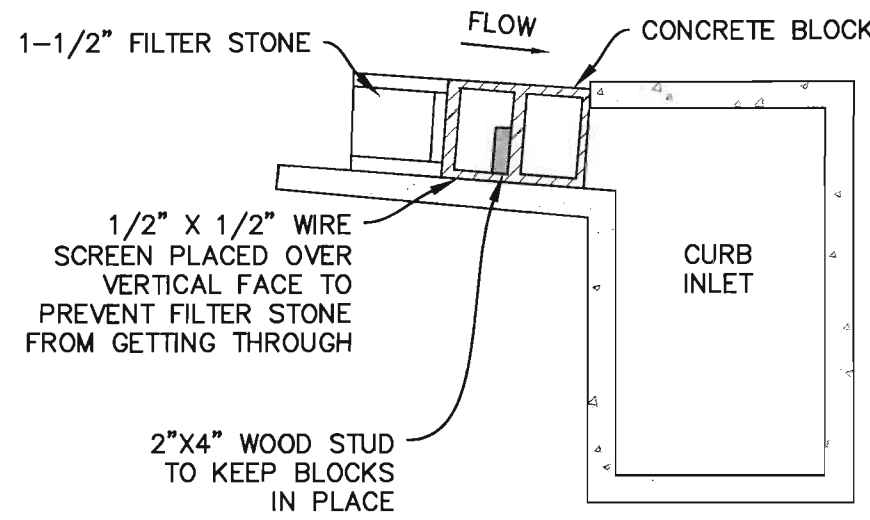
1 STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE



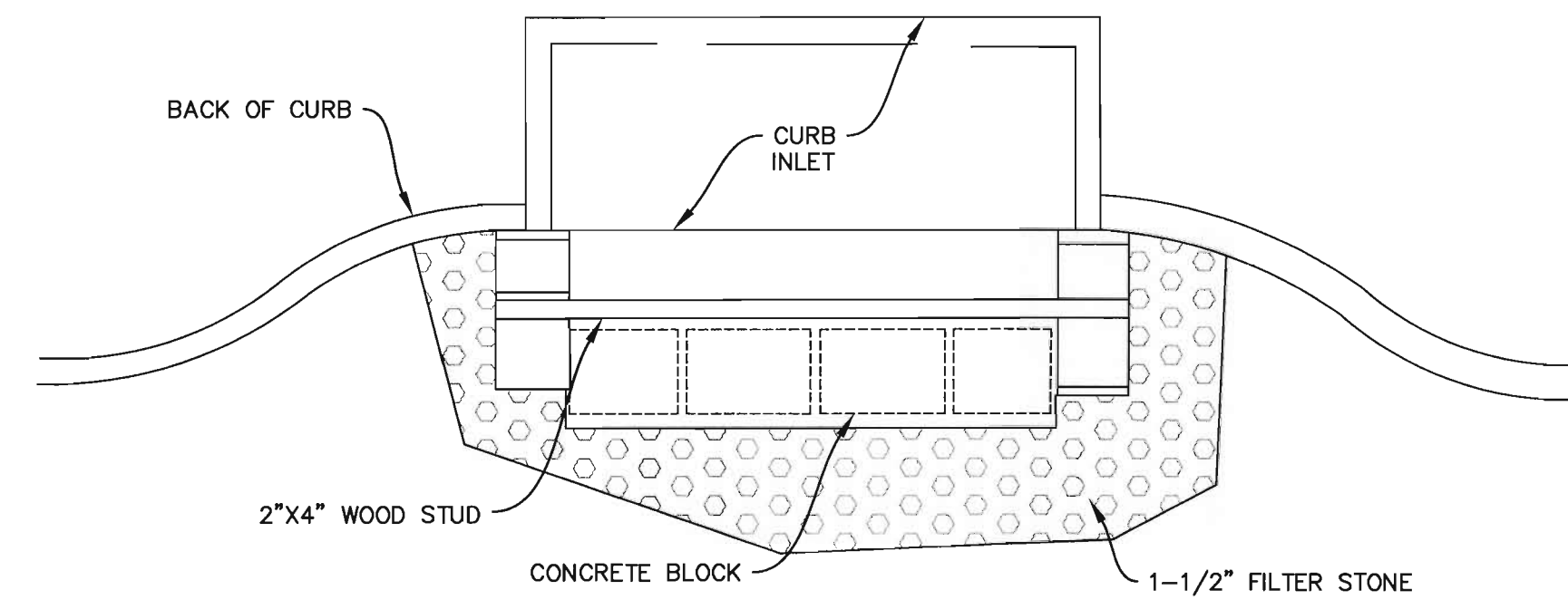
2 SILT FENCE
NOT TO SCALE



3 DROP INLET PROTECTION
NOT TO SCALE

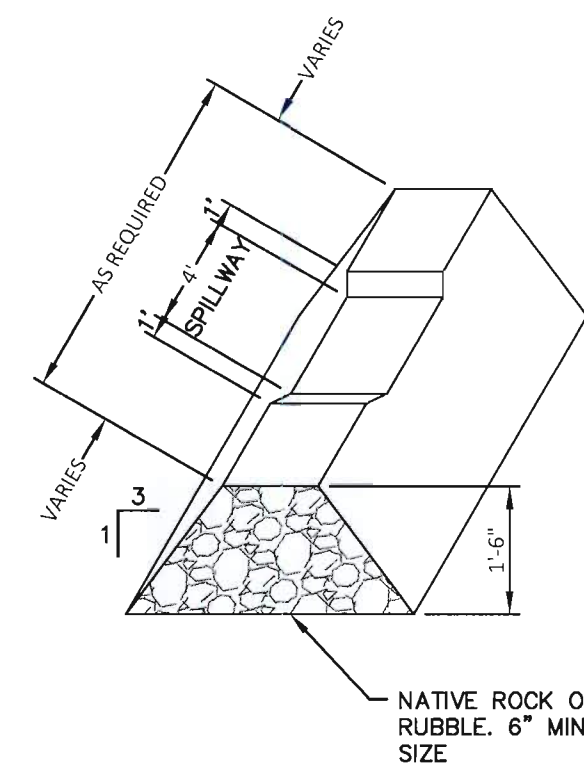


SECTION SECTION



NOTE: P2 INLET FILTERS ARE REQUIRED WHEN STREETS OR PAVEMENT ARE OPEN TO VEHICULAR TRAFFIC. SEDIMENT BARRIERS ARE NOT ALLOWED ON OPEN THROUGHFARES.

4 CURB INLET PROTECTION
NOT TO SCALE



- NOTES:**
1. USE ONLY OPEN GRADED ROCK 4-8 INCHES IN DIAMETER FOR STREAM FLOW CONDITION. USE OPEN GRADED ROCK 3-5 INCHES IN DIAMETER FOR OTHER CONDITIONS.
 2. ROCK BERM SHALL BE SECURED WITH A WOVEN WIRE SHEATHING HAVING A MAX. OPENING OF 1 INCH AND A MIN. WIRE SIZE OF 20 GAUGE AND SHALL BE BURIED IN A TRENCH APPROX. 3 TO 4 INCHES DEEP.
 3. THE ROCK BERM SHALL BE INSPECTED WEEKLY OR AFTER EACH RAIN EVENT AND SHALL BE REPLACED WHEN THE STRUCTURE CEASES TO FUNCTION AS INTENDED DUE TO SILT ACCUMULATION AMONG THE ROCKS, WASH OUT, CONSTRUCTION TRAFFIC DAMAGE, ETC.
 4. WHEN SILT REACHES A DEPTH EQUAL TO ONE-THIRD OF THE HEIGHT OF THE BERM OR ONE FOOT, WHICHEVER IS LESS, THE SILT SHALL BE REMOVED AND DISPOSED OR PROPERLY.
 5. WHEN THE SITE IS COMPLETELY STABILIZED, THE BERM AND ACCUMULATED SILT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED MANNER.
 6. ROCK BERM SHOULD BE USED AS CHECK DAMS FOR CONCENTRATED FLOW AND ARE NOT INTENDED FOR USE IN PERIMETER PROTECTION.

5 ROCK CHECK DAM
NOT TO SCALE

CONSTRUCTION RECORD DOCUMENTATION

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(214) 679 - 1679
FIRM No. 19244
Thomas P. Jones, P.E. tjones@tomden.com

Thomas P. Jones
THOMAS P. JONES, P.E. **3-28-2023**
DATE

DATE	BY	REVISIONS

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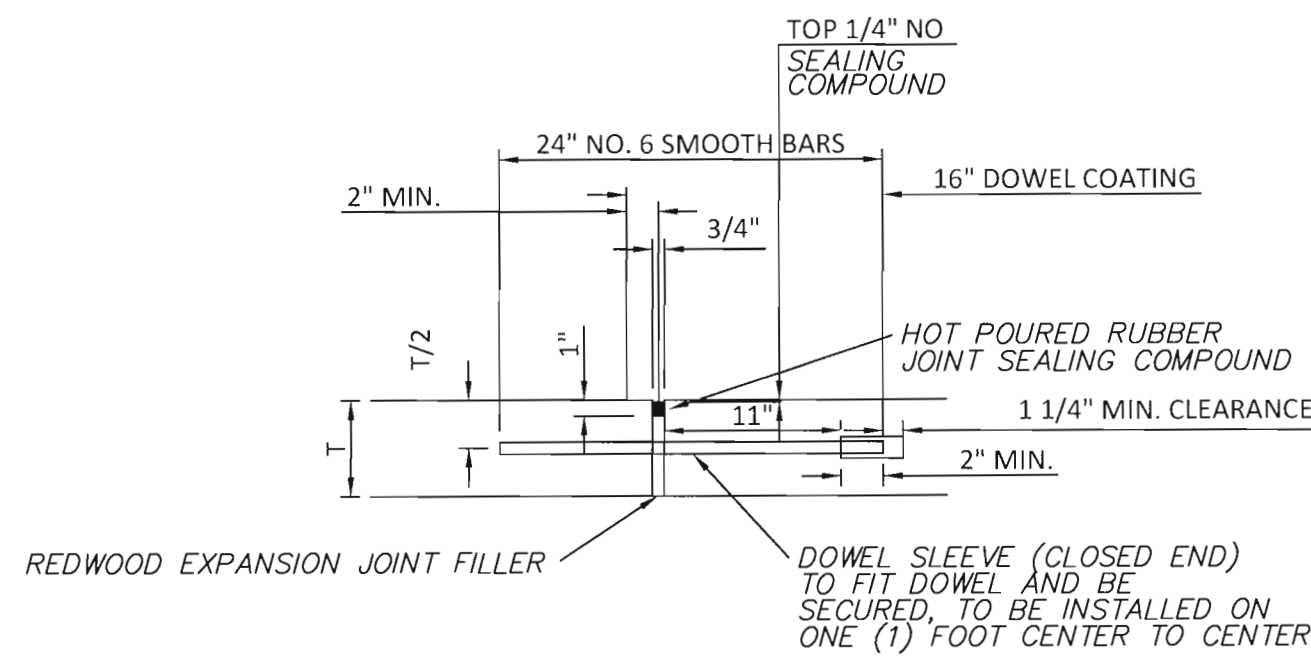
ROCKWALL FRIENDSHIP BAPTIST CHURCH
ROCKWALL, TEXAS
EROSION CONTROL DETAILS



