CONSTRUCTION PLANS
FOR
GIDEON GROVE–NORTH
LOTS 1–26, BLOCK 1
LOTS 1–20, BLOCK 2
LOTS 1–11, BLOCK 3
LOTS 1–14, BLOCK 4
3 COMMON AREAS

CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

ENGINEER'S NOTES TO CONTRACTOR

1. BY COMMENCING CONSTRUCTION CONTRACTOR AFFIRMS THEY HAVE REVIEWED AND UNDERSTAND THE PLANS AND SPECIFICATIONS. ANY QUESTIONS AND DISCREPANCIES MUST BE ADDRESSED PRIOR TO COMMENCING CONSTRUCTION.

2. ALL CONSTRUCTION SPECIFICATIONS WITHIN CITY ROW AND EASEMENTS SHOULD COMPLY WITH CITY OF ROCKWALL STANDARDS. PRIOR APPROVAL TO USE ANY NON–STANDARD MATERIAL IS REQUIRED.

3. CONTRACTOR MUST VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION.

4. CONTRACTOR MUST ENSURE THAT ALL AREAS ARE GRADED TO DRAIN.

5. CONTRACTOR MUST NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN THESE PLANS & ONSITE CONDITIONS.

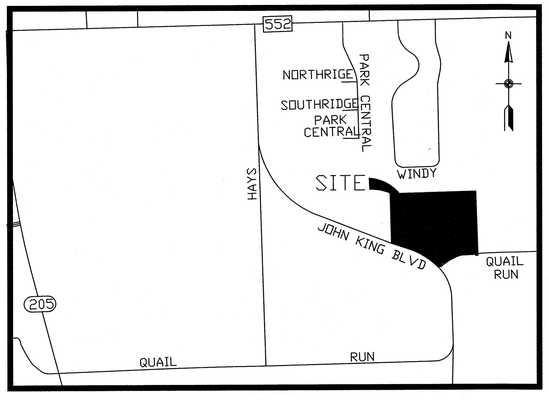
INDEX OF SHEETS

OWNER/DEVELOPER:

GIDEON GROVE, LTD
8214 WESTCHESTER DRIVE
SUITE 710
DALLAS, TX 75225
PHONE: 214-522-4945
CONTACT: JOHN ARNOLD

ENGINEER:

MACATEE ENGINEERING
DAYTON MACATEE ENGINEERING, LLC
(Tex. Reg. No. F–456)
3519 MILES STREET
DALLAS, TEXAS 75209
*TEL 214–373–1180 * FAX 214–373–6580*
E–MAIL: daytonm@macatee–engineering.com



LOCATION MAP
MAPSCO: 20D–A
NOT TO SCALE

BEFORE ANY OTHER CONSTRUCTION CAN BEGIN, THE DETENTION POND SHALL BE CONSTRUCTED, INCLUDING THE CONCRETE FLUMES AND OUTFALL STRUCTURE AND THE SIDES AND BOTTOM SHALL BE STABILIZED WITH EITHER SOD OR ANCHORED SEEDED CURLEX

WITHIN THIS PLAN SET THE TERM "CITY OF ROCKWALL STANDARDS" IS MEANT TO INCLUDE THE CITY OF ROCKWALL STANDARDS OF DESIGN AND CONSTRUCTION MANUAL, DATED OCTOBER 2016 AND THE PUBLIC WORKS CONSTRUCTION STANDARDS AND SPECIFICATIONS, NORTH CENTRAL TEXAS, 4TH EDITION, DATED OCTOBER 2004 – PUBLISHED BY NORTH CENTRAL TEXAS COUNCIL OF GOVERMENTS. CONTRACTOR SHALL REFER TO BOTH MANUALS PRIOR TO BEGINNING CONSTRUCTION.

CITY OF ROCKWALL MONUMENT "CGR–2"
ALUMINUM DISK STAMPED "CITY OF ROCKWALL SURVEY MONUMENT" +/–866' EAST OF INTERSECTION OF WILLIAMS STREET AND CARUTH LANE, AND 50' SOUTH OF CL OF WILLIAMS STREET. N: 7029731.124, E: 2598589.314, ELEV=529.10

CITY OF ROCKWALL MONUMENT "CGR–4"
ALUMINUM DISK STAMPED "CITY OF ROCKWALL SURVEY MONUMENT" ON NORTH SIDE OF DALTON ROAD +/–210' WEST OF INTERSECTION OF SH 205 AND DALTON ROAD, AND 10' NORTH OF CURB LINE. N: 7040336.992, E: 2592422.633, ELEV=541.67

STATE OF TEXAS
DAYTON C. MACATEE
65028
REGISTERED
PROFESSIONAL ENGINEER
06/05/18
DAYTON MACATEE ENGINEERING, LLC
TX. REG. NO. F–456

ALL RESPONSIBILITY FOR ADEQUACY OF DESIGN REMAINS WITH THE DESIGN ENGINEER. THE CITY OF ROCKWALL, IN REVIEWING AND RELEASING PLANS FOR CONSTRUCTION, ASSUMES NO RESPONSIBILITY FOR ADEQUACY OR ACCURACY OF DESIGN

RECORD DRAWING

TO THE BEST OF OUR KNOWLEDGE, MACATEE ENGINEERING LLC, HEREBY STATES THAT THIS PLAN IS AN ACCURATE RECORD DRAWING. THIS INFORMATION PROVIDED IS BASED ON SURVEYING AT THE SITE AND INFORMATION PROVIDED BY THE CONTRACTOR.

Dayton C. Macatee, P.E. — 04/09/2020 Date
12655 N. Central Expwy, Suite 420, Dallas, Texas 75243

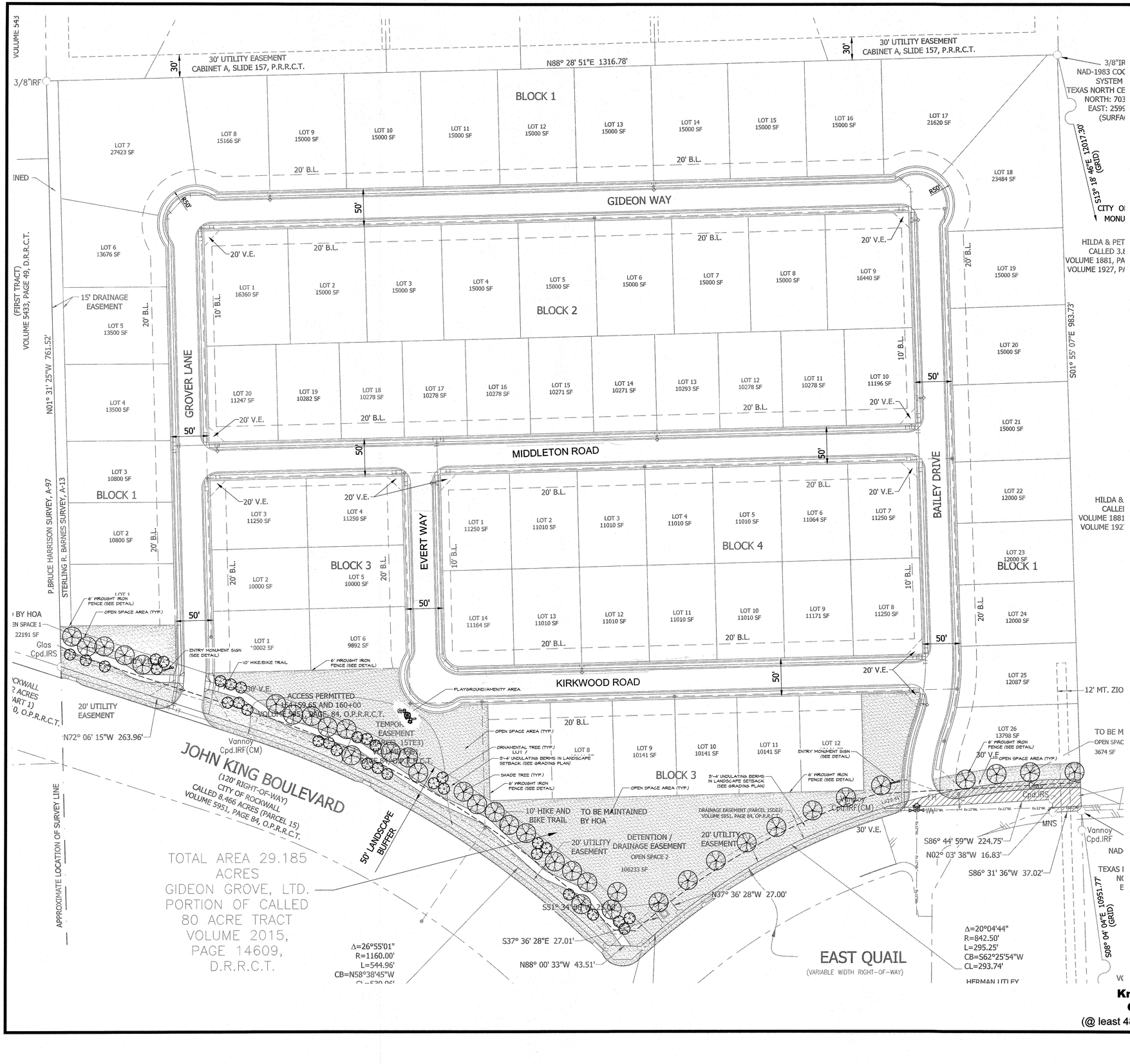
REVISION TABLE

REV.	BY	DATE	DESCRIPTION

06/05/2018

GIDEON GROVE–NORTH

MACATEE–ENGINEERING, LLC (TEX. REG. NO. F–456)



GRAPHIC SCALE

60 0 30 60 120

(IN FEET)
1 inch = 60 ft.

PLANT_SCHEDULE					
TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT	CAL	SIZE
	52	ORNAMENTAL TREE	30 GAL.	3"	6'-8'
	57	SHADE TREE	65 GAL.	4"	10'-12'
GROUND COVERS	QTY	BOTANICAL NAME / COMMON NAME			
	PER PLAN	BERMUDA GRASS			

Know what's below.
Call before you dig.
(@ least 48 hours prior to digging)

INFORMATION ON THIS SHEET IS PERTINENT TO ALL OTHER DESIGN SHEETS IN THIS SET OF DRAWINGS. THE CONTRACTOR SHALL NOT SEPARATE DRAWINGS FROM THE SET FOR DISTRIBUTION TO SPECIFIC DISCIPLINES. EACH SUBCONTRACTOR SHALL BE PROVIDED WITH ALL SHEETS WITHIN THIS PLAN SET.

BANNISTER ENGINEERING
240 N. Mitchell Road | Mansfield, TX 76063 | 817.842.2094 | 817.842.2095 fax
REGISTRATION # F-10599 (TEXAS)

GIDEON GROVE - NORTH
ROCKWALL, TEXAS

PD SITE PLAN

PRELIMINARY
FOR REVIEW ONLY
THESE DOCUMENTS ARE FOR REVIEW ONLY AND NOT INTENDED FOR CONSTRUCTION, BIDDING, OR PERMITTING. THEY HAVE BEEN PREPARED BY OR UNDER THE SUPERVISION OF:
Architect _____ DREW J. DUBOCQ
L.A. No. 3141 Date 07/07/2017

No.	Date	Revision Description

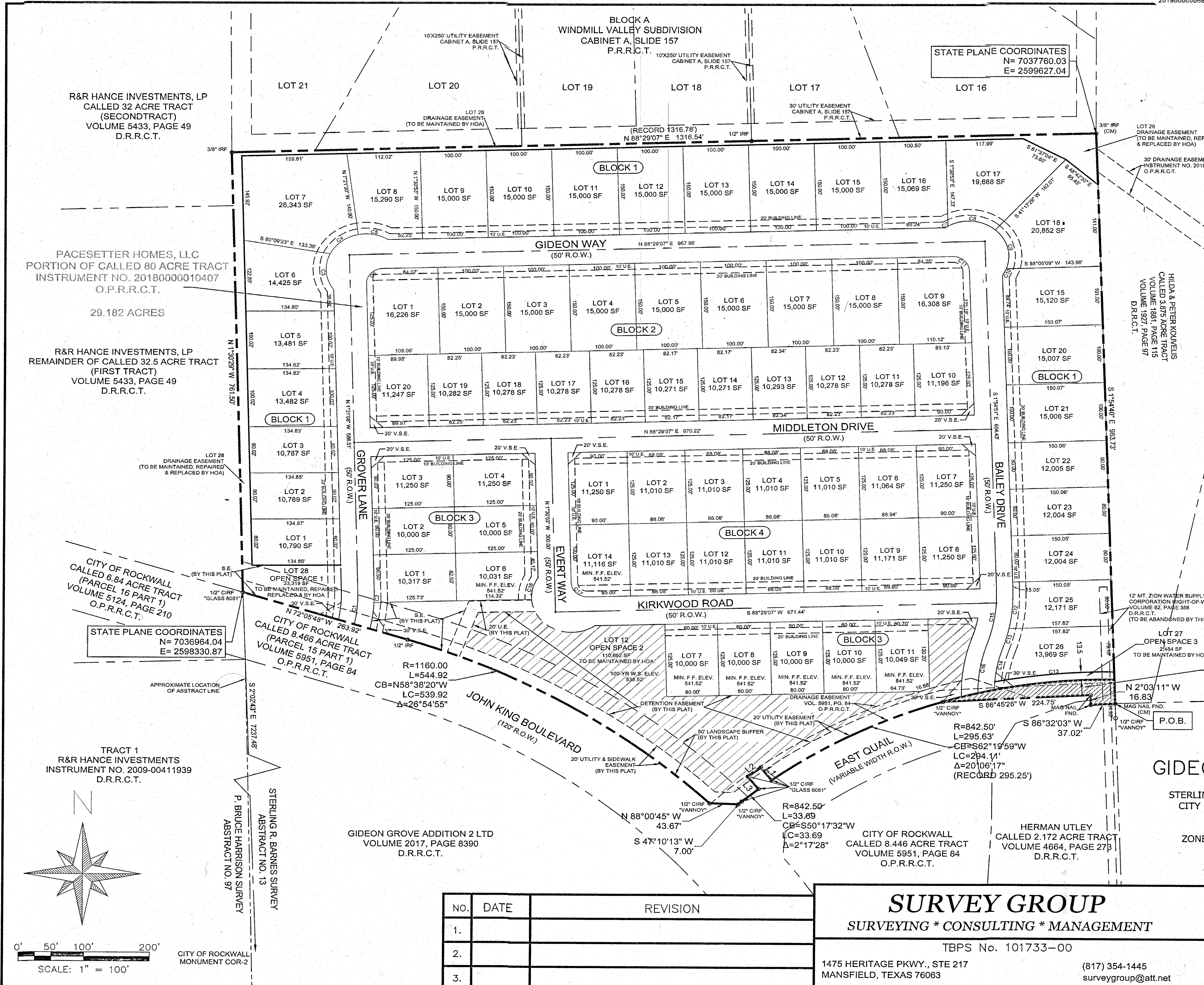
PROJECT NO: 090-17-08

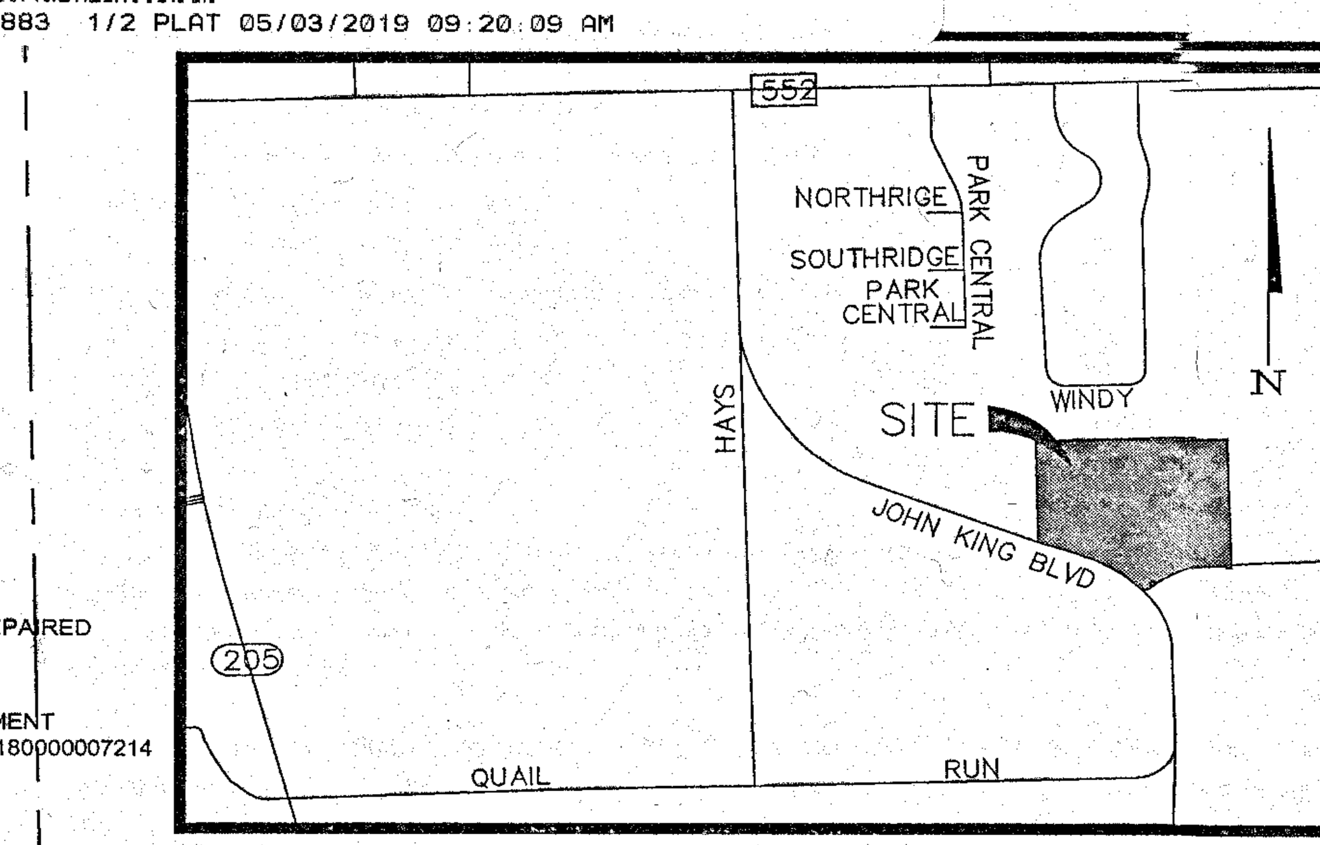
SHEET NO.

PD-SP1

CASE No. P2017-032

20190000006883 1/2 PLAT 05/03/2019 09:20:09 AM





VICINITY MAP
ROCKWALL, TEXAS
NOT TO SCALE

GENERAL NOTES

General Notes:

1) 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, nor shall such approval constitute any representation, assurance or guarantee by the City of the adequacy and availability for water for personal use and fire protection within such plat, as required under Ordinance 83 54.
2) Basis of Bearing - All bearing are based on the Texas State Plane Coordinate System Grid, North Central Zone (4202), North American Datum 1983(2002).
3) IRF - Iron Rod Found
4) C.M. = Controlling Monument
5) V.S.E. = Visibility and Sidewalk Easement
6) U.E. = Utility Easement
7) S.E. = Sidewalk Easement
8) D.R.R.C.T. - Deed Records, Rockwall County, Texas
9) P.R.R.C.T. - Plat Records, Rockwall County, Texas
10) F.F. - FINISHED FLOOR
11) W.S. WATER SHED

FLOOD CERTIFICATE

As determined by the Flood Insurance Rate Maps Dallas County, Texas, the subject property Does Not lie within a Special Flood Hazard Area (100 Year Flood), Map date July 7, 2014 Community Panel No. 48113C 0255K subject lot is located in Zone X.

If this site is not within an identified flood hazard area, this Flood Statement does not imply that the property and/or structures thereon will be free from flooding or flood damage. On rare occasions, greater floods can and will occur and flood heights may be increased by man-made or natural causes. This Flood Statement shall not create liability on the part of the Surveyor.

FINAL PLAT

GIDEON GROVE – NORTH

29.182 ACRES OUT OF THE
STERLING R. BARNES SURVEY, ABSTRACT NUMBER 13
CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS
71 RESIDENTIAL LOTS
3 OPEN SPACE LOTS
ZONED PLANNED DEVELOPMENT NO. 77 (PD-77)
CASE NO. P2018-021

PREPARATION DATE: JUNE, 2018

SHEET: 1 OF 2

NO.	DATE	REVISION
1.		
2.		
3.		

SURVEY GROUP
*SURVEYING * CONSULTING * MANAGEMENT*

TBPS No. 101733–00

1475 HERITAGE PKWY., STE 217
MANSFIELD, TEXAS 76063

(817) 354-1445
surveygroup@att.net

JOB NO.:	17–141
DATE:	June 14, 2018
SCALE:	1" – 100'
DRAWN BY:	RP

OWNERS CERTIFICATE

STATE OF TEXAS
COUNTY OF ROCKWALL

WHEREAS, Pacesetter Homes, LLC is the owner of a 29.182 acre tract of land located in the Sterling R. Barnes Survey, Abstract No. 13, City of Rockwall, Rockwall County, Texas, being a portion of that certain 80 acres tract of land conveyed to Pacesetter Homes, LLC, by deed as recorded in Instrument No. 20180000010407, Official Public Records, Rockwall County, Texas and being more fully described by metes and bounds as follows:

BEGINNING at a mag. nail found at the southeast corner of the herein described tract, for the southwest corner of a called 3.875 acre tract of land as described in a deed to Hilda and Peter Kouvelis as recorded in Volume 1881, Page 115 and Volume 1927, Page 97, Deed Records, Rockwall County, Texas, being the northwest corner of a called 30 acre tract of land as described in a deed to Lonnie L. Gideon as recorded in Volume 307, Page 259 of the said deed records, and the northeast corner of a called 2.172 acre tract of land as described in a deed to Herman Utley as recorded in Volume 4664, Page 273 of the said deed records;

THENCE South 86 deg. 32 min. 26 sec. West, along the common line of this tract and the said Utley tract, a distance of 37.02 feet to a mag. nail found in the north right-of-way line of East Quail (Variable Width R.O.W.);

THENCE along the said East Quail right-of-way the following courses and distances:

North 02 deg. 03 min. 11 sec. West a distance of 16.83 feet to a mag. nail found for corner;

South 86 deg. 45 min. 26 sec. West a distance of 224.75 feet to a capped 1/2 inch iron rod stamped "VANNOY" found in the beginning of a curve to the left having a radius of 842.50 feet and a chord bearing South 62 deg. 19 min. 59 sec. West and a chord length of 294.11 feet;

Along said curve to the left a distance of 295.63 (Record 295.25 feet), to a capped 1/2 inch iron rod stamped "GLASS 6081";

North 37 deg. 36 min. 01 sec. West a distance of 27.00 feet to a capped 1/2 inch iron rod stamped "GLASS 60810";

South 51 deg. 34 min. 33 sec. West a distance of 25.00 feet to a capped 1/2 inch iron rod stamped "GLASS 6081";

South 37 deg. 43 min. 04 sec. East a distance of 27.01 feet to a capped 1/2 inch iron rod stamped "GLASS 6081" found in the beginning of a curve to the left having a radius of 842.50 feet and a chord bearing South 50 deg. 17 min. 32 sec. West and a chord length of 33.69 feet;

Along said curve to the left a distance of 33.69 feet to a capped 1/2 inch iron rod stamped "GLASS 6081";

South 47 deg. 10 min. 13 sec. West a distance of 7.00 feet to a capped 1/2 inch iron rod stamped "VANNOY";

THENCE North 88 deg. 00 min. 45 sec. West a distance of 43.67 feet to a capped 1/2 inch iron rod found in the northeasterly right-of-way line of John King Boulevard (120 foot R.O.W.), being in the beginning of a curve to the left having a radius of 1160.00 feet and a chord bearing North 58 deg. 38 min. 20 sec. West and a chord length of 539.92 feet;

THENCE along said curve to the left and the John King Boulevard right-of-way, a distance of 544.92 feet to a 1/2 inch iron rod found;

THENCE North 72 deg. 05 min. 48 sec. West along the common line of this tract and the said John King right-of-way, a distance of 263.92 feet to a capped 1/2 inch iron rod stamped "GLASS 6081" found at the southeast corner of the remainder of a called 32.5 acre tract of land as described in a deed to R&R Hance Investments, LP (First Tract)as recorded in Volume 5433, Page 49 of the said deed records;

THENCE North 01 deg. 30 min. 29 sec. West, along the common line of this tract and the said R&R Hance tract, pass the common east line of a called 32.5 acre tract of land as described in a deed to R&R Hance Investments, LP (Second Tract)as recorded in Volume 5433, Page 49 of the said deed records, a distance of 761.50 feet to a 3/8 inch iron rod fond at the southwest corner of Lot 21, Block A, Windmill Valley Subdivision as recorded in Cabinet A, Slide 157, Plat Records, Rockwall County, Texas;

THENCE North 88 deg. 29 min. 07 sec. East along the south line of Lots 21-16, Block A of said subdivision, a distance of 1316.54 feet (Record 1316.78 feet), to a 3/8 inch iron rod found in the west line of the said Kouvelis tract;

THENCE South 01 deg. 54 min. 40 sec. East along the common line of this tract and the said Kouvelis tract, a distance of 983.73 feet to the POINT OF BEGINNING and containing 29.182 acres of computed land more or less.

NOW, THEREFORE, KNOW ALL MEN BY THESE PRESENTS:

STATE OF TEXAS
COUNTY OF ROCKWALL

I *(we)* the undersigned owner(s) of the land shown on this plat, and designated herein as the ***GIDEON GROVE-NORTH,*** a subdivision 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 (we) further certify that all other parties who have a mortgage or lien interest in the ***GIDEON GROVE-NORTH*** a subdivision have been notified and signed this plat. I *(we)* 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 (we) also understand the following;

1. No buildings shall be constructed or placed upon, over, or across the utility easements as described herein.
2. 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.
3. 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.
4. The developer and subdivision engineer shall bear total responsibility for storm drain improvements.
5. 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.
6. 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 any 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 maintaining, repairing, and replacing all systems in the detention and drainage easements.
8. No fencing shall be placed within or across any drainage easement.

I (we) 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 (we), my (our) successors and assigns hereby waive any claim, damage, or cause of action that I (we) may have as a result of the dedication of exactions made herein.

Tom Lynch
Tom Lynch, President
Pacesetter Homes, LLC

STATE OF TEXAS COUNTY OF Travis

Before me, the undersigned authority, on this day personally appeared ***Tom Lynch*** 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 10th day of August ***2018.***

[illegible]
Notary Public in and for the State of Texas
10/15/2018
My Commission Expires

J. KA[illegible] WYCOFF
NOTARY PUBLIC STATE OF TEX
COMM. EXP. 10-15-2018
NOTARY ID [illegible]

SURVEYORS CERTIFICATE

I, HEREBY CERTIFY, THAT I PREPARED THIS SURVEY PLAT SHOWN HEREON FROM AN ACTUAL SURVEY ON THE GROUND BY ME AND THAT ALL CORNERS ARE MARKED, AND THAT ALL DIMENSIONS SHOWN THEREON ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND FURTHERMORE THERE ARE NO ENCROACHMENTS, PROTRUSIONS, IMPROVEMENTS, EASEMENTS, RIGHT-OF- WAY, OR 100 YEAR FLOOD PLAIN AFFECTING THE PROPERTY EXCEPT AS SHOWN THEREON.

WITNESS UNDER MY HAND THIS THE 3rd DAY OF August, 2018.

[illegible]
WILLIAM P. PRICE
STATE OF TEXAS
R.P.L.S. NO. 3047

STATE OF TEXAS
REGISTERED
WILLIAM P. PRICE
3047
PROFESSIONAL
LAND SURVEYOR

Curve Table					
Curve #	Length	Radius	Delta	Chord Direction	Chord Length
C1	53.30	245.18	12.46	N5° 43' 19"E	53.19
C2	16.01	319.96	2.87	N1° 05' 22"E	16.01
C3	65.96	61.00	61.96	N5° 09' 11"W	62.80
C4	55.87	61.00	52.48	N52° 04' 02"E	53.94
C5	47.69	61.00	44.79	N79° 17' 47"W	46.48
C6	39.27	25.00	90.00	N43° 29' 00"E	35.36
C7	5.03	61.00	4.72	S56° 23' 40"W	5.03
C8	77.22	61.00	72.53	N84° 58' 39"W	72.17
C9	73.68	61.00	69.20	N14° 06' 34"W	69.28
C10	12.82	61.00	12.05	N26° 30' 57"E	12.80
C11	39.10	25.00	89.60	S46° 42' 52"E	35.23
C12	65.57	275.00	13.66	N4° 54' 59"E	65.41
C13	35.49	275.00	7.40	N15° 26' 40"E	35.47
C14	59.34	225.00	15.11	N11° 35' 14"E	59.17
C15	91.87	250.00	21.06	N8° 36' 51"E	91.36
C16	87.50	250.00	20.05	S9° 06' 56"W	87.05
C17	39.27	25.00	90.00	N46° 31' 00"W	35.35
C18	39.51	61.00	37.11	S14° 27' 11"W	38.82

PARCEL LINE TABLE		
LINE #	LENGTH	DIRECTION
L1	27.00'	N37°36'01"W
L2	25.00'	S51°34'33"W
L3	27.01'	S37°43'04"E

RECOMMENDED FOR FINAL APPROVAL:

[illegible] 7/16/18
Planning & Zoning Commission, Chairman ***Date***

APPROVED:
I hereby certify that the above and foregoing plat of an addition to the City of Rockwall, Texas, was approved by the City Council of the City of Rockwall on the 16 day of July, ***2018.***

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.

WITNESS OUR HANDS, this 5th day of September, ***2018.***

[illegible] Kristy Cole [illegible]
Mayor, City of Rockwall ***City Secretary*** ***City Engineer***

SEAL

Filed and Recorded
Official Public Records
Shelli Miller, County Clerk
Rockwall County, Texas
05/03/2019 09:20:09 AM
$100.00
20190000006883

ROCKWALL COUNTY TEXAS COUNTY CLERK
[illegible]

FINAL PLAT
GIDEON GROVE – NORTH
29.182 ACRES OUT OF THE
STERLING R. BARNES SURVEY, ABSTRACT NUMBER 13
CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS
71 RESIDENTIAL LOTS
3 OPEN SPACE LOTS
ZONED PLANNED DEVELOPMENT NO. 77 (PD-77)
CASE NO. P2018-021

PREPARATION DATE: JUNE, 2018

SHEET: 2 OF 2

NO.	DATE	REVISION
1.		
2.		
3.		

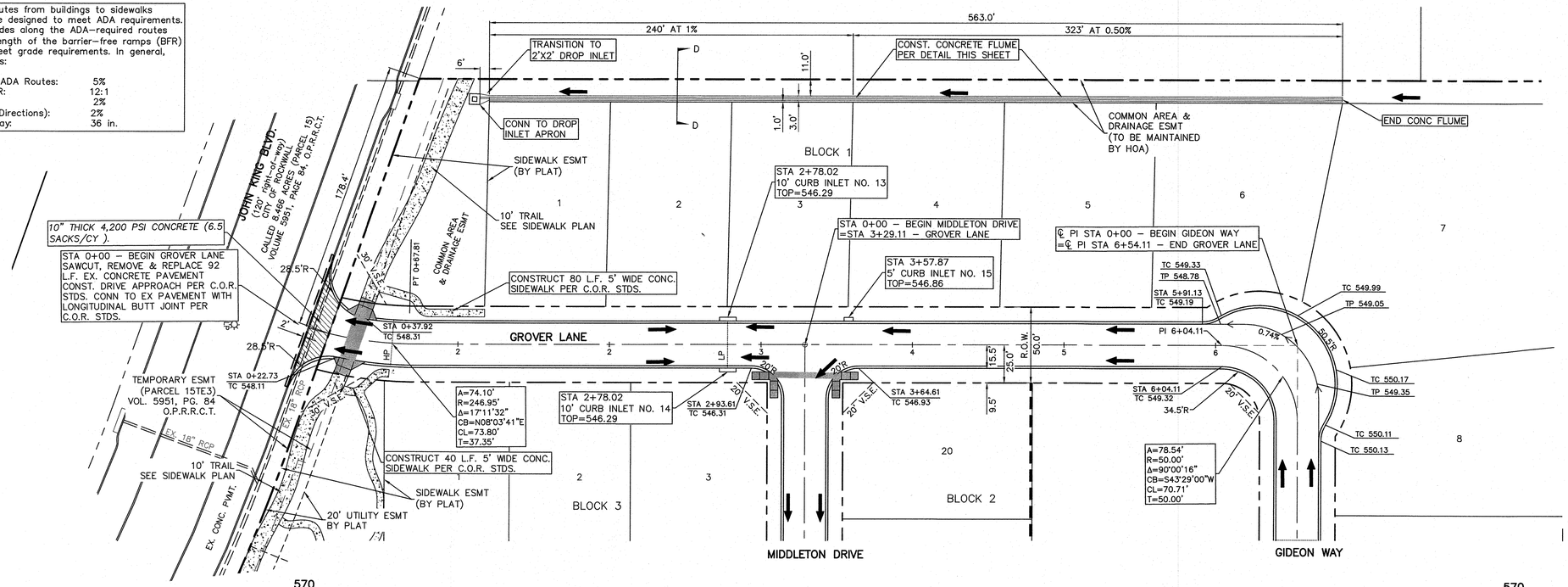
SURVEY GROUP
*SURVEYING * CONSULTING * MANAGEMENT*
TBPS No. 101733–00
1475 HERITAGE PKWY., STE 217
MANSFIELD, TEXAS 76063
(817) 354-1445
surveygroup@att.net

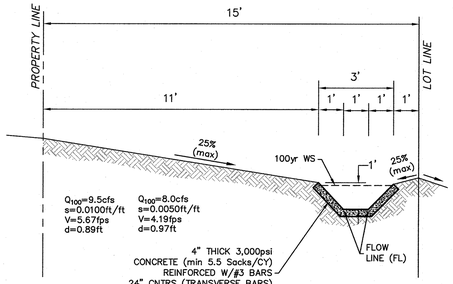
JOB NO.: 17–141
DATE: June 14, 2018
SCALE: 1" – 100'
DRAWN BY: RP

SG

ADA COMPLIANCE: The ADA routes from buildings to sidewalks within public rights-of-way are designed to meet ADA requirements. Contractor shall ensure all grades along the ADA-required routes meet said requirements. The length of the barrier-free ramps (BFR) will need to be adjusted to meet grade requirements. In general, maximum grades are as follows:

Max. Longitudinal Grade Along ADA Routes:	5%
Max. Longitudinal Grade on BFR:	12:1
Max. Cross Slope Along Route:	2%
Max. Grade in HC Spaces (All Directions):	2%
Minimum Width of ADA Travelway:	36 in.