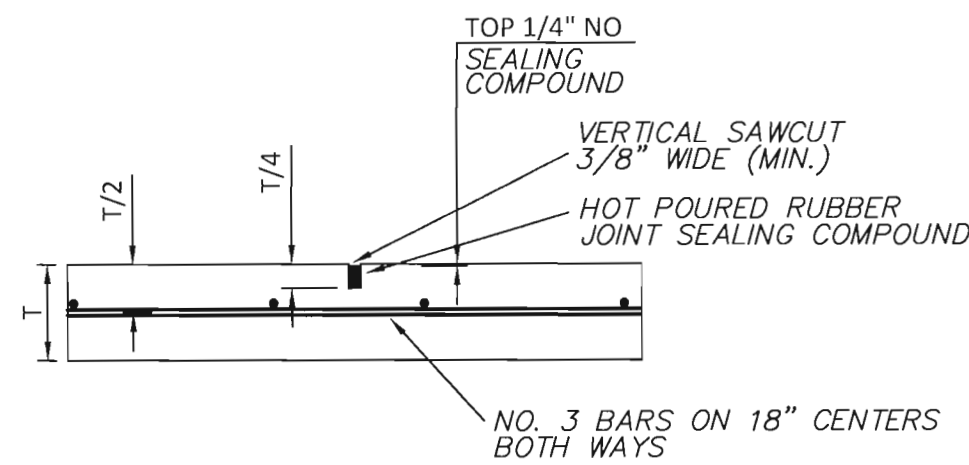
PROJ. MGR.: TPJ
PROJ. ASSOC.: TPJ
DRAWN BY: MJD
DATE: 03/13/2021

SHEET
C7

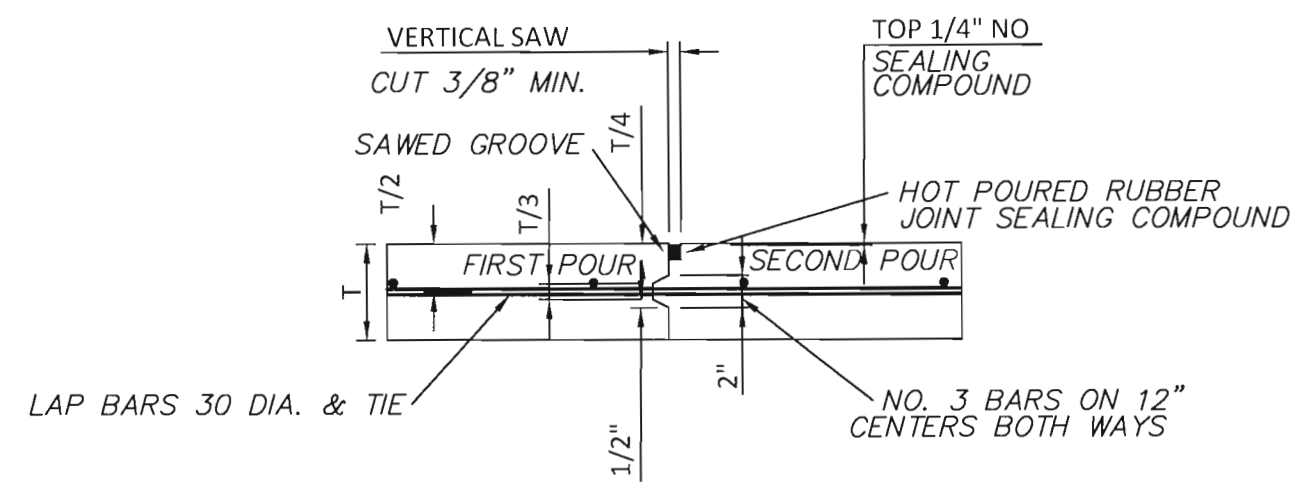
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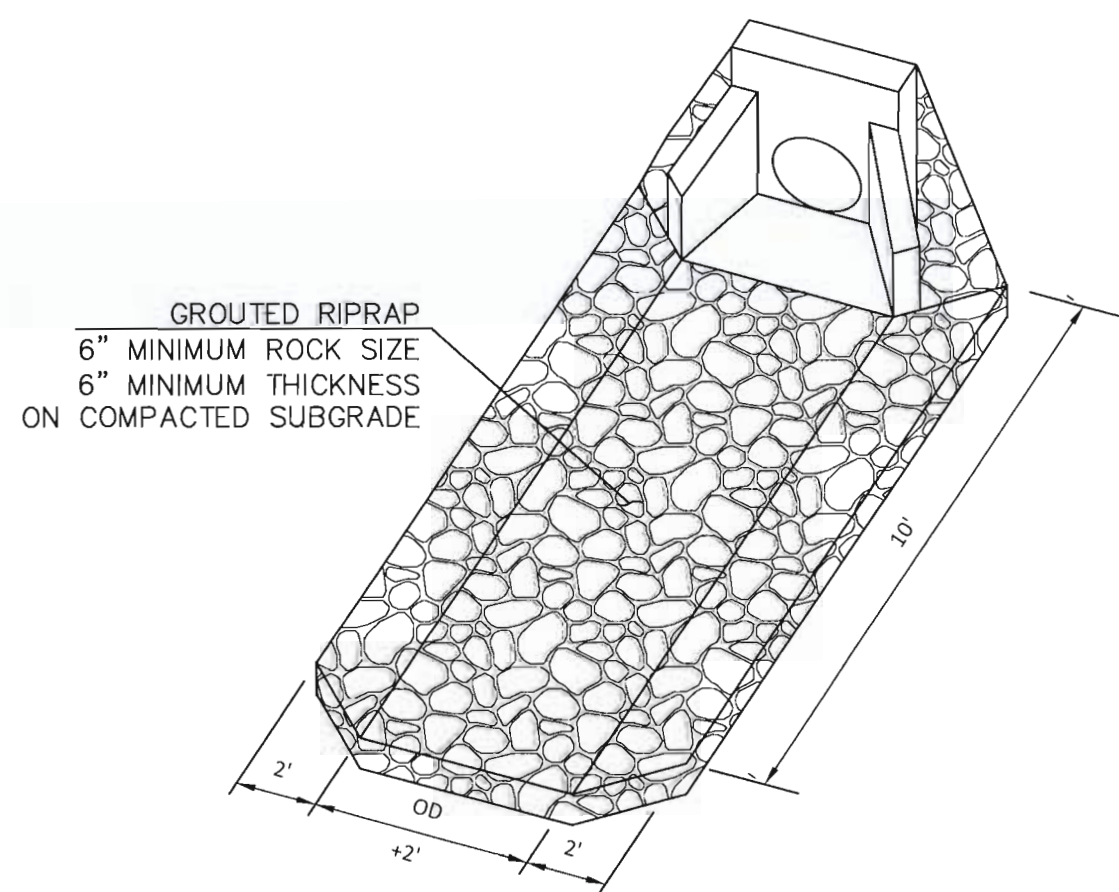
EXPANSION JOINT DETAIL
1"=1"



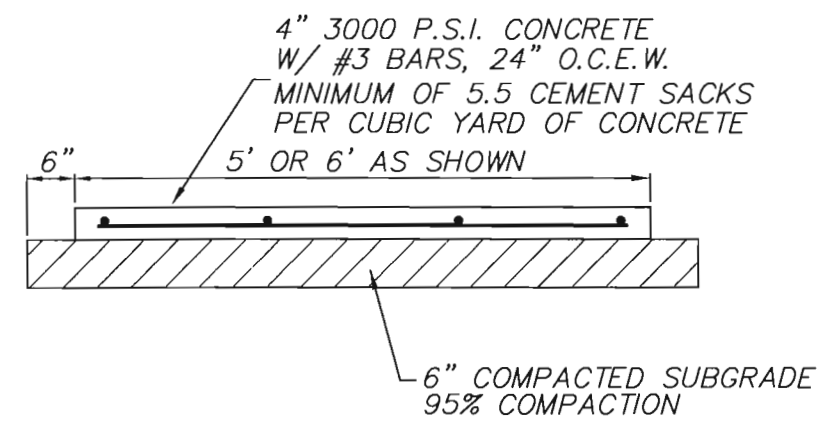
SAWCUT DETAIL
1"=1"



CONSTRUCTION JOINT DETAIL
1"=1"

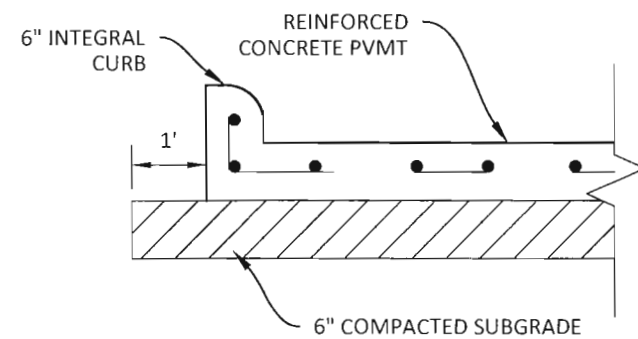


OUTFALL STRUCTURE RIPRAP



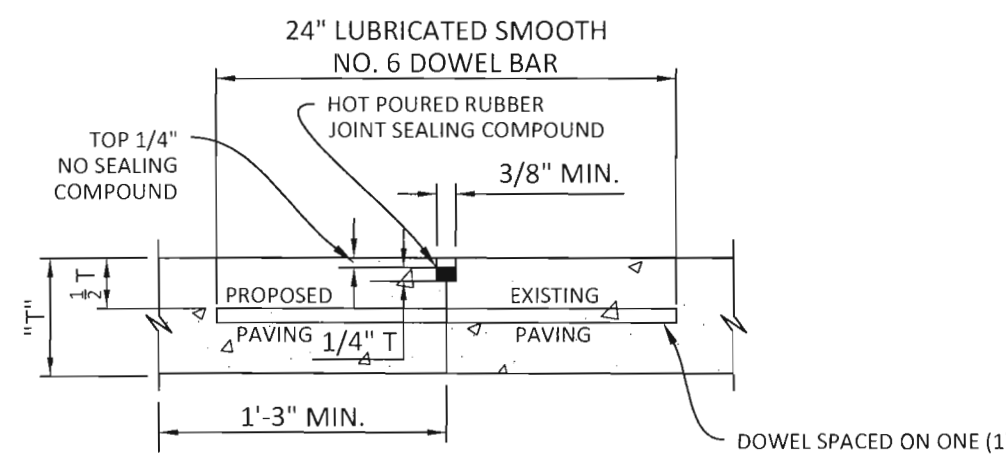
SIDEWALK SECTION
1"=2"

GROOVED CONTROL JOINTS, SPACING TO EQUAL SIDEWALK WIDTH, EXP. JOINTS @ 48' MAX SPACING AND @ INTERSECTIONS.



PAVEMENT SECTION
N.T.S.

- FOR FIRELANE & DRIVE AISLES: 6" 3600 PSI, 6.5 SACK PVMT, 6" LIME STAB SUBGRADE, #3 BARS 24" OCEW
- FOR DUMPSTER PAD: 8" 4,000 PSI, 6.5 SACK PVMT, 6" LIME STAB SUBGRADE, #4 BARS 18" OCEW
- FOR PARKING AREAS: 5" 3,600 PSI, 5.5 SACK MIN PVMT, 6" COMPACTED SUBGRADE, #3 BARS 24" OCEW



LONGITUDINAL BUTT JOINT
N.T.S.

- NOTES: T = PAVEMENT
- LONGITUDINAL BUTT CONSTRUCTION MAY BE UTILIZED IN PLACE OF LONGITUDINAL HINGED (KEYWAY) JOINT AT CONTRACTORS OPTION.
 - DOWEL BARS SHALL BE DRILLED INTO PAVEMENT HORIZONTALLY BY USE OF A MECHANICAL RIG.
 - DRILLING BY HAND IS NOT ACCEPTABLE, PUSHING DOWEL BARS INTO GREEN CONCRETE IS NOT ACCEPTABLE.

GENERAL NOTES

- No parking of Contractor's equipment or employees is allowed except on the project site or in designated Contractor yard areas.
- Perimeter control points and a local Benchmark shall be provided. All other construction staking shall be provided by the Contractor. Contractor shall protect and maintain control points provided.
- All inspections, testing and cost thereof will be provided by the Owner through an independent testing company or the City.
- All areas outside of the project site which are disturbed by the Contractor's activities shall be restored to its original condition and seeded or repaved as required.
- Contractor shall coordinate his work with other contractors and (or) public/private utility companies which may be working in the area.
- Barricades and warning signs shall be installed as required by the City, or the Engineer. Construction and Placement shall conform to the Texas Manual on Uniform Traffic Control Devices, latest edition.
- Temporary job-site trailers and storage areas must comply with current City requirements.
- Existing utilities, appurtenances and improvements shall be protected or removed as noted. Contractor shall repair or replace any damages.
- Where grade changes are proposed at existing utility appurtenances, Contractor shall adjust such appurtenances as required.
- Water for Contractor is available adjacent to the site. Hydrant meter, backflow and double check valve required.
- Contractor yard and storage areas must be approved by the Owner. No employee or equipment parking shall be allowed anywhere else at any time.
- Contractor shall secure and pay for all permits, fees, and licenses necessary for the execution of the work.
- Contractor shall comply with all applicable local, state & federal laws and ordinances.
- Contractor shall maintain record drawings which shall be reviewed by the Owner prior to each monthly pay application review.
- Contractor shall comply with the SWPPP prepared as part of this project and any other conditions required by the Texas General Permit, the EPA or the City regarding erosion control.
- All materials used in construction shall have a vendor's certified test report. Submittals shall be delivered to the Engineer before permission will be granted for use of the material. In the event additional tests are required, they shall be performed by an approved independent testing laboratory and shall be paid for by the Contractor.
- All haul roads and access routes and the location of all staging, stockpile and storage areas shall be subject to the approval of the Engineer. The Contractor shall be responsible for maintaining and repairing all roads and other facilities used during construction. Upon completion of the project all existing roads shall be left in a condition equal to that at the time the Contractor commences work on this project.
- The location and dimensions shown on the plans relative to existing utilities are based on the information available. It shall be the Contractor's responsibility to verify locations of adjacent and/or conflicting utilities sufficiently in advance of construction in order that he may negotiate such adjustments as necessary in the construction process to provide adequate clearances. The contractor shall take all necessary precautions in order to protect all services encountered. Per Texas House Bill 1565, effective as of September 1, 1989, it shall be the responsibility of the Construction Contractor to provide and maintain a viable trench safety system at all times during construction activities. Bid items for trench excavation safety protection are included in the proposal.
- The Contractor shall fully comply with all Local, State and Federal Laws, including all codes, ordinances and regulations applicable to this contract and the work to be done thereunder, which exist or which may be enacted later by governmental bodies having jurisdiction or authority for such enactment.
- All work which has been rejected or condemned shall be repaired, or if it cannot be repaired satisfactorily, it shall be removed and replaced at the Contractor's expense. Defective materials shall be immediately removed from the work site.
- The Contractor shall, at all times, keep the site of the work and adjacent premises as free from material, debris and rubbish as is practicable and shall remove same from any portion of the site if, in the opinion of the Owner, such material, debris or rubbish constitutes a nuisance or is objectionable.
- The Contractor shall make a final clean-up of all parts of the work before acceptance by the Developer. This clean-up shall include removal of all objectionable materials and, in general, preparing the site of the work in an orderly appearance.