SECTION D-D
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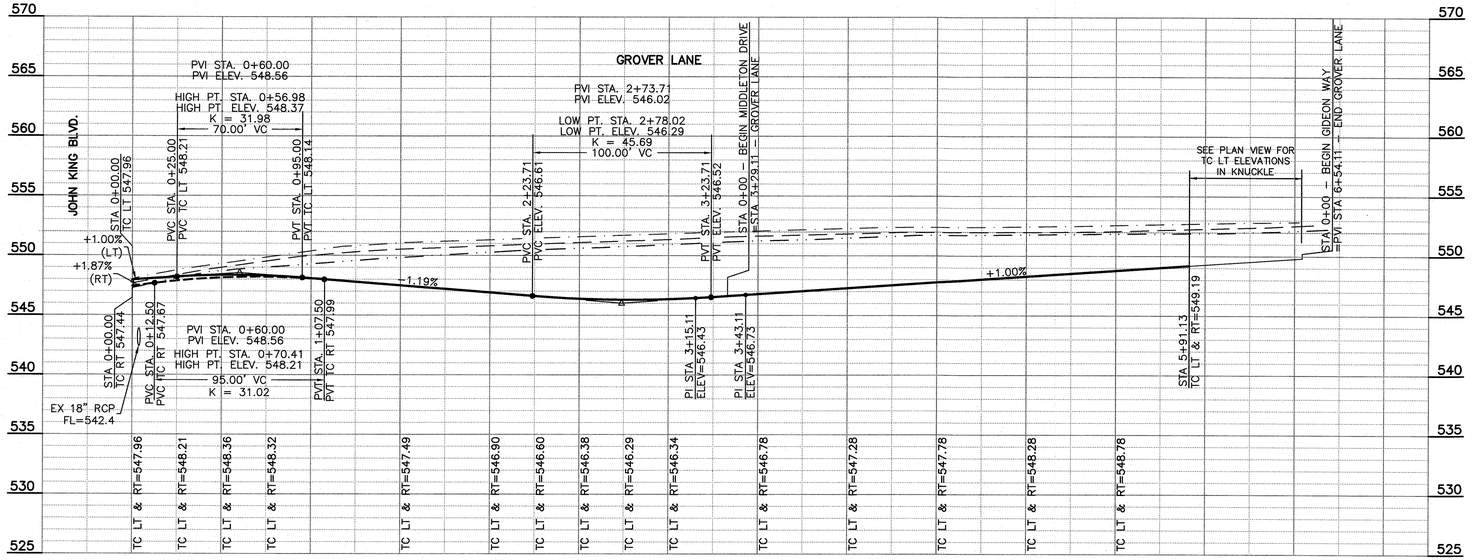
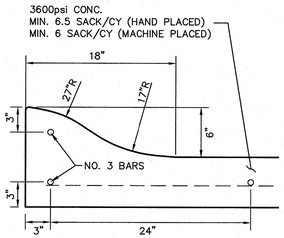
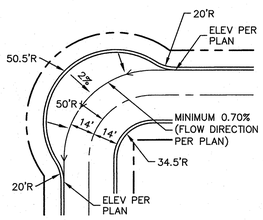




MONOLITHIC LAYDOWN CURB
NOT TO SCALE
(ALL STREETS EXCLUDING QUAIL RUN)



TYPICAL KNUCKLE DETAIL

PROFILE LEGEND

- EX. GND AT LT R.O.W.
- EX. GND AT ℄ R.O.W.
- EX. GND AT RT R.O.W.
- PROP LT & RT TC
- COMPACTED FILL PER GEOTECH RECOMMENDATIONS. (MIN 95% STD. DENSITY)

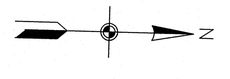
RECORD DRAWING

TO THE BEST OF OUR KNOWLEDGE, MACATEE ENGINEERING LLC, HEREBY STATES THAT THIS PLAN IS AN ACCURATE RECORD DRAWING. THIS INFORMATION PROVIDED IS BASED ON SURVEYING AT THE SITE AND INFORMATION PROVIDED BY THE CONTRACTOR.

Dayton C. Macatee, P.E. — 04/09/2020 Date
12655 N. Central Expwy, Suite 420, Dallas, Texas 75243

ALL RESPONSIBILITY FOR ADEQUACY OF DESIGN REMAINS WITH THE DESIGN ENGINEER. THE CITY OF ROCKWALL, IN REVIEWING AND RELEASING PLANS FOR CONSTRUCTION, ASSUMES NO RESPONSIBILITY FOR ADEQUACY OR ACCURACY OF DESIGN

STATE OF TEXAS
DAYTON C. MACATEE
65028
REGISTERED
PROFESSIONAL ENGINEER
06/05/18
DAYTON MACATEE ENGINEERING, LLC
TX. REG. NO. F-456



SCALE:
1"=40' H
1"=6' V

GENERAL NOTES:

1) ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF ROCKWALL STANDARDS.

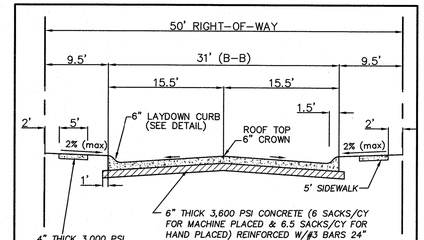
2) THE CONTRACTOR SHALL VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES IN THE AREA OF CONSTRUCTION PRIOR TO BEGINNING CONSTRUCTION.

3) THE CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD OF ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS.

4) DIMENSIONS ARE TO BACK OF CURB, UNLESS OTHERWISE NOTED.

LEGEND

C.O.R.	CITY OF ROCKWALL	TP TOP OF PAVEMENT
V.S.E.	VISIBILITY & SIDEWALK EASEMENT	VALLEY GUTTER
TC	TOP OF CURB	DIRECTION OF FLOW
LP	LOW POINT	CENTERLINE
HP	HIGH POINT	ADA CROSSING (SEE ADA COMPLIANCE NOTE)
BFR	BARRIER FREE RAMP	PROPOSED SIDEWALK (BY DEVELOPER, SEE SIDEWALK PLAN)
24.5'R	RADIUS	BFR PER CITY OF ROCKWALL STD DETAIL R-2125A-D
PC	POINT OF CURVATURE	
PT	POINT OF TANGENCY	
PI	POINT OF INTERSECTION	
PVI	POINT OF VERTICAL INTERSECTION	
CONST.	CONSTRUCT	
℄	CENTERLINE	
RT	RIGHT	
LT	LEFT	
GND	GROUND	
	PERPENDICULAR CURB RAMP PER TxDOT DETAIL PED-18	



TYPICAL PAVING SECTION (50' R.O.W.)
NOT TO SCALE

NOTE:
1) NO SAND UNDER PAVEMENT OR SIDEWALK.
2) LOCATE JOINTS PER CITY OF ROCKWALL STANDARDS.

REV.	BY	DATE	DESCRIPTION

BENCHMARKS

CITY OF ROCKWALL MONUMENT "COR-2"
ALUMINUM DISK STAMPED "CITY OF ROCKWALL SURVEY MONUMENT" +/-866' EAST OF INTERSECTION OF WILLIAMS STREET AND CARUTH LANE, AND 50' SOUTH OF CL OF WILLIAMS STREET. N: 7029731.124, E: 2598589.314, ELEV=529.10

CITY OF ROCKWALL MONUMENT "COR-4"
ALUMINUM DISK STAMPED "CITY OF ROCKWALL SURVEY MONUMENT" ON NORTH SIDE OF DALTON ROAD +/-210' WEST OF INTERSECTION OF SH 205 AND DALTON ROAD, AND 10' NORTH OF CURB LINE. N: 7040336.992, E: 2592422.633, ELEV=541.67

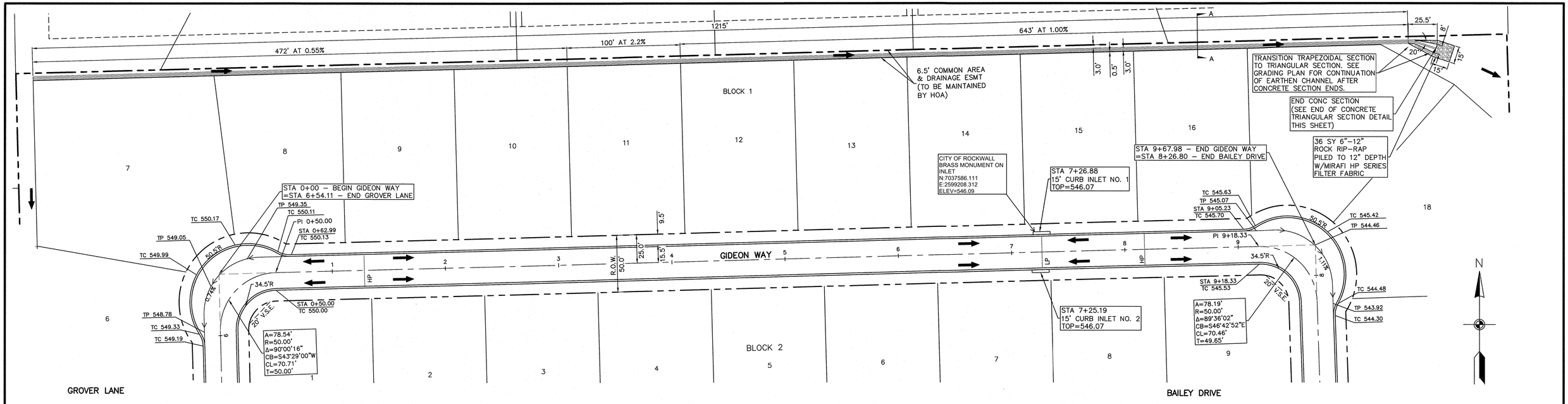
PAVING PLAN & PROFILE

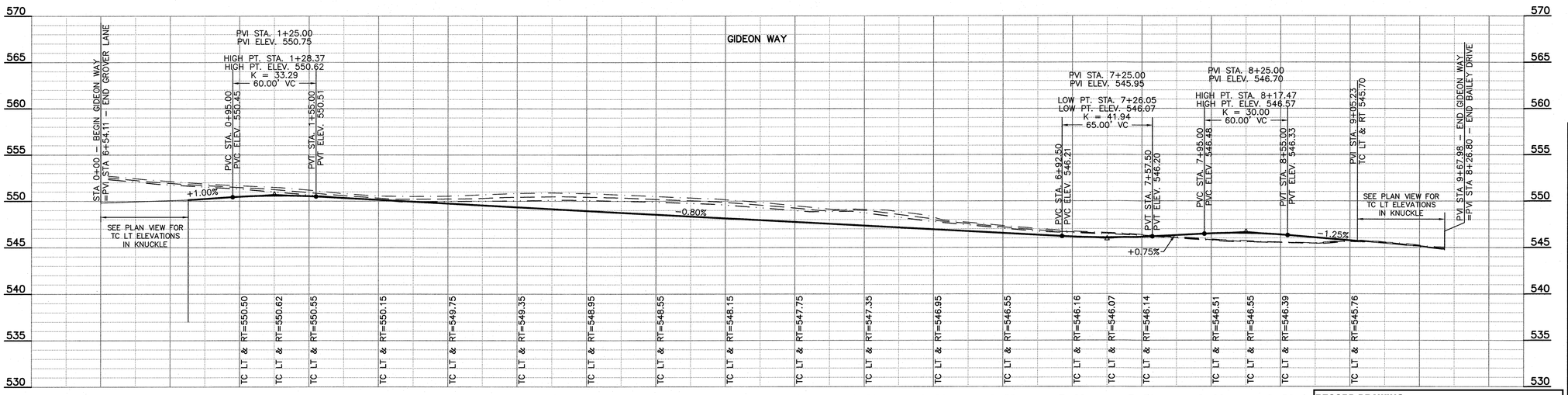
GIDEON GROVE - NORTH

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

MACATEE ENGINEERING
DAYTON MACATEE ENGINEERING, LLC
(Tex. Reg. No. F-456)
3519 MILES STREET
DALLAS, TEXAS 75209
TEL 214-373-1180 * FAX 214-373-6580
E-MAIL: daytonm@macatee-engineering.com

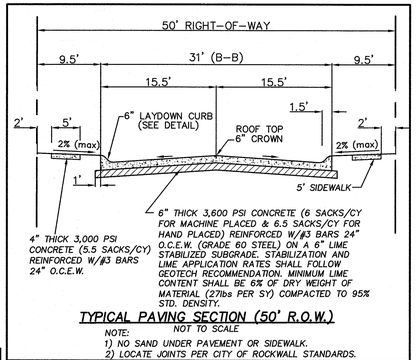
DESIGNED	CHECKED	DATE	DWG FILE	PROJECT #	SHEET NO.
PJF	DCM	06/05/2018	GG_PAV	SKR_GG	4 OF 29





40 20 0 40 80

SCALE:
1"=40' H
1"=6' V



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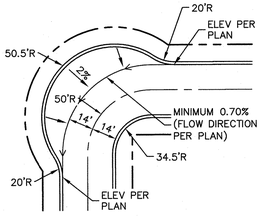

TYPICAL KNUCKLE DETAIL

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PROFILE LEGEND

- EX. GND AT LT R.O.W.
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LEGEND

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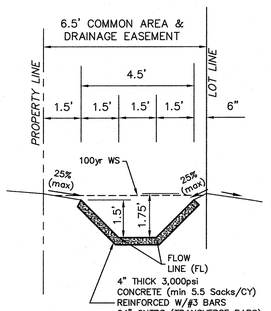
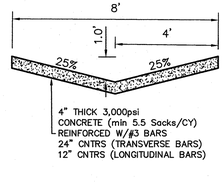
HP, BFR	HIGH POINT BARRIER FREE RAMP		ADA CROSSING (SEE ADA COMPLIANCE NOTE)
24.5'R	RADIUS		PROPOSED SIDEWALK (BY DEVELOPER, SEE SIDEWALK PLAN)
PC	POINT OF CURVATURE		BFR PER CITY OF ROCKWALL STD DETAIL R–2125A–D
PT	POINT OF TANGENCY		
PI	POINT OF INTERSECTION		
PVI	POINT OF VERTICAL INTERSECTION		
CONST.	CONSTRUCT		
℄	CENTERLINE		
RT	RIGHT		
LT	LEFT		
GND	GROUND		
	PERPENDICULAR CURB RAMP PER TxDOT DETAIL PED–18		



(SEE SECTION A–A ON SHEET 12 FOR HYDRAULIC DATA)

SECTION A–A
NOT TO SCALE



(SEE SECTION G–G ON SHEET 12 FOR HYDRAULIC DATA)

END OF CONCRETE TRIANGULAR SECTION
NOT TO SCALE

RECORD DRAWING

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Dayton C. Macatee, P.E. — 04/09/2020 (Date)
12655 N. Central Expwy, Suite 420, Dallas, Texas 75243

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REV.	BY	DATE	DESCRIPTION

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STATE OF TEXAS
DAYTON C. MACATEE
65028
REGISTERED
PROFESSIONAL ENGINEER
06/05/18

DAYTON MACATEE ENGINEERING, LLC
TX. REG. NO. F–456

PAVING PLAN & PROFILE

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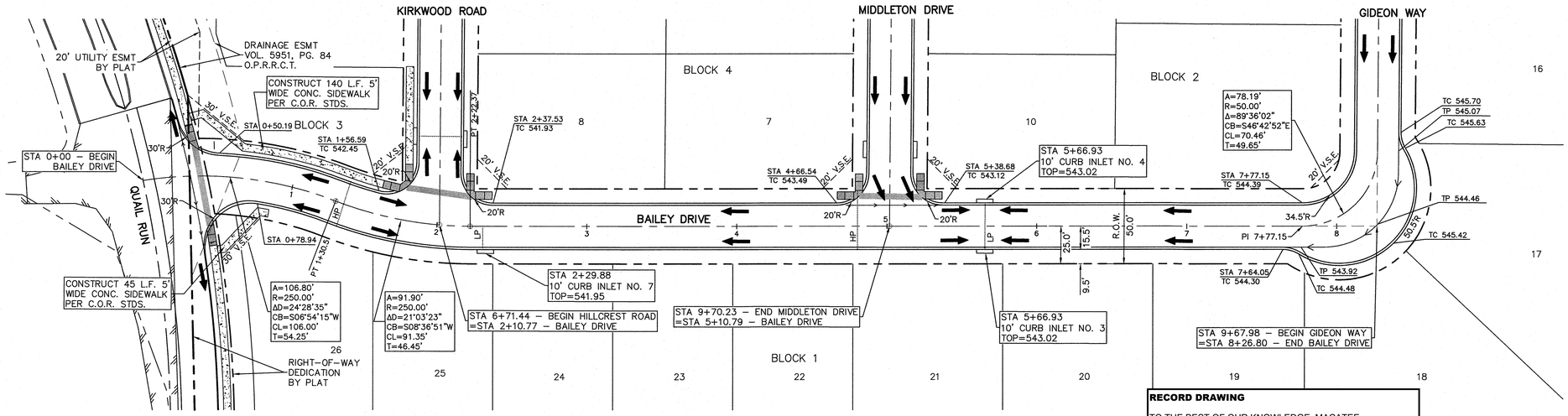

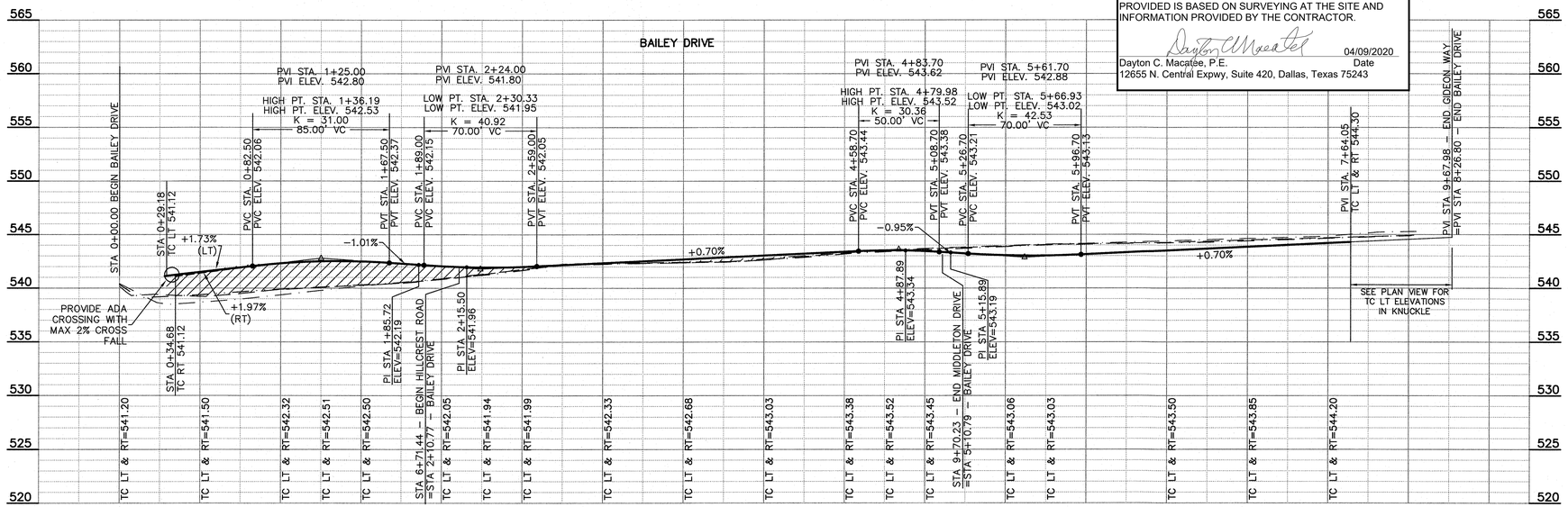

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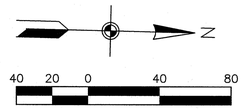

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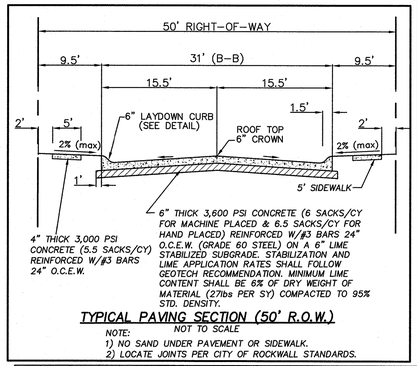
LT	LEFT	
GND	GROUND	
	PERPENDICULAR CURB RAMP PER TxDOT DETAIL PED-18	



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NOT TO SCALE

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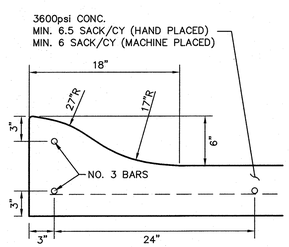
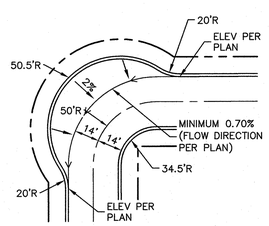


MONOLITHIC LAYDOWN CURB
NOT TO SCALE
(ALL STREETS EXCLUDING QUAIL RUN)



TYPICAL KNUCKLE DETAIL

PROFILE LEGEND

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STATE OF TEXAS
DAYTON C. MACATEE
85028
REGISTERED
PROFESSIONAL ENGINEER
06/05/18
DAYTON MACATEE ENGINEERING, LLC
TX. REG. NO. F-456

PAVING PLAN & PROFILE

GIDEON GROVE - NORTH

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

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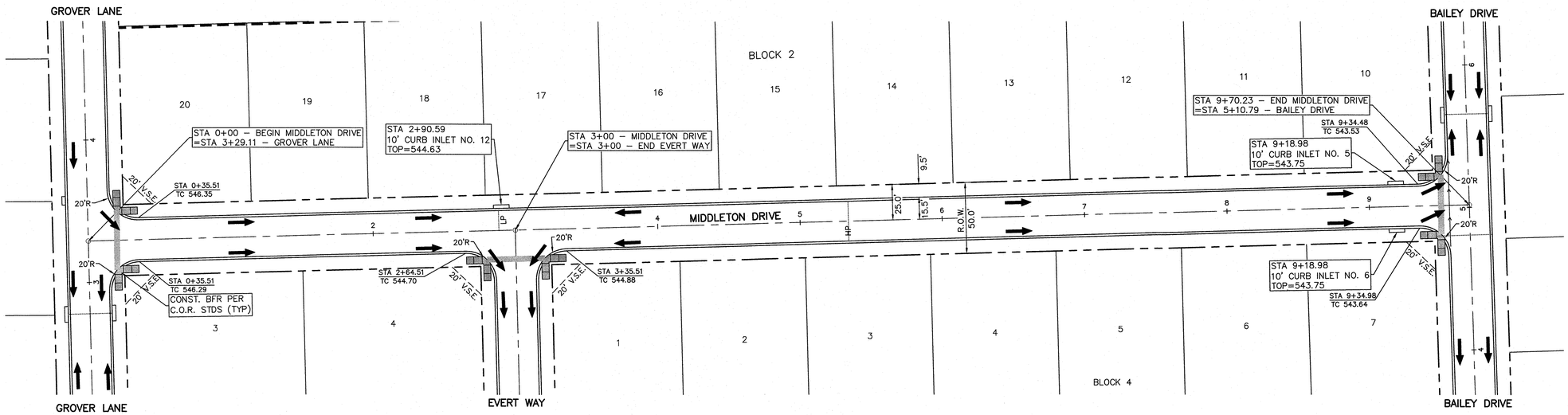
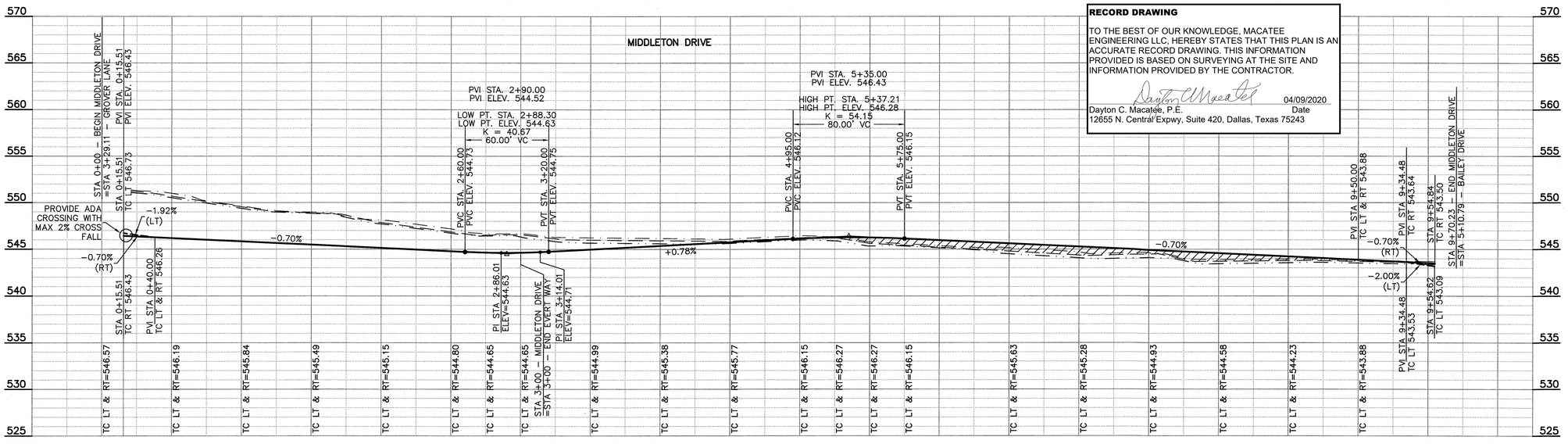
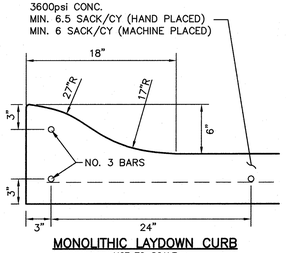
PJF	DCM	06/05/2018	GG_PAV	SKR_GG	6 OF 29







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Dayton C. Macatee, P.E. — 04/09/2020 Date
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PROFILE LEGEND

- EX. GND AT LT R.O.W.
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STATE OF TEXAS — DAYTON C. MACATEE — 65028 — REGISTERED PROFESSIONAL ENGINEER
06/05/18
DAYTON MACATEE ENGINEERING, LLC
TX. REG. NO. F-456

N

40 20 0 40 80

SCALE:
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VALLEY GUTTER
DIRECTION OF FLOW
CENTERLINE
ADA CROSSING (SEE ADA COMPLIANCE NOTE)
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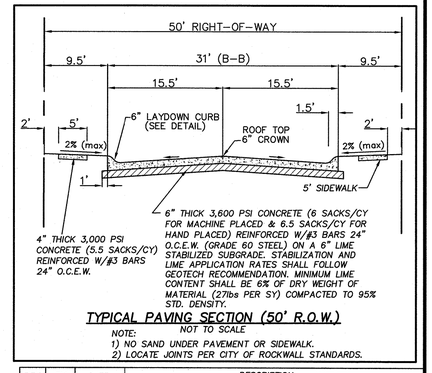

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DESIGNED	CHECKED	DATE	DWG FILE	PROJECT #	SHEET NO.
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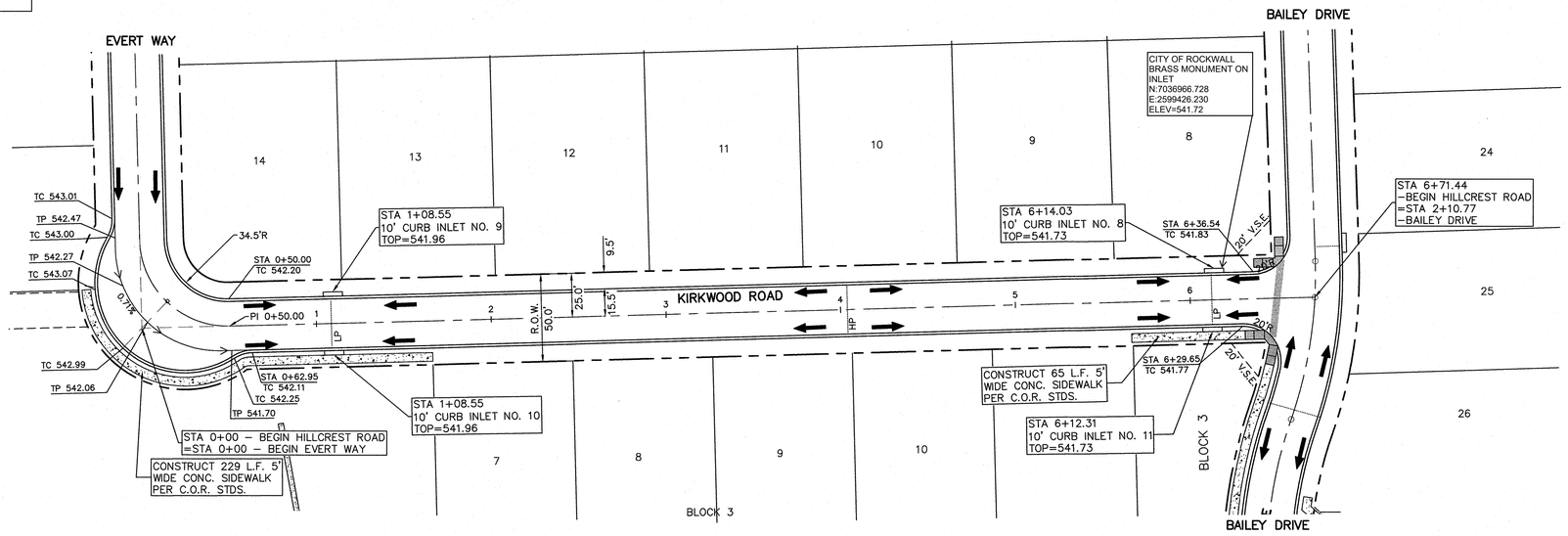

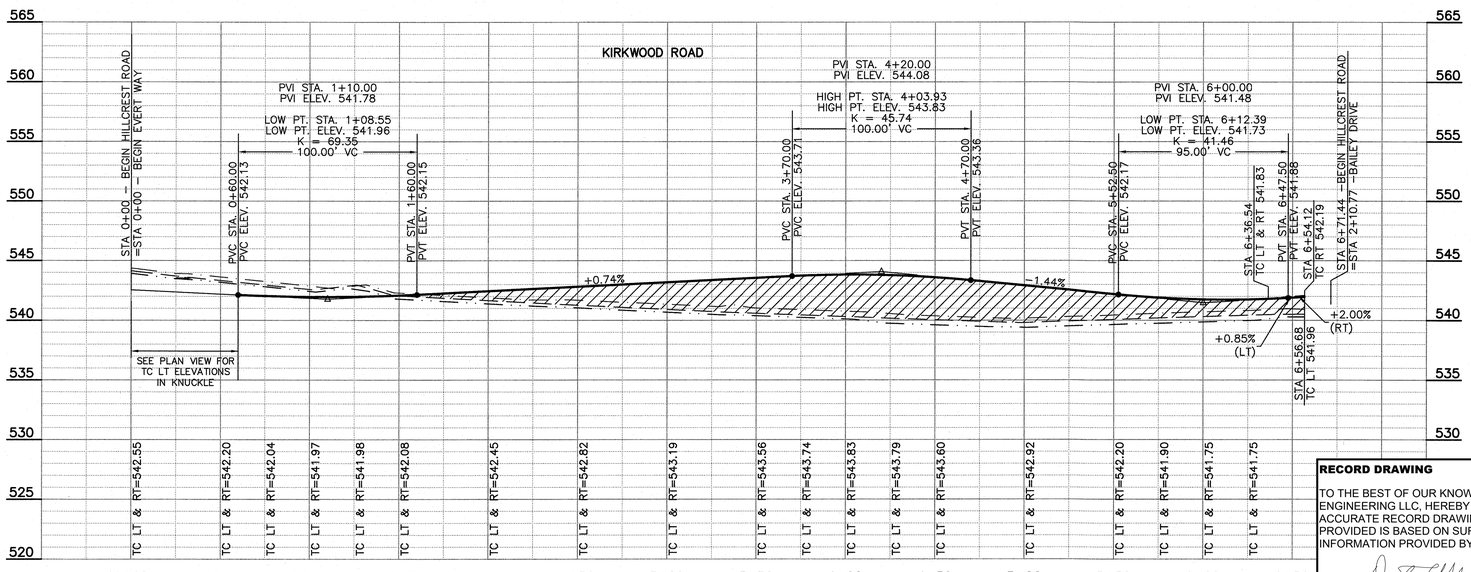

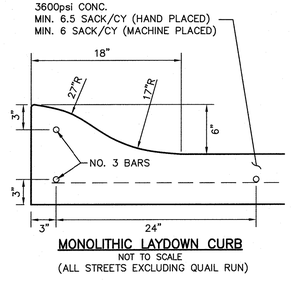

MONOLITHIC LAYDOWN CURB
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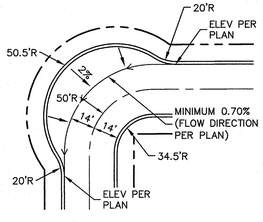

TYPICAL KNUCKLE DETAIL

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Dayton C. Macatee, P.E. — 04/09/2020 Date
12655 N. Central Expwy, Suite 420, Dallas, Texas 75243

STATE OF TEXAS
DAYTON C. MACATEE
65028
REGISTERED
PROFESSIONAL ENGINEER
06/05/18
DAYTON MACATEE ENGINEERING, LLC
TX. REG. NO. F-456

N

40 20 0 40 80

SCALE:
1"=40' H
1"=6' V

GENERAL NOTES:

1) ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF ROCKWALL STANDARDS.

2) THE CONTRACTOR SHALL VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES IN THE AREA OF CONSTRUCTION PRIOR TO BEGINNING CONSTRUCTION.

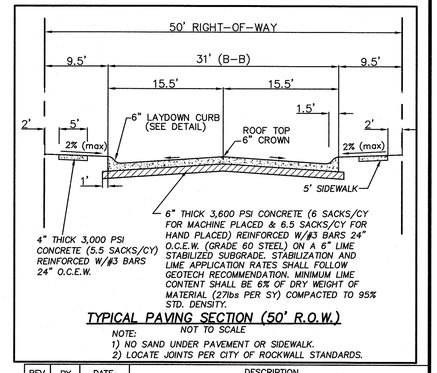
3) THE CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD OF ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS.

4) DIMENSIONS ARE TO BACK OF CURB, UNLESS OTHERWISE NOTED.

LEGEND

C.O.R.	CITY OF ROCKWALL
V.S.E.	VISIBILITY & SIDEWALK EASEMENT
TC	TOP OF CURB
LP	LOW POINT
HP	HIGH POINT
BFR	BARRIER FREE RAMP
24.5'R	RADIUS
PC	POINT OF CURVATURE
PT	POINT OF TANGENCY
PI	POINT OF INTERSECTION
PVI	POINT OF VERTICAL INTERSECTION
CONST.	CONSTRUCT
℄	CENTERLINE
RT	RIGHT
LT	LEFT
GND	GROUND
	PERPENDICULAR CURB RAMP PER TxDOT DETAIL PED-18

TP TOP OF PAVEMENT
VALLEY GUTTER
DIRECTION OF FLOW
CENTERLINE
ADA CROSSING (SEE ADA COMPLIANCE NOTE)
PROPOSED SIDEWALK (BY DEVELOPER, SEE SIDEWALK PLAN)
BFR PER CITY OF ROCKWALL STD DETAIL R-2125A-D



TYPICAL PAVING SECTION (50' R.O.W.)
NOT TO SCALE
NOTE:
1) NO SAND UNDER PAVEMENT OR SIDEWALK.
2) LOCATE JOINTS PER CITY OF ROCKWALL STANDARDS.

REV.	BY	DATE	DESCRIPTION

BENCHMARKS

CITY OF ROCKWALL MONUMENT "COR-2"
ALUMINUM DISK STAMPED "CITY OF ROCKWALL SURVEY MONUMENT" +/-866' EAST OF INTERSECTION OF WILLIAMS STREET AND CARUTH LANE, AND 50' SOUTH OF CL OF WILLIAMS STREET. N: 7029731.124, E: 2598589.314, ELEV=529.10

CITY OF ROCKWALL MONUMENT "COR-4"
ALUMINUM DISK STAMPED "CITY OF ROCKWALL SURVEY MONUMENT" ON NORTH SIDE OF DALTON ROAD +/-210' WEST OF INTERSECTION OF SH 205 AND DALTON ROAD, AND 10' NORTH OF CURB LINE. N: 7040336.992, E: 2592422.633, ELEV=541.67

PAVING PLAN & PROFILE

GIDEON GROVE - NORTH

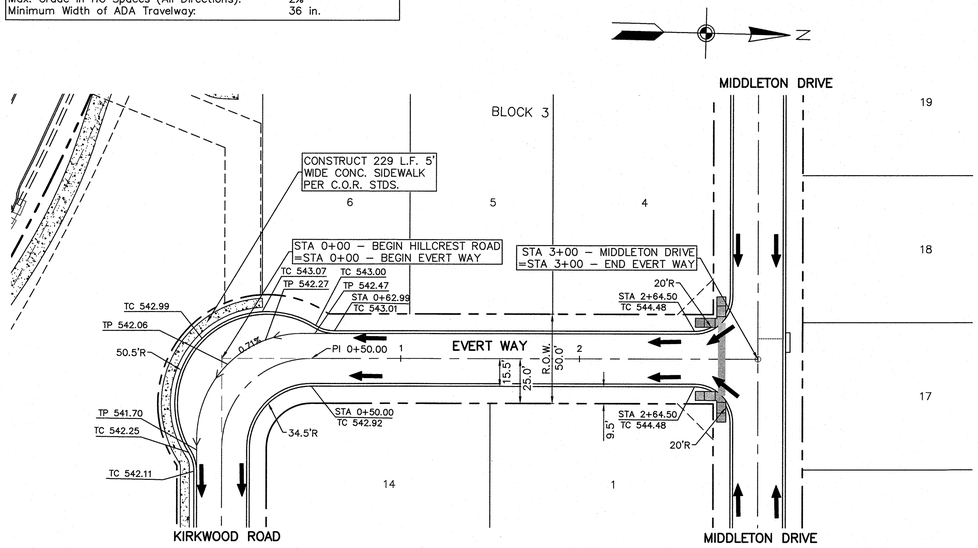
CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

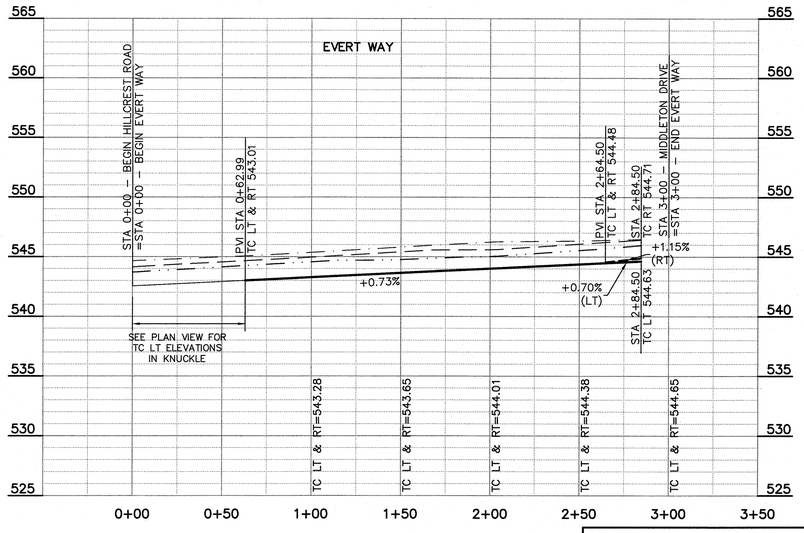
MACATEE ENGINEERING
DAYTON MACATEE ENGINEERING, LLC
(Tex. Reg. No. F-456)
3519 MILES STREET
DALLAS, TEXAS 75209
TEL 214-373-1180 * FAX 214-373-6580
E-MAIL: daytonm@macatee-engineering.com

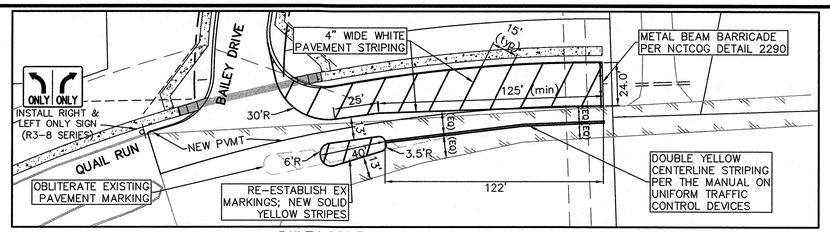
DESIGNED	CHECKED	DATE	DWG FILE	PROJECT #	SHEET NO.
PJF	DCM	06/05/2018	GG_PAV	SKR_GG	8 OF 29

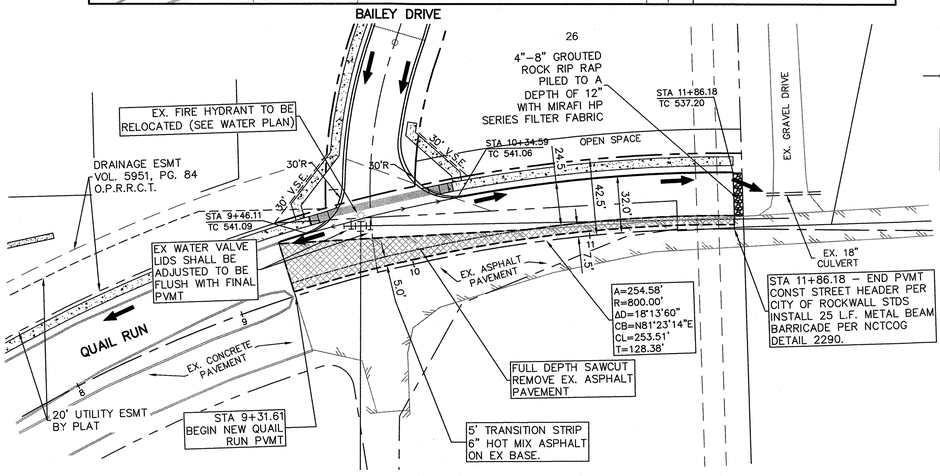
ADA COMPLIANCE: The ADA routes from buildings to sidewalks within public rights-of-way are designed to meet ADA requirements. Contractor shall ensure all grades along the ADA-required routes meet said requirements. The length of the barrier-free ramps (BFR) will need to be adjusted to meet grade requirements. In general, maximum grades are as follows:

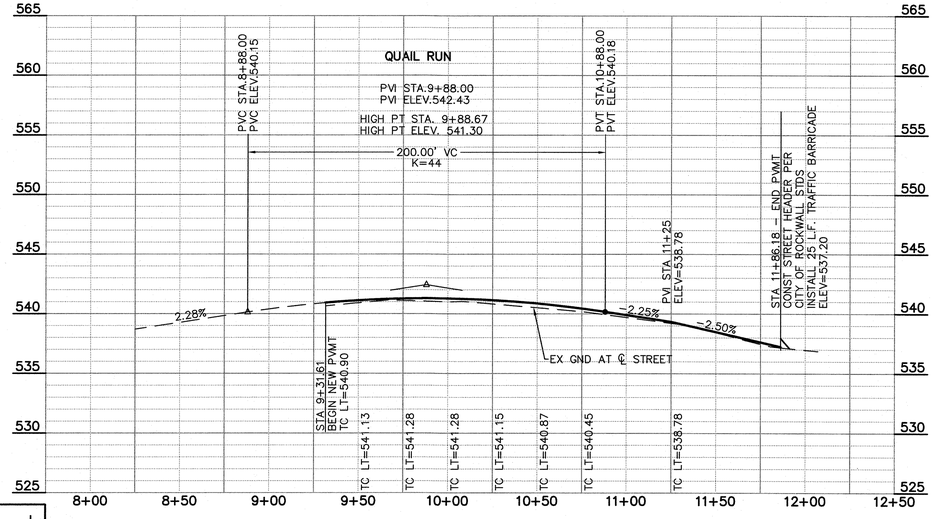
Max. Longitudinal Grade Along ADA Routes:	5%
Max. Longitudinal Grade on BFR:	12:1
Max. Cross Slope Along Route:	2%
Max. Grade in HC Spaces (All Directions):	2%
Minimum Width of ADA Travelway:	36 in.

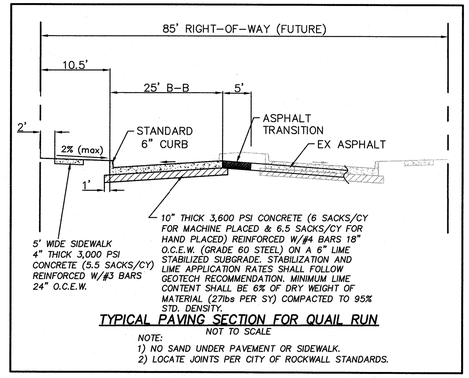




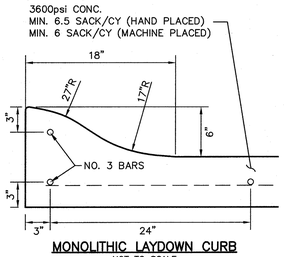




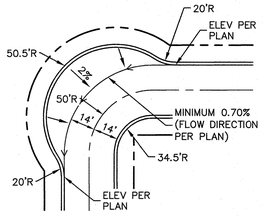




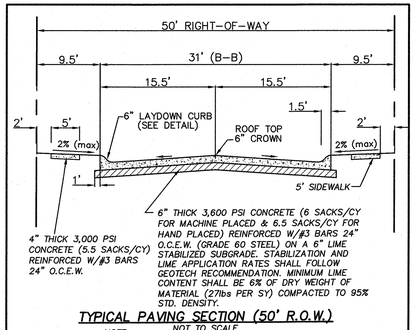
TYPICAL PAVING SECTION FOR QUAIL RUN
NOT TO SCALE
NOTE:
1) NO SAND UNDER PAVEMENT OR SIDEWALK.
2) LOCATE JOINTS PER CITY OF ROCKWALL STANDARDS.



MONOLITHIC LAYDOWN CURB
NOT TO SCALE
(ALL STREETS EXCLUDING QUAIL RUN)



TYPICAL KNUCKLE DETAIL



TYPICAL PAVING SECTION (50' R.O.W.)
NOT TO SCALE
NOTE:
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2) LOCATE JOINTS PER CITY OF ROCKWALL STANDARDS.

PROFILE LEGEND

- EX. GND AT LT R.O.W.
- EX. GND AT ℄ R.O.W.
- EX. GND AT RT R.O.W.
- PROP LT & RT TC
- COMPACTED FILL PER GEOTECH RECOMMENDATIONS. (MIN 95% STD. DENSITY)

RECORD DRAWING

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Dayton C. Macatee, P.E. — 04/09/2020 Date
12655 N. Central Expwy, Suite 420, Dallas, Texas 75243

ALL RESPONSIBILITY FOR ADEQUACY OF DESIGN REMAINS WITH THE DESIGN ENGINEER. THE CITY OF ROCKWALL, IN REVIEWING AND RELEASING PLANS FOR CONSTRUCTION, ASSUMES NO RESPONSIBILITY FOR ADEQUACY OR ACCURACY OF DESIGN

STATE OF TEXAS — DAYTON C. MACATEE — 65028 — REGISTERED PROFESSIONAL ENGINEER
06/05/18
DAYTON MACATEE ENGINEERING, LLC
TX. REG. NO. F-456

ALL PAVEMENT MARKINGS AND SIGNS SHALL FOLLOW THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND CITY STANDARDS.

EQ=EQUAL

40 20 0 40 80
SCALE:
1"=40' H
1"=6' V

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LEGEND

C.O.R.	CITY OF ROCKWALL	TP TOP OF PAVEMENT
V.S.E.	VISIBILITY & SIDEWALK EASEMENT	VALLEY GUTTER
TC	TOP OF CURB	DIRECTION OF FLOW
LP	LOW POINT	
HP	HIGH POINT	
BFR	BARRIER FREE RAMP	CENTERLINE
24.5'R	RADIUS	
PC	POINT OF CURVATURE	ADA CROSSING (SEE ADA COMPLIANCE NOTE)
PT	POINT OF TANGENCY	
PI	POINT OF INTERSECTION	PROPOSED SIDEWALK (BY DEVELOPER, SEE SIDEWALK PLAN)
PVI	POINT OF VERTICAL INTERSECTION	
CONST.	CONSTRUCT	BFR PER CITY OF ROCKWALL STD DETAIL R-2125A-D
℄	CENTERLINE	
RT	RIGHT	
LT	LEFT	
GND	GROUND	
	PERPENDICULAR CURB RAMP PER TxDOT DETAIL PED-18	

REV.	BY	DATE	DESCRIPTION

BENCHMARKS

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PAVING PLAN & PROFILE

GIDEON GROVE - NORTH

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

MACATEE ENGINEERING
DAYTON MACATEE ENGINEERING, LLC
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3519 MILES STREET
DALLAS, TEXAS 75209
TEL 214-373-1180 * FAX 214-373-6580
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DESIGNED	CHECKED	DATE	DWG FILE	PROJECT #	SHEET NO.
PJF	DCM	06/05/2018	GG_PAV	SKR_GG	9 OF 29

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Max. Grade in HC Spaces (All Directions):	2%
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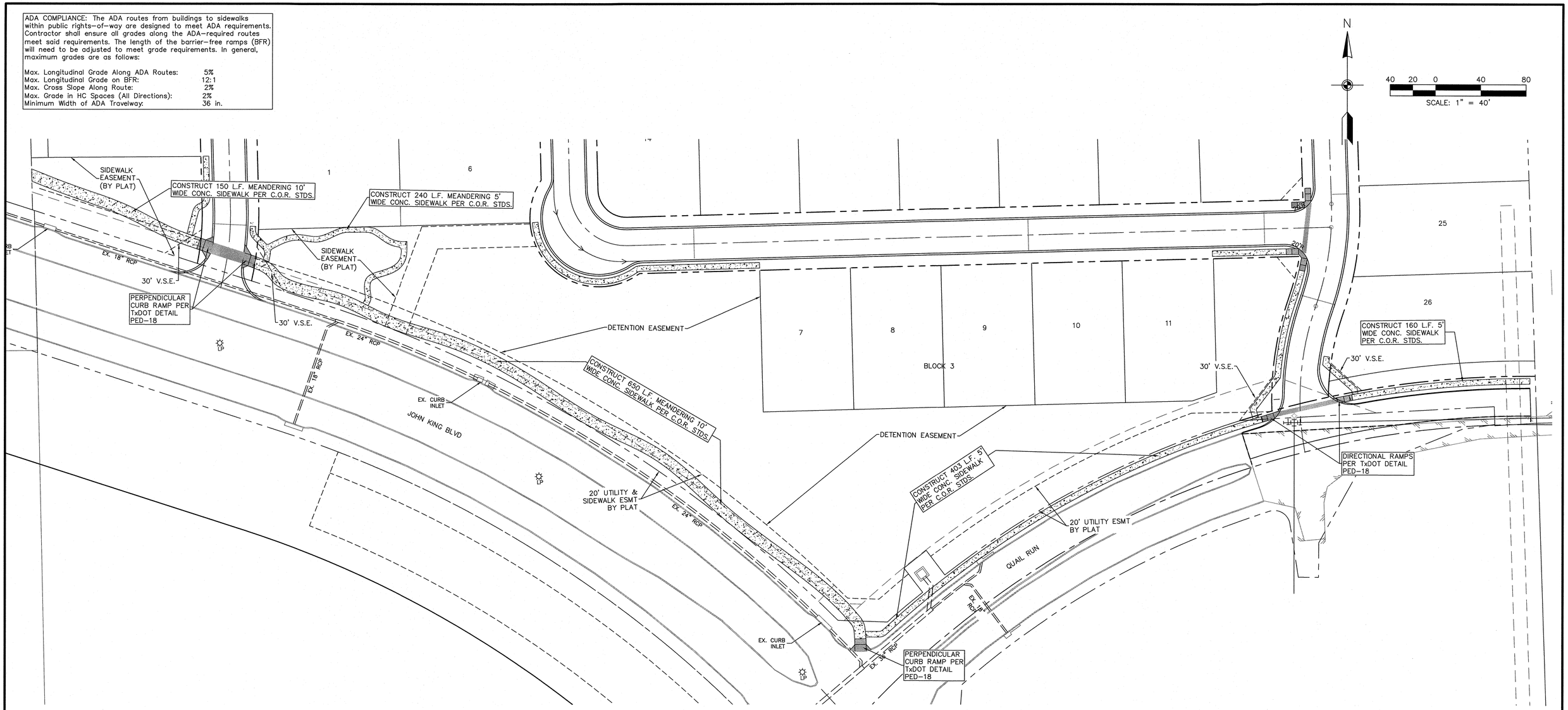

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LEGEND

C.O.R.	CITY OF ROCKWALL		VALLEY GUTTER
V.S.E.	VISIBILITY & SIDEWALK EASEMENT		DIRECTION OF FLOW
TC	TOP OF CURB		CENTERLINE
LP	LOW POINT		ADA CROSSING (SEE ADA COMPLIANCE NOTE)
HP	HIGH POINT		PROPOSED SIDEWALK (BY DEVELOPER, SEE SIDEWALK PLAN)
BFR	BARRIER FREE RAMP		BFR PER CITY OF ROCKWALL STD DETAIL R-2125A-D
24.5'R	RADIUS		
PC	POINT OF CURVATURE		
PT	POINT OF TANGENCY		
PI	POINT OF INTERSECTION		
PVI	POINT OF VERTICAL INTERSECTION		
CONST.	CONSTRUCT		
℄	CENTERLINE		
RT	RIGHT		
LT	LEFT		
GND	GROUND		
	PERPENDICULAR CURB RAMP PER TxDOT DETAIL PED-18		

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06/05/18
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REV.	BY	DATE	DESCRIPTION

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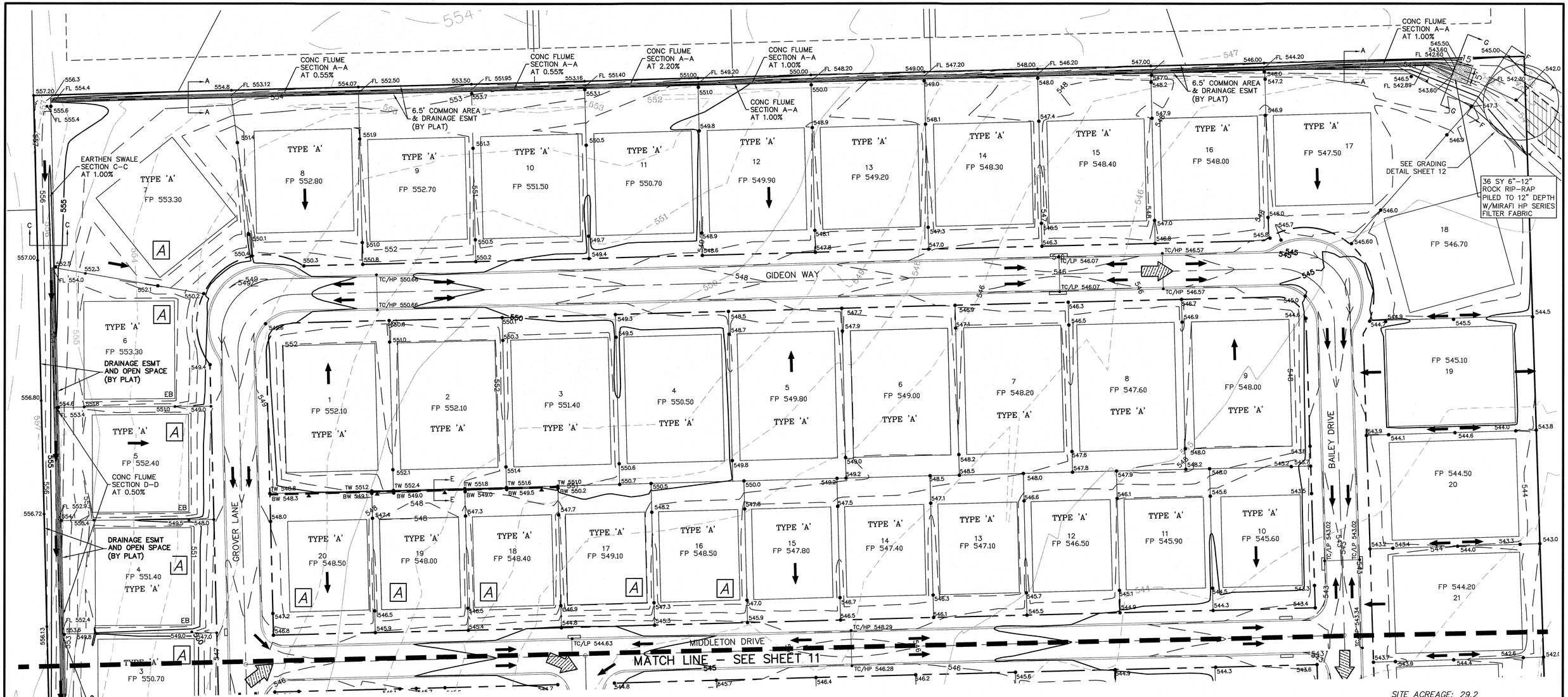
JOHN KING BLVD & QUAIL RUN SIDEWALK PLAN

GIDEON GROVE – NORTH

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

MACATEE ENGINEERING
DAYTON MACATEE ENGINEERING, LLC
(Tex. Reg. No. F-456)
3519 MILES STREET
DALLAS, TEXAS 75209
TEL. 214-373-1180 * FAX 214-373-6580
E-MAIL: daytonm@macatee-engineering.com

DESIGNED	CHECKED	DATE	DWG FILE	PROJECT #	SHEET NO.
PJF	DCM	06/05/2018	GG_PAV	SKR_GG	9A OF 29



1. All Earthwork shall be performed in accordance with the Geotechnical Investigation prepared by Ellerbee-Walczak, Inc. A copy of the Geotechnical Investigation can be obtained by contacting Macatee Engineering, LLC at (214) 373-1180.

Site Preparation

2. All trees, stumps, brush, abandoned structures, roots, vegetation, rubbish and any other undesirable matter should be properly removed and disposed of.

3. Fill Materials Off-site materials to be used for fill should be approved by the Soils Engineer. There should be no roots, vegetation or any other undesirable matter in the soil, and no rocks larger than six (6) inches in diameter.

Depth of Mixing of Fill Layers

4. The fill material should be placed in level, uniform layers, which, when compacted, should have a moisture content and density conforming to the stipulations called for in the Geotechnical Investigation. Each layer should be thoroughly mixed during the spreading to insure the uniformity of the layer.

Rock

5. There should be no rock incorporated within the fill which exceeds six (6) inches in its greatest dimension, and no large rocks will be permitted within twelve (12) inches of the finished subgrade.

Compaction of Fill Layers

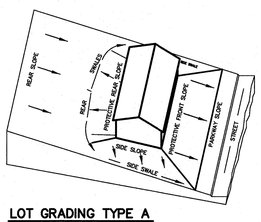
6. Compaction equipment should be of such design that it will be able to compact the fill to the specified density. Compaction of each layer shall be continuous over its entire area at a minimum 95% standard proctor density using a sheep's root roller.

Density Tests

7. Field Density tests should be made by the Soils Engineer or his representative. Density tests should be taken in the compacted material below the disturbed surface. After each layer of fill, compaction tests, as necessary, should be made by the Soils Engineer. If the materials fail to meet the density specified, the courses should be reworked as necessary to obtain the specified compaction.

Supervision

8. Supervision by the Soils Engineer should be of such continuity during the grading operation that he can certify that all cut and filled areas were graded in accordance with the accepted specifications.



LOT GRADING TYPE A
ALL DRAINAGE TO STREET

9. All areas shall be graded to drain.

10. Subgrade Preparation-Paved Areas In areas to be paved, Contractor shall reestablish the specified moisture content and density within 72 hours of paving operations.

11. Accomodation of landscaping
Finished Grades must be maintained after the installation of landscaping. The Landscaper must ensure positive drainage away from all buildings.

A PROVIDE DROP GARAGE TO MAINTAIN MAX 14% DRIVEWAY SLOPE

LEGEND	
548	EXISTING 1 FOOT CONTOUR INTERVAL
550	EXISTING 5 FOOT CONTOUR INTERVAL
548	PROPOSED 1 FOOT CONTOUR INTERVAL
550	PROPOSED 5 FOOT CONTOUR INTERVAL
FP	FINISHED PAD
TW	TOP OF WALL
BW	BOTTOM OF WALL
INV	INVERT
	DIRECTION OF FLOW
	INVERT/SWALE
FACE OF WALL	PROPOSED RETAINING WALL
	EMERGENCY OVERFLOW ROUTE

FINAL FINISHED FLOOR ELEVATIONS SHALL BE A MINIMUM OF 10" ABOVE THE FINISHED PAD (FP) ELEVATIONS SHOWN ON THESE PLANS.

PROPOSED CONTOURS ARE SHOWN FOR REFERENCE ONLY. THE SITE SHALL BE GRADED PER SPOT SHOTS PROVIDED.

UNLESS OTHERWISE NOTED, ALL WALLS END AT 6" HEIGHT & THE ELEVATION SHOWN IS THE BOTTOM OF WALL ELEVATION

SEE SHEET 12 FOR GRADING SECTIONS

RECORD DRAWING

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N

40 20 0 40 80
SCALE: 1" = 40'

STATE OF TEXAS
DAYTON C. MACATEE
65028
REGISTERED
PROFESSIONAL ENGINEER
06/05/18
DAYTON MACATEE ENGINEERING, LLC
TX. REG. NO. F–456

SITE ACREAGE: 29.2

DISTURBED AREA (ac): 29.2

REV.	BY	DATE	DESCRIPTION

BENCHMARKS

CITY OF ROCKWALL MONUMENT "COR–2"
ALUMINUM DISK STAMPED "CITY OF ROCKWALL SURVEY MONUMENT" +/–866' EAST OF INTERSECTION OF WILLIAMS STREET AND CARUTH LANE, AND 50' SOUTH OF CL OF WILLIAMS STREET. N: 7029731.124, E: 2598589.314, ELEV=529.10

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GRADING PLAN

GIDEON GROVE – NORTH

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

MACATEE ENGINEERING
DAYTON MACATEE ENGINEERING, LLC
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3519 MILES STREET
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*TEL 214–373–1180 * FAX 214–373–6580*
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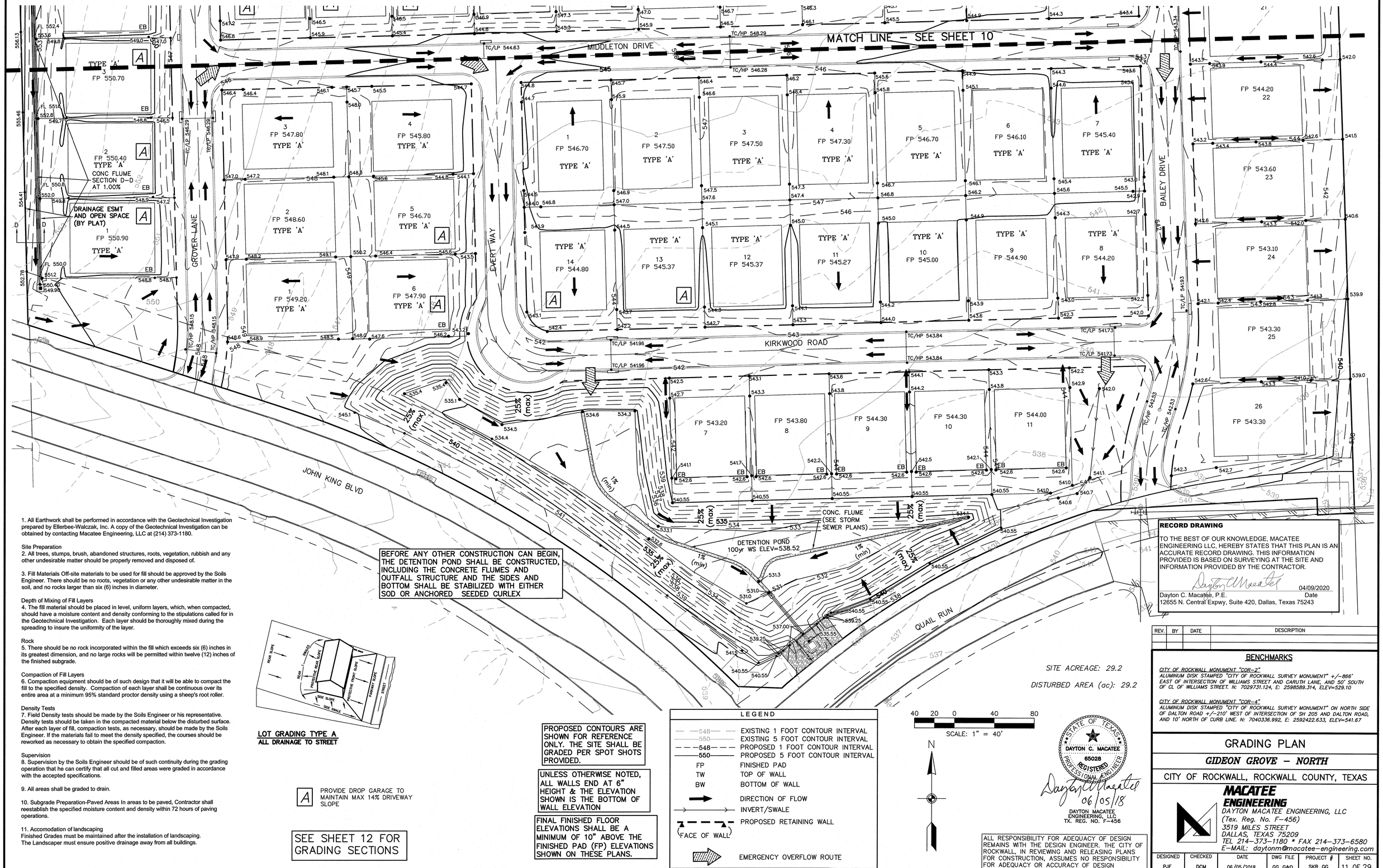
PJF	DCM	06/05/2018	GG_G&D	SKR_GG	10 OF 29



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The Landscaper must ensure positive drainage away from all buildings.

LOT GRADING TYPE A
ALL DRAINAGE TO STREET

BEFORE ANY OTHER CONSTRUCTION CAN BEGIN, THE DETENTION POND SHALL BE CONSTRUCTED, INCLUDING THE CONCRETE FLUMES AND OUTFALL STRUCTURE AND THE SIDES AND BOTTOM SHALL BE STABILIZED WITH EITHER SOD OR ANCHORED SEEDED CURLEX

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SEE SHEET 12 FOR GRADING SECTIONS

LEGEND

548	EXISTING 1 FOOT CONTOUR INTERVAL
550	EXISTING 5 FOOT CONTOUR INTERVAL
548	PROPOSED 1 FOOT CONTOUR INTERVAL
550	PROPOSED 5 FOOT CONTOUR INTERVAL
FP	FINISHED PAD
TW	TOP OF WALL
BW	BOTTOM OF WALL
	DIRECTION OF FLOW
	INVERT/SWALE
FACE OF WALL	PROPOSED RETAINING WALL
	EMERGENCY OVERFLOW ROUTE

40 20 0 40 80
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N

SITE ACREAGE: 29.2

DISTURBED AREA (ac): 29.2

STATE OF TEXAS
DAYTON C. MACATEE
65028
REGISTERED
PROFESSIONAL ENGINEER
06/05/18
DAYTON MACATEE ENGINEERING, LLC
TX. REG. NO. F-456

ALL RESPONSIBILITY FOR ADEQUACY OF DESIGN REMAINS WITH THE DESIGN ENGINEER. THE CITY OF ROCKWALL, IN REVIEWING AND RELEASING PLANS FOR CONSTRUCTION, ASSUMES NO RESPONSIBILITY FOR ADEQUACY OR ACCURACY OF DESIGN

RECORD DRAWING

TO THE BEST OF OUR KNOWLEDGE, MACATEE ENGINEERING LLC, HEREBY STATES THAT THIS PLAN IS AN ACCURATE RECORD DRAWING. THIS INFORMATION PROVIDED IS BASED ON SURVEYING AT THE SITE AND INFORMATION PROVIDED BY THE CONTRACTOR.