GRADING NOTES

- Install silt fence and provide on-going maintenance.
- Maintain and protect ordinary and topsoil stockpiles.
- All grade tolerances 0.1 foot.
- Perform additional fine grading around paving as required to meet finished grades indicated on the plans.
- Place topsoil in landscape islands (4-inch minimum depth).
- Fine grade interior landscape areas and islands to provide smooth finish with 4% minimum grade for positive drainage unless otherwise indicated on the plans.
- Regrade perimeter landscape areas as necessary.
- Excess ordinary excavation shall be removed from the site.
- Excess topsoil shall be removed from the site.
- All fill shall be compacted using a sheep's foot roller and to 95% std. density.
- 75%-80% of all disturbed areas shall have a minimum 1" stand of grass established prior to engineering acceptance.
- The detention system(s) shall be fully installed and functioning per approved plan prior to any installation of paving. The sides and bottom to have either sod or anchored seeded curlex installed in detention systems prior to paving.

PAVING NOTES

- All work shall conform to these plans and contract documents and to the latest edition of the North Central Texas Council of Governments Standards Specifications for Public Works Construction (COG) as amended by the contract documents and the City, 5th Edition.
- All paving dimensions are measured to back of curb and edge of pavement.
- All curb radii are as shown on the plans or typical details.
- Boundary monuments have been set by others. Contractor shall verify their existence and accuracy prior to construction. Advise the engineer immediately of any discrepancies.
- Contractor shall provide all staking.
- Coordinates may be provided to assist the Contractor and his surveyor. Should any discrepancy arise between the coordinates and the intent of the layout or plan, Contractor shall immediately inform the Engineer. Verify that coordinates and dimensions match during layout prior to construction.
- Pavement strength, thickness and reinforcing shall meet or exceed the plan, details, and City Standards.
- Concrete mix shall be 6 sack for machine pour and 6 1/2 sack for hand pours.
- Pavement subgrade shall be proof-rolled and any soft or pumping areas shall be excavated and recompacted prior to paving. All fill material to be compacted with a sheepsfoot roller.
- Where proposed pavement abuts existing pavement, provide machine drilled and epoxy set #3 bars on 24-inch centers, minimum 1-foot penetration, 24-inches long.
- Sawcut new pavement as soon as practical when concrete can support equipment and provide a neat and true cut.
- All joints shall be continuous through the curb.
- Saw all construction joints, clean and immediately seal.
- All structures (inlet, light poles, etc.) shall be isolated from the pavement with full depth expansion material.
- No sand under pavement.

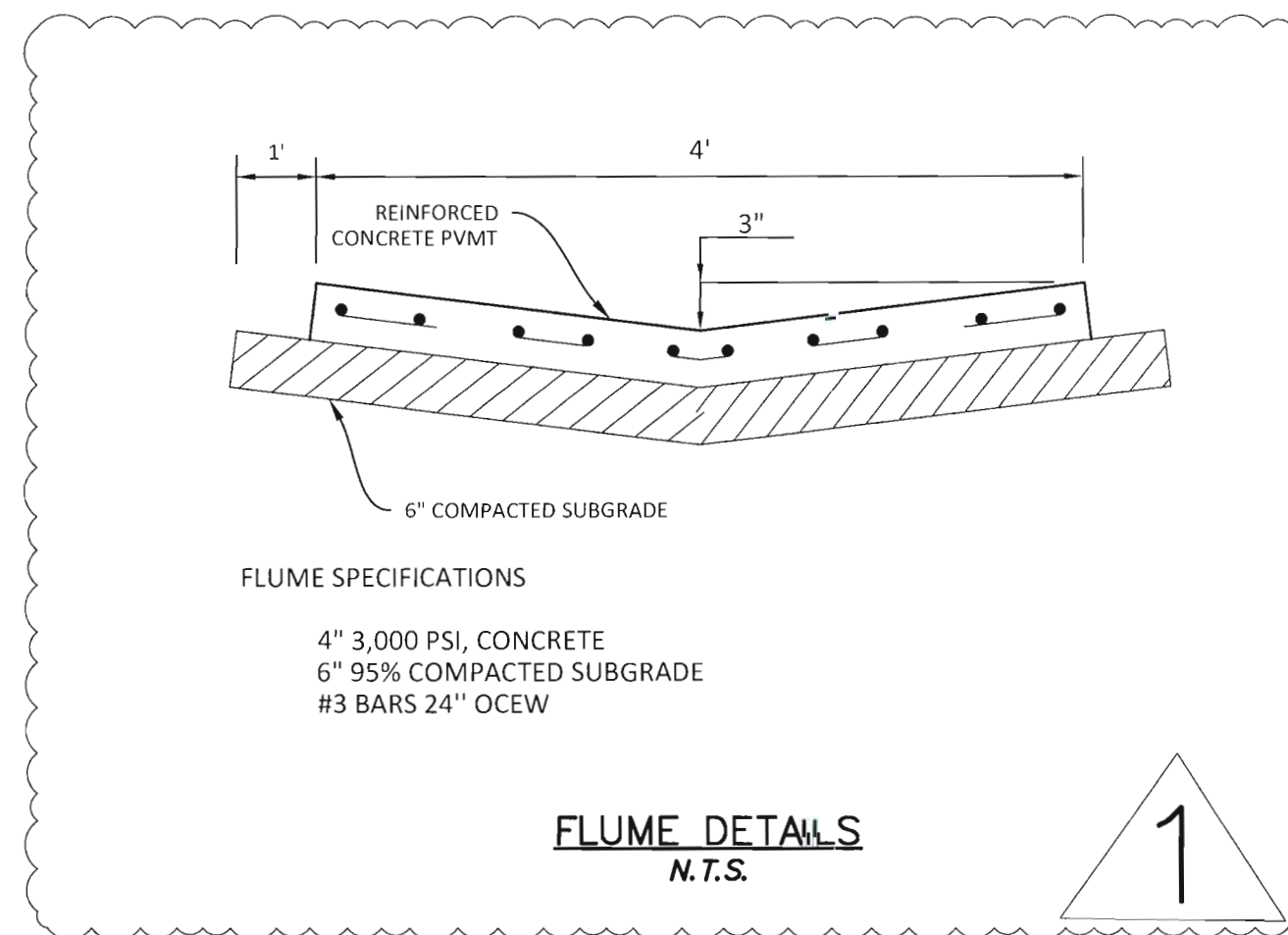
DRAINAGE NOTES

- Contractor shall comply with the requirements of the City and shall coordinate with same when connecting to their systems.
- Existing storm sewer and utility data is provided for information only from the best available plan records. Contractor shall verify their location and elevation prior to construction.
- Contractor is responsible for any repairs required to existing utilities due to his activities.
- Contractor shall comply with Texas House Bill 1569 and provide his own Trench Safety System design.
- All storm sewer pipe shall be as follows:
Diameter < 60" RCP ASTM C-76, Class III
Concrete pipe joints to be sealed with Rammed or equal.
- All connections shall be watertight. GROUT connections at structures.
- Storm sewer inlets may be pre-cast or cast-in-place. Throat depths and openings shall meet City Standards.
- Adjust all appurtenances (inlets, manholes, cleanouts, etc.) to final grade.

UTILITY NOTES

- Contractor shall comply with the requirements of the City and shall coordinate with same when connecting to their systems.
- Existing storm sewer and utility data is provided for information only from the best available plan records. Contractor shall verify their location and elevation prior to construction.
- For all construction projects in which trench excavation will exceed five feet (5') the Contractor shall provide detailed plans and specifications for adequate safety systems that meet OSHA standards.
- If there is less than 2' of clearance between the storm and sanitary sewer services, the sanitary sewer services will need to be concrete encased.
- Contractor shall coordinate installation of utilities in such a manner as to avoid conflicts and to assure proper depths are achieved.
- The Contractor shall, on all utilities, coordinate inspection and testing with the appropriate authorities prior to backfilling trenches.
- Notify all utility companies at least 48 hours in advance of any site construction.
- Coordinate with other Contractors installing gas, electric and telephone services.
- Install Blue EMS disks on the waterline at 300ft intervals and every change in direction, service and valves.
- Install Green EMS disks on the sanitary sewer line at every manhole, cleanout, and service.
- Waterline shall be AWWA C900 PVC Pipe, DR 14 PC305 (blue in color).
- All water and sanitary sewer work designated as "private" in this set of plans shall be installed in accordance with the international plumbing code, permitted and inspected by the city building inspection department and installed by a licensed plumber.
- All manholes to be Rovenlined or approved equal.

SEE ATTACHED CITY GENERAL CONSTRUCTION NOTES SHEETS 1&2



FLUME DETAILS
N.T.S.

CONSTRUCTION RECORD DOCUMENTATION

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(214) 679 - 1679
FIRM No. 19244
Thomas P. Jones, P.E. tjones@tomden.com

THOMAS P. JONES, P.E. DATE: 3-28-2023

DATE	7/07/21/2021
REVISIONS	
DRAWN BY	TPJ
CHECKED BY	TPJ
INVESTIGATED BY	
APPROVED BY	
PROJECT NO.	
DATE	

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ROCKWALL FRIENDSHIP BAPTIST CHURCH
ROCKWALL, TEXAS
TYP. SECTIONS, GENERAL NOTES, AND DETAILS



PROJ. MGR.: TPJ
PROJ. ASSOC.: TPJ
DRAWN BY: MJD
DATE: 03/13/2021

SHEET
C8

GENERAL ITEMS

- All construction shall conform to the requirements set forth in the City of Rockwall's Engineering Department's "Standards of Design and Construction" and the "Standard Specifications for Public Works Construction" by the North Texas Central Council of Governments, 5th edition amended by the City of Rockwall. The CONTRACTOR shall reference the latest City of Rockwall standard details provided in the Rockwall Engineering Departments "Standards of Design and Construction" manual for details not provided in these plans. The CONTRACTOR shall possess one set of the NCTCOG Standard Specifications and Details and the City of Rockwall's "Standards of Design and Construction" manual on the project site at all times
- Where any conflicting notes, details or specifications occur in the plans the City of Rockwall General Construction Notes, Standards, Details and Specifications shall govern unless detail or specification is more strict.
- The City of Rockwall Engineering Departments "Standards of Design and Construction" can be found online at: <http://www.rockwall.com/engr.asp>
- All communication between the City and the CONTRACTOR shall be through the Engineering Construction Inspector and City Engineer or designated representative only. It is the responsibility of the CONTRACTOR to contact the appropriate department for inspections that do not fall under this approved engineering plan set.
- Prior to construction, CONTRACTOR shall have in their possession all necessary permits, plans, licenses, etc.
- The CONTRACTOR shall have at least one original stamped and signed set of approved engineering plans and specifications on-site and in their possession at all times. A stop work order will be issued if items are not on-site. Copies of the approved plans will not be substituted for the required original "approved plans to be on-site".
- All material submittals, concrete batch designs and shop drawings required for City review and approval shall be submitted by the CONTRACTOR to the City sufficiently in advance of scheduled construction to allow no less than 10 business days for review and response by the City.
- All site dimensions are referenced to the face of curb or edge of pavement unless otherwise noted.
- The City requires ten (10%) percent-two (2) year maintenance bond for paving, paving improvements, water systems, wastewater systems, storm sewer systems including detention systems, and associated fixtures and structures which are located within the right-of-ways or defined easements. The two (2) year maintenance bond is to state "from date of City acceptance" as the starting time.
- A review of the site shall be conducted at twenty (20) months into the two (2) year maintenance period. The design engineer or their designated representative and the CONTRACTOR shall be present to walk the site with the City of Rockwall Engineering Inspection personnel.