Dayton C Macatee 04/09/2020
Dayton C. Macatee, P.E. Date
12655 N. Central Expwy, Suite 420, Dallas, Texas 75243

REV.	BY	DATE	DESCRIPTION

BENCHMARKS

CITY OF ROCKWALL MONUMENT "COR-2"
ALUMINUM DISK STAMPED "CITY OF ROCKWALL SURVEY MONUMENT" +/-866' EAST OF INTERSECTION OF WILLIAMS STREET AND CARUTH LANE, AND 50' SOUTH OF CL OF WILLIAMS STREET. N: 7029731.124, E: 2598589.314, ELEV=529.10

CITY OF ROCKWALL MONUMENT "COR-4"
ALUMINUM DISK STAMPED "CITY OF ROCKWALL SURVEY MONUMENT" ON NORTH SIDE OF DALTON ROAD +/-210' WEST OF INTERSECTION OF SH 205 AND DALTON ROAD, AND 10' NORTH OF CURB LINE. N: 7040336.992, E: 2592422.633, ELEV=541.67

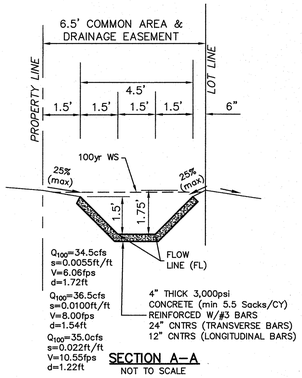
GRADING PLAN

GIDEON GROVE - NORTH

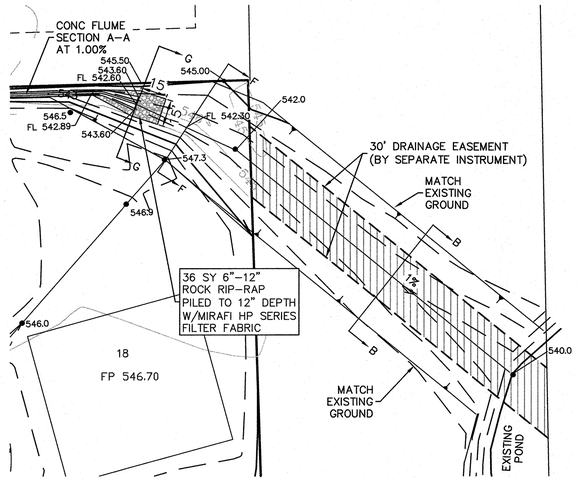
CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

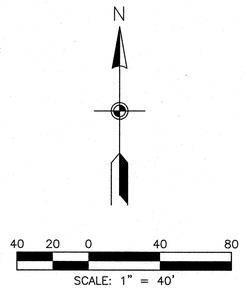
MACATEE ENGINEERING
DAYTON MACATEE ENGINEERING, LLC
(Tex. Reg. No. F-456)
3519 MILES STREET
DALLAS, TEXAS 75209
*TEL 214-373-1180 * FAX 214-373-6580*
E-MAIL: daytonm@macatee-engineering.com

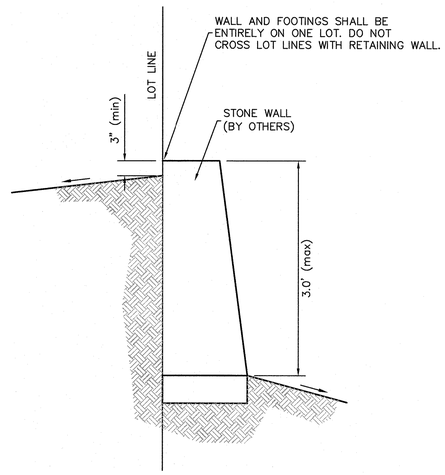
DESIGNED	CHECKED	DATE	DWG FILE	PROJECT #	SHEET NO.
PJF	DCM	06/05/2018	GG_G&D	SKR_GG	11 OF 29



SECTION A–A
NOT TO SCALE







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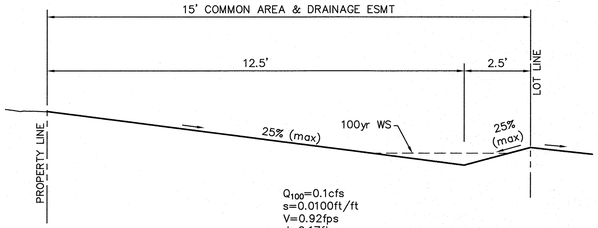
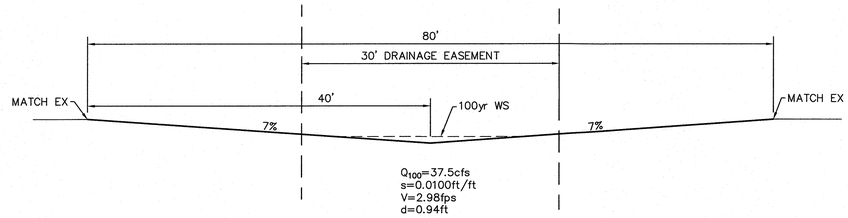
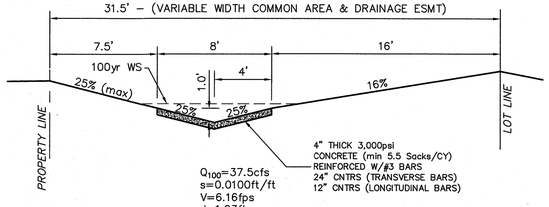


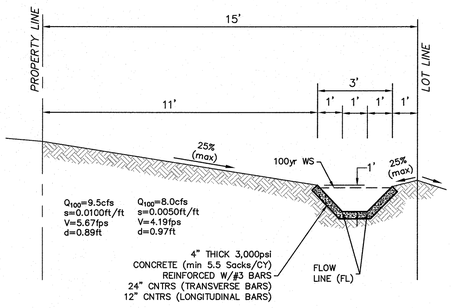
SECTION C–C
NOT TO SCALE



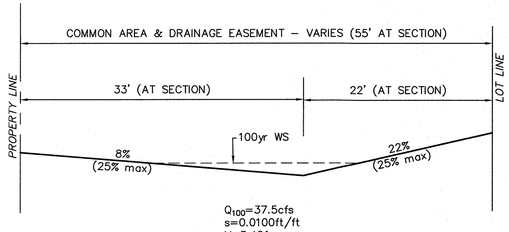
SECTION B–B
NOT TO SCALE



SECTION G–G
NOT TO SCALE



SECTION D–D
NOT TO SCALE



SECTION F–F
NOT TO SCALE

1. All Earthwork shall be performed in accordance with the Geotechnical Investigation prepared by Ellerbee-Walczak, Inc. A copy of the Geotechnical Investigation can be obtained by contacting Macatee Engineering, LLC at (214) 373-1180.

Site Preparation
2. All trees, stumps, brush, abandoned structures, roots, vegetation, rubbish and any other undesirable matter should be properly removed and disposed of.

3. Fill Materials Off-site materials to be used for fill should be approved by the Soils Engineer. There should be no roots, vegetation or any other undesirable matter in the soil, and no rocks larger than six (6) inches in diameter.

Depth of Mixing of Fill Layers
4. The fill material should be placed in level, uniform layers, which, when compacted, should have a moisture content and density conforming to the stipulations called for in the Geotechnical Investigation. Each layer should be thoroughly mixed during the spreading to insure the uniformity of the layer.

Rock
5. There should be no rock incorporated within the fill which exceeds six (6) inches in its greatest dimension, and no large rocks will be permitted within twelve (12) inches of the finished subgrade.

Compaction of Fill Layers
6. Compaction equipment should be of such design that it will be able to compact the fill to the specified density. Compaction of each layer shall be continuous over its entire area at a minimum 95% standard proctor density using a sheep's root roller.

Density Tests
7. Field Density tests should be made by the Soils Engineer or his representative. Density tests should be taken in the compacted material below the disturbed surface. After each layer of fill, compaction tests, as necessary, should be made by the Soils Engineer. If the materials fail to meet the density specified, the courses should be reworked as necessary to obtain the specified compaction.

Supervision
8. Supervision by the Soils Engineer should be of such continuity during the grading operation that he can certify that all cut and filled areas were graded in accordance with the accepted specifications.

9. All areas shall be graded to drain.

10. Subgrade Preparation-Paved Areas In areas to be paved, Contractor shall reestablish the specified moisture content and density within 72 hours of paving operations.

11. Accomodation of landscaping
Finished Grades must be maintained after the installation of landscaping.
The Landscaper must ensure positive drainage away from all buildings.

PROPOSED CONTOURS ARE SHOWN FOR REFERENCE ONLY. THE SITE SHALL BE GRADED PER SPOT SHOTS PROVIDED.

UNLESS OTHERWISE NOTED, ALL WALLS END AT 6" HEIGHT & THE ELEVATION SHOWN IS THE BOTTOM OF WALL ELEVATION

FINAL FINISHED FLOOR ELEVATIONS SHALL BE A MINIMUM OF 10" ABOVE THE FINISHED PAD (FP) ELEVATIONS SHOWN ON THESE PLANS.

LEGEND

—548—	EXISTING 1 FOOT CONTOUR INTERVAL
—550—	EXISTING 5 FOOT CONTOUR INTERVAL
– – 548 – –	PROPOSED 1 FOOT CONTOUR INTERVAL
——550——	PROPOSED 5 FOOT CONTOUR INTERVAL
FP	FINISHED PAD
TW	TOP OF WALL
BW	BOTTOM OF WALL
	DIRECTION OF FLOW
	INVERT/SWALE
FACE OF WALL	PROPOSED RETAINING WALL
	EMERGENCY OVERFLOW ROUTE

RECORD DRAWING

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Dayton C Macatee 04/09/2020

Dayton C. Macatee, P.E. Date
12655 N. Central Expwy, Suite 420, Dallas, Texas 75243

STATE OF TEXAS
DAYTON C. MACATEE
65028
REGISTERED
PROFESSIONAL ENGINEER

Dayton C Macatee 06/05/18

DAYTON MACATEE
ENGINEERING, LLC
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REV.	BY	DATE	DESCRIPTION

BENCHMARKS

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GRADING DETAILS

GIDEON GROVE – NORTH

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

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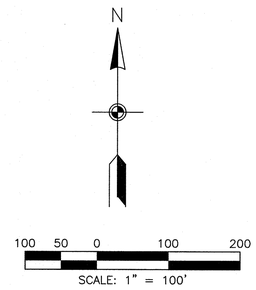

EXISTING RUNOFF CALCULATIONS						
AREA	ACRES	Tc (min)	C	I_{100}	Q_{100}	NOTES:
1	0.52	20	0.35	8.33	1.5	EX. DITCH ALONG NORTH PROPERTY LINE
2	21.81	20	0.35	8.33	63.6	TO EX Y INLET
3	6.87	20	0.35	8.33	20.0	TO ADJACENT PROPERTY/QUAIL RUN
OS1	2.62	20	0.35	8.33	7.6	TO JOHN KING BLVD SYSTEM
OS2	2.61	20	0.35	8.33	7.6	TO EX Y INLET
OS3	0.24	20	0.35	8.33	0.7	TO JOHN KING BLVD SYSTEM
OS4	5.45	20	0.35	8.33	15.9	TO EX POND
OS5	4.37	20	0.5	8.33	18.1	TO EX POND

LEGEND

- EXISTING 2 FOOT CONTOUR INTERVAL
- DRAINAGE DIVIDE
- DRAINAGE AREA ACRES
- RUNOFF IN CFS (100yr)
- DIRECTION OF RUNOFF

RECORD DRAWING

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Dayton C. Macatee, P.E. — 04/09/2020 Date
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STATE OF TEXAS — DAYTON C. MACATEE — 65028 — REGISTERED PROFESSIONAL ENGINEER
06/05/18
DAYTON MACATEE ENGINEERING, LLC
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EXISTING DRAINAGE AREA MAP

GIDEON GROVE – NORTH

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

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DESIGNED	CHECKED	DATE	DWG FILE	PROJECT #	SHEET NO.
PJF	DCM	06/05/2018	GG_G&D	SKR_GG	13 OF 29

VACANT

R&R HANCE INVESTMENTS, L.P.
CALLED 32 ACRE TRACT (SECOND TRACT)
VOLUME 5433, PAGE 49, D.R.R.C.T.

R&R HANCE INVESTMENTS, L.P.
REMAINDER OF CALLED 32.5 ACRE TRACT
(FIRST TRACT)
VOLUME 5433, PAGE 49, D.R.R.C.T.

ZONED: PD

VACANT

EX. BERM

LOT 19

LOT 18

Block A
WINDMILL VALLEY SUBDIVISION
CABINET A, SLIDE 157, P.R.R.C.T.

RESIDENTIAL

RESIDENTIAL

BLOCK 1

BLOCK 2

BLOCK 3

BLOCK 4

GIDEON WAY

GROVER LANE

MIDDLETON DRIVE

BAILEY DRIVE

EVERT WAY

KIRKWOOD ROAD

JOHN KING BLVD.

QUAIL RUN

BERM ALONG ROAD

DETENTION AREA

DETENTION AREA

EXISTING DETENTION POND

EX. STRUCTURES

ZONED: AG

EX. SWALE AT PROPERTY LINE ON ADJACENT PROPERTY

HILDA & PETER KOUNELIS
CALLED 3.8750 ACRES
VOLUME 1881, PAGE 115, D.R.R.C.T.
VOLUME 1927, PAGE 97, D.R.R.C.T.

EX. CURB INLET

EX. 18" RCP

EX. 24" RCP

EX. 36" RCP

EX 18" CULVERT

OS1 2.62 / 7.6
OS2 2.61 / 7.6
OS3 0.24 / 0.7
OS4 5.45 / 15.9
OS5 4.37 / 18.1
A 2.74 / 13.4
B 2.72 / 13.3
C 1.83 / 9.0
D 0.95 / 4.7
E 1.18 / 5.8
F 1.25 / 6.1
G 0.71 / 3.5
H 1.09 / 5.3
I 2.24 / 11.0
J 1.35 / 6.6
K 0.25 / 1.2
L 1.75 / 8.6
M 0.52 / 2.5
N 2.18 / 10.7
O 0.67 / 3.3
P 0.37 / 1.8
Q 3.61 / 17.7
R 1.32 / 6.5
S 0.31 / 1.5
T 0.22 / 1.0
U 0.52 / 2.5
V 0.23 / 2.1
W 0.03 / 0.1
X 0.93 / 4.6
X 0.24 / 1.2

CI-1 CI-2 CI-3 CI-4 CI-5 CI-6 CI-7 CI-8 CI-9 CI-10 CI-11 CI-12 CI-13 CI-14 CI-15
DI-1

60 30 0 60 120
SCALE: 1" = 60'

N

PER PLANS PREPARED FOR STONEY HOLLOW ADDITION BY DOUPHRATE & ASSOCIATES, INC DATED 01/02/04 THE ORIGINAL REQUIRED DETENTION VOLUME WAS 266,601cf AND THE EXISTING DETENTION POND HAS A CAPACITY OF 347,335cf.

WITH THE ADDITION OF AREAS OS4, OS5 & V THE REVISED REQUIRED VOLUME IS 318,511cf.

RECORD DRAWING

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Dayton C. Macatee 04/09/2020

Dayton C. Macatee, P.E. Date
12655 N. Central Expwy, Suite 420, Dallas, Texas 75243

SEE DRAINAGE CALCULATIONS SHEET 15 FOR PROPOSED RUNOFF CALCULATIONS

SEE "DETENTION STUDY FOR GIDEON GROVE" PREPARED BY CARDINAL STRATEGIES, DATED MAY 16, 2018 FOR A DETAILED ANALYSIS OF DETENTION VOLUMES AND OUTFALL STRUCTURE.

LEGEND

- EXISTING 2 FOOT CONTOUR INTERVAL
- PROPOSED 2 FOOT CONTOUR INTERVAL
- DRAINAGE DIVIDE
- DRAINAGE AREA (X) / ACRES (X.X) / RUNOFF IN CFS (100yr) (X.X)
- DIRECTION OF RUNOFF
- CURB INLET DESIGNATION (CI-1)
- DROP INLET DESIGNATION (DI-1)

REV.	BY	DATE	DESCRIPTION

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PROPOSED DRAINAGE AREA MAP

GIDEON GROVE – NORTH

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

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PJF	DCM	06/05/2018	GG_G&D	SKR_GG	14 OF 29

PIPE HYDRAULICS CALCULATIONS

STORM LINE A

Stations U/S	Stations D/S	Length (ft)	Pipe Size (in)	Type	Pipe Area (ft^2)	Wetted Perimeter Pw	Hydraulic Radius	Manning's n	Basin Area (Ac)	Runoff Coeff C	Incremental C*A	Accumulated C*A	U/S Tc (min)	Design Storm Freq (yr)	Intensity I	Runoff Q (cfs)	Velocity V (fps)	Time in Conduit	Friction Slope S_f	Friction Headloss (ft)	HGL U/S	HGL D/S	Headloss $V_1^2/2g$	Calculations $V_2^2/2g$	Jct Type	Coeff K_j	Headloss H_L	Design HGL	Top of Curb Elev.	HGL Depth Below T/C (ft)
1203	1181	22.00	21.00	RCP	2.41	5.50	0.44	0.013	2.72	0.50	1.36	1.36	10.00	100	9.80	13.3	5.54	0.07	0.0070	0.15	543.38	543.22		0.48	Inlet CI-2	1.25	0.60	543.97	546.07	2.10
1181	1179	2.00	21.00	RCP	2.41	5.50	0.44	0.013	0.00	0.50	0.00	1.36	10.07	100	9.79	13.3	5.54	0.01	0.0070	0.01	543.05	543.03	0.48	0.48	45 Deg Bend	0.37	0.18	543.22	546.09	2.87
1179	1176	3.00	33.00	RCP	5.94	8.64	0.69	0.013	0.00	0.50	0.00	1.36	10.07	100	9.79	13.3	2.24	0.02	0.0006	0.00	542.75	542.75	0.48	0.08	Expansion		0.28	543.03	546.09	3.06
1176	953	223.00	33.00	RCP	5.94	8.64	0.69	0.013	2.74	0.50	1.37	2.73	10.09	100	9.78	26.7	4.50	0.83	0.0025	0.57	542.47	541.91	0.08	0.31	45 Deg Wye	0.50	0.28	542.75	546.10	3.35
953	683	270.00	33.00	RCP	5.94	8.64	0.69	0.013	0.00	0.50	0.00	2.73	10.92	100	9.65	26.4	4.44	1.01	0.0025	0.67	541.77	541.11	0.31	0.31	MH	0.55	0.13	541.91	544.90	2.99
683	680	3.00	39.00	RCP	8.30	10.21	0.81	0.013	0.00	0.50	0.00	2.73	11.94	100	9.49	25.9	3.12	0.02	0.0010	0.00	541.02	541.02	0.31	0.15	Expansion		0.09	541.11	543.15	2.04
680	674	6.00	39.00	RCP	8.30	10.21	0.81	0.013	0.95	0.50	0.48	3.21	11.95	100	9.49	30.4	3.67	0.03	0.0013	0.01	540.88	540.88	0.15	0.21	45 Deg Wye	0.50	0.13	541.02	543.10	2.08
674	628	46.00	39.00	RCP	8.30	10.21	0.81	0.013	1.83	0.50	0.92	4.12	11.98	100	9.48	39.1	4.71	0.16	0.0022	0.10	540.64	540.53	0.21	0.34	45 Deg Wye	0.50	0.24	540.88	543.02	2.14
628	343	285.00	42.00	RCP	9.62	11.00	0.88	0.013	2.43	0.50	1.22	5.34	12.14	100	9.46	50.5	5.24	0.91	0.0025	0.71	540.19	539.48	0.34	0.43	MH	0.25	0.34	540.53	543.47	2.94
343	300	43.00	48.00	RCP	12.57	12.57	1.00	0.013	0.71	0.50	0.36	5.69	13.05	100	9.31	53.0	4.22	0.17	0.0014	0.06	539.42	539.36	0.43	0.28	45 Deg Wye	0.50	0.06	539.48	542.00	2.52
300	177	123.00	48.00	RCP	12.57	12.57	1.00	0.013	1.09	0.50	0.55	6.24	13.22	100	9.29	57.9	4.61	0.44	0.0016	0.20	539.17	538.97	0.28	0.33	45 Deg Wye	0.50	0.19	539.36	542.08	2.72
177	0	177.00	48.00	RCP	12.57	12.57	1.00	0.013	0.00	0.50	0.00	6.24	13.66	100	9.21	57.4	4.57	0.65	0.0016	0.28	538.80	538.52	0.33	0.32	MH	0.48	0.17	538.97	541.40	2.43

STORM LAT A-1

Stations U/S	Stations D/S	Length (ft)	Pipe Size (in)	Type	Pipe Area (ft^2)	Wetted Perimeter Pw	Hydraulic Radius	Manning's n	Basin Area (Ac)	Runoff Coeff C	Incremental C*A	Accumulated C*A	U/S Tc (min)	Design Storm Freq (yr)	Intensity I	Runoff Q (cfs)	Velocity V (fps)	Time in Conduit	Friction Slope S_f	Friction Headloss (ft)	HGL U/S	HGL D/S	Headloss $V_1^2/2g$	Calculations $V_2^2/2g$	Jct Type	Coeff K_j	Headloss H_L	Design HGL	Top of Curb Elev.	HGL Depth Below T/C (ft)
69	33	36.00	21.00	RCP	2.41	5.50	0.44	0.013	1.09	0.50	0.55	0.55	10.00	100	9.80	5.3	2.22	0.27	0.0011	0.04	539.54	539.50		0.08	Inlet CI-8	1.25	0.10	539.64	541.73	2.09
33	0	33.00	21.00	RCP	2.41	5.50	0.44	0.013	0.24	0.50	0.12	0.67	10.27	100	9.76	6.5	2.70	0.20	0.0017	0.06	539.42	539.36	0.08	0.11	60 Deg Wye	0.35	0.09	539.50	541.85	2.35

STORM LAT A-1-1

Stations U/S	Stations D/S	Length (ft)	Pipe Size (in)	Type	Pipe Area (ft^2)	Wetted Perimeter Pw	Hydraulic Radius	Manning's n	Basin Area (Ac)	Runoff Coeff C	Incremental C*A	Accumulated C*A	U/S Tc (min)	Design Storm Freq (yr)	Intensity I	Runoff Q (cfs)	Velocity V (fps)	Time in Conduit	Friction Slope S_f	Friction Headloss (ft)	HGL U/S	HGL D/S	Headloss $V_1^2/2g$	Calculations $V_2^2/2g$	Jct Type	Coeff K_j	Headloss H_L	Design HGL	Top of Curb Elev.	HGL Depth Below T/C (ft)
26	0	26.00	21.00	RCP	2.41	5.50	0.44	0.013	0.24	0.50	0.12	0.12	10.00	100	9.80	1.2	0.49	0.89	0.0001	0.00	539.50	539.50		0.00	Inlet CI-11	1.25	0.00	539.51	541.73	2.22

STORM LAT A-2

Stations U/S	Stations D/S	Length (ft)	Pipe Size (in)	Type	Pipe Area (ft^2)	Wetted Perimeter Pw	Hydraulic Radius	Manning's n	Basin Area (Ac)	Runoff Coeff C	Incremental C*A	Accumulated C*A	U/S Tc (min)	Design Storm Freq (yr)	Intensity I	Runoff Q (cfs)	Velocity V (fps)	Time in Conduit	Friction Slope S_f	Friction Headloss (ft)	HGL U/S	HGL D/S	Headloss $V_1^2/2g$	Calculations $V_2^2/2g$	Jct Type	Coeff K_j	Headloss H_L	Design HGL	Top of Curb Elev.	HGL Depth Below T/C (ft)
22	0	22.00	21.00	RCP	2.41	5.50	0.44	0.013	0.71	0.50	0.36	0.36	10.00	100	9.80	3.5	1.45	0.25	0.0005	0.01	539.49	539.48		0.03	Inlet CI-7	1.25	0.04	539.53	541.91	2.38

STORM LAT A-3

Stations U/S	Stations D/S	Length (ft)	Pipe Size (in)	Type	Pipe Area (ft^2)	Wetted Perimeter Pw	Hydraulic Radius	Manning's n	Basin Area (Ac)	Runoff Coeff C	Incremental C*A	Accumulated C*A	U/S Tc (min)	Design Storm Freq (yr)	Intensity I	Runoff Q (cfs)	Velocity V (fps)	Time in Conduit	Friction Slope S_f	Friction Headloss (ft)	HGL U/S	HGL D/S	Headloss $V_1^2/2g$	Calculations $V_2^2/2g$	Jct Type	Coeff K_j	Headloss H_L	Design HGL	Top of Curb Elev.	HGL Depth Below T/C (ft)
59	37	22.00	21.00	RCP	2.41	5.50	0.44	0.013	1.18	0.50	0.59	0.59	10.00	100	9.80	5.8	2.40	0.15	0.0013	0.03	541.19	541.16		0.09	Inlet CI-5	1.25	0.11	541.30	543.75	2.45
37	34	3.00	21.00	RCP	2.41	5.50	0.44	0.013	0.00	0.50	0.00	0.59	10.15	100	9.78	5.8	2.40	0.02	0.0013	0.00	541.06	541.05	0.09	0.09	45 Deg Bend	0.37	0.10	541.16	543.50	2.34
34	0	34.00	21.00	RCP	2.41	5.50	0.44	0.013	1.25	0.50	0.63	1.22	10.17	100	9.77	11.9	4.94	0.11	0.0056	0.19	540.72	540.53	0.09	0.38	45 Deg Wye	0.50	0.33	541.05	543.50	2.45

STORM LAT A-3-1

Stations U/S	Stations D/S	Length (ft)	Pipe Size (in)	Type	Pipe Area (ft^2)	Wetted Perimeter Pw	Hydraulic Radius	Manning's n	Basin Area (Ac)	Runoff Coeff C	Incremental C*A	Accumulated C*A	U/S Tc (min)	Design Storm Freq (yr)	Intensity I	Runoff Q (cfs)	Velocity V (fps)	Time in Conduit	Friction Slope S_f	Friction Headloss (ft)	HGL U/S	HGL D/S	Headloss $V_1^2/2g$	Calculations $V_2^2/2g$	Jct Type	Coeff K_j	Headloss H_L	Design HGL	Top of Curb Elev.	HGL Depth Below T/C (ft)
22	0	22.00	21.00	RCP	2.41	5.50	0.44	0.013	1.25	0.50	0.63	0.63	10.00	100	9.80	6.1	2.55	0.14	0.0015	0.03	541.08	541.05		0.10	Inlet CI-6	1.25	0.13	541.21	543.62	2.41

STORM LAT A-4

Stations U/S	Stations D/S	Length (ft)	Pipe Size (in)	Type	Pipe Area (ft^2)	Wetted Perimeter Pw	Hydraulic Radius	Manning's n	Basin Area (Ac)	Runoff Coeff C	Incremental C*A	Accumulated C*A	U/S Tc (min)	Design Storm Freq (yr)	Intensity I	Runoff Q (cfs)	Velocity V (fps)	Time in Conduit	Friction Slope S_f	Friction Headloss (ft)	HGL U/S	HGL D/S	Headloss $V_1^2/2g$	Calculations $V_2^2/2g$	Jct Type	Coeff K_j	Headloss H_L	Design HGL	Top of Curb Elev.	HGL Depth Below T/C (ft)
18	0	18.00	21.00	RCP	2.41	5.50	0.44	0.013	0.95	0.50	0.48	0.48	10.00	100	9.80	4.7	1.94	0.16	0.0009	0.02	540.92	540.90		0.06	Inlet CI-4	1.25	0.07	540.99	543.02	2.03

STORM LAT A-5

Stations U/S	Stations D/S	Length (ft)	Pipe Size (in)	Type	Pipe Area (ft^2)	Wetted Perimeter Pw	Hydraulic Radius	Manning's n	Basin Area (Ac)	Runoff Coeff C	Incremental C*A	Accumulated C*A	U/S Tc (min)	Design Storm Freq (yr)	Intensity I	Runoff Q (cfs)	Velocity V (fps)	Time in Conduit	Friction Slope S_f	Friction Headloss (ft)	HGL U/S	HGL D/S	Headloss $V_1^2/2g$	Calculations $V_2^2/2g$	Jct Type	Coeff K_j	Headloss H_L	Design HGL	Top of Curb Elev.	HGL Depth Below T/C (ft)
22	0	22.00	24.00	RCP	3.14	6.28	0.50	0.013	1.81	0.50	0.91	0.91	10.00	100	9.80	8.9	2.82	0.13	0.0015	0.03	540.83	540.80		0.12	Inlet CI-3	1.25	0.15	540.99	543.02	2.03

STORM LAT A-6

Stations U/S	Stations D/S	Length (ft)	Pipe Size (in)	Type	Pipe Area (ft^2)	Wetted Perimeter Pw	Hydraulic Radius	Manning's n	Basin Area (Ac)	Runoff Coeff C	Incremental C*A	Accumulated C*A	U/S Tc (min)	Design Storm Freq (yr)	Intensity I	Runoff Q (cfs)	Velocity V (fps)	Time in Conduit	Friction Slope S_f	Friction Headloss (ft)	HGL U/S	HGL D/S	Headloss $V_1^2/2g$	Calculations $V_2^2/2g$	Jct Type	Coeff K_j	Headloss H_L	Design HGL	Top of Curb Elev.	HGL Depth Below T/C (ft)
22	0	22.00	21.00	RCP	2.41	5.50	0.44	0.013	2.62	0.50	1.31	1.31	10.00	100	9.80	12.8	5.34	0.07	0.0065	0.14	542.89	542.75		0.44	Inlet CI-1	1.25	0.55	543.45	546.06	2.61

PROPOSED RUNOFF CALCULATIONS

AREA	ACRES	Tc (min)	C	I100	Q100	NOTES:
A	2.74	10	0.5	9.8	13.4	CI-1 (TO DETENTION POND)
B	2.72	10	0.5	9.8	13.3	CI-2 (TO DETENTION POND)
C	1.83	10	0.5	9.8	9.0	CI-3 (TO DETENTION POND)
D	0.95	10	0.5	9.8	4.7	CI-4 (TO DETENTION POND)
E	1.18	10	0.5	9.8	5.8	CI-5 (TO DETENTION POND)
F	1.25	10	0.5	9.8	6.1	CI-6 (TO DETENTION POND)
G	0.71	10	0.5	9.8	3.5	CI-8 (TO DETENTION POND)
H	1.09	10	0.5	9.8	5.3	CI-7 (TO DETENTION POND)
I	2.24	10	0.5	9.8	11.0	CI-9 (TO DETENTION POND)
J	1.35	10	0.5	9.8	6.6	CI-10 (TO DETENTION POND)
K	0.25	10	0.5	9.8	1.2	DI-1 (TO DETENTION POND)
L	1.75	10	0.5	9.8	8.6	CI-12 (TO DETENTION POND)
M	0.52	10	0.5	9.8	2.5	CI-12 (TO DETENTION POND)
N	2.18	10	0.5	9.8	10.7	CI-13 (TO DETENTION POND)
O	0.67	10	0.5	9.8	3.3	CI-14 (TO DETENTION POND)
P	0.37	10	0.5	9.8	1.8	CI-13 (TO DETENTION POND)
Q	3.61	10	0.5	9.8	17.7	TO DETENTION POND
R	1.32	10	0.5	9.8	6.5	TO ADJACENT PROPERTY (BYPASS DETENTION)
S	0.31	10	0.5	9.8	1.5	TO QUAIL RUN (BYPASS DETENTION)
T	0.22	10	0.5	9.8	1.0	TO QUAIL RUN (BYPASS DETENTION)
U	0.52	10	0.5	9.8	2.5	TO EX POND (BYPASS DETENTION)
V	0.23	10	0.9	9.8	2.1	TO EX 18" CULVERT (BYPASS DETENTION)
W	0.03	10	0.5	9.8	0.1	TO JOHN KING BLVD (BYPASS DETENTION)
X	0.93	10	0.5	9.8	4.6	CI-13 (TO DETENTION POND)
OS1	2.62	20	0.35	8.33	7.6	TO JOHN KING BLVD
OS2	2.61	20	0.35	8.33	7.6	TO DI-1 (TO DETENTION POND)
OS3	0.24	20	0.35	8.33	0.7	TO DI-1 (TO DETENTION POND)
OS4	5.45	20	0.35	8.33	15.9	TO EX POND
OS5	4.37	20	0.5	8.33	18.1	TO EX POND

Inlet Calculations

Inlet Designation	Inlet Type	Runoff Q_{100} (cfs)	Upstream Bypass Q_{100} (cfs)	Total Gutter Flow Q_{100} (cfs)	Long Slope S (ft/ft)	Cross Slope S_x (ft/ft)	Depression Depth a (ft)	Depression Width W (ft)	Flow Depth in Depressed Section (ft)	Ratio of Depressed flow to Total Flow (E_o)	Equivalent Cross Section (S_w) (ft/ft)	Required Inlet Length (ft)	Actual Inlet Length (ft)	Inlet Capacity (cfs)	Bypass Flow (cfs)	To Inlet
CI-1	Sag	13.4	0	13.4	0.0080	0.033	0.5	2	0.50	n/a	n/a	12.88	15	15.1	0	n/a
CI-2	Sag	13.3	0	13.3	0.0080	0.033	0.5	2	0.50	n/a	n/a	12.76	15	15.1	0	n/a
CI-3	Sag	9.0	0	9.0	0.0070	0.033	0.5	2	0.44	n/a	n/a	9.81	10	11.1	0	n/a
CI-4	Sag	4.7	0	4.7	0.0070	0.033	0.5	2	0.29	n/a	n/a	9.48	10	11.1	0	n/a
CI-5	On-Grade	5.8	0	5.8	0.0073	0.033	0.5	2	0.40	0.45	0.2355	7.74	10	10.6	0	n/a
CI-6	On-Grade	6.1	0	6.1	0.0073	0.033	0.5	2	0.40	0.45	0.2355	7.91	10	10.6	0	n/a
CI-7	Sag	3.5	0	3.5	0.0070	0.033	0.5	2	0.24	n/a	n/a	9.34	10	11.1	0	n/a
CI-8	Sag	5.3	0	5.3	0.0130	0.033	0.5	2	0.35	n/a	n/a	7.53	10	11.1	0	n/a
CI-9	Sag	11.0	0	11.0	0.0074	0.033	0.5	2	0.50	n/a	n/a	9.75	10	11.1	0	n/a
CI-10	Sag	6.6	0	6.6	0.0074	0.033	0.5	2	0.36	n/a	n/a	9.69	10	11.1	0	n/a
CI-11	Sag	1.2	0	1.2	0.0130	0.033	0.5	2	0.15	n/a	n/a	5.38	10	11.1	0	n/a
CI-12	Sag	11.1	0	11.1	0.0078	0.033	0.5	2	0.50	n/a	n/a	10.00	10	11.1	0	n/a
CI-13	Sag	6.4	3.4	9.8	0.0119	0.033	0.5	2	0.47	n/a	n/a	5.04	10	11.1	0	n/a
CI-14	Sag	3.3	0	3.3	0.0119	0.033	0.5	2	0.23	n/a	n/a	9.41	10	11.1	0	n/a
CI-15	On-Grade	10.7	0	10.7	0.0100	0.033	0.5	2	0.46	0.45	0.249	10.64	5	7.2	3.4	CI-13
DI-1	Drop	10.5	0	10.5	n/a	n/a	n/a	n/a	0.50	n/a	n/a	9.62	20	21.8	0	n/a

GUTTER CAPACITY CHART	
STREET SLOPE (%)	CAPACITY (cfs)
0.70	13.8
0.80	14.7
1.00	16.4
1.25	18.4
1.50	20.1
2.00	23.2

RECORD DRAWING

TO THE BEST OF OUR KNOWLEDGE, MACATEE ENGINEERING LLC, HEREBY STATES THAT THIS PLAN IS AN ACCURATE RECORD DRAWING. THIS INFORMATION PROVIDED IS BASED ON SURVEYING AT THE SITE AND INFORMATION PROVIDED BY THE CONTRACTOR.

Dayton C. Macatee, P.E. — Date 04/09/2020
12655 N. Central Expwy, Suite 420, Dallas, Texas 75243

ALL RESPONSIBILITY FOR ADEQUACY OF DESIGN REMAINS WITH THE DESIGN ENGINEER. THE CITY OF ROCKWALL, IN REVIEWING AND RELEASING PLANS FOR CONSTRUCTION, ASSUMES NO RESPONSIBILITY FOR ADEQUACY OR ACCURACY OF DESIGN

STATE OF TEXAS — DAYTON C. MACATEE — 65028 — REGISTERED PROFESSIONAL ENGINEER

Dayton C Macatee 06/05/18

DAYTON MACATEE ENGINEERING, LLC
TX. REG. NO. F-456

DRAINAGE CALCULATIONS

GIDEON GROVE – NORTH

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

MACATEE ENGINEERING
DAYTON MACATEE ENGINEERING, LLC
(Tex. Reg. No. F-456)
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DESIGNED	CHECKED	DATE	DWG FILE	PROJECT #	SHEET NO.
PJF	DCM	06/05/2018	GG_G&D	SKR_GG	15 OF 29

PIPE HYDRAULICS CALCULATIONS

STORM LINE B

Stations U/S	Stations D/S	Length (ft)	Pipe Size (in)	Type	Area (ft^2)	Wetted Perimeter Pw	Hydraulic Radius	Manning's n	Area (Ac)	Runoff Coeff C	Incre-mental C*A	Accum-ulated C*A	U/S Tc (min)	Design Storm Freq (yr)	Intensity I	Runoff Q (cfs)	Velocity V (fps)	Time in Conduit	Friction Slope S_f	Friction Headloss (ft)	HGL U/S	HGL D/S	Headloss Calculations $V_1^2/2g$	Headloss Calculations $V_2^2/2g$	Jct Type	Coeff K_j	Headloss H_L	Design HGL	Top of Curb Elev.	HGL Depth Below T/C (ft)
1111	956	155.00	18.00	RCP	1.77	4.71	0.38	0.013	1.94	0.50	0.97	0.97	10.00	100	9.80	9.5	5.38	0.48	0.0081	1.26	547.19	545.93		0.45	Drop Inlet 1	1.25	0.56	547.75	549.90	2.15
956	949	7.00	18.00	RCP	1.77	4.71	0.38	0.013	0.00	0.50	0.00	0.97	10.48	100	9.72	9.4	5.34	0.02	0.0080	0.06	545.76	545.71	0.45	0.44	45 Deg Bend	0.37	0.16	545.93	548.00	2.07
949	770	179.00	18.00	RCP	1.77	4.71	0.38	0.013	0.00	0.50	0.00	0.97	10.50	100	9.72	9.4	5.34	0.56	0.0080	1.43	545.54	544.11	0.44	0.44	45 Deg Bend	0.37	0.16	545.71	547.90	2.19
770	767	3.00	30.00	RCP	4.91	7.85	0.63	0.013	0.00	0.50	0.00	0.97	11.06	100	9.63	9.3	1.90	0.03	0.0005	0.00	543.83	543.82	0.44	0.06	Expansion		0.28	544.11	546.30	2.19
767	763	4.00	30.00	RCP	4.91	7.85	0.63	0.013	2.00	0.50	1.00	1.97	11.09	100	9.63	19.0	3.86	0.02	0.0021	0.01	543.62	543.61	0.06	0.23	45 Deg Wye	0.50	0.20	543.82	546.30	2.48
763	732	31.00	30.00	RCP	4.91	7.85	0.63	0.013	0.67	0.50	0.34	2.31	11.10	100	9.62	22.2	4.52	0.11	0.0029	0.09	543.41	543.32	0.23	0.32	45 Deg Wye	0.50	0.20	543.61	546.30	2.69
732	432	300.00	30.00	RCP	4.91	7.85	0.63	0.013	1.48	0.50	0.74	3.05	11.22	100	9.60	29.2	5.96	0.84	0.0051	1.52	543.02	541.50	0.32	0.55	MH	0.55	0.30	543.32	546.57	3.25
432	132	300.00	36.00	RCP	7.07	9.42	0.75	0.013	2.30	0.50	1.15	4.20	12.06	100	9.47	39.7	5.62	0.89	0.0035	1.06	541.15	540.09	0.55	0.49	MH	0.25	0.35	541.50	544.65	3.15
132	59	73.00	36.00	RCP	7.07	9.42	0.75	0.013	0.00	0.50	0.00	4.20	12.95	100	9.33	39.1	5.54	0.22	0.0034	0.25	539.83	539.58	0.49	0.48	MH	0.55	0.26	540.09	542.55	2.46
59	51	8.00	36.00	RCP	7.07	9.42	0.75	0.013	0.00	0.50	0.00	4.20	13.17	100	9.29	39.0	5.52	0.02	0.0034	0.03	539.40	539.37	0.48	0.47	45 Deg Bend	0.37	0.17	539.58	542.20	2.62
51	40	11.00	36.00	RCP	7.07	9.42	0.75	0.013	0.00	0.50	0.00	4.20	13.19	100	9.29	39.0	5.51	0.03	0.0034	0.04	539.20	539.16	0.47	0.47	45 Deg Bend	0.37	0.17	539.37	542.20	2.83
40	0	40.00	39.00	RCP	8.30	10.21	0.81	0.013	3.59	0.50	1.80	5.99	13.23	100	9.28	55.6	6.70	0.10	0.0045	0.18	538.70	538.52	0.47	0.70	45 Deg Wye	0.50	0.46	539.16	542.00	2.84

STORM LAT B-1

Stations U/S	Stations D/S	Length (ft)	Pipe Size (in)	Type	Area (ft^2)	Wetted Perimeter Pw	Hydraulic Radius	Manning's n	Area (Ac)	Runoff Coeff C	Incre-mental C*A	Accum-ulated C*A	U/S Tc (min)	Design Storm Freq (yr)	Intensity I	Runoff Q (cfs)	Velocity V (fps)	Time in Conduit	Friction Slope S_f	Friction Headloss (ft)	HGL U/S	HGL D/S	Headloss Calculations $V_1^2/2g$	Headloss Calculations $V_2^2/2g$	Jct Type	Coeff K_j	Headloss H_L	Design HGL	Top of Curb Elev.	HGL Depth Below T/C (ft)
45	8	37.00	24.00	RCP	3.14	6.28	0.50	0.013	2.24	0.50	1.12	1.12	10.00	100	9.80	11.0	3.49	0.18	0.0023	0.09	539.68	539.60		0.19	Inlet CI-9	1.25	0.24	539.92	541.96	2.04
8	0	8.00	24.00	RCP	3.14	6.28	0.50	0.013	1.35	0.50	0.68	1.80	10.18	100	9.77	17.5	5.58	0.02	0.0060	0.05	539.21	539.16	0.19	0.48	45 Deg Wye	0.50	0.39	539.60	541.96	2.36

STORM LAT B-1-1

Stations U/S	Stations D/S	Length (ft)	Pipe Size (in)	Type	Area (ft^2)	Wetted Perimeter Pw	Hydraulic Radius	Manning's n	Area (Ac)	Runoff Coeff C	Incre-mental C*A	Accum-ulated C*A	U/S Tc (min)	Design Storm Freq (yr)	Intensity I	Runoff Q (cfs)	Velocity V (fps)	Time in Conduit	Friction Slope S_f	Friction Headloss (ft)	HGL U/S	HGL D/S	Headloss Calculations $V_1^2/2g$	Headloss Calculations $V_2^2/2g$	Jct Type	Coeff K_j	Headloss H_L	Design HGL	Top of Curb Elev.	HGL Depth Below T/C (ft)
28	21	7.00	21.00	RCP	2.41	5.50	0.44	0.013	1.37	0.50	0.69	0.69	10.00	100	9.80	6.7	2.79	0.04	0.0018	0.01	539.69	539.68		0.12	Inlet CI-10	1.25	0.15	539.85	542.00	2.15
21	0	21.00	21.00	RCP	2.41	5.50	0.44	0.013	0.00	0.50	0.00	0.69	10.04	100	9.79	6.7	2.79	0.13	0.0018	0.04	539.64	539.60	0.12	0.12	45 Deg Bend	0.37	0.04	539.68	542.00	2.32

STORM LAT B-2

Stations U/S	Stations D/S	Length (ft)	Pipe Size (in)	Type	Area (ft^2)	Wetted Perimeter Pw	Hydraulic Radius	Manning's n	Area (Ac)	Runoff Coeff C	Incre-mental C*A	Accum-ulated C*A	U/S Tc (min)	Design Storm Freq (yr)	Intensity I	Runoff Q (cfs)	Velocity V (fps)	Time in Conduit	Friction Slope S_f	Friction Headloss (ft)	HGL U/S	HGL D/S	Headloss Calculations $V_1^2/2g$	Headloss Calculations $V_2^2/2g$	Jct Type	Coeff K_j	Headloss H_L	Design HGL	Top of Curb Elev.	HGL Depth Below T/C (ft)
17	0	17.00	21.00	RCP	2.41	5.50	0.44	0.013	2.30	0.50	1.15	1.15	10.00	100	9.80	11.3	4.69	0.06	0.0050	0.09	541.59	541.50		0.34	Inlet CI-12	1.25	0.43	542.01	544.63	2.62

STORM LAT B-3

Stations U/S	Stations D/S	Length (ft)	Pipe Size (in)	Type	Area (ft^2)	Wetted Perimeter Pw	Hydraulic Radius	Manning's n	Area (Ac)	Runoff Coeff C	Incre-mental C*A	Accum-ulated C*A	U/S Tc (min)	Design Storm Freq (yr)	Intensity I	Runoff Q (cfs)	Velocity V (fps)	Time in Conduit	Friction Slope S_f	Friction Headloss (ft)	HGL U/S	HGL D/S	Headloss Calculations $V_1^2/2g$	Headloss Calculations $V_2^2/2g$	Jct Type	Coeff K_j	Headloss H_L	Design HGL	Top of Curb Elev.	HGL Depth Below T/C (ft)
22	0	22.00	21.00	RCP	2.41	5.50	0.44	0.013	0.67	0.50	0.34	0.34	10.00	100	9.80	3.3	1.36	0.27	0.0004	0.01	543.62	543.61		0.03	Inlet CI-14	1.25	0.04	543.66	546.29	2.63

STORM LAT B-4

Stations U/S	Stations D/S	Length (ft)	Pipe Size (in)	Type	Area (ft^2)	Wetted Perimeter Pw	Hydraulic Radius	Manning's n	Area (Ac)	Runoff Coeff C	Incre-mental C*A	Accum-ulated C*A	U/S Tc (min)	Design Storm Freq (yr)	Intensity I	Runoff Q (cfs)	Velocity V (fps)	Time in Conduit	Friction Slope S_f	Friction Headloss (ft)	HGL U/S	HGL D/S	Headloss Calculations $V_1^2/2g$	Headloss Calculations $V_2^2/2g$	Jct Type	Coeff K_j	Headloss H_L	Design HGL	Top of Curb Elev.	HGL Depth Below T/C (ft)
22	0	22.00	21.00	RCP	2.41	5.50	0.44	0.013	2.00	0.50	1.00	1.00	10.00	100	9.80	9.8	4.07	0.09	0.0038	0.08	543.91	543.83		0.26	Inlet CI-13	1.25	0.32	544.24	546.29	2.05

STORM LAT B-5

Stations U/S	Stations D/S	Length (ft)	Pipe Size (in)	Type	Area (ft^2)	Wetted Perimeter Pw	Hydraulic Radius	Manning's n	Area (Ac)	Runoff Coeff C	Incre-mental C*A	Accum-ulated C*A	U/S Tc (min)	Design Storm Freq (yr)	Intensity I	Runoff Q (cfs)	Velocity V (fps)	Time in Conduit	Friction Slope S_f	Friction Headloss (ft)	HGL U/S	HGL D/S	Headloss Calculations $V_1^2/2g$	Headloss Calculations $V_2^2/2g$	Jct Type	Coeff K_j	Headloss H_L	Design HGL	Top of Curb Elev.	HGL Depth Below T/C (ft)
31	0	31.00	18.00	RCP	1.77	4.71	0.38	0.013	1.48	0.50	0.74	0.74	10.00	100	9.80	7.3	4.10	0.13	0.0047	0.15	543.47	543.32		0.26	Inlet CI-15	1.25	0.33	543.79	546.86	3.07

RECORD DRAWING

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Dayton C. Macatee 04/09/2020

Dayton C. Macatee, P.E. Date
12655 N. Central Expwy, Suite 420, Dallas, Texas 75243

STATE OF TEXAS
DAYTON C. MACATEE
65028
REGISTERED
PROFESSIONAL ENGINEER

Dayton C Macatee 06/05/18

DAYTON MACATEE ENGINEERING, LLC
TX. REG. NO. F-456

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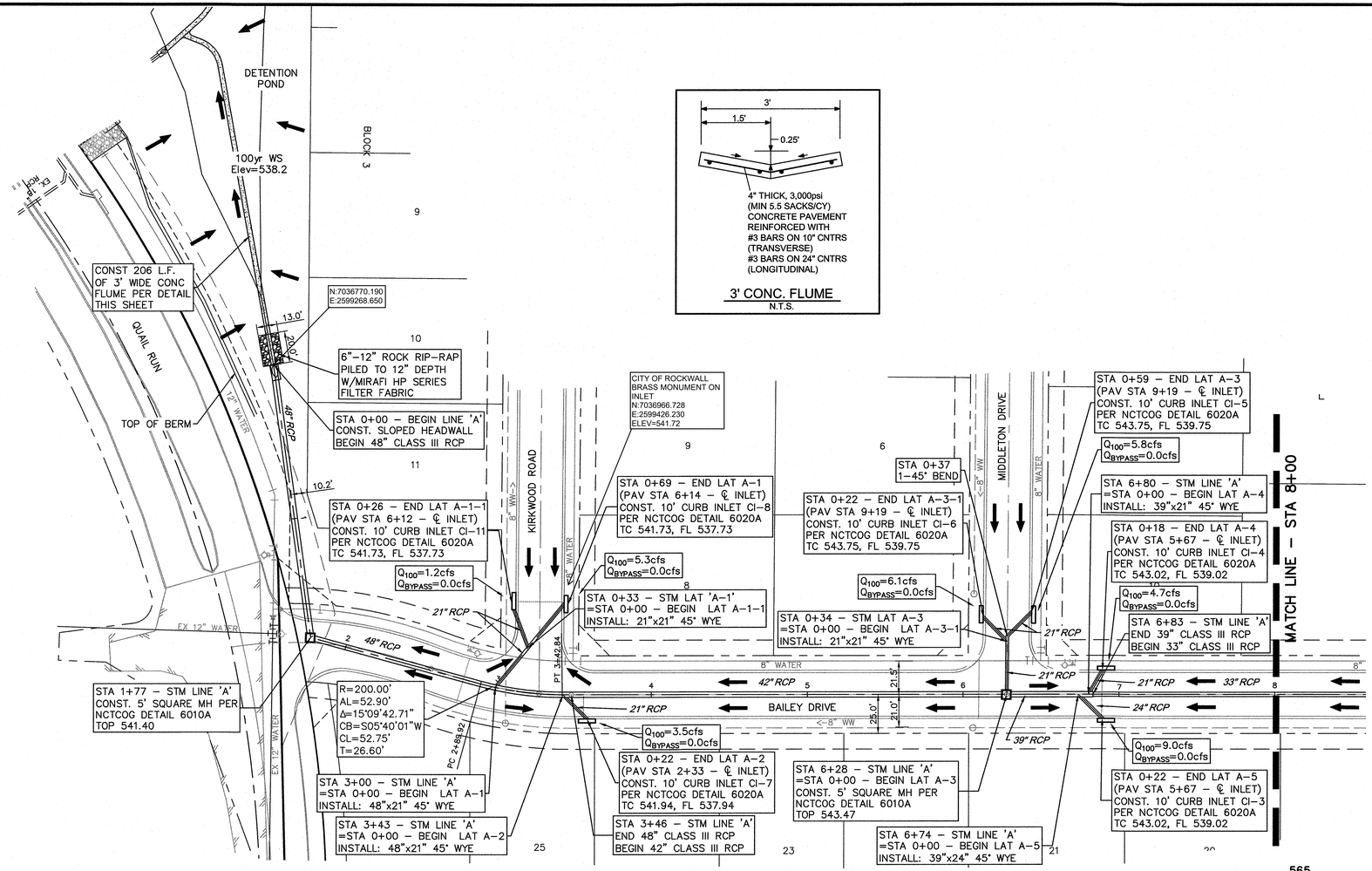
DRAINAGE CALCULATIONS

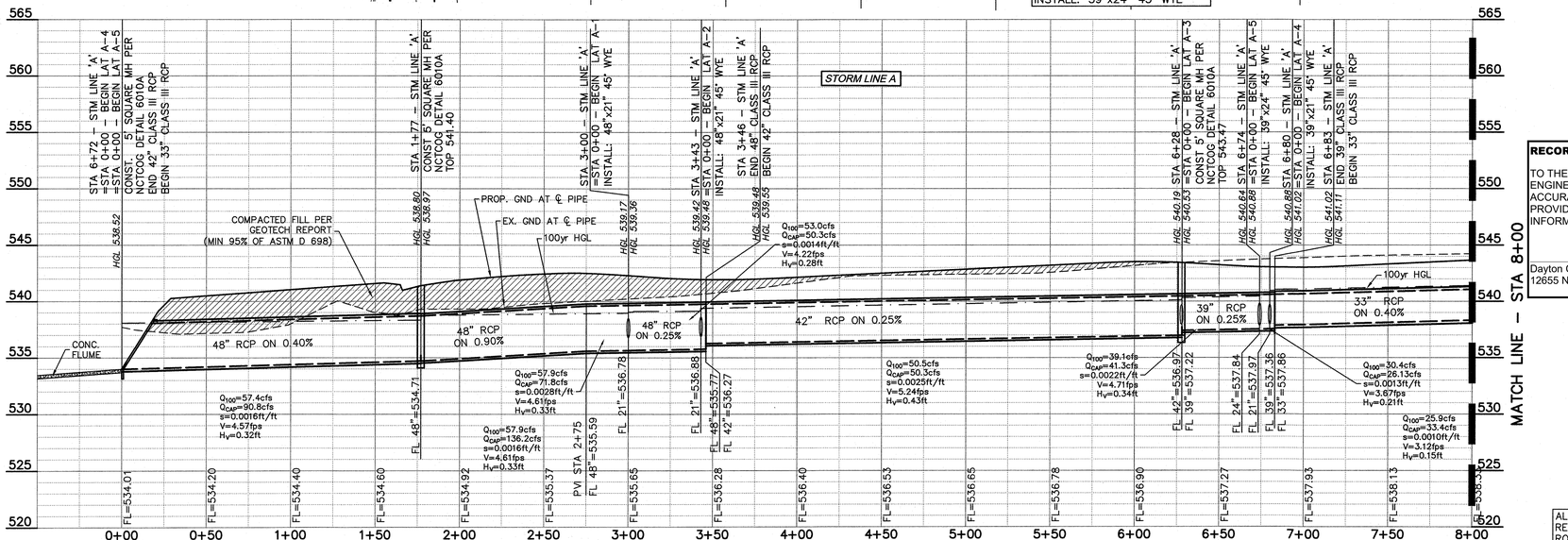
GIDEON GROVE – NORTH

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

MACATEE ENGINEERING
DAYTON MACATEE ENGINEERING, LLC
(Tex. Reg. No. F-456)
3519 MILES STREET
DALLAS, TEXAS 75209
TEL 214-373-1180 * FAX 214-373-6580
E-MAIL: daytonm@macatee-engineering.com

DESIGNED	CHECKED	DATE	DWG FILE	PROJECT #	SHEET NO.
PJF	DCM	06/05/2018	GG_G&D	SKR_GG	16 OF 29





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ALL STORM PIPE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED

SEE PAVING SHEETS 4 & 5 FOR DETAILS OF CONCRETE FLUME BEHIND LOTS 1-17, BLOCK 1

LEGEND	
→	DIRECTION OF FLOW
TC	TOP OF CURB
FL	FLOW LINE
℄	CENTERLINE

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REV.	BY	DATE	DESCRIPTION

BENCHMARKS

CITY OF ROCKWALL MONUMENT "COR-5"
ALUMINUM DISK STAMPED "CITY OF ROCKWALL SURVEY MONUMENT" +/-866' EAST OF INTERSECTION OF WILLIAMS STREET AND CARUTH LANE, AND 50' SOUTH OF CL OF WILLIAMS STREET. N: 7029731.124, E: 2598589.314, ELEV=529.10

CITY OF ROCKWALL MONUMENT "COR-6"
ALUMINUM DISK STAMPED "CITY OF ROCKWALL SURVEY MONUMENT" ON NORTH SIDE OF DALTON ROAD +/-210' WEST OF INTERSECTION OF SH 205 AND DALTON ROAD, AND 10' NORTH OF CURB LINE. N: 7040336.992, E: 2592422.633, ELEV=541.67

STORM SEWER PLAN & PROFILE

GIDEON GROVE - NORTH

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

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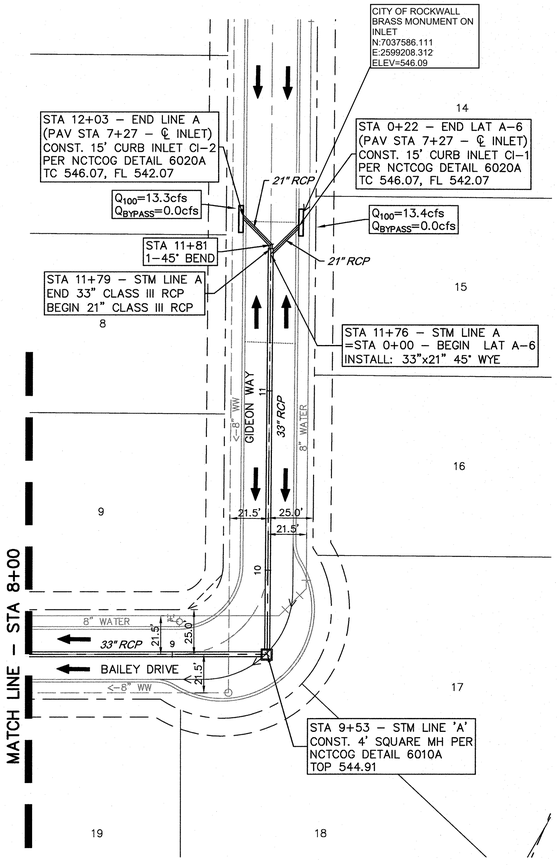

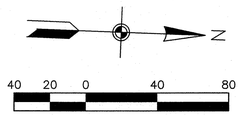

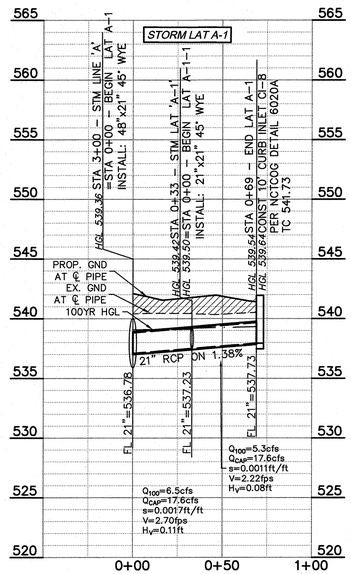

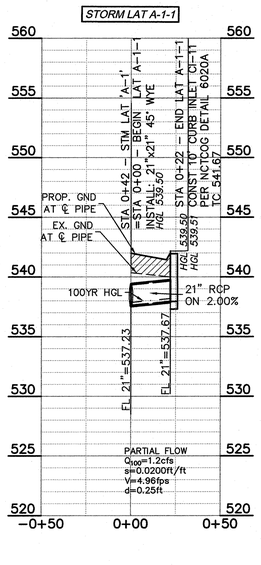

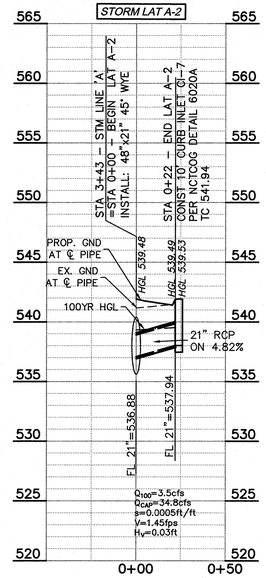

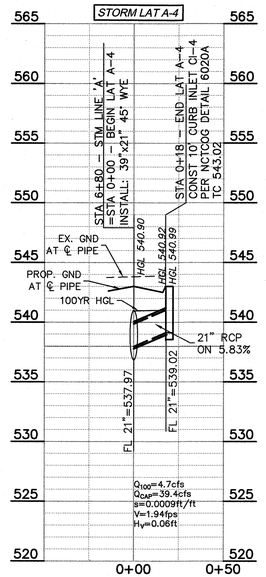

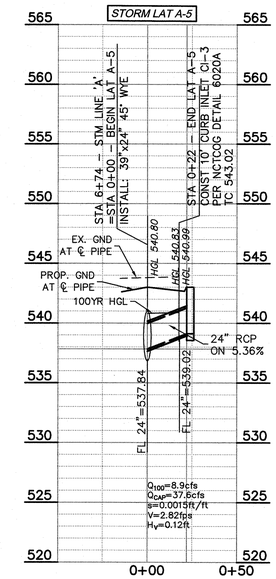

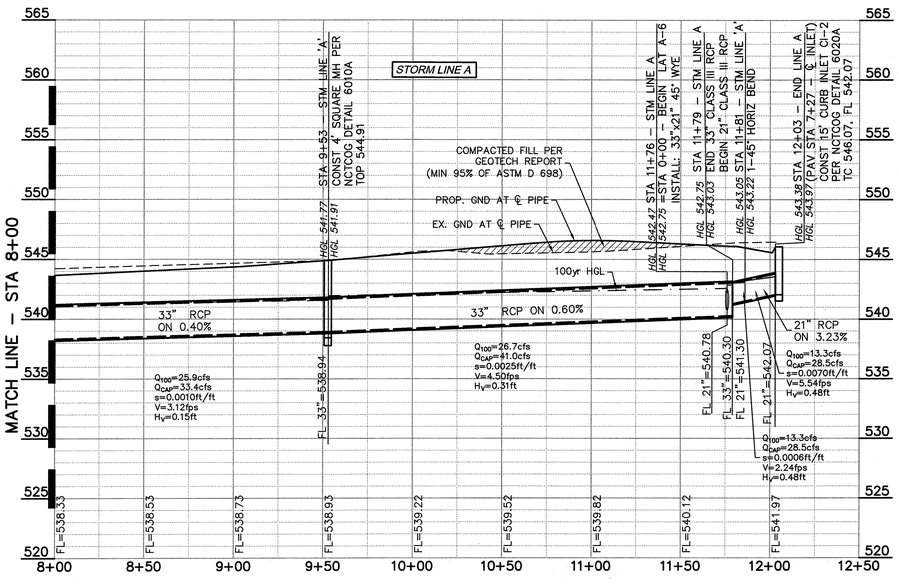

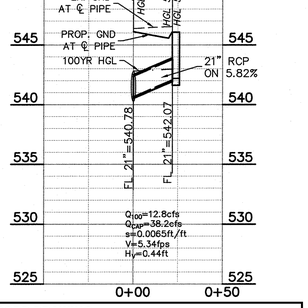

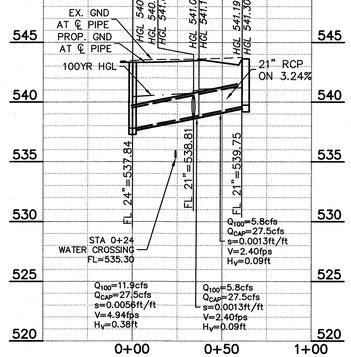

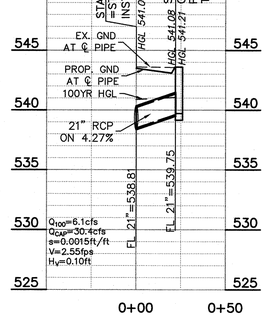

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Dayton C. Macatee 04/09/2020

Dayton C. Macatee, P.E. Date
12655 N. Central Expwy, Suite 420, Dallas, Texas 75243

SEE PAVING SHEETS 4 & 5 FOR DETAILS OF CONCRETE FLUME BEHIND LOTS 1–17, BLOCK 1

LEGEND	
➡	DIRECTION OF FLOW
TC	TOP OF CURB
FL	FLOW LINE
℄	CENTERLINE

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Dayton C. Macatee 06/05/18
DAYTON MACATEE ENGINEERING, LLC
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REV.	BY	DATE	DESCRIPTION

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CITY OF ROCKWALL MONUMENT "COR–2"
ALUMINUM DISK STAMPED "CITY OF ROCKWALL SURVEY MONUMENT" +/–866' EAST OF INTERSECTION OF WILLIAMS STREET AND CARUTH LANE, AND 50' SOUTH OF CL OF WILLIAMS STREET. N: 7029731.124, E: 2598589.314, ELEV=529.10

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STORM SEWER PLAN & PROFILE

GIDEON GROVE – NORTH

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

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DAYTON MACATEE ENGINEERING, LLC
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3519 MILES STREET
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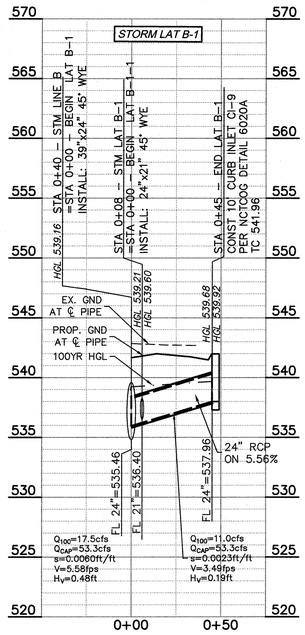
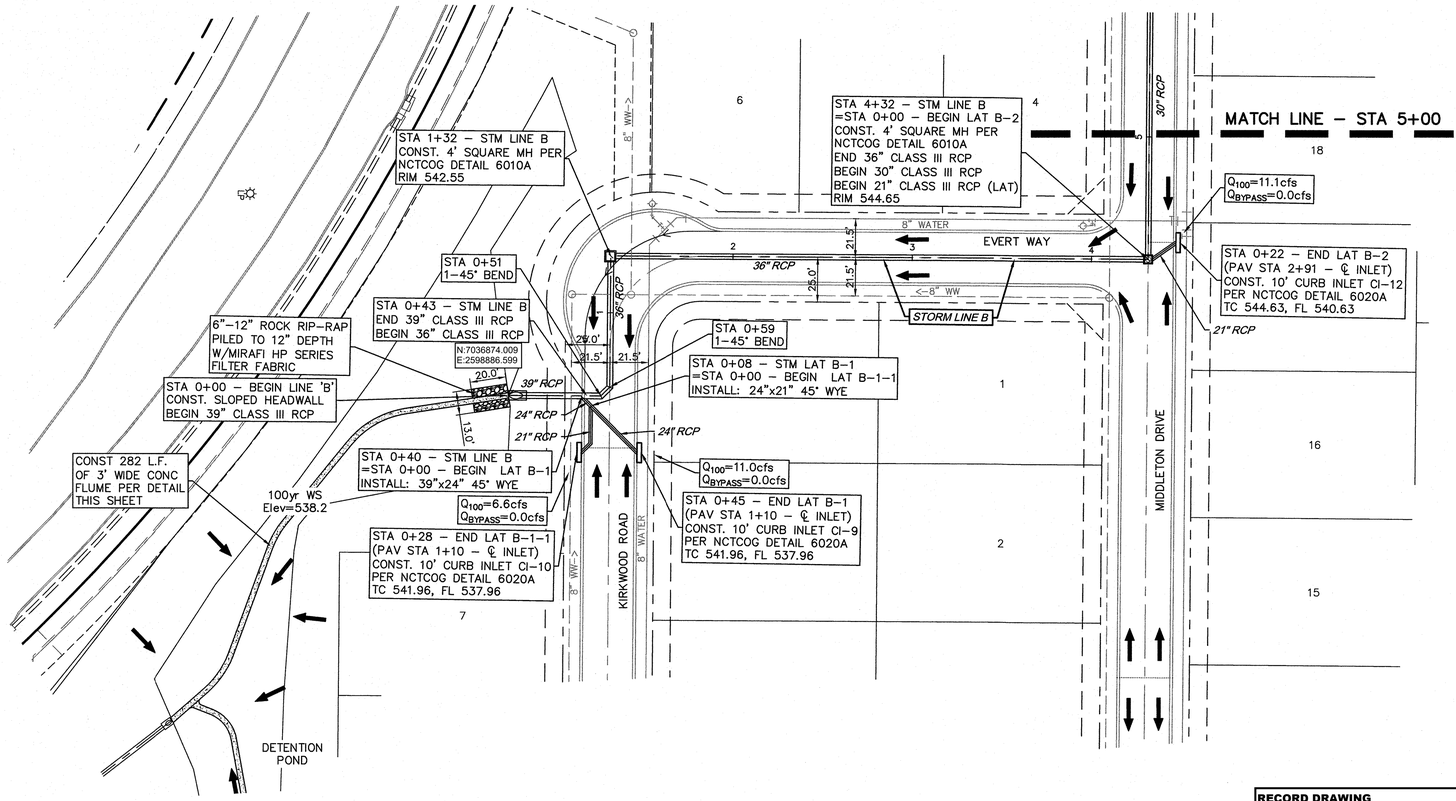
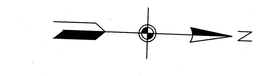
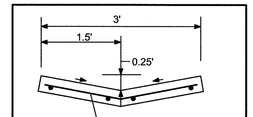
E–MAIL: daytonm@macatee–engineering.com

DESIGNED	CHECKED	DATE	DWG FILE	PROJECT #	SHEET NO.
PJF	DCM	06/05/2018	GG_STM	SKR_GG	18 OF 29









3' CONC. FLUME
N.T.S.