EROSION CONTROL & VEGETATION

- The CONTRACTOR or developer shall be responsible, as the entity exercising operational control, for all permitting as required by the Environmental Protection Agency (EPA) and the Texas Commission on Environmental Quality (TCEQ). This includes, but is not limited to, preparation of the Storm Water Pollution Prevention Plan (SWPPP), the Construction Site Notice (CSN), the Notice of Intent (NOI), the Notice of Termination (NOT) and any Notice of Change (NOC) and is required to pay all associated fees
- Erosion control devices as shown on the erosion control plan for the project shall be installed prior to the start of land disturbing activities.
- All erosion control devices are to be installed in accordance with the approved plans, specifications and Storm Water Pollution Prevention Plan (SWPPP) for the project. Erosion control devices shall be placed and in working order prior to start of construction. Changes are to be reviewed and approved by the design engineer and the City of Rockwall prior to implementation.
- If the Erosion Control Plans and Storm Water Pollution Prevention Plan (SWPPP) as approved cannot appropriately control erosion and off-site sedimentation from the project, the erosion control plan and/or the SWPPP is required to be revised and any changes reported to the Texas Commission on Environmental Quality (TCEQ), when applicable.
- All erosion control devices shall be inspected weekly by the CONTRACTOR and after all major rain events, or more frequently as dictated in the project Storm Water Pollution Prevention Plan (SWPPP). CONTRACTOR shall provide copies of inspection's reports to the engineering inspection after each inspection.
- The CONTRACTOR shall not dispose of waste and any materials into streams, waterways or floodplains. The CONTRACTOR shall secure all excavation at the end of each day and dispose of all excess materials.
- CONTRACTOR shall take all available precautions to control dust. CONTRACTOR shall control dust by sprinkling water or other means as approved by the City Engineer.
- CONTRACTOR shall establish grass and maintain the seeded area, including watering, until a "Permanent Stand of Grass" is obtained at which time the project will be accepted by the City. A "Stand of Grass" (not winter rye or weeds) shall consist of 75% to 80% coverage of all disturbed areas and a minimum of one-inch (1") in height as determined by the City. No bare spots will be allowed. Re-seeding will be required in all washed areas and areas that don't grow.
- All City right-of-ways shall be sodded if disturbed. No artificial grass is allowed in any City right-of-way and/or easements.
- All adjacent streets/alleys shall be kept clean at all times
- CONTRACTOR shall keep construction site clean at all times, immediately contain all debris and trash, all debris and trash shall be removed at the end of each work day, and all vegetation on the construction site 10-inches or taller in height must be cut immediately.
- Suspension of all construction activities for the project will be enforced by the City if any erosion control requirements are not met. Work may commence after deficiency has been rectified.
- During construction of the project, all soil stockpiles and borrow areas shall be stabilized or protected with sediment trapping measures. The CONTRACTOR is responsible for the temporary protection and permanent stabilization of all soil stockpiles on-site as well as borrow areas and soil intentionally transported from the project site.
- Where construction vehicles access routes intersect paved or public roads/alleys, construction entrances shall be installed to minimize the transport of sediment by vehicular tracking onto paved surfaces. Where sediment is transferred onto paved or public surfaces, the surface shall be immediately cleaned. Sediment shall be

- removed from the surface by shoveling or sweeping and transported to a sediment disposal area. Pavement washing shall be allowed only after sediment is removed in this manner.
- All drainage inlets shall be protected from siltation, ineffective or unmaintained protection devices shall be immediately replaced and the inlet and storm system cleaned. Flushing is not an acceptable method of cleaning.
 - During all dewatering operations, water shall be pumped into an approved filtering device prior to discharge into a receiving outlet.

TRAFFIC CONTROL

- All new Detouring or Traffic Control Plans are required to be submitted to the City for review and approval a minimum of 21 calendar days prior to planned day of implementation.
- When the normal function of the roadway is suspended through closure of any portion of the right-of-way, temporary construction work zone traffic control devices shall be installed to effectively guide the motoring public through the area. Consideration for road user safety, worker safety, and the efficiency of road user flow is an integral element of every traffic control zone.
- All traffic control plans shall be prepared and submitted to the Engineering Department in accordance with the standards identified in Part VI of the most recent edition of the TMUTCD. Lane closures will not occur on roadways without an approval from the Rockwall Engineering Department and an approved traffic control plan. Traffic control plans shall be required on all roadways as determined by the City Engineer or the designated representative.
- All traffic control plans must be prepared, signed, and sealed by an individual that is licensed as a professional engineer in the State of Texas. All traffic control plans and copies of work zone certification must be submitted for review and approval a minimum of three (3) weeks prior to the anticipated temporary traffic control.
- The CONTRACTOR executing the traffic control plan shall notify all affected property owners two (2) weeks prior to any the closures in writing and verbally.
- Any deviation from an approved traffic control plan must be reviewed by the City Engineer or the designated representative. If an approved traffic control plan is not adhered to, the CONTRACTOR will first receive a verbal warning and be required to correct the problem immediately. If the deviation is not corrected, all construction work will be suspended, the lane closure will be removed, and the roadway opened to traffic.
- All temporary traffic control devices shall be removed as soon as practical when they are no longer needed. When work is suspended for short periods of time at the end of the workday, all temporary traffic control devices that are no longer appropriate shall be removed or covered. The first violation of this provision will result in a verbal warning to the construction foreman. Subsequent violations will result in suspension of all work at the job site for a minimum of 48 hours. All contractors working on City funded projects will be charged one working day for each 24 hour closure.
- Lane closures on any major or minor arterial will not be permitted between the hours of 6:00 am to 9:00 am and 3:30 pm to 7:00 pm. Where lane closures are needed in a school area, they will not be permitted during peak hours of 7:00 am – 9:00 am and 3:00 pm to 5:00 pm. Closures may be adjusted according to the actual start-finish times of the actual school with approval by the City Engineer. The first violation of this provision will result in a verbal warning to the construction foreman. Subsequent violations will result in suspension of all work at the job site for a minimum of 48 hours. All contractors working on City funded projects will be charged one working day for each 24 hour closure of a roadway whether they are working or not.
- No traffic signs shall be taken down without permission from the City.
- No street/roadway will be allowed to be fully closed.

UTILITY LINE LOCATES

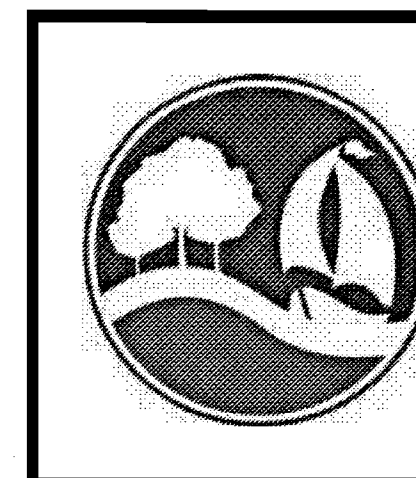
- It is the CONTRACTOR's responsibility to notify utility companies to arrange for utility locates at least 48 hours prior to beginning construction. The completeness and accuracy of the utility data shown on the plans is not guaranteed by the design engineer or the City. The CONTRACTOR is responsible for verifying the depth and location of existing underground utilities proper to excavating, trenching, or drilling and shall be required to take any precautionary measures to protect all lines shown and .or any other underground utilities not on record or not shown on the plans.
- The CONTRACTOR shall be responsible for damages to utilities
- CONTRACTOR shall adjust all City of Rockwall utilities to the final grades.
- All utilities shall be placed underground.
- CONTRACTOR shall be responsible for the protection of all existing main lines and service lines crossed or exposed by construction operations. Where existing mains or service lines are cut, broken or damaged, the CONTRACTOR shall immediately make repairs to or replace the entire service line with same type of original construction or better. The City of Rockwall can and will intervene to restore service if deemed necessary and charge the CONTRACTOR for labor, equipment, material and loss of water if repairs aren't made in a timely manner by the CONTRACTOR.
- The City of Rockwall (City utilities) is not part of the Dig Tess or Texas one Call – 811 – line locate system. All City of Rockwall utility line locates are to be scheduled with the City of Rockwall Service Center. 972-771-7730. A 48-hour advance notice is required for all non-emergency line locates.
- Underground utility lines shall be installed in accordance with the following standards in addition to other applicable criteria:
 - No more than 500 linear feet of trench may be opened at one time.
 - Material used for backfilling trenches shall be properly compacted to 95% standard density in order to minimize erosion, settlement, and promote stabilization that the geotechnical engineer recommends.
 - Applicable safety regulations shall be complied with.
- This plan details pipes up to 5 feet from the building. Refer to the building plans for building connections. CONTRACTOR shall supply and install pipe adapters as necessary.
- All underground lines shall be installed, inspected, and approved prior to backfilling.
- All concrete encasement shall have a minimum of 28 days compressive strength at 3,000 psi (min. 5.5 sack mix).

WATER LINE NOTES

- The CONTRACTOR shall maintain existing water service at all times during construction.
- Proposed water lines shall be AWWA C900-16 PVC Pipe (blue in color) for all sizes, DR 14 (PC 305) for pipeline sizes 12-inch and smaller, and DR 18 (PC 235) for 14-inch and larger water pipelines unless otherwise shown on water plan and profiles sheets. Proposed water lines shall be constructed with minimum cover of 4 feet for 6-inch through 8-inch, 5 feet for 12-inch through 18-inch and 6 feet for 20-inch and larger.
- Proposed water line embedment shall be NCTCOG Class 'B-3' as amended by the City of Rockwall's engineering standards of design and construction manual.
- CONTRACTOR shall coordinate the shutting down of all water lines with the City of Rockwall Engineering Inspector and Water Department. The City shall operate all water valves. Allow 5 business days from the date of notice to allow City personnel time to schedule a shut down. Two additional days are required for the CONTRACTOR to notify residents in writing of the shut down after the impacted area has been identified. Water shut downs impacting businesses during their normal operation hours is not allowed. CONTRACTOR is required to coordinate with the Rockwall Fire Department regarding any fire watch requirements as well as any costs incurred when the loss of fire protection to a structure occurs.
- CONTRACTOR shall furnish and install gaskets on water lines between all dissimilar metals and at valves (both existing and proposed).
- All fire hydrants and valves removed and salvaged shall be returned to the City of Rockwall Municipal Service Center.
- Blue EMS pads shall be installed at every change in direction, valve, curb stop and service tap on the proposed water line and every 250'.
- All water valve hardware and valve extensions, bolts, nuts and washers shall be 316 stainless steel.
- All fire hydrants bolts, nuts and washers that are buried shall be 316 stainless steel.
- Abandoned water lines to remain in place shall be cut and plugged and all void spaces within the abandoned line shall be filled with grout, flowable fill or an expandable permanent foam product. Valves to be abandoned in place shall have any extensions and the valve box removed and shall be capped in concrete.
- All fire hydrants will have a minimum of 5 feet of clearance around the appurtenance including but not limited to parking spaces and landscaping.
- All joints are to be megalug joints with thrust blocking.
- Water and sewer mains shall be kept 10 feet apart (parallel) or when crossing 2 feet vertical clearance.
- CONTRACTOR shall maintain a minimum of 4 feet of cover on all water lines.
- All domestic and irrigation services are required to have a testable backflow device with a double check valve installed per the City of Rockwall regulations at the property line and shown on plans.

WASTEWATER LINE NOTES

- The CONTRACTOR shall maintain existing wastewater service at all times during construction.
- Wastewater line for 4-inch through 15-inch shall be Green PVC – SDR 35 (ASTM D3034) [less 10 ft cover] and SDR 26 (ASTM D3034) [10 ft or more cover]. For 18-inch and larger wastewater line shall be Green PVC – PS 46 (ASTM F679) [less 10 ft cover] and PS 115 (ASTM F679) [10 ft or more cover]. No services will be allowed on a sanitary sewer line deeper than 10 feet.
- Proposed wastewater line embedment shall be NCTCOG Class 'H' as amended by the City of Rockwall's public works standard design and construction manual.
- Green EMS pads shall be installed at every 250', manhole, clean out and service lateral on proposed wastewater lines.
- CONTRACTOR shall CCTV all existing wastewater lines that are to be abandoned to ensure that all laterals are accounted for and transferred to proposed wastewater lines prior to abandonment.
- All abandoned wastewater and force main lines shall be cut and plugged and all void spaces within the abandoned line shall be filled with grout, flowable fill or an expandable permanent foam product.
- Existing manholes and cleanouts not specifically called to be relocated shall be adjusted to match final grades.
- All wastewater pipes and public services shall be inspected by photographic means (television and DVD) prior to final acceptance and after franchise utilities are installed. The CONTRACTOR shall furnish a DVD to the Engineering Construction Inspector for review. Pipes shall be cleaned prior to TV inspection of the pipes. Any sags, open joints, cracked pipes, etc. shall be repaired or removed by the CONTRACTOR at the CONTRACTOR's expense. A television survey will be performed as part of the final testing in the twentieth (20th) month of the maintenance period.
- All manholes (public or private) shall be fitted with inflow prevention. The inflow prevention shall conform to the measures called out in standard detail R-5031.
- All new or existing manholes being modified shall have corrosion protection being Raven Liner 405 epoxy coating, ConShield, or approved equal. Conshield must have terracotta color dye mixed in the precast and cast-in-place concrete. Where connections to existing manholes are made the CONTRACTOR shall rehab manhole as necessary and install a 125 mil thick coating of Raven Liner 405 or approved equal.
- All new or existing manholes that are to be placed in pavement shall be fitted with a sealed (gasketed) rim and cover to prevent inflow.
- If an existing wastewater main or trunk line is called out to be replaced in place a wastewater bypassing pump plan shall be required and submitted to the Engineering Construction Inspector and City Engineer for approval prior to implementation. Bypass pump shall be fitted with an auto dialer and conform to the City's Noise Ordinance. Plan shall be to the City sufficiently in advance of scheduled construction to allow no less than 10 business days for review and response by the City.
- CONTRACTOR shall maintain a minimum of 4 feet of cover on all wastewater lines.



GENERAL CONSTRUCTION NOTES
Sheet 1 of 2
October 2020

CITY OF ROCKWALL
ENGINEERING DEPARTMENT

385 S. Goliad
Rockwall, Texas 75087

P (972) 771-7746
F (972) 771-7748

DEMOLITION, REMOVAL, DISPOSAL AND EXCAVATION NOTES

- All pavements to be removed and replaced shall be saw cut to full depth along neat squared lines shown in the plans.
- Proposed concrete pavement shall be constructed with longitudinal butt construction joints at all connections to existing concrete pavement.
- All public concrete pavement to be removed and replaced shall be full panel replacement, 1-inch thicker and on top of 6-inch thick compacted flexbase.
- No excess excavated material shall be deposited in low areas or along natural drainage ways without written permission from the affected property owner and the City of Rockwall. No excess excavation shall be deposited in the City Limits without a permit from the City of Rockwall. If the CONTRACTOR places excess materials in these areas without written permission, the CONTRACTOR will be responsible for all damages resulting from such fill and shall remove the material at their own cost.

PAVING AND GRADING

- All detention systems are to be installed and verified for design compliance along with the associated storm sewer and outflow structures, prior to the start of any paving operations (including building foundations). Erosion protection shall be placed at the pond outflow structures, silt fence along the perimeter of the pond along with any of the associated erosion BMPs noted on the erosion control plan, and the sides and bottom of the detention system shall have either sod or anchored seeded curlex installed prior to any concrete placement.
- All paving roadway, driveways, fire lanes, drive-isles, parking, dumpster pads, etc. sections shall have a minimum thickness, strength, reinforcement, joint type, joint spacing and subgrade treatment shall at a minimum conform to the City standards of Design and Construction and table below.

Street/Pavement Type	Minimum Thickness (inches)	Strength 28-Day (psi)	Minimum Cement (sacks / CY)		Steel Reinforcement	
			Machine placed	Hand Placed	Bar #	Spacing (O.C.E.W.)
Arterial	10"	3,600	6.0	6.5	#4 bars	18"
Collector	8"	3,600	6.0	6.5	#4 bars	18"
Residential	6"	3,600	6.0	6.5	#3 bars	24"
Alley	7"-5"-7"	3,600	6.0	6.5	#3 bars	24"
Fire Lane	6"	3,600	6.0	6.5	#3 bars	24"
Driveways	6"	3,600	6.0	6.5	#3 bars	24"
Barrier Free Ramps	6"	3,600	N/A	6.5	#3 bars	24"
Sidewalks	4"	3,000	N/A	5.5	#3 bars	24"
Parking Lot/Drive Aisles	5"	3,000	5.0	5.5	#3 bars	24"
Dumpster Pads	7"	3,600	6.0	6.5	#3 bars	24"

- Reinforcing steel shall be tied (100%). Reinforcing steel shall be set on plastic chairs. Bar laps shall be minimum 30 diameters. Sawed transverse dummy joints shall be spaced every 15 feet or 1.25 time longitudinal butt joint spacing whichever is less. Sawing shall occur within 5 to 12 hours after the pour, including sealing. Otherwise, the section shall be removed and longitudinal butt joint constructed.
- No sand shall be allowed under any paving.
- All concrete mix design shall be submitted to the City for review and approval prior to placement.
- Fly ash may be used in concrete pavement locations provided that the maximum cement reduction does not exceed 20% by weight per C.Y. of concrete. The fly ash replacement shall be 1.25 lbs. per 1.0 lb. cement reduction.
- All curb and gutter shall be integral (monolithic) with the pavement.
- All fill shall be compacted by sheep's foot roller to a minimum 95% standard proctor. Maximum loose lift for compaction shall be 8 inches. All lifts shall be tested for density by an independent laboratory. All laboratory compaction reports shall be submitted to the City Engineering Construction Inspector once results are received. All reports will be required prior to final acceptance.
- All concrete compression tests and soil compaction/density tests are required to be submitted to the City's Engineering Inspector immediately upon results.
- All proposed sidewalks shall include barrier free ramps at intersecting streets, alleys, etc. Barrier free ramps (truncated dome plate in Colonial or brick red color) shall meet current City and ADA requirements and be approved by the Texas Department of Licensing and Regulation (TDLR).
- All public sidewalks shall be doveled into pavement where it abuts curbs and driveways. Expansion joint material shall be used at these locations.
- All connection of proposed concrete pavement to existing concrete pavement shall include a longitudinal butt joint as the load transfer device. All longitudinal butt joints shall be clean, straight and smooth (not jagged in appearance)
- Cracks formed in concrete pavement shall be repaired or removed by the CONTRACTOR at the City's discretion. CONTRACTOR shall replace existing concrete curbs, sidewalk, paving, a gutters as indicated on the plans and as necessary to connect to the existing infrastructure, including any damage caused by the CONTRACTOR.
- All residential lots will require individual grading plans submitted during the building permit process that correspond with the engineered grading and drainage area plans.
- Approval of this plan is not an authorization to grade adjacent properties when the plans or field conditions warrant off-site grading. Written permission must be obtained and signed from the affected property owner(s) and temporary construction easements may be required. The written permission shall be provided to the City as verification of approval by the adjacent property owner(s). Violation of this requirement will result in suspension of all work at the job site until issue has been rectified.
- All cut or fill slopes of non-paved areas shall be a maximum of 4:1 and minimum of 1%.
- CONTRACTOR agrees to repair any damage to property and the public right-of-way in accordance with the City Standards of Design and Construction.
- CONTRACTOR shall protect all monuments, iron pins/rods, and property corners during construction.
- CONTRACTOR shall ensure positive drainage so that runoff will drain by gravity flow to new or existing drainage inlets or sheet flow per these approved plans.

DRAINAGE / STORM SEWER NOTES


- The CONTRACTOR shall maintain drainage at all times during construction. Ponding of water in streets, drives, trenches, etc. will not be allowed. Existing drainage ways shall not be blocked or removed unless explicitly stated in the plans or written approval is given by the City.
- All structural concrete shall be 4200 psi compressive strength at 28 days minimum 7.0 sack mix, air entrained, unless noted otherwise. Fly ash shall not be allowed in any structural concrete.
- Proposed storm sewer embedment shall be NCTCOG Class 'B' as amended by the City of Rockwall's Engineering Department Standards of Design and Construction Manual.
- All public storm pipe shall be a minimum of 18-inch reinforced concrete pipe (RCP), Class III, unless otherwise noted.
- All storm pipe entering structures shall be grouted to assure connection at the structure is watertight.
- All storm structures shall have a smooth uniform poured mortar invert from invert in to invert out.
- All storm sewer manholes in paved areas shall be flush with the paving grade, and shall have traffic bearing ring and covers.
- All storm sewer pipes and laterals shall be inspected by photographic means (television and DVD) prior to final acceptance and after franchise utilities are installed. The CONTRACTOR shall furnish a DVD to the Engineering Construction Inspector for review. Pipes shall be cleaned prior to TV inspection of the pipes. Any sags, open joints, cracked pipes, etc. shall be repaired or removed by the CONTRACTOR at the CONTRACTOR's expense. A television survey will be performed as part of the final testing in the twentieth (20th) month of the maintenance period.

RETAINING WALLS

- All retaining walls, regardless of height, will be reviewed and approved by the City Engineering Department
- All retaining walls (including foundation stem walls), regardless of height, will be constructed of rock/stone/brick or rock/stone/brick faced. No smooth concrete walls are allowed. Wall materials shall be the same for all walls on the project.
- All portions, including footings, tie-backs, and drainage backfill, of the wall shall be on-site and not encroach into any public easements or right-of-way. The entire wall shall be in one lot and shall not be installed along a lot line.
- All walls 3 feet and taller will be designed and signed/sealed by a registered professional engineer in the State of Texas. The wall design engineer is required to inspect the wall construction and supply a signed/sealed letter of wall construction compliance to the City of Rockwall along with wall as-builts prior to City Engineering acceptance.
- No walls are allowed in detention easements. A variance to allow retaining walls in a detention easement will require approval by the Planning and Zoning Commission with appeals being heard by the City Council.

FINAL ACCEPTANCE AND RECORD DRAWINGS/AS-BUILTS

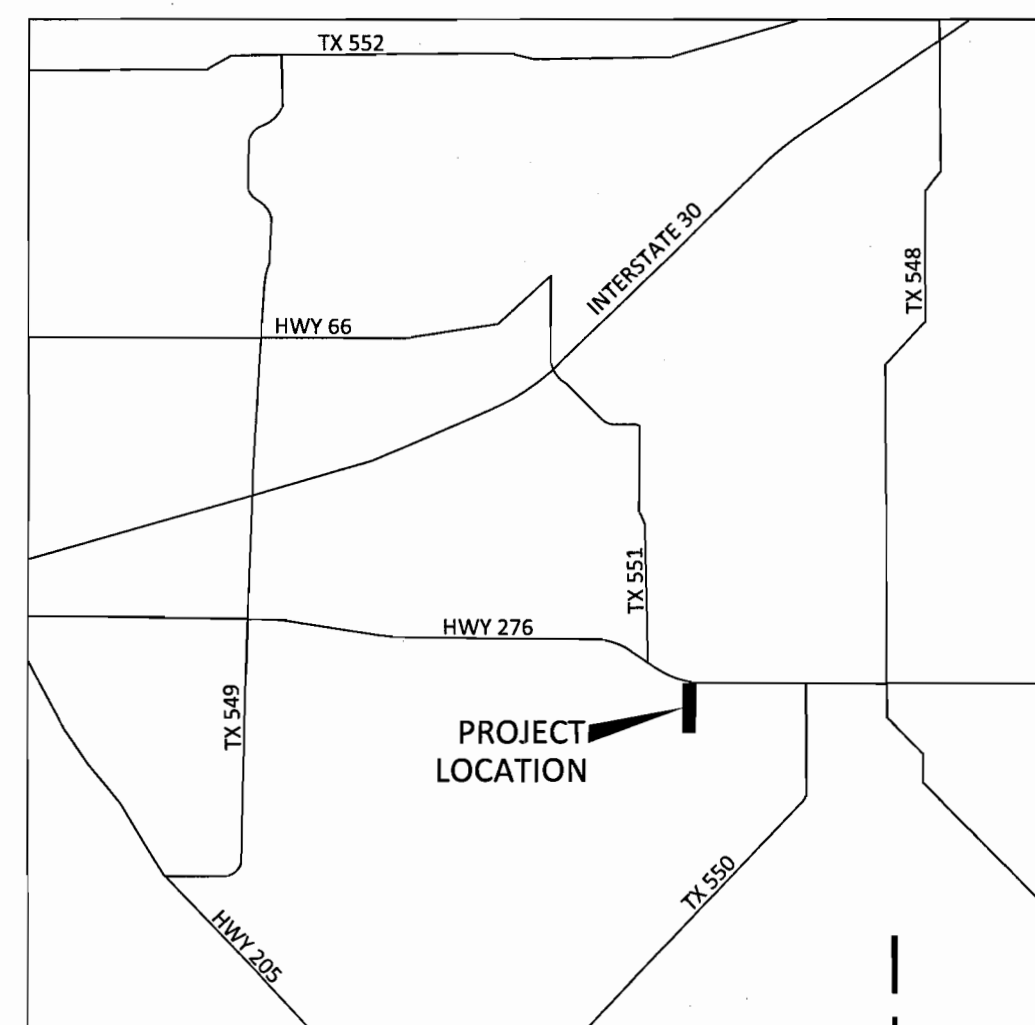
- Final Acceptance shall occur when all the items on the Checklist for Final Acceptance have been completed and signed-off by the City. An example of the checklist for final acceptance has been included in the Appendix of the Standards of Design and Construction. Items on the checklist for final acceptance will vary per project and additional items not shown on the check list may be required.
- After improvements have been constructed, the developer shall be responsible for providing to the City "As Built" or "Record Drawings". The Design Engineer shall furnish all digital files of the project formatted in Auto Cad 14, or 2000 format or newer and Adobe Acrobat (.pdf) format with a CD-ROM disk or flash drive. The disk or drive shall include a full set of plans along with any landscaping, wall plans, and details sheets.
- Submit 1-set of printed drawings of the "Record Drawings" containing copies of all sheets to the Engineering Construction Inspector for the project. The printed sheets will be reviewed by the inspector PRIOR to producing the "Record Drawing" digital files on disk or flash drive. This will allow any revisions to be addressed prior to producing the digital files.
- Record Drawing Disk drawings shall have the Design Engineers seal, signature and must be stamped and dated as "Record Drawings" or "As Built Drawings" on all sheets.
- The City of Rockwall will not accept any Record Drawing disk drawings which include a disclaimer. A disclaimer shall not directly or indirectly state or indicate that the design engineer or the design engineer's surveyor/surveyors did not verify grades after construction, or that the Record Drawings were based solely on information provided by the construction contractor/contractors. Any Record Drawings which include like or similar disclaimer verbiage will not be accepted by the City of Rockwall.
- Example of Acceptable Disclaimer: "To the best of our knowledge ABC Engineering, Inc., hereby states that this plan is As-Built. This information provided is based on surveying at the site and information provided by the contractor."