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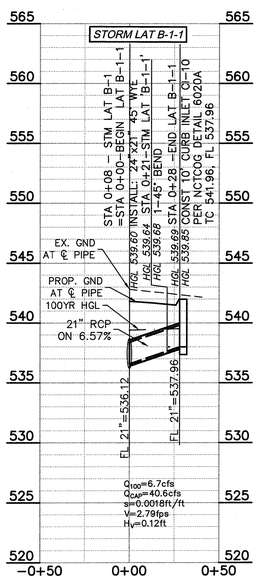

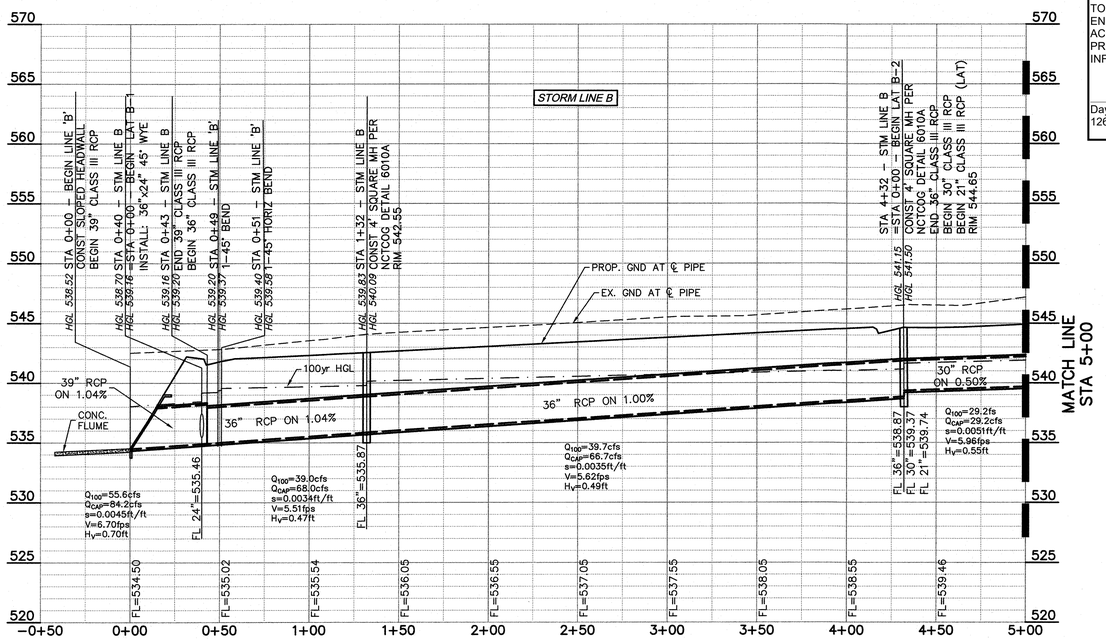

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Dayton C. Macatee, P.E. — Date
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STORM SEWER PLAN & PROFILE

GIDEON GROVE – NORTH

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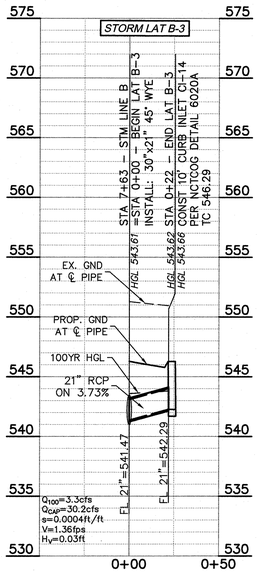
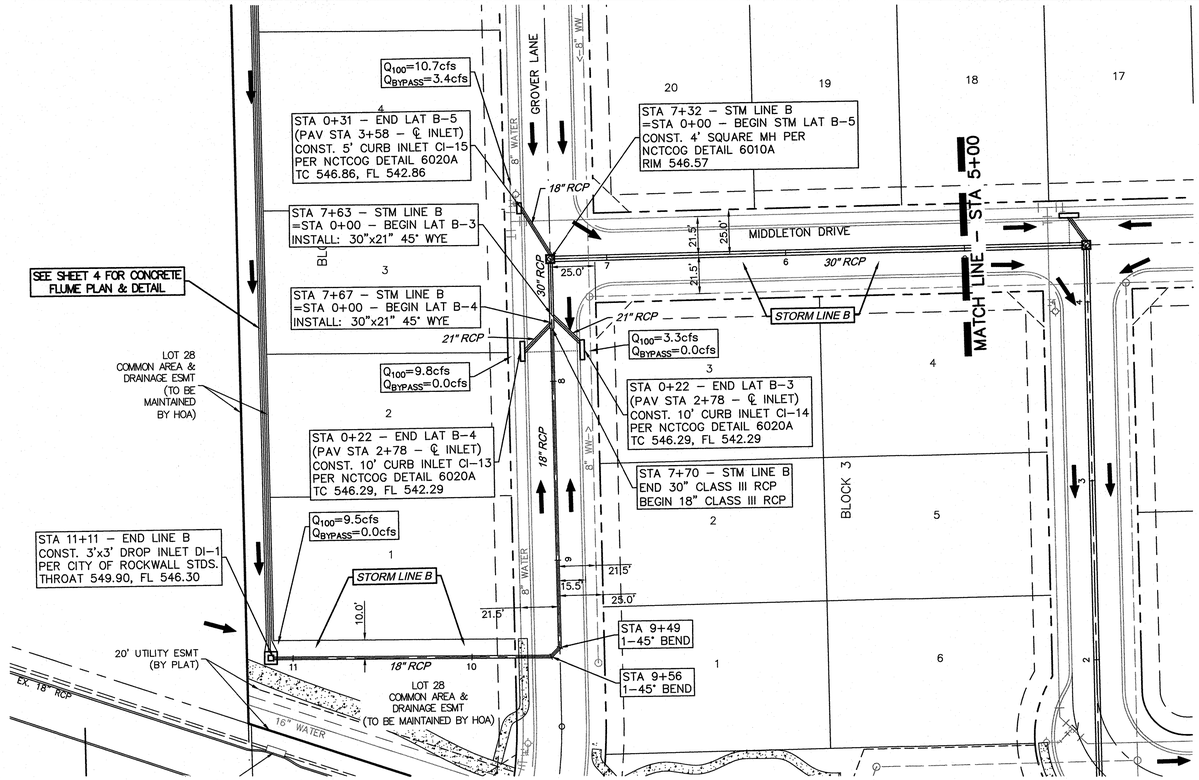
DESIGNED	CHECKED	DATE	DWG FILE	PROJECT #	SHEET NO.
PJF	DCM	06/05/2018	GG_STM	SKR_GG	19 OF 29





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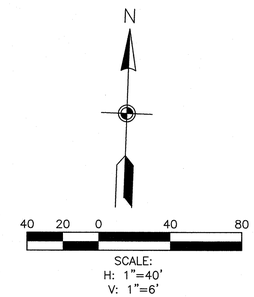

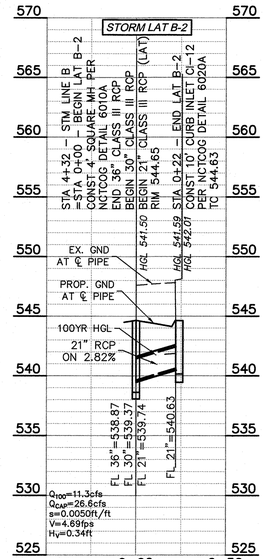

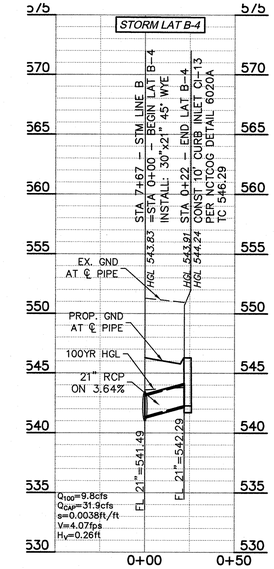

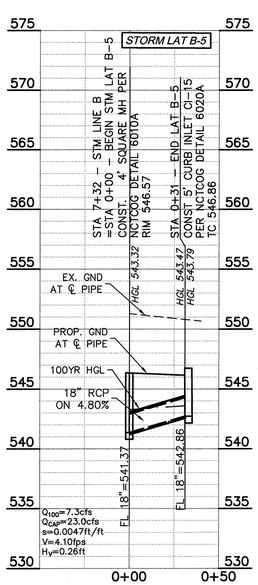

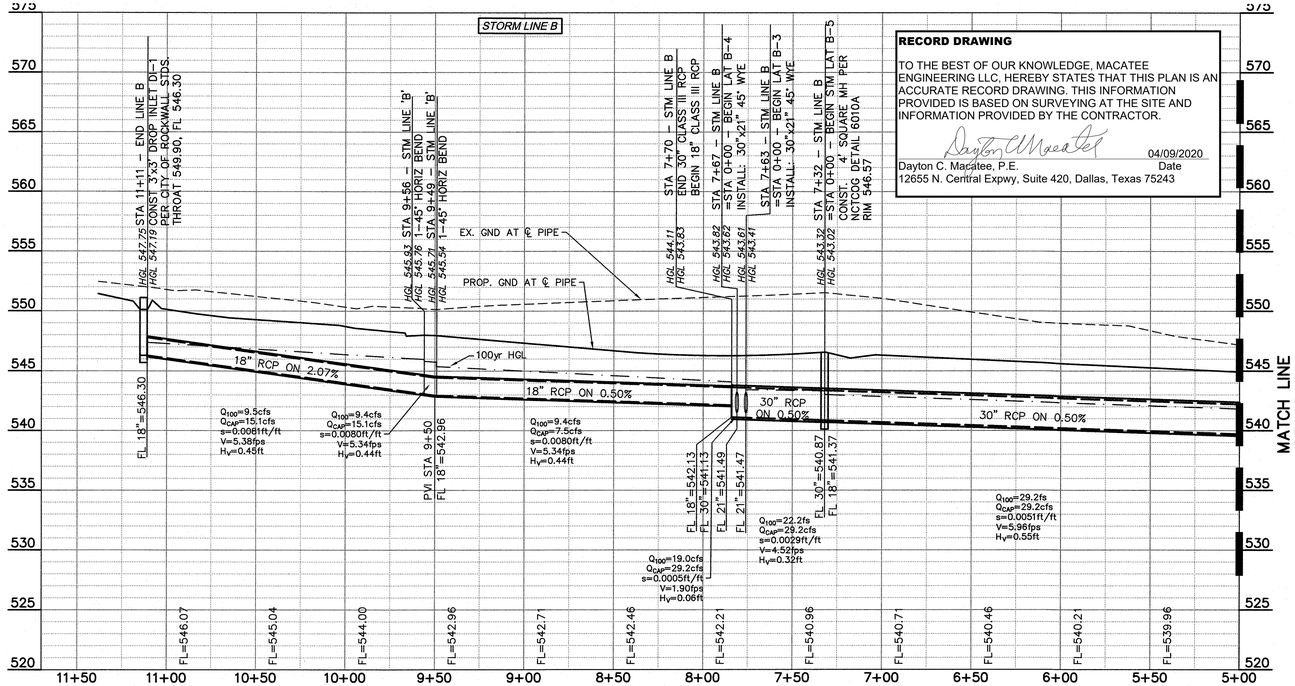

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Dayton C. Macatee, P.E. — 04/09/2020 (Date)
12655 N. Central Expwy, Suite 420, Dallas, Texas 75243

ALL STORM PIPE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED

SEE PAVING SHEETS 4 & 5 FOR DETAILS OF CONCRETE FLUME BEHIND LOTS 1–17, BLOCK 1

SEE THE CITY OF ROCKWALL STANDARDS OF DESIGN AND CONSTRUCTION, DATED OCTOBER 2016 FOR MODIFICATIONS TO NCTCOG DETAILS.

REV.	BY	DATE	DESCRIPTION

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STORM SEWER PLAN & PROFILE

GIDEON GROVE – NORTH

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

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STATE OF TEXAS — DAYTON C. MACATEE — 85028 — REGISTERED PROFESSIONAL ENGINEER

06/05/18

DAYTON MACATEE ENGINEERING, LLC TX. REG. NO. F–456

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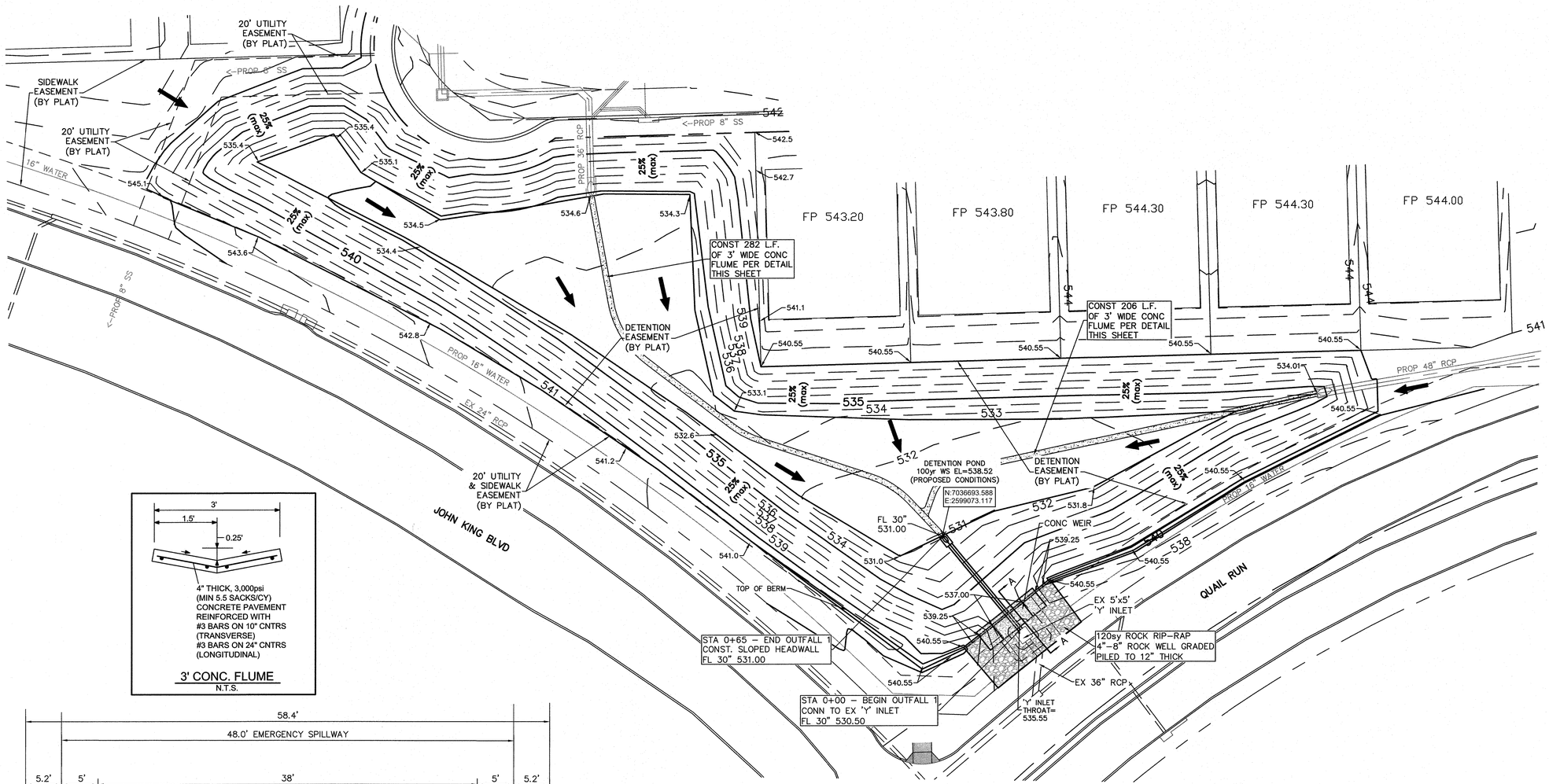
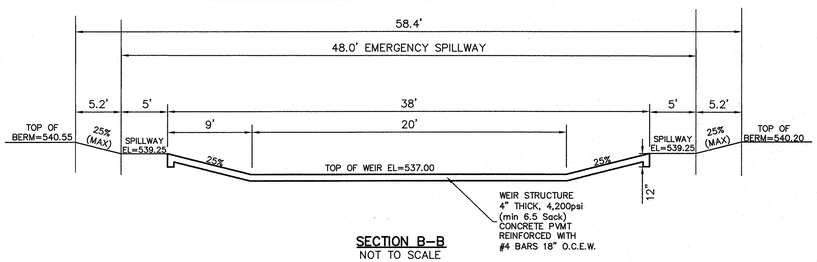
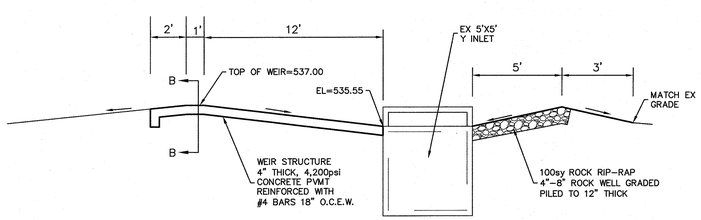
PJF	DCM	06/05/2018	GG_STM	SKR_GG	20 OF 29



3' CONC. FLUME
N.T.S.



SECTION B–B
NOT TO SCALE



SECTION A–A
NOT TO SCALE

SEE "DETENTION STUDY FOR GIDEON GROVE" PREPARED BY CARDINAL STRATEGIES, DATED MAY 16, 2018 FOR A DETAILED ANALYSIS OF DETENTION VOLUMES AND OUTFALL STRUCTURE.

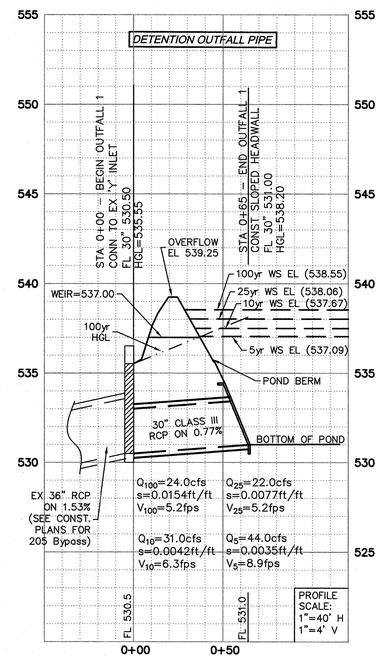
LEGEND	
➡	DIRECTION OF FLOW
TP	TOP OF PAVEMENT
TW	TOP OF WALL
BW	BOTTOM OF WALL
EL	ELEVATION
FL	FLOW LINE

Proposed Conditions			Discharge			
			Primary 30" Pipe	Secondary Outlet	Emergency Spillway	
Storm Event	Pond WSEL (ft)	Pond Volume (ac-ft)	Orifice (cfs)	Weir at Elevation 537.00 (cfs)	Weir at Elevation 539.25 (cfs)	Total (cfs)
100-YR	538.52	5.1	24	138	0	162
25-YR	538.06	4.6	22	78	0	100
10-YR	537.67	4.1	31	37	0	68
5-YR	537.09	3.5	44	2	0	46

*These values are from the Detention Study by Cardinal Strategies in May 2018. For additional information, please reference this report

N

30 15 0 30 60
SCALE: 1" = 30'



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DETENTION OUTFALL DETAILS

GIDEON GROVE – NORTH

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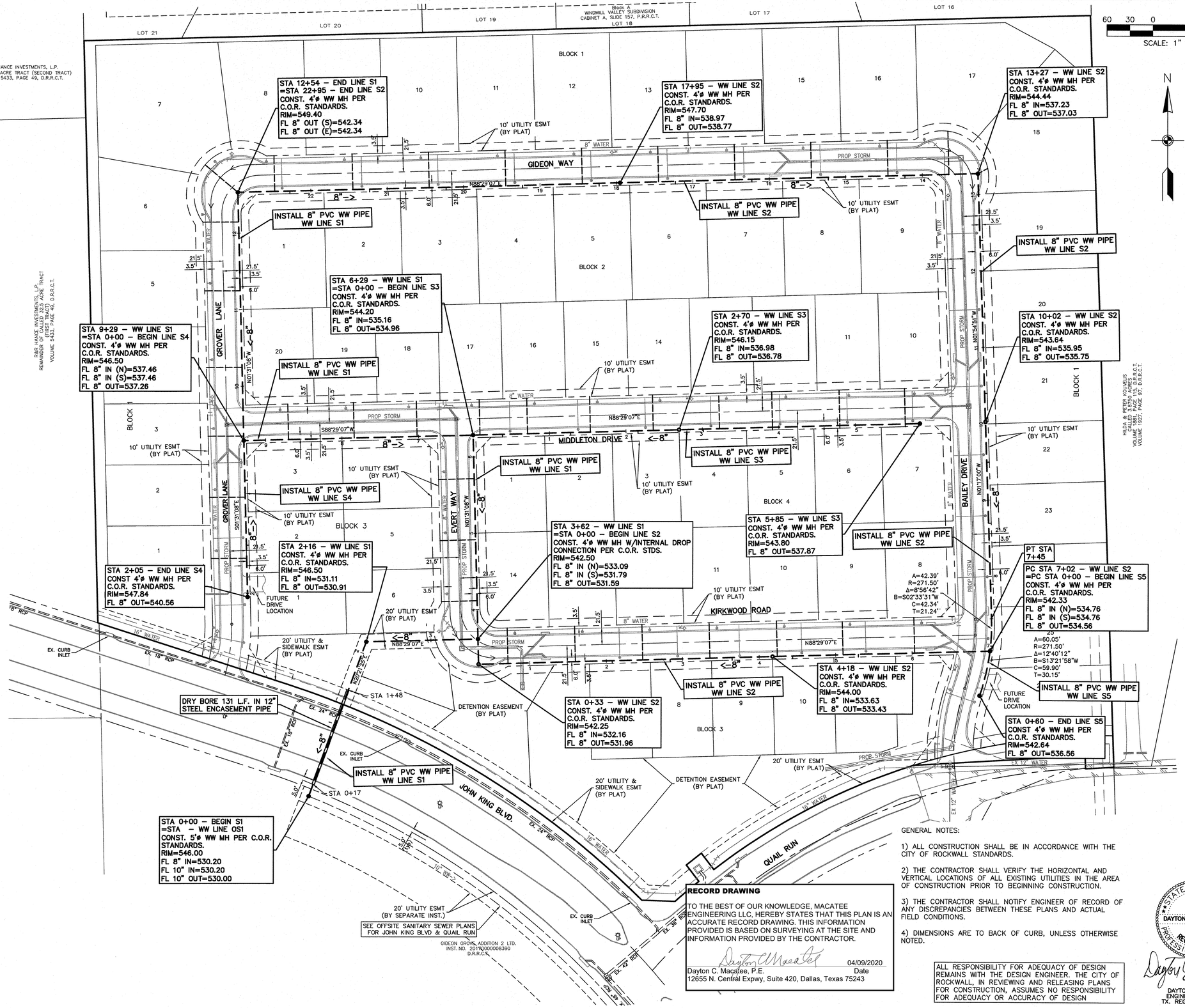

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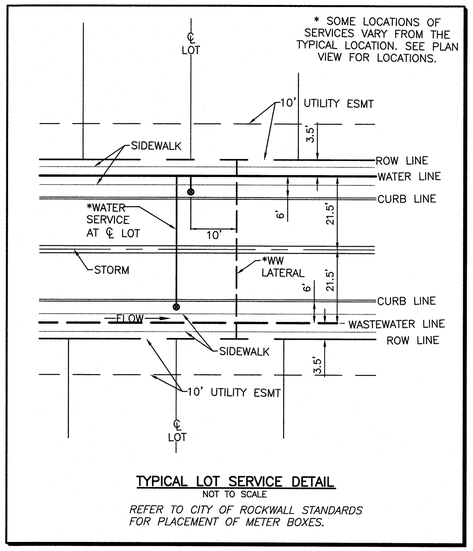

TYPICAL LOT SERVICE DETAIL
NOT TO SCALE
REFER TO CITY OF ROCKWALL STANDARDS FOR PLACEMENT OF METER BOXES.

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WASTEWATER PLAN

GIDEON GROVE – NORTH

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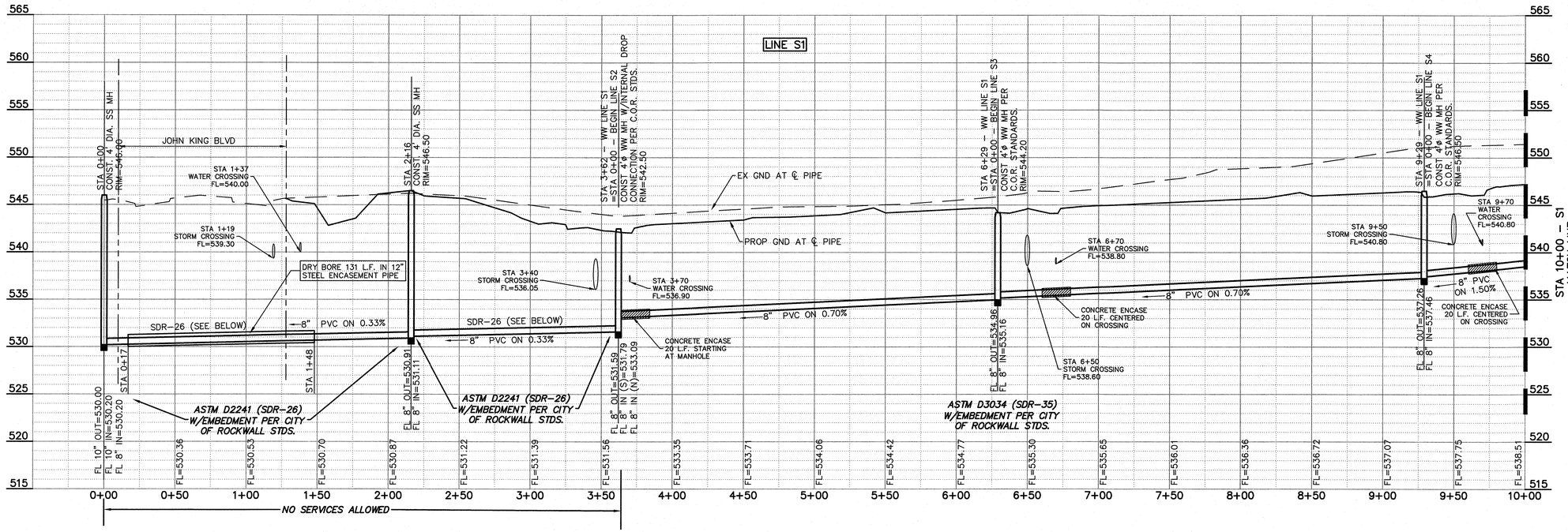

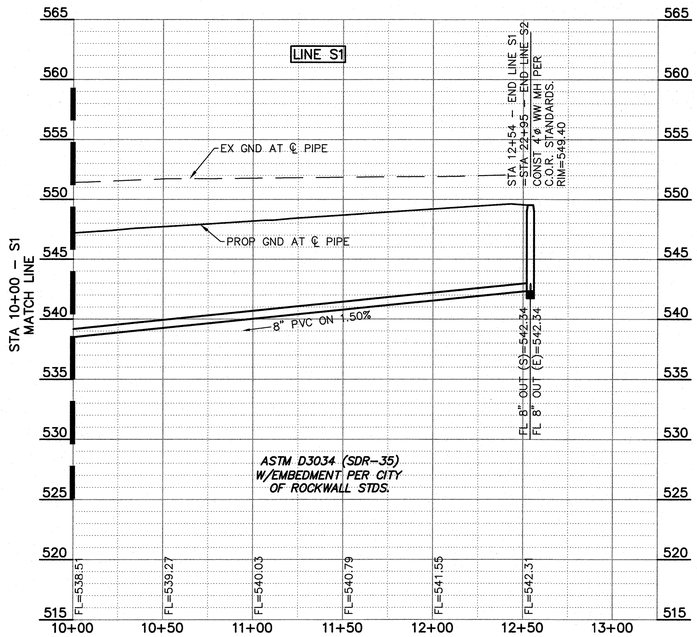

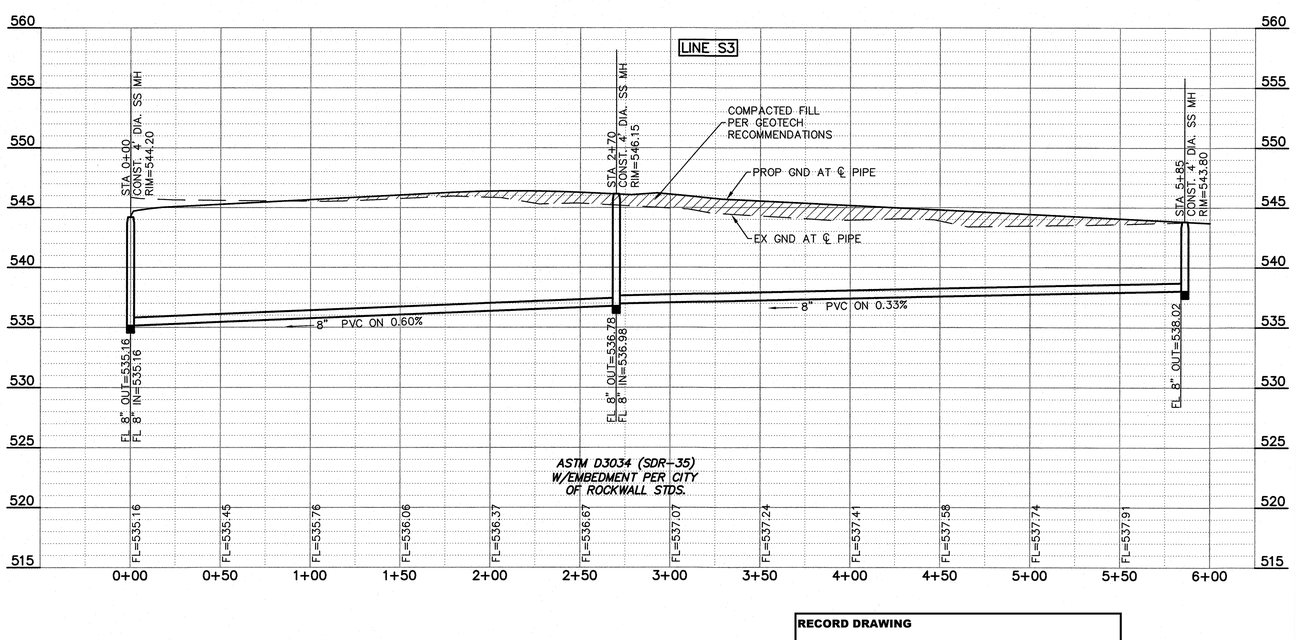

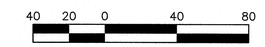

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Dayton C Macatee 04/09/2020

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WASTEWATER PROFILE

GIDEON GROVE – NORTH

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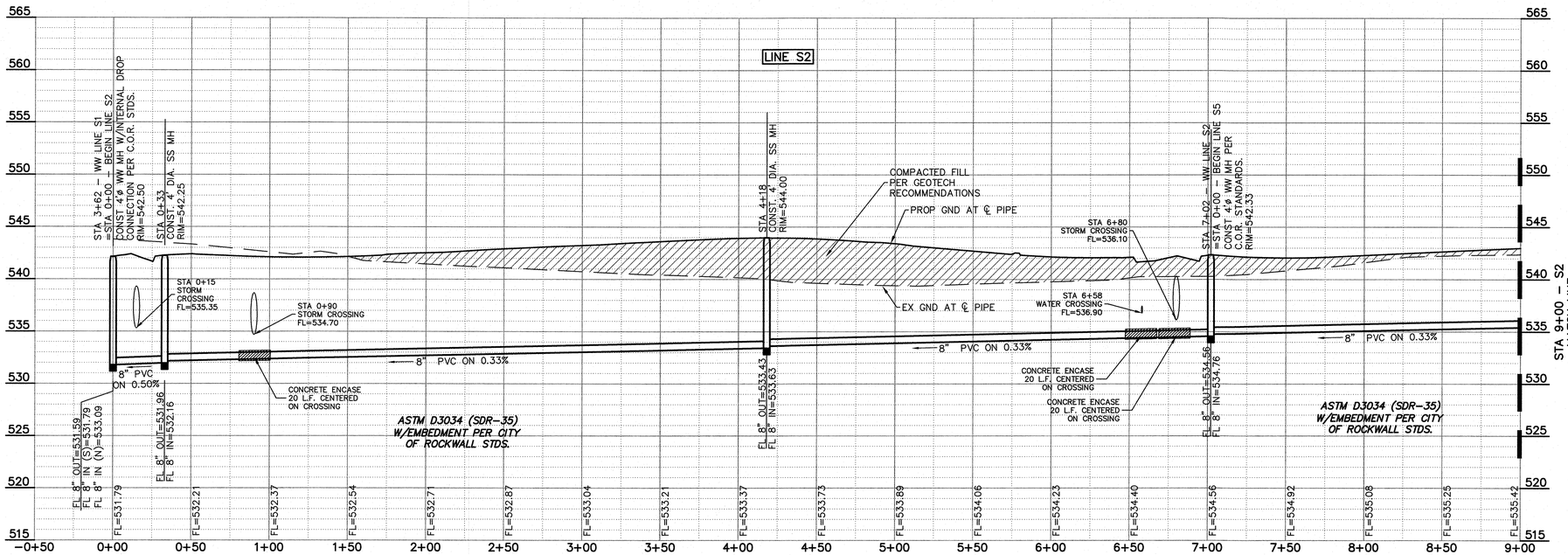