	GENERAL CONSTRUCTION NOTES Sheet 2 of 2 October 2020
	CITY OF ROCKWALL ENGINEERING DEPARTMENT 385 S. Goliad P (972) 771-7746 Rockwall, Texas 75087 F (972) 771-7748

H PROJECT INFORMATION

PROJECT NAME - ROCKWALL FRIENDSHIP BAPTIST CHURCH
 PROPOSED LAND USE - CHURCH
 ZONING DISTRICT - COMMERCIAL (C)
 OVERLAY - sh 276 OVERLAY
 TOTAL SITE AREA - 3.94 ACRES - 171,626 SQUARE FEET
 IMPREVIOUS SURFACE - 51.5% - 2.03 ACRE
 PREVIOUS SURFACE - 48.5% - 1.91 ACRE
 ADDITIONAL SQUARE FOOTAGE - 3,500 SQUARE FEET
 TOTAL SQUARE FOOTAGE - 23,500 SQUARE FEET
 TOTAL GROSS INTENSITY (FAR) 0.14 OR 14%
 SANCTUARY SEATING - 400 SEATS
 MINIMUM LOT COVERAGE - 60%
 MINIMUM LOT AREA - 10,000
 MINIMUM LOT WIDTH - 60
 MINIMUM LOT DEPTH - 100
 SETBACKS
 FRONT - 25
 REAR - 20
 SIDE - 0
 MINIMUM LOT DEPTH - 100
 STRUCTURE HEIGHT 240' MAX
 REQUIRED PARKING - 100
 400 SEATS AT 1 PER 4 SEATS
 PARKING PROVIDED 115
 4 HANDICAP PARKING - REGULAR
 3 HANDICAP PARKING - VAN

E LOCATION MAP

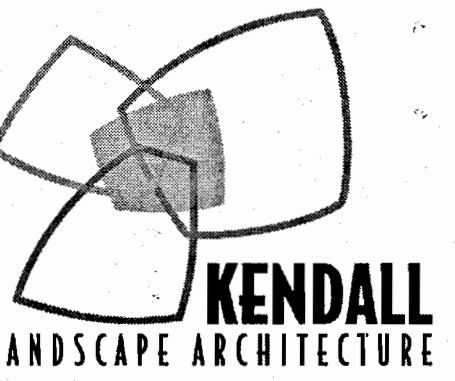


D PLANTING GENERAL NOTES

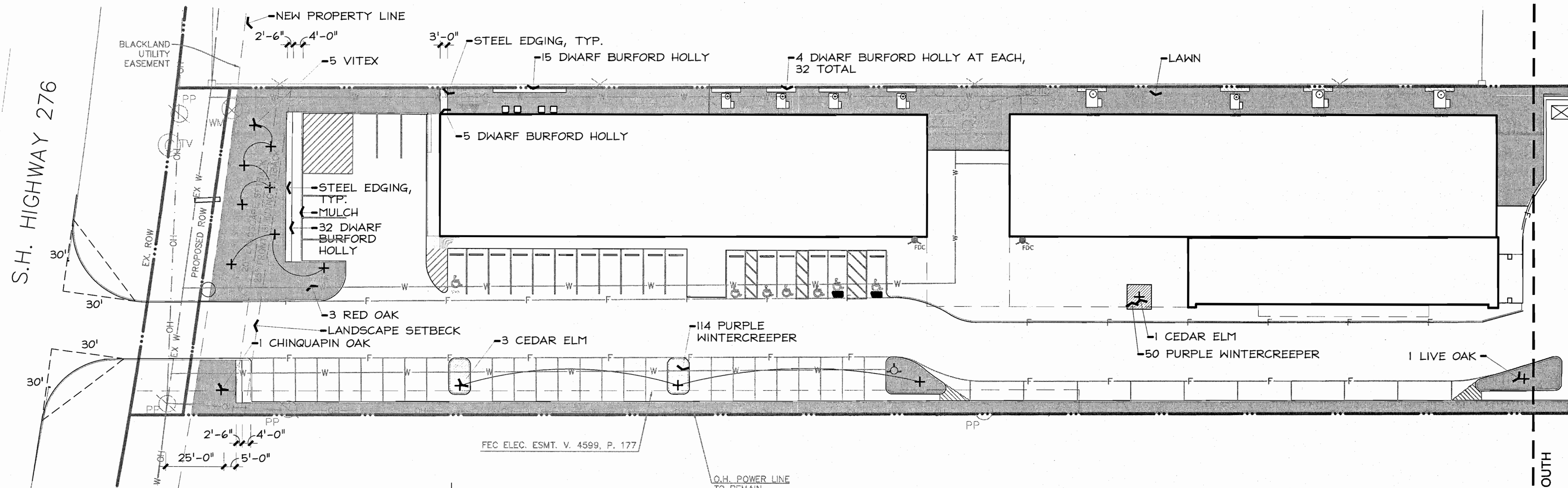
1. ALL SOIL EXCAVATION MAY BE DISPOSED OF ON SITE.
2. IF A LIVE UTILITY IS ENCOUNTERED DURING EXCAVATION, CONTACT OWNER'S REPRESENTATIVE.
3. SEE PLANTING SPECIFICATIONS FOR A COMPLETE DESCRIPTION OF PLANT MATERIAL AND INSTALLATION.
4. ALL BEDS MUST BE LAID OUT AND APPROVED PRIOR TO THE INSTALLATION OF THE IRRIGATION FOR COORDINATION.
5. ALL PLANT MATERIAL SHALL BE STAKED AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO PLANT INSTALLATION.
6. ALL PLANTING DETAILS ARE TYPICAL.
7. ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS MUST BE EITHER HYDROMULCHING OR SOLID SODDED UNLESS NOTED.

C PREPARATION GENERAL NOTES

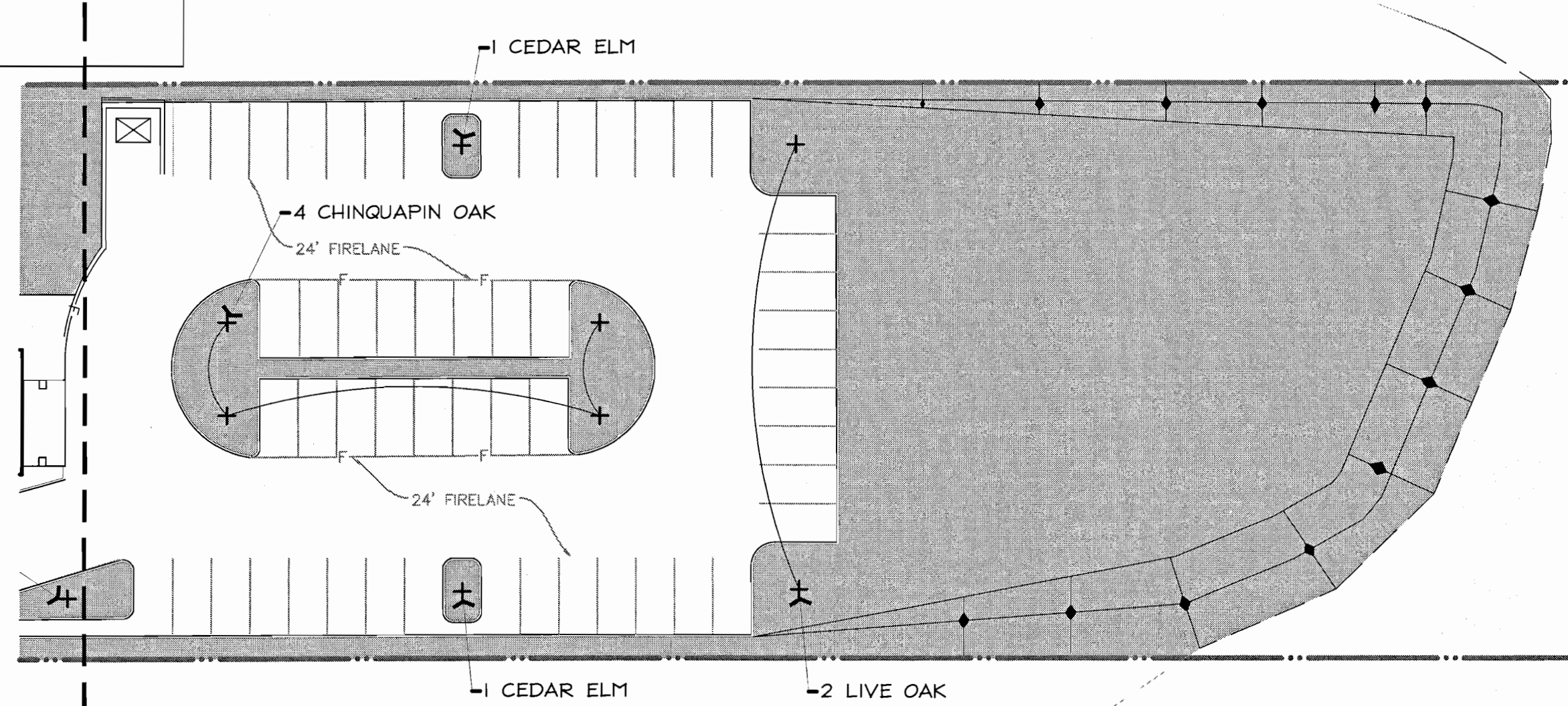
1. PLAN PREPARED BY:
 MICHAEL S. KENDALL
 KENDALL + LANDSCAPE ARCHITECTURE
 6976 SANTA BARBARA
 DALLAS, TEXAS 75214
 PHONE: (214) 739-3226
 E-MAIL: MIKE@KENDALL7.COM
 TEXAS LANDSCAPE ARCHITECT LICENSE NO. 1127
2. ALL AREAS SHALL BE IRRIGATED BY A LICENCES IRRIGATOR WITH AN AUTOMATIC UNDERGROUND IRRIGATION SYSTEM PROVIDING 100% COVERAGE. FOLLOW UDC REQUIREMENTS.
3. ALL REQUIRED TREES FROM THE CITY APPROVED LISTING.
4. IRRIGATION WILL MEET THE REQUIREMENTS OF UDC.
5. NO TREES WITHIN 5' OF ANY UTILITIES.



FRIENDSHIP BAPTIST CHURCH
 ROCKWALL, TEXAS



A LANDSCAPE PLAN - NORTH
 1" = 30'-0"



B LANDSCAPE PLAN - SOUTH
 1" = 30'-0"

EXISTING VEGETATION COVERAGE. ANY DISTURBANCE OF THE EXISTING COVERAGE SHALL BE REPLACED WITH A "STAND OF GRASS". A STAND OF GRASS SHALL BE 80% COVERAGE AT 1" HEIGHT.

LANDSCAPE PLAN SIGNATURE BLOCK
 APPROVED: _____
 I HEREBY CERTIFY THAT THE ABOVE AND FOREGOING LANDSCAPE PLAN FOR A DEVELOPMENT IN THE CITY OF ROCKWALL, TEXAS, WAS APPROVED BY THE PLANNING & ZONING COMMISSION OF THE CITY OF ROCKWALL ON THE _____ DAY OF _____
 WITNESS OUR HANDS, THIS _____ DAY OF _____

 PLANNING & ZONING COMMISSION, CHAIRMAN DIRECTOR OF PLANNING & ZONING

ROCKWALL FRIENDSHIP BAPTIST CHURCH
 VOL 1084, PG 266 D.R.R.C.T.
 CASE - SP2021-008

Seal
Revisions
Issue Date
25 May 2021
Sheet Name
LANDSCAPE PLAN
Sheet Number
L1.1

G ORDINANCE REQUIREMENT

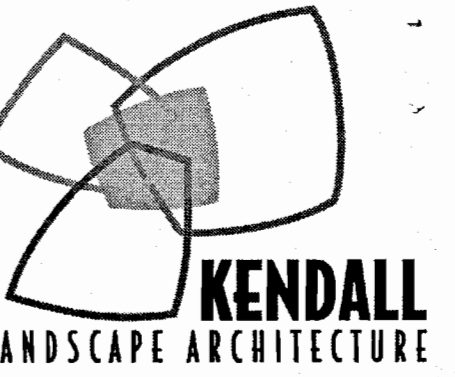
Mandatory Provisions

1. 15' landscape buffer Provided.			
2. Screening of off-street loading areas Provided.			
3. Residential Adjacency 6' masonry fencing	n/a		
4. Buffer landscaping 1 tree per 50' linear feet	136 /50	3 3" caliper trees required 3 3" caliper trees provided	
5. Parking lot landscaping 5% required	75,000 *.05	3,750 required area 4,228 provided area	
6. Open space F1 Zoning	171,626 *.08	13,730 square feet required 74,052 square feet provided	
7. SH 270 Overlay District Planting at Buffer	136 / 50	3 4" caliper trees required 4 4" caliper trees provided	
	136 / 25	5 Accent Trees required 5 Accent Trees provided	

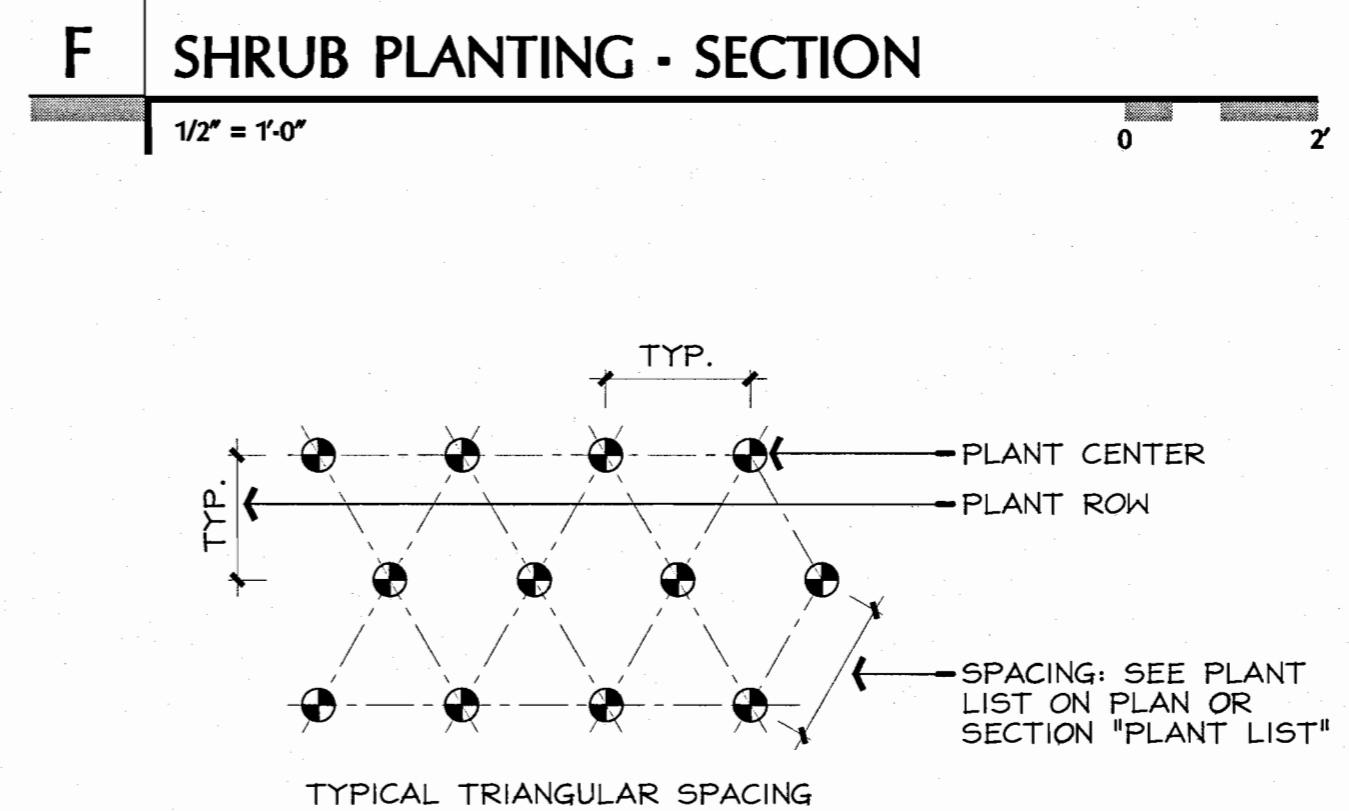
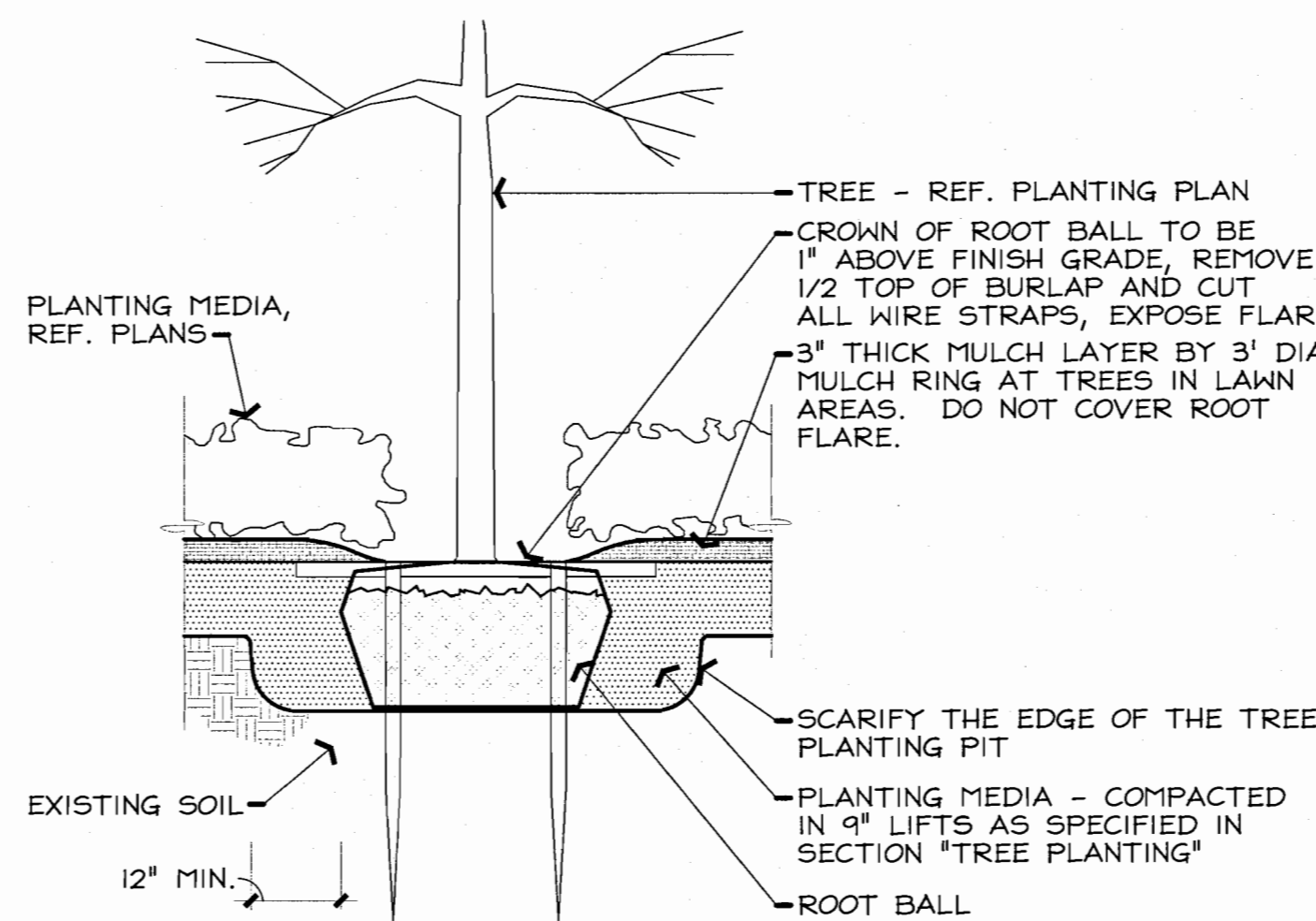
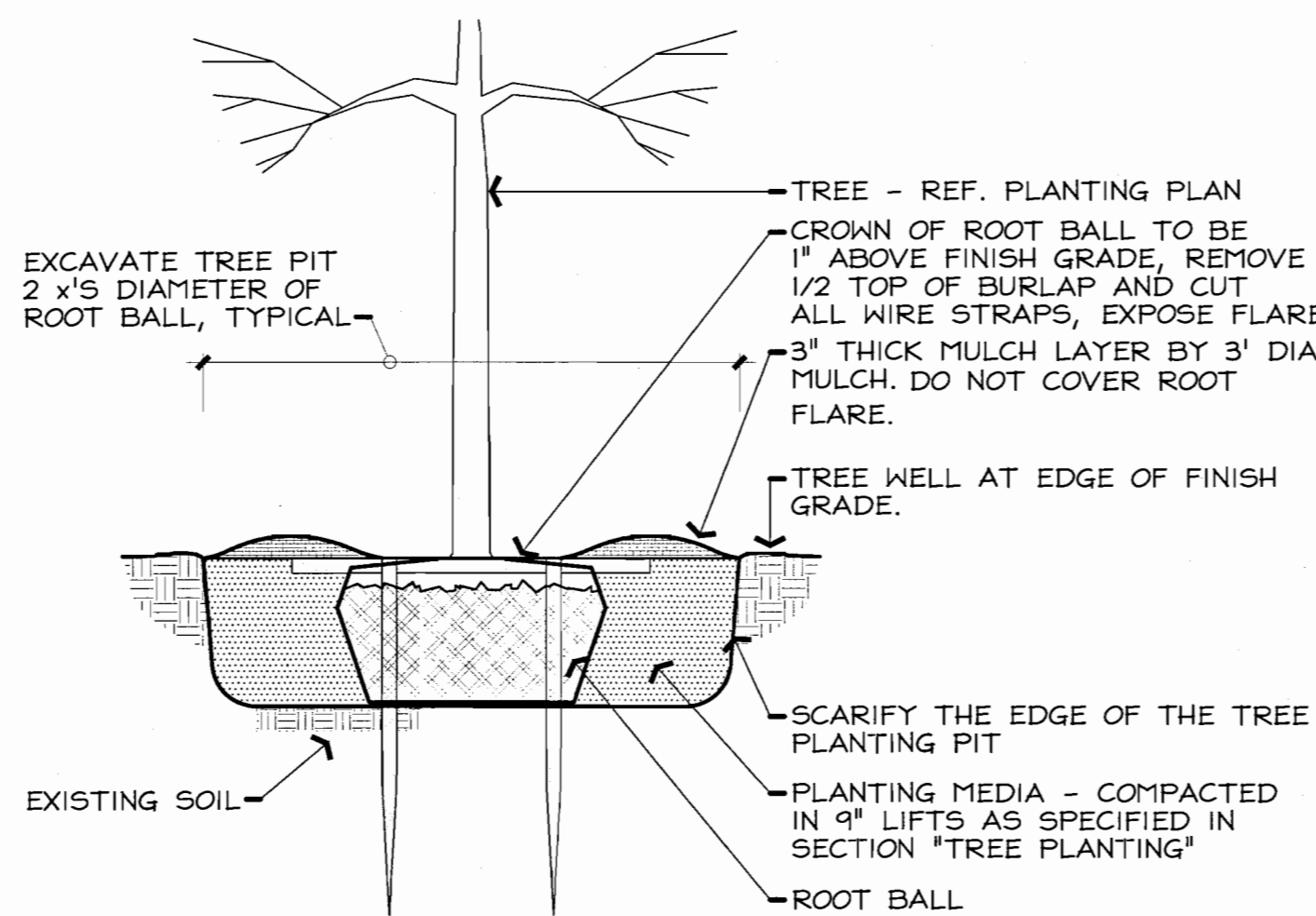
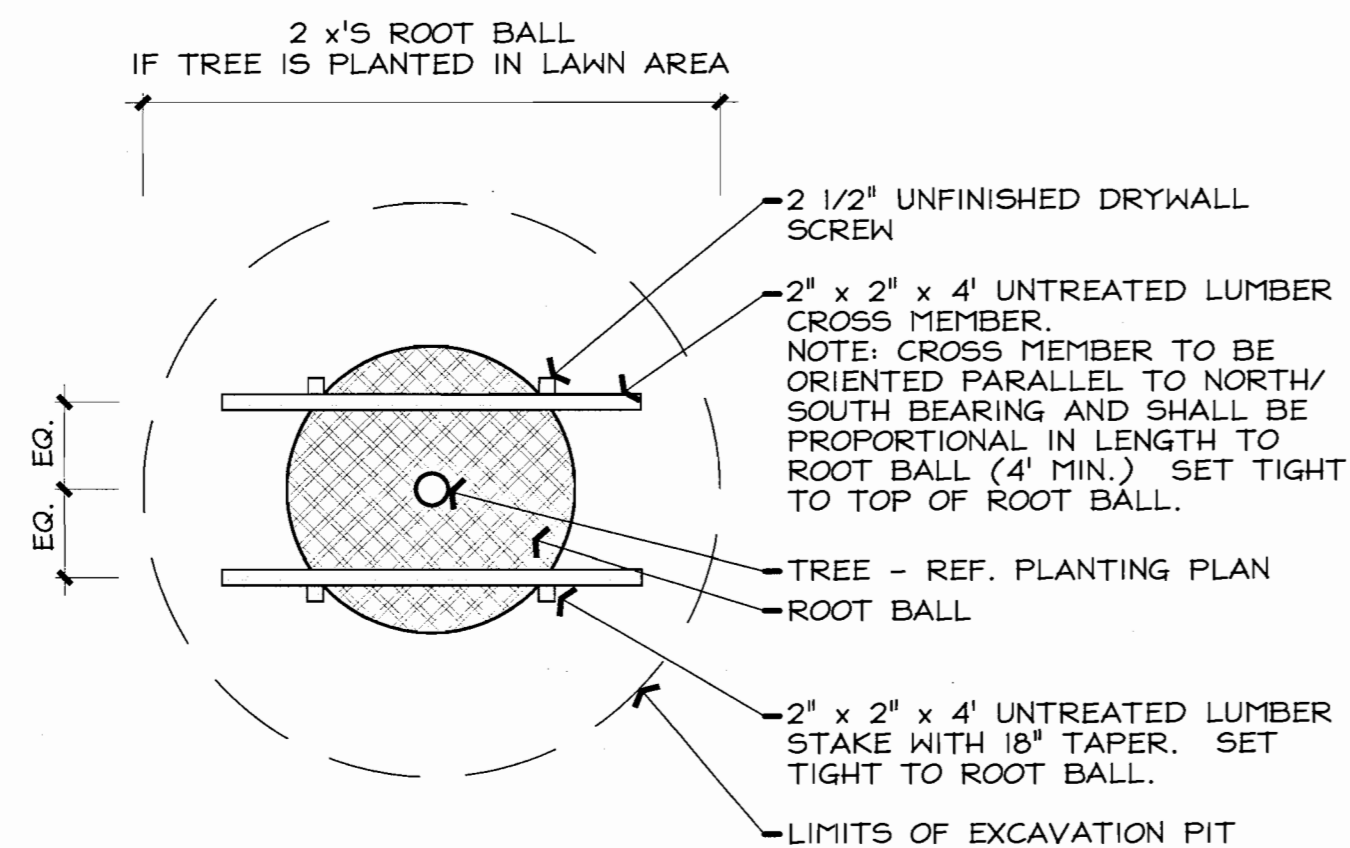
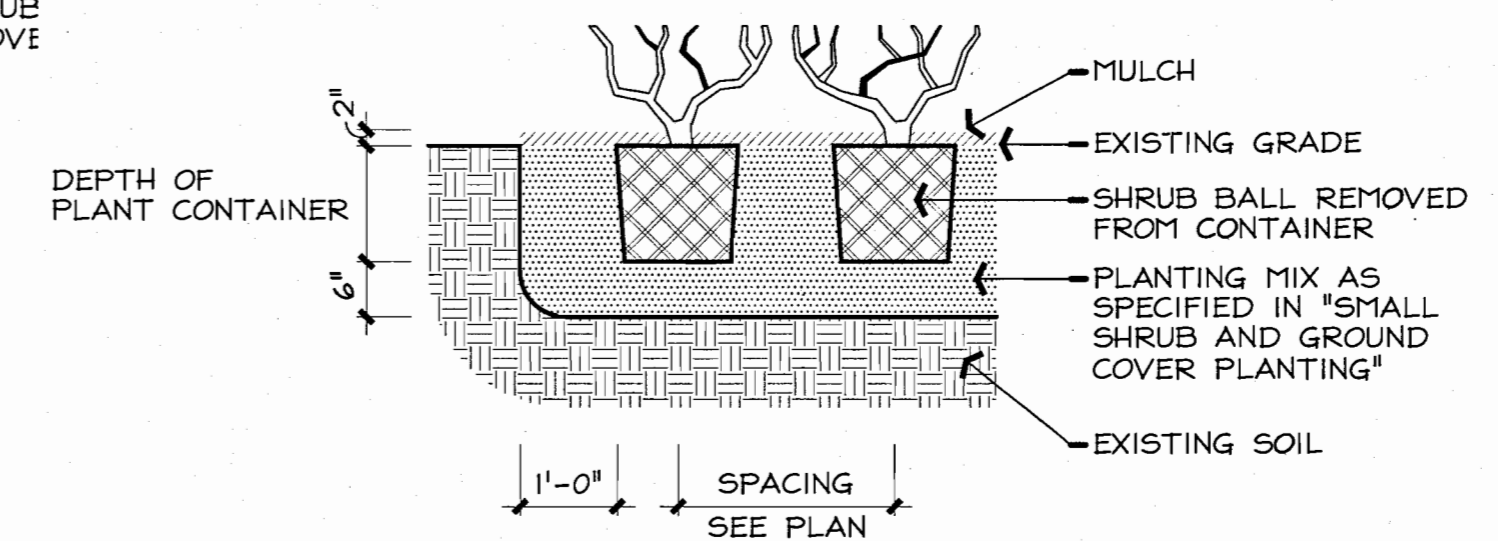
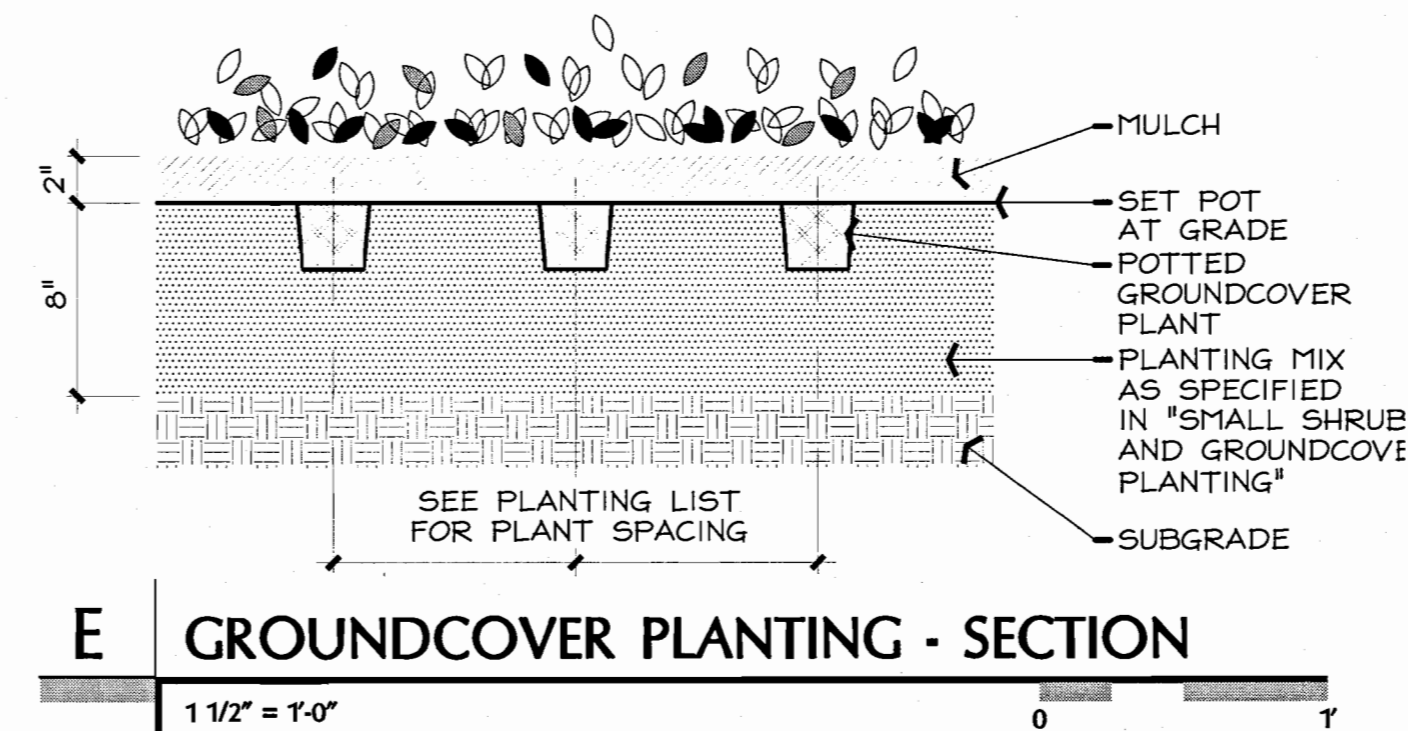
H PLANT LISTING