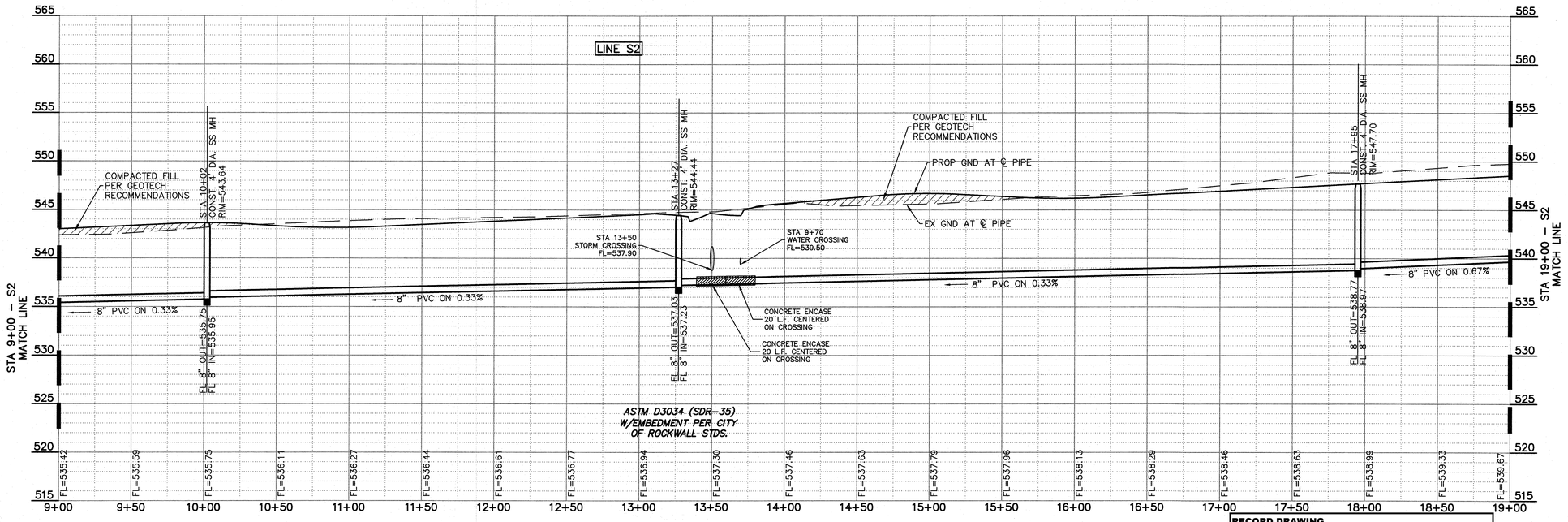

40 20 0 40 80

SCALE:
HORIZ: 1"=40'
VERT: 1"=6'

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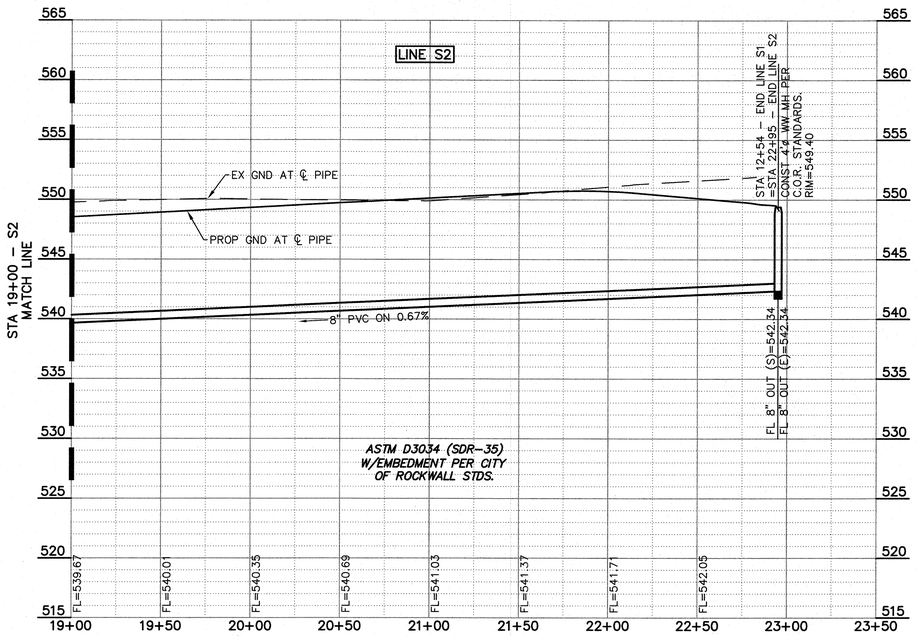

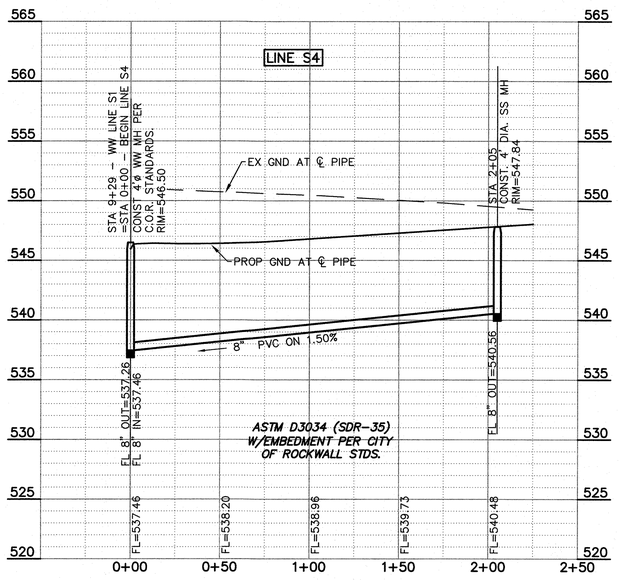

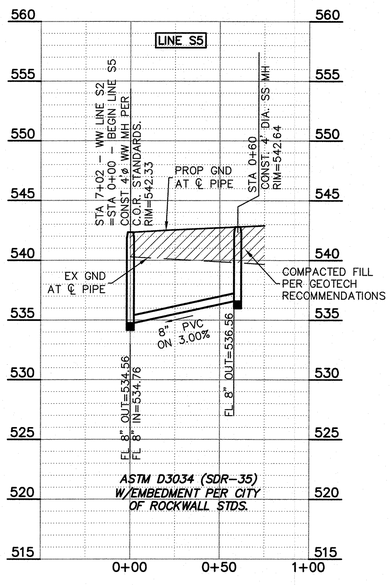

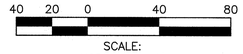

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WASTEWATER NOTES:

1. WITHIN THIS PLAN SET THE TERM "CITY OF ROCKWALL STANDARDS" IS MEANT TO INCLUDE THE CITY OF ROCKWALL STANDARDS OF DESIGN AND CONSTRUCTION MANUAL, DATED OCTOBER 2016 AND THE PUBLIC WORKS CONSTRUCTION STANDARDS AND SPECIFICATIONS, NORTH CENTRAL TEXAS, 4TH EDITION, DATED OCTOBER 2004. CONTRACTOR SHALL REFER TO BOTH MANUALS PRIOR TO BEGINNING CONSTRUCTION.

2. ALL WASTEWATER LINES AND APPURTENANCES THERETO SHALL BE CONSTRUCTED AND/OR INSTALLED PER CITY OF ROCKWALL STANDARDS.

2. ALL WASTEWATER PIPE SHALL BE SDR 35 FOR DEPTHS UP TO 10 FEET AND SDR 26 FOR DEPTHS GREATER THAN 10 FEET.

3. A GREEN EMS LOCATOR PAD IS TO BE INSTALLED AT EVERY MANHOLE, CLEANOUT, AND SERVICE CONNECTION TO THE WASTEWATER MAIN, AND AT ANY OTHER LOCATION REQUIRED BY CITY OF ROCKWALL STANDARDS.

4. MANHOLES SHALL CONFORM TO CITY OF ROCKWALL STANDARDS.

5. RAVEN EPOXY COATING, CONSHIELD, OR APPROVED EQUAL, SHALL BE INSTALLED IN ALL MANHOLES.

REV.	BY	DATE	DESCRIPTION

RECORD DRAWING

TO THE BEST OF OUR KNOWLEDGE, MACATEE ENGINEERING LLC, HEREBY STATES THAT THIS PLAN IS AN ACCURATE RECORD DRAWING. THIS INFORMATION PROVIDED IS BASED ON SURVEYING AT THE SITE AND INFORMATION PROVIDED BY THE CONTRACTOR.

Dayton C. Macatee, P.E. — 04/09/2020 Date
12655 N. Central Expwy, Suite 420, Dallas, Texas 75243

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STATE OF TEXAS
DAYTON C. MACATEE
65028
REGISTERED
PROFESSIONAL ENGINEER
06/05/18
DAYTON MACATEE ENGINEERING, LLC
TX. REG. NO. F-456

BENCHMARKS

CITY OF ROCKWALL MONUMENT "COR-2"
ALUMINUM DISK STAMPED "CITY OF ROCKWALL SURVEY MONUMENT" +/-866' EAST OF INTERSECTION OF WILLIAMS STREET AND CARUTH LANE, AND 50' SOUTH OF CL OF WILLIAMS STREET. N: 7029731.124, E: 2598589.314, ELEV=529.10

CITY OF ROCKWALL MONUMENT "COR-4"
ALUMINUM DISK STAMPED "CITY OF ROCKWALL SURVEY MONUMENT" ON NORTH SIDE OF DALTON ROAD +/-210' WEST OF INTERSECTION OF SH 205 AND DALTON ROAD, AND 10' NORTH OF CURB LINE. N: 7040336.992, E: 2592422.633, ELEV=541.67

WASTEWATER PROFILE

GIDEON GROVE – NORTH

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

MACATEE ENGINEERING
DAYTON MACATEE ENGINEERING, LLC
(Tex. Reg. No. F-456)
3519 MILES STREET
DALLAS, TEXAS 75209
*TEL 214-373-1180 * FAX 214-373-6580*
E-MAIL: daytonm@macatee-engineering.com

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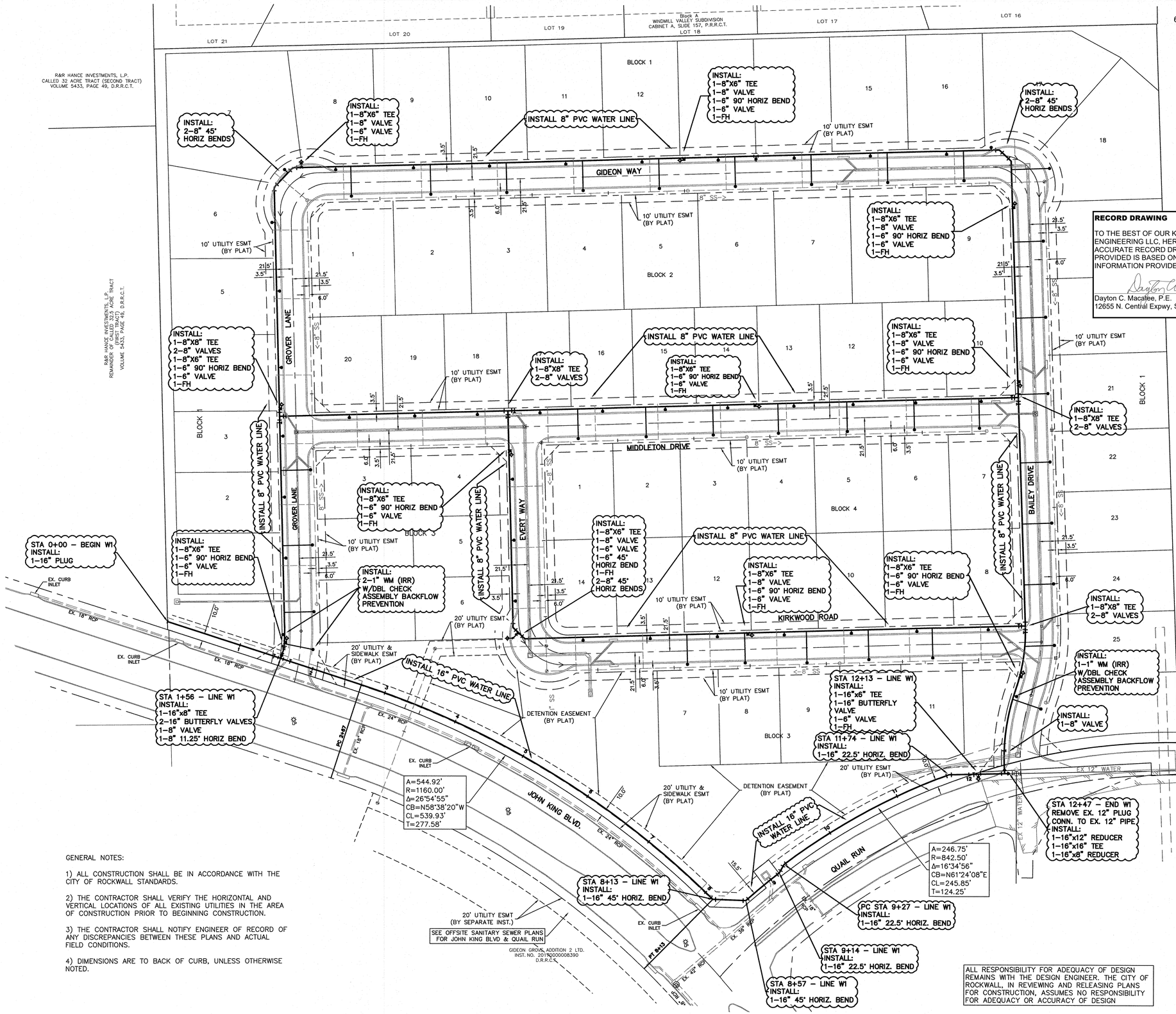

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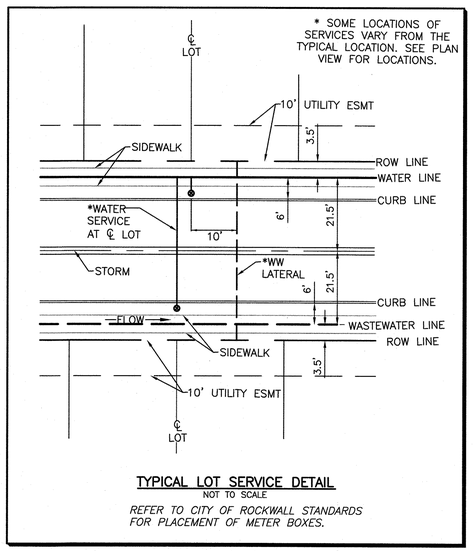
2. ALL WATER LINES AND APPURTENANCES THERETO SHALL BE CONSTRUCTED AND/OR INSTALLED PER CITY OF ROCKWALL STANDARDS.
3. ALL WATER PIPE SHALL BE AWWA C900 PVC PIPE, DR-14 PC 305 (BLUE IN COLOR), UNLESS SPECIFIED OTHERWISE IN CITY OF ROCKWALL STANDARDS.
4. INSTALL BLUE EMS LOCATOR PADS ALONG WATER LINES AT EVERY TWO HUNDRED FIFTY (250') FEET, CHANGES IN DIRECTION, VALVE, CURB STOP AND SERVICE CONNECTION TO THE WATER MAIN AND ANY OTHER LOCATION REQUIRED BY CITY OF ROCKWALL STANDARDS.
5. REFER TO CITY OF ROCKWALL STANDARDS FOR WATER PIPE EMBEDMENT.
6. MINIMUM COVER FOR WATER PIPE UNDER PAVEMENT IS 4'.
7. WATER SERVICES SHALL BE SDR-9 (POLYTUBE) HAVING A MINIMUM SIZE OF ONE INCH (1"). METER BOXES SHALL BE SET BETWEEN THE SIDEWALK AND THE BACK OF CURB AS SPECIFIED IN CITY OF ROCKWALL STANDARDS.



TYPICAL LOT SERVICE DETAIL
NOT TO SCALE
REFER TO CITY OF ROCKWALL STANDARDS FOR PLACEMENT OF METER BOXES.

GENERAL NOTES:

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2) THE CONTRACTOR SHALL VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES IN THE AREA OF CONSTRUCTION PRIOR TO BEGINNING CONSTRUCTION.

3) THE CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD OF ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS.

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WATER PLAN

GIDEON GROVE – NORTH

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

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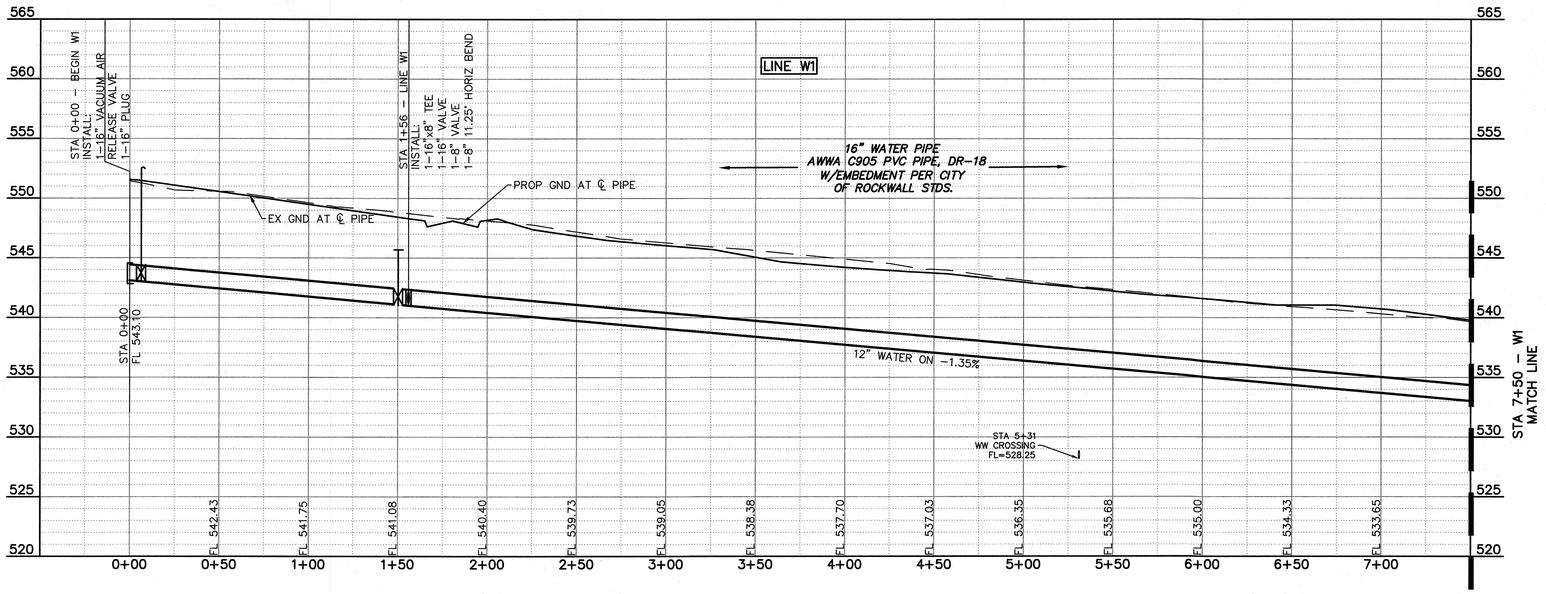

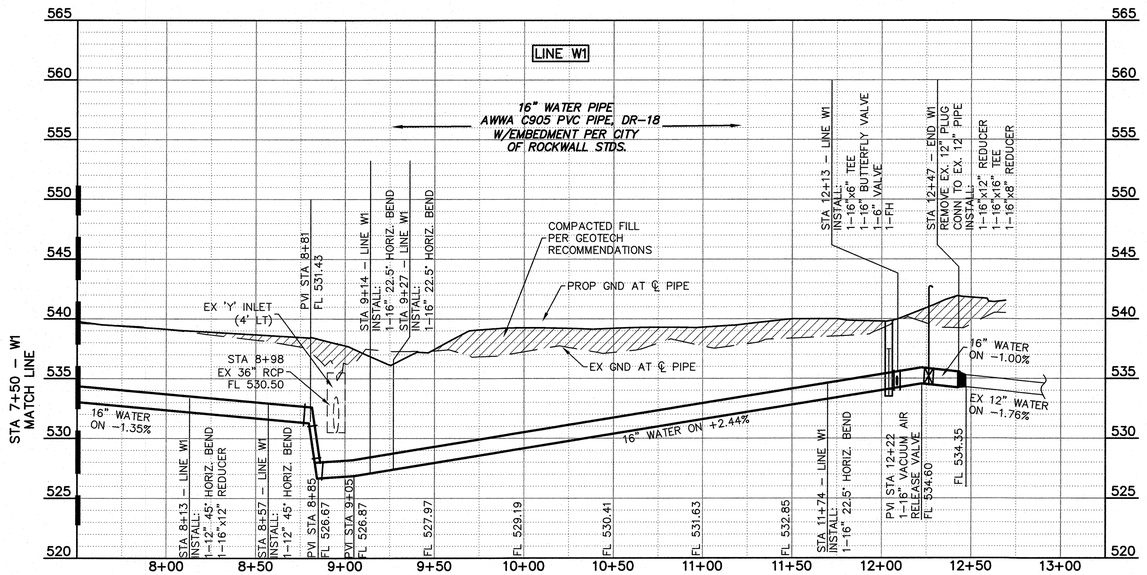

40 20 0 40 80

SCALE:
HORIZ: 1"=40'
VERT: 1"=6'

GENERAL NOTES:

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3) THE CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD OF ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS.

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Dayton C Macatee 04/09/2020

Dayton C. Macatee, P.E. Date
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16" WATER PROFILE

GIDEON GROVE – NORTH

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

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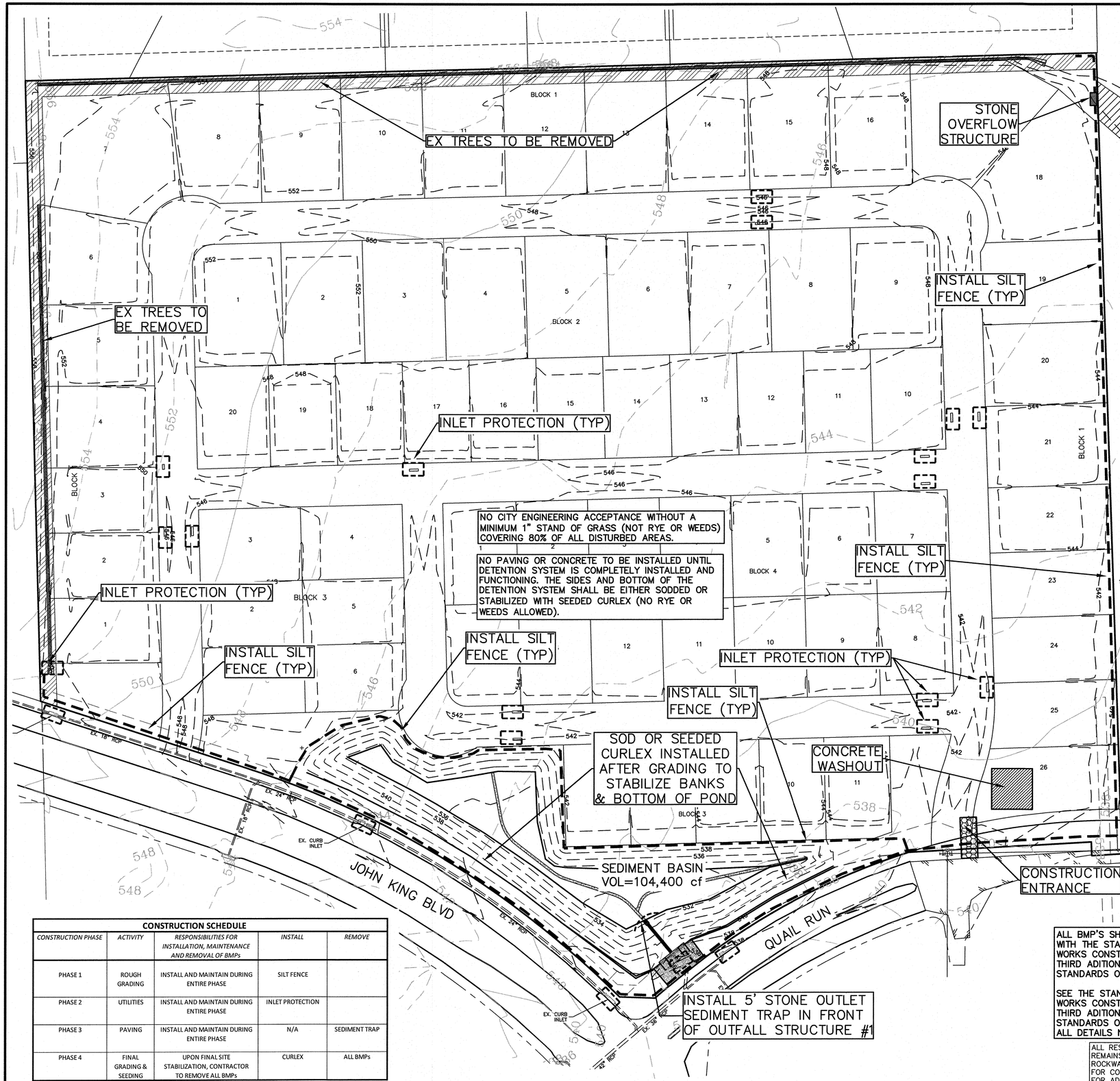

CONSTRUCTION SCHEDULE				
CONSTRUCTION PHASE	*ACTIVITY*	*RESPONSIBILITIES FOR INSTALLATION, MAINTENANCE AND REMOVAL OF BMPs*	*INSTALL*	*REMOVE*
PHASE 1	ROUGH GRADING	INSTALL AND MAINTAIN DURING ENTIRE PHASE	SILT FENCE	
PHASE 2	UTILITIES	INSTALL AND MAINTAIN DURING ENTIRE PHASE	INLET PROTECTION	
PHASE 3	PAVING	INSTALL AND MAINTAIN DURING ENTIRE PHASE	N/A	SEDIMENT TRAP
PHASE 4	FINAL GRADING & SEEDING	UPON FINAL SITE STABILIZATION, CONTRACTOR TO REMOVE ALL BMPs	CURLEX	ALL BMPs

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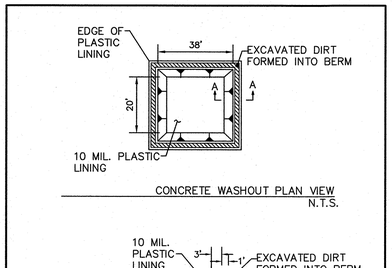
04/09/2020

Dayton C. Macatee, P.E. — Date

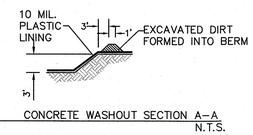
12655 N. Central Expwy, Suite 420, Dallas, Texas 75243

EROSION CONTROL SEQUENCING

1. THE EROSION CONTROL CONTRACTOR SHALL INSTALL SILT FENCE (STEEL POSTS ONLY – NO WOOD STAKES ALLOWED) AS SHOWN IN THE PLAN AND CONSTRUCT THE STABILIZED CONSTRUCTION ENTRANCES AT THE LOCATIONS SHOWN ON THIS PLAN PRIOR TO CONSTRUCTION.
2. THE GRADING CONTRACTOR SHALL STRIP, CLEAR AND MASS GRADE THE SITE. THE GRADING CONTRACTOR IS TO ASSUME RESPONSIBILITY OF THE EROSION CONTROL DEVICES DURING GRADING OPERATIONS AND ENSURE THAT THESE DEVICES REMAIN IN GOOD WORKING ORDER. AFTER GRADING IS COMPLETE, THE GRADING CONTRACTOR SHALL INSPECT THE DEVICES TO ENSURE THAT THEY REMAIN IN GOOD WORKING ORDER.
3. BEGIN UTILITY INSTALLATION. THE UTILITY CONTRACTOR SHALL ASSUME RESPONSIBILITY OF THE EROSION CONTROL DEVICES DURING UTILITY CONSTRUCTION AND ENSURE THAT THESE DEVICES REMAIN IN GOOD WORKING ORDER. AFTER THE STORM DRAIN INLET INVERT AND WALLS ARE ERECTED, THE CONTRACTOR SHALL PROTECT THE INLET FROM SILTATION BY SURROUNDING IT WITH SILT FENCE. AFTER THIS PHASE OF UTILITY INSTALLATION IS COMPLETE, THE UTILITY CONTRACTOR SHALL INSPECT THE DEVICES PRIOR TO MOVING OFF SITE TO ENSURE THAT THEY REMAIN IN GOOD WORKING ORDER.
4. BEGIN PAVING CONSTRUCTION. THE PAVING CONTRACTOR SHALL ASSUME RESPONSIBILITY OF THE EROSION CONTROL DEVICES DURING PAVING CONSTRUCTION AND ENSURE THAT THESE DEVICES REMAIN IN GOOD WORKING ORDER. AFTER PAVING CONSTRUCTION IS COMPLETE, THE PARKWAYS SHALL BE BACKFILLED TO A FINISHED SLOPE OF 1/4" PER FOOT. THE PAVING CONTRACTOR SHALL INSPECT THE DEVICES PRIOR TO MOVING OFF SITE TO ENSURE THAT THEY REMAIN IN GOOD WORKING ORDER.
5. THE UTILITY CONTRACTOR SHALL REMOBILIZE AND FINISH THE STORM DRAIN INLET CONSTRUCTION BY COMPLETING THE ERECTION OF THE WALLS AND TOP. AFTER PUBLIC UTILITY CONSTRUCTION IS COMPLETE, THE UTILITY CONTRACTOR SHALL INSPECT THE DEVICES TO ENSURE THAT THEY REMAIN IN GOOD WORKING ORDER.
6. THE EROSION CONTROL CONTRACTOR SHALL INSTALL THE CURB INLET PROTECTION DETAILED ON THIS PLAN, AND SHALL INSTALL SILT FENCE ALONG STREET RIGHTS-OF-WAY.
7. BEGIN FRANCHISE UTILITY CONSTRUCTION. EACH FRANCHISE UTILITY CONTRACTOR SHALL ASSUME RESPONSIBILITY OF THE EROSION CONTROL DEVICES DURING FRANCHISE UTILITY CONSTRUCTION AND ENSURE THAT THESE DEVICES REMAIN IN GOOD WORKING ORDER. AFTER FRANCHISE UTILITY CONSTRUCTION IS COMPLETE, THE CONTRACTOR SHALL INSPECT THE DEVICES TO ENSURE THAT THEY REMAIN IN GOOD WORKING ORDER.
8. AFTER CONSTRUCTION IS COMPLETE, THE EROSION CONTROL CONTRACTOR SHALL SEED ALL DISTURBED AREAS. WHEN SUFFICIENT GRASS GROWTH HAS BEEN ESTABLISHED, ALL SILT FENCE AND OTHER EROSION CONTROL DEVICES SHALL BE REMOVED FROM THE SITE.
9. NO CITY ENGINEERING ACCEPTANCE WITHOUT A MINIMUM 1" STAND OF GRASS (NOT RYE OR WEEDS) COVERING 80% OF ALL DISTURBED AREAS.
10. NO PAVING OR CONCRETE TO BE INSTALLED UNTIL DETENTION SYSTEM IS COMPLETELY INSTALLED AND FUNCTIONING. THE SIDES AND BOTTOM OF THE DETENTION SYSTEM SHALL BE EITHER SODDED OR STABILIZED WITH SEEDED CURLEX (NO RYE OR WEEDS ALLOWED).
11. ALL RIGHT-OF-WAYS DISTURBED SHALL BE SODDED (QUAIL RUN & JOHN KING BLVD).



CONCRETE WASHOUT PLAN VIEW
N.T.S.



CONCRETE WASHOUT SECTION A-A
N.T.S.

CONCRETE WASHOUT DETAIL
N.T.S.

PAVING CONTRACTOR HAS THE OPTION OF USING PORTABLE, PREFABRICATED CONCRETE WASHOUT CONTAINERS THAT MEET THE REQUIRED CONTAINMENT VOLUME. REQUIRED CONTAINMENT VOLUME=1,250cf PER LOCATION.

ALL BMP'S SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, NORTH CENTRAL TEXAS, THIRD ADITION AND THE CITY OF ROCKWALL STANDARDS OF DESIGN AND CONSTRUCTION.

SEE THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, NORTH CENTRAL TEXAS, THIRD ADITION AND THE CITY OF ROCKWALL STANDARDS OF DESIGN AND CONSTRUCTION FOR ALL DETAILS NOT INCLUDED HERE.

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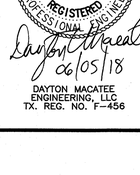

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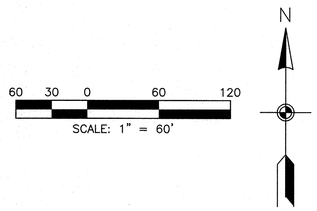
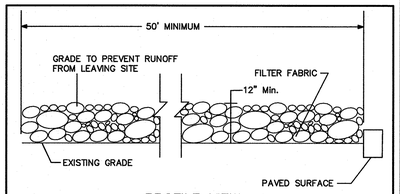


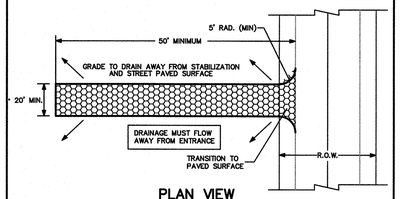


PROFILE VIEW

MATERIAL SPECIFICATIONS

A. AGGREGATE – NATURAL STONE (NO CRUSHED OR RECYCLED CONCRETE ALLOWED) MEETING THE GRADATION REQUIREMENTS OF NCTCOG SPECIFICATION ITEM 2.1.8 (d). [4"-6" DIAMETER]

B. FILTER STONE – NCTCOG SPECIFICATION 2.23.3.



PLAN VIEW

STABILIZED CONSTRUCTION ENTRANCE
N.T.S.