ALL SIZES SHOWN ARE MINIMUM. SMALLER CONTAINERS MEETING THE SPECIFIED HEIGHT AND SPREAD WILL NOT BE ACCEPTED. IF QUANTITIES ARE SHOWN, CONTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITIES. PLAN REFERENCES GOVERN.

BOTANIC NAME	COMMON NAME	SIZE	DESCRIPTION	QUANTITY
LARGE TREES				
QUERCUS PHELLOS	CHINQUAPIN OAK	100 GALLON CONTAINER, 4"-4 1/2" CALIPER, 9' - 10' HEIGHT, 5'-6' SPREAD	SINGLE STRAIGHT LEADER.	5
QUERCUS SHUMARDII	SHUMARD RED OAK	100 GALLON CONTAINER, 4"-4 1/2" CALIPER, 9' - 10' HEIGHT, 5'-6' SPREAD	SINGLE STRAIGHT LEADER.	3
QUERCUS VIRGINIANA	LIVE OAK	100 GALLON CONTAINER, 4"-4 1/2" CALIPER, 9' - 10' HEIGHT, 5'-6' SPREAD	SINGLE STRAIGHT LEADER.	3
ULMUS CRASSIFOLIA	CEDAR ELM	100 GALLON CONTAINER, 4"-4 1/2" CALIPER, 9' - 10' HEIGHT, 5'-6' SPREAD	SINGLE STRAIGHT LEADER.	6
ORNAMENTAL TREES				
VITEX AGNUS-CASTUS	VITEX	65 GALLON CONTAINER, 3"-3 1/2" CALIPER, 7' - 8' HEIGHT, 5'-7' SPREAD	MULTI-TRUNK - 3 CANES MAXIMUM	5
SHRUBS				
ILEX CRENATA BURFORDII NANA	DWARF BURFORD HOLLY	5 GALLON	24" ON CENTER	84
GROUNDCOVER / PERINNEL				
EUONYMUS COLORATA	PURPLE WINTERCREEPER	1 GALLON	18" ON CENTER	162
LAWN				
CYNDON	SOLID SOD OR HYDROMULCH BERMUDA			



FRIENDSHIP BAPTIST CHURCH
ROCKWALL, TEXAS



A TYPICAL TREE STAKING - PLAN
1/2" = 1'-0"

B TREE PLANTING IN LAWN - SECTION
1/2" = 1'-0"

C TREE PLANTING IN PLANTER - SECTION
1/2" = 1'-0"

D PLANT SPACING - PLAN
1/2" = 1'-0"

LANDSCAPE PLAN SIGNATURE BLOCK

APPROVED: I HEREBY CERTIFY THAT THE ABOVE AND FOREGOING LANDSCAPE PLAN FOR A DEVELOPMENT IN THE CITY OF ROCKWALL, TEXAS, WAS APPROVED BY THE PLANNING & ZONING COMMISSION OF THE CITY OF ROCKWALL ON THE _____

WITNESS OUR HANDS, THIS _____ DAY OF _____

PLANNING & ZONING COMMISSION, CHAIRMAN

DIRECTOR OF PLANNING & ZONING

ROCKWALL FRIENDSHIP BAPTIST CHURCH
VOL 1084, PG 266 D.R.R.C.T.

CASE - SP2021-008

Issue Date
6 April 2021

Sheet Name
LANDSCAPE
DETAILS

Sheet Number
L1.2