SITE ACREAGE: 29.2

DISTURBED AREA (ac): 29.2

LEGEND	
544	EXISTING 2 FOOT CONTOUR INTERVAL
544	PROPOSED 2 FOOT CONTOUR INTERVAL
	SILT FENCE
	INLET PROTECTION

REV.	BY	DATE	DESCRIPTION

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EROSION CONTROL PLAN

GIDEON GROVE – NORTH

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

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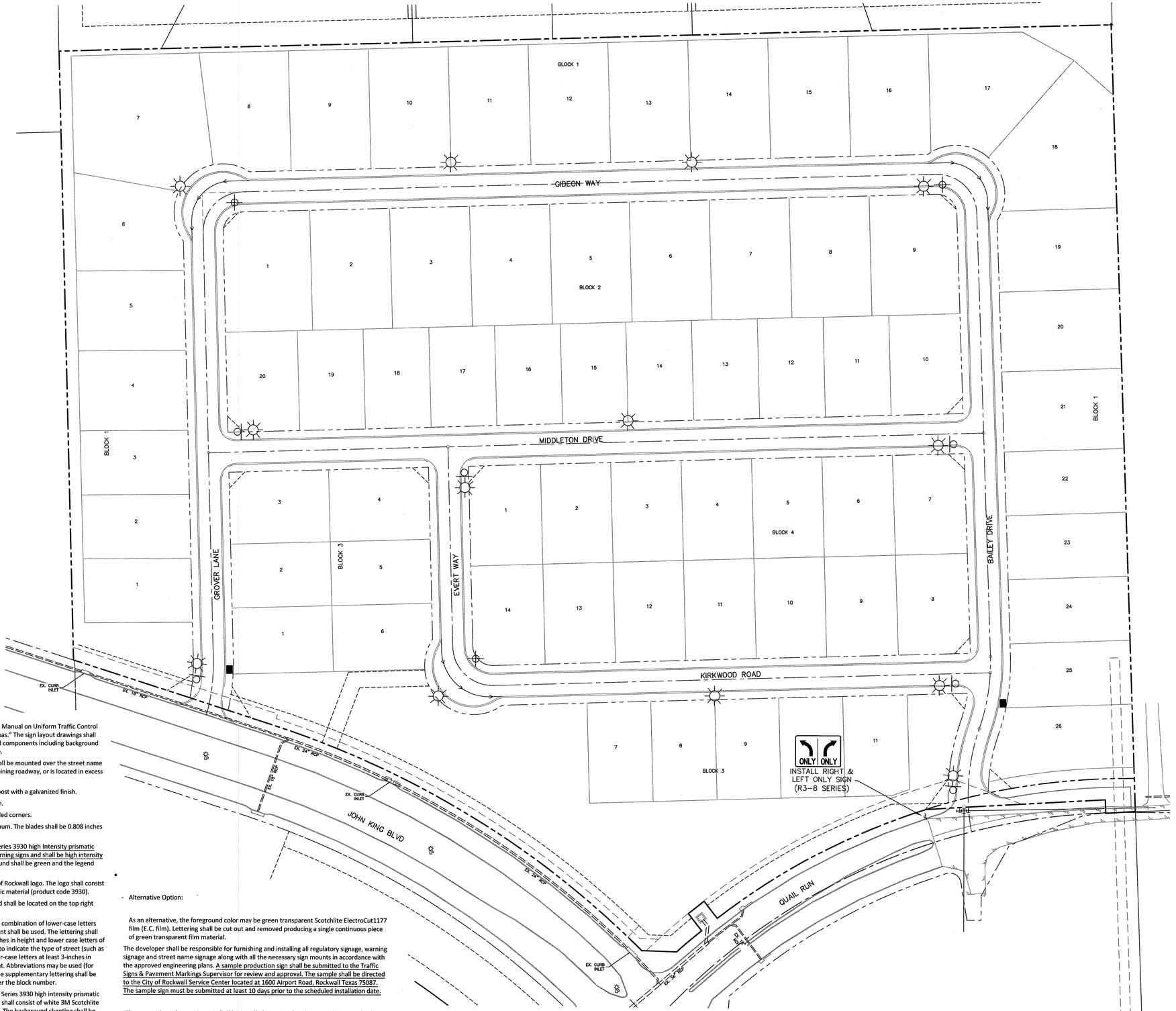


N

60 30 0 60 120

SCALE: 1" = 60'

ONLY STANDARD SIGN POLES WILL BE USED IN THIS DEVELOPMENT. NO DECORATIVE POLES WILL BE USED.

LEGEND

- STREET LIGHT
- STOP SIGN WITH STREET NAME BLADES
- STREET NAME BLADES
- SPEED LIMIT SIGN (30mph)

NOTES:

1) THESE GRAPHICAL REPRESENTATIONS OF LIGHT POLES AND STREET SIGNS SHOW THE GENERAL LOCATION OF INSTALLATION. CONTRACTOR SHALL FOLLOW ALL APPLICABLE CITY CODES AND REGULATIONS WHEN INSTALLING STREET SIGNS AND LIGHT POLES.
2) ALL CONSTRUCTION/INSTALLATION SHALL BE IN ACCORDANCE WITH THE CITY OF ROCKWALL STANDARD DRAWINGS AND SPECIFICATIONS.
3) NON-DECORATIVE, STANDARD STREET SIGN POLES AND FIXTURES WILL BE USED THROUGHOUT THIS DEVELOPMENT.

- All signage installed shall comply with the current "Texas Manual on Uniform Traffic Control Devices" and the "Standard Highway Sign Designs for Texas." The sign layout drawings shall show the color and dimensions of all the sign face legend components including background color, legend color, borders, symbols, letter size and style.
- For a street with a cul-de-sac end, a standard W 14-2a shall be mounted over the street name blade, if the cul-de-sac is not clearly visible from the adjoining roadway, or is located in excess of 400 linear feet from the adjoining roadway.
- Sign posts shall be 2 3/8 O.D. galvanized steel tube sign post with a galvanized finish.
- Sign clamps and brackets shall be high strength aluminum.
- Street name sign blades shall be double-sided with rounded corners.
- Street Name Blades shall be nine-inch (9") tall flat aluminum. The blades shall be 0.808 inches thick and be a minimum of 36" long.
- The lettering for the street signs shall be 3M Scotchlite Series 3930 high Intensity prismatic material sheeting shall be used for street, regulatory, warning signs and shall be high intensity diamond grade type III prismatic. The street sign background shall be green and the legend shall be white.
- The street sign blade must incorporate the current City of Rockwall logo. The logo shall consist of white 3M Scotchlite Series 3930 high intensity prismatic material (product code 3930).
- Block Numbers are required on all street name blades and shall be located on the top right corner of the street blade.
- The lettering for the street blades shall be composed of a combination of lower-case letters with initial upper-case letters. The Clearview TCAD-1W font shall be used. The lettering shall be composed of initial upper-case letters of at least 6 inches in height and lower case letters of at least 4.5 inches in height. For supplementary lettering to indicate the type of street (such as Street, Avenue or Road) shall be composed of initial upper-case letters at least 3-inches in height and lower-case letters at least 2.25 inches in height. Abbreviations may be used (for example St., Ave., or Rd) except the street name itself. The supplementary lettering shall be located at the lower right corner of the street blade, under the block number.
- The street blade sign shall consist of green 3M Scotchlite Series 3930 high intensity prismatic material background - (product code 3937). The lettering shall consist of white 3M Scotchlite Series 3930 high intensity material (product code - 3930). The background sheeting shall be white 3M 3900 high intensity prismatic material. The background material shall be applied to the full width and height of the sign blank leaving no metal exposed. The background material shall be one continuous piece of material. Patching of background material is not allowed and any sign with patching material of any type will be rejected by the City.

- Alternative Option:

As an alternative, the foreground color may be green transparent Scotchlite ElectroCut1177 film (E.C. film). Lettering shall be cut out and removed producing a single continuous piece of green transparent film material.

The developer shall be responsible for furnishing and installing all regulatory signage, warning signage and street name signage along with all the necessary sign mounts in accordance with the approved engineering plans. A sample production sign shall be submitted to the Traffic Signs & Pavement Markings Supervisor for review and approval. The sample shall be directed to the City of Rockwall Service Center located at 1600 Airport Road, Rockwall Texas 75087. The sample sign must be submitted at least 10 days prior to the scheduled installation date.

All street and regulatory signage shall be installed, inspected and approved, prior to final acceptance of the project. This inspection typically takes place as part of the engineering department's final walkover. Any sign related issue/issues will be noted on the projects final punch list.

RECORD DRAWING

TO THE BEST OF OUR KNOWLEDGE, MACATEE ENGINEERING LLC, HEREBY STATES THAT THIS PLAN IS AN ACCURATE RECORD DRAWING. THIS INFORMATION PROVIDED IS BASED ON SURVEYING AT THE SITE AND INFORMATION PROVIDED BY THE CONTRACTOR.

Dayton C Macatee 04/09/2020

Dayton C. Macatee, P.E. Date
12655 N. Central Expwy, Suite 420, Dallas, Texas 75243

REV.	BY	DATE	DESCRIPTION

BENCHMARKS

CITY OF ROCKWALL MONUMENT "COR-2"
ALUMINUM DISK STAMPED "CITY OF ROCKWALL SURVEY MONUMENT" +/-866' EAST OF INTERSECTION OF WILLIAMS STREET AND CARUTH LANE, AND 50' SOUTH OF CL OF WILLIAMS STREET. N: 7029731.124, E: 2598589.314, ELEV=529.10

CITY OF ROCKWALL MONUMENT "COR-4"
ALUMINUM DISK STAMPED "CITY OF ROCKWALL SURVEY MONUMENT" ON NORTH SIDE OF DALTON ROAD +/-210' WEST OF INTERSECTION OF SH 205 AND DALTON ROAD, AND 10' NORTH OF CURB LINE. N: 7040336.992, E: 2592422.633, ELEV=541.67

STREET LIGHT AND SIGNAGE PLAN

GIDEON GROVE - NORTH

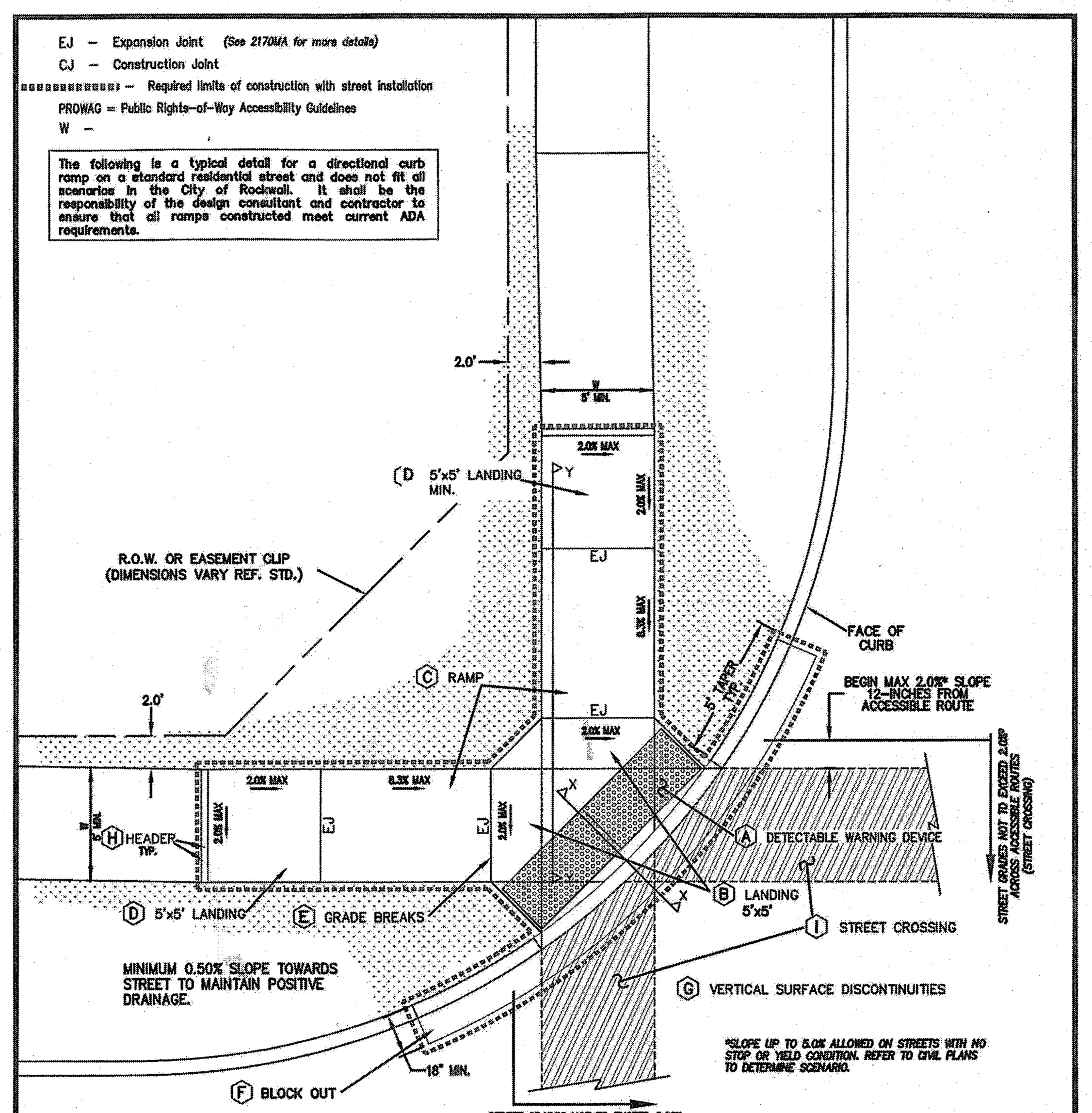
CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

MACATEE ENGINEERING
DAYTON MACATEE ENGINEERING, LLC
(Tex. Reg. No. F-456)
3519 MILES STREET
DALLAS, TEXAS 75209
TEL 214-373-1180 * FAX 214-373-6580
E-MAIL: daytonm@macatee-engineering.com

DESIGNED	CHECKED	DATE	DWG FILE	PROJECT #	SHEET NO.
PJF	DCM	06/05/2018	GG_PAV	SKR_GG	29 OF 29

EJ – Expansion Joint (See 2170MA for more details)
CJ – Construction Joint
– Required limits of construction with street installation
PROWAG = Public Rights-of-Way Accessibility Guidelines
W –

The following is a typical detail for a directional curb ramp on a standard residential street and does not fit all scenarios in the City of Rockwall. It shall be the responsibility of the design consultant and contractor to ensure that all ramps constructed meet current ADA requirements.



NOTES: All newly constructed sidewalks, curb ramps and crosswalks installed within City of Rockwall public rights-of-way shall be considered a pedestrian access route and shall conform to the most current "Draft" Guidelines for Public Rights-of-Way created by the United States Access Board.

1. SEE DETAIL R-2125B FOR RAMP FEATURE DESCRIPTIONS
2. SEE DETAIL R-2125C FOR SECTIONS X-X AND Y-Y
3. SEE DETAIL R-2125D FOR ADDITIONAL NOTES

DIRECTIONAL CURB RAMP	CITY OF ROCKWALL	DATE	DRAWING NO.
		MAR. '17	R-2125A

(A) Detectable Warning Devices (DWD) shall be pre-manufactured cast-in-place truncated dome plates installed to the manufacturer's specifications, and shall meet all ADA requirements. No Brick Pavers allowed. Color to be approved by the City. DWD shall be 24 inches in length for the full width of the street connection starting at the back of curb. A maximum 2-inch border shall be allowed on the sides of the DWD for proper installation.

(B) Also known as "Clear Space" per ADA PROWAG, the City requires a minimum landing space of 5-foot by 5-foot at the bottom of every ramp. This landing space shall have a cross slope in both directions that does not exceed 2.0% and shall be wholly outside the parallel vehicular travel path.

(C) The ramp component of the directional curb ramp shall have a continuous longitudinal slope more than 5% and less than 8.3%. The ramp shall also have a cross slope of no more than 2.0%. Length of ramp can vary, but shall not exceed 15 feet to achieve desired elevation change.

(D) Also known as "Turning Space" per ADA PROWAG, a minimum landing space of 5-foot by 5-foot shall be at the top of every ramp. This landing (turning) space shall have a cross slope in both directions that does not exceed 2.0%. Landing must match width of sidewalk and length shall be the same distance ("Squared" Landing).

(E) All curb ramps shall have grade breaks at the top and bottom that are perpendicular to the direction of the ramp run. Where the ends of the bottom grade break are less than or equal to 5 feet, the DWD shall be placed within the ramp at the bottom grade break. Where either end of the bottom grade break is greater than 5 feet, the DWD shall be placed behind the back of the curb.

(F) Paving contractor shall leave block out with a keyway joint installed, minimum of 18 inches measured from back of curb. Block out shall be poured monolithically with Curb Ramp. Concrete shall tie to street paving with a keyway joint per NCTCOG detail 2050. No curb shall be constructed where a DWD is provided. The curb on either side shall have a typical 5 foot taper to transition from the standard 6-inch curb height to be flush with ramp.

(G) All work associated with accessible routes shall be installed flush with all features to minimize vertical surface discontinuities. Each segment along accessible route shall be flush with no more (zero tolerance) than a ¼-inch grade separation (elevation difference), or ½-inch grade separation if beveled (bevel slope shall not be steeper than 50%).

(H) A sidewalk header shall be constructed at ends of all work performed.

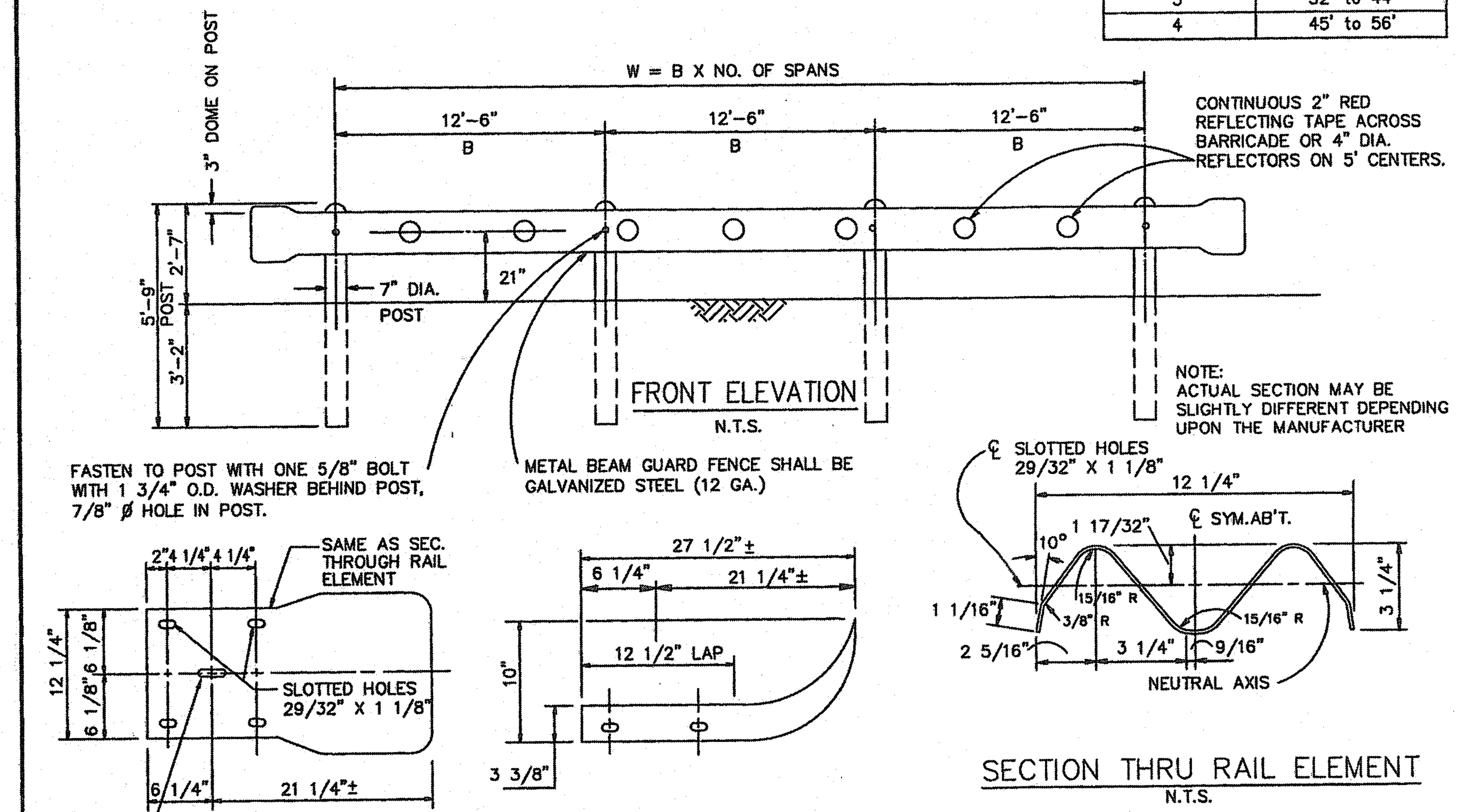
(I) Street crossings shall adhere to same guidelines as other accessible routes within public right-of-way, and shall be for the full width of the in-line accessible route. Cross slope shall not exceed 2%*. New street construction shall incorporate all ADA design requirements. It shall be the responsibility of the Design Professional and Contractor to ensure all street crossings meet the requirements of PROWAG. Street alterations on existing streets to bring to compliance shall be at the City Engineer's discretion.

(J) All curbs constructed as part of an ADA Ramp shall match City curb standards.

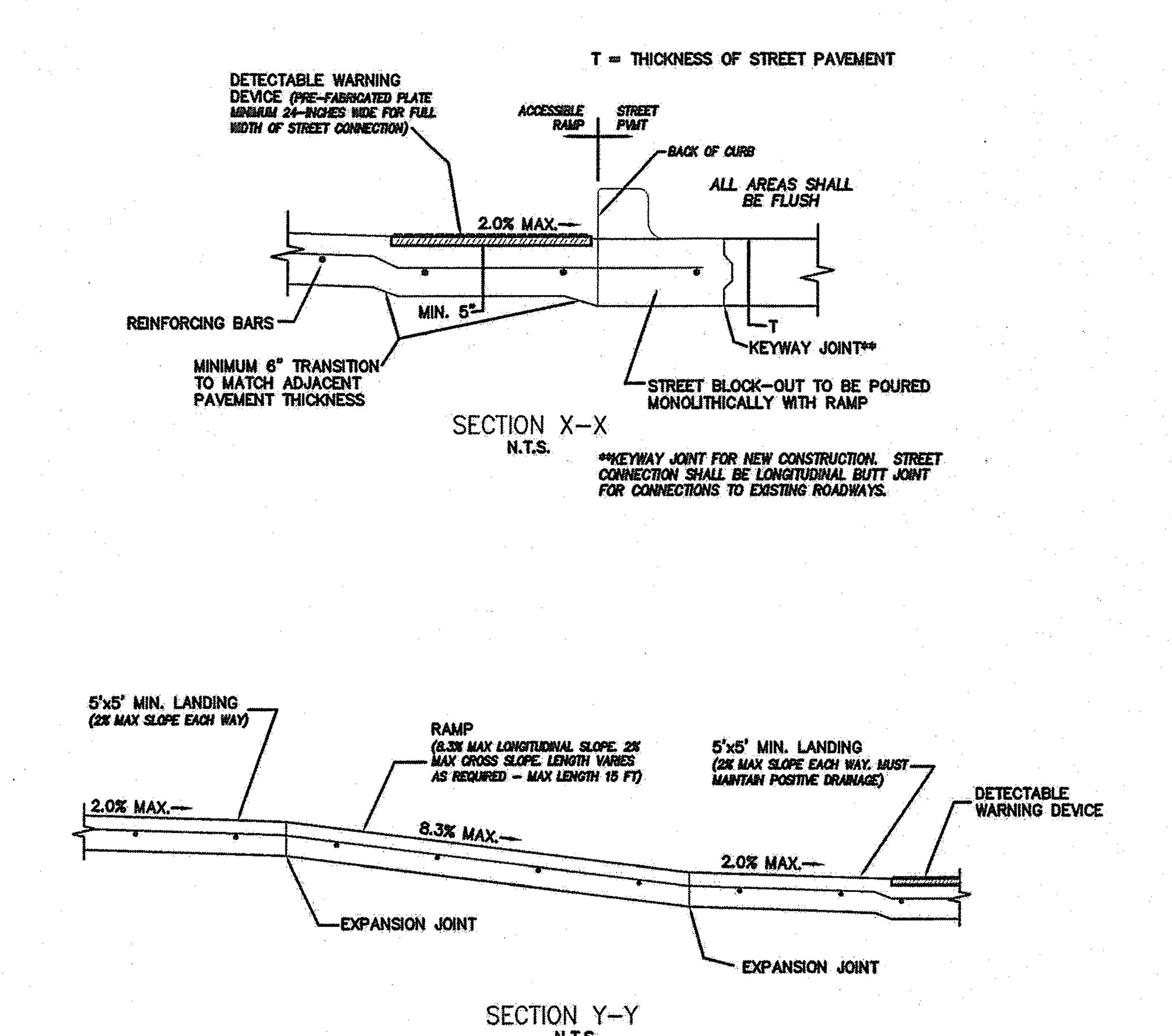
** See PROWAG special design considerations when street crossing has no stop or yield condition.*

DIRECTIONAL CURB RAMP	CITY OF ROCKWALL	DATE	DRAWING NO.
		MAR. '17	R-2125B

NO. OF SPANS	ROADWAY SECTION WIDTH
2	18' to 31'
3	32' to 44'
4	45' to 56'



2290 STANDARD DRAWING NO.	METAL BEAM BARRICADE / END OF ROAD	North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE 801.2	
			DATE: OCT. '04	STANDARD DRAWING NO.: 2290



NOTE: ALL SIDEWALK CURB RAMPS WILL BE 3,600 PSI (6.5 SACK/CY) CONCRETE.

DIRECTIONAL CURB RAMP	CITY OF ROCKWALL	DATE	DRAWING NO.
		MAR. '17	R-2125C

PEDESTRIAN ACCESSIBILITY (WITHIN PUBLIC R.O.W.)

All newly constructed sidewalks, curb ramps and crosswalks installed within City of Rockwall public rights-of-way shall be considered a pedestrian access route and shall conform to the most current Guidelines for Public Rights-of-Way created by the United States Access Board.

CURB RAMPS

1. All slopes shown are MAXIMUM ALLOWABLE. Lesser slopes that will still drain properly should be used. Adjust curb ramp length or grade of approach sidewalks as directed.
2. Landings shall be 5'x 5' minimum with a maximum 2% slope in the transverse and longitudinal directions..
3. Clear space at the bottom of curb ramps shall be a minimum of 5'x 5' wholly contained within the crosswalk and wholly outside the parallel vehicular travel path.
4. Maximum allowable cross slope on sidewalk and curb ramp surfaces is 2%.
5. Additional information on curb ramp location, design, light reflective value and texture may be found in the most current edition of the Texas Accessibility Standards (TAS) and 16 TAC 68.102. Federal guidelines shall supersede any conflicts.
6. Crosswalk dimensions, crosswalk markings and stop bar locations shall be as shown elsewhere in the plans. At intersections where crosswalk markings are not required, curb ramps and accessible routes shall align with theoretical crosswalks unless otherwise directed.
7. Handrails are not required on curb ramps.
8. Provide a flush transition where the curb ramps connect to the street.
9. Accessible routes are considered "ramps" when longitudinal slopes are between 5% and 8.3% (maximum allowable). Sidewalks under 5% longitudinal slope are deemed accessible routes and must follow all applicable guidelines.

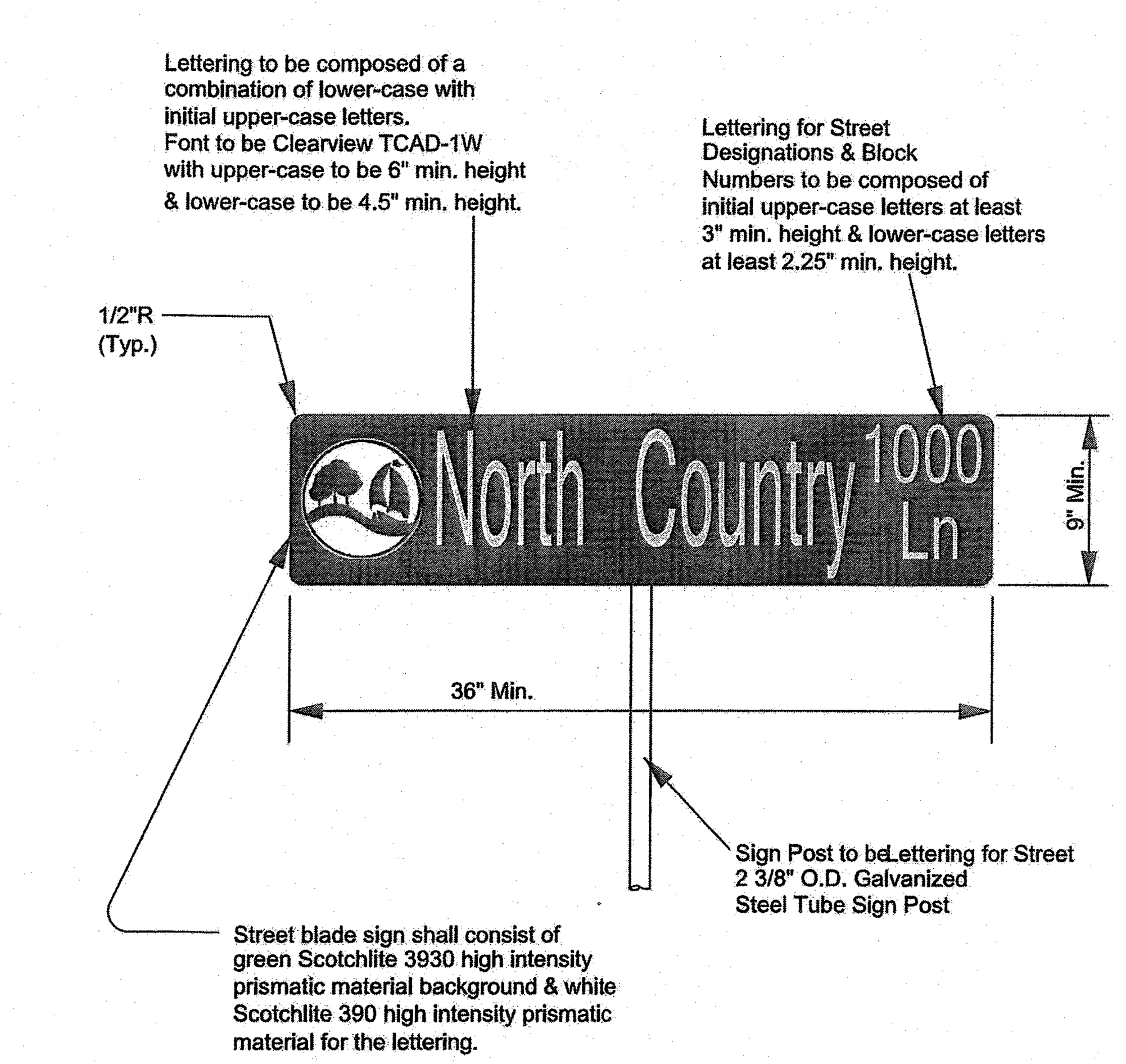
DETECTABLE WARNING DEVICE

10. Curb ramps must contain a detectable warning surface that consists of raised truncated domes complying with Section 705 of the TAS. The surface must contrast visually with adjoining surfaces. Furnish and install an approved cast-in-place dark red detectable warning surface material adjacent to uncolored concrete, unless specified elsewhere in the plans.
11. Detectable Warning Materials shall be truncated dome plates in the color approved by the City. Install products in accordance with manufacturer's specifications.
12. Detectable warning surfaces must be slip resistant and not allow water to accumulate.
13. Detectable warning surfaces shall be a minimum of 24" in depth in the direction of pedestrian travel, and extend the full width of the curb ramp or landing where the pedestrian access route enters the street.
14. Detectable warning surfaces shall be located so that the edge nearest the curb line is at the back of curb. When placed on the ramp, align the rows of domes to be perpendicular to the grade break between the ramp run and the street. Where detectable warning surfaces are provided on a surface with a slope that is less than 5 percent, dome orientation is less critical. Detectable warning surfaces may be curved along the corner radius.

SIDEWALKS

15. Provide clear ground space at operable parts, including pedestrian push buttons. Operable parts shall be placed within one or more reach ranges specified in TAS 308.
16. Place traffic signal or illumination poles, ground boxes, controller boxes, signs, drainage facilities and other items so as not to obstruct the pedestrian access route or clear ground space.
17. Street grades and cross slopes shall be as shown elsewhere in the plans.
18. Changes in level greater than 1/4 inch are not permitted (1/2 inch with bevel).
19. The least possible grade should be used to maximize accessibility. The running slope of sidewalks and crosswalks within the public right of way may follow the grade of the parallel roadway. Where a continuous grade greater than 5% must be provided, handrails may be desirable to improve accessibility. Handrails may also be needed to protect pedestrians from potentially hazardous conditions. If provided, handrails shall comply with TAS 505.
20. Handrail extensions shall not protrude into the usable landing area or into intersecting pedestrian routes.

DIRECTIONAL CURB RAMP	CITY OF ROCKWALL	DATE	DRAWING NO.
		MAR. '17	R-2125D



STREET SIGN DETAIL

NOT TO SCALE

STREET REGULATORY SIGNAGE	CITY OF ROCKWALL	DATE	DRAWING NO.
TYPICAL STREET SIGN DETAIL		JULY '15	R-2300

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04/09/2020
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REV.	BY	DATE	DESCRIPTION

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CONSTRUCTION DETAILS

GIDEON GROVE – NORTH

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

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E-MAIL: daytonm@macatee-engineering.com

DESIGNED	CHECKED	DATE	DWG FILE	PROJECT #	SHEET NO.
		05/03/2018	GG_PAV	SKR_GG	DTLS