CONSTRUCTION PLANS
FOR
WINDING CREEK

LOTS 1-53, BLOCK A
LOTS 1-18, BLOCK B
LOTS 1-22, BLOCK C
LOTS 1-17, BLOCK D
LOTS 1-24, BLOCK E

CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

PROBABLE START OF CONSTRUCTION: _____

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.

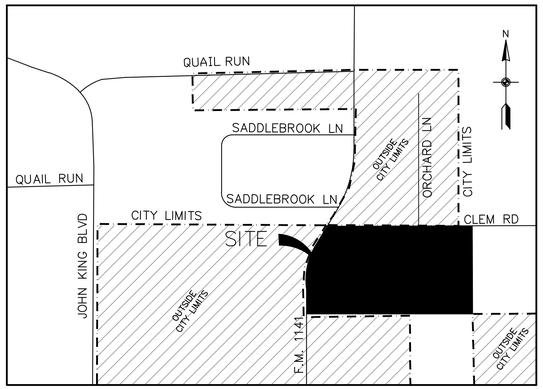
2. ALL CONSTRUCTION SPECIFICATIONS WITHIN CITY ROW AND EASEMENTS SHOULD COMPLY WITH CITY OF ROCKWALL STANDARDS. PRIOR APPROVAL TO USE ANY NON-STANDARD MATERIAL IS REQUIRED.

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.

Sheet List Table	
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2A–2C	FINAL PLAT
3	CONSTRUCTION GENERAL NOTES
4	OVERALL PAVING PLAN
5	SIDEWALK AND BFR PLAN
6–16	PAVING PLAN AND PROFILES
17	GRADING KEY MAP
18–21	GRADING PLAN
22–24	GRADING DETAILS AND SECTIONS
25	DRAINAGE AREA MAP (PRE-DEVELOPMENT)
26	DRAINAGE AREA MAP (POST-DEVELOPMENT)
27–29	DRAINAGE CALCULATIONS
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42	DETENTION POND # 2 PLAN
43	TxDOT CULVERTS
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51	12" WATER LINE A PROFILE
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53	STREET LIGHT AND SIGNAGE PLAN
TxDOT GF (31)	METAL BEAM GUARD FENCE DETAIL
DTLS 1–7	CONSTRUCTION DETAILS
L1.00–L1.15	LANDSCAPE PLANS
L2.00–L2.02	LANDSCAPE DETAILS & NOTES
L3.00, L1.1	TREESCAPE & MITIGATION PLAN



LOCATION MAP
NOT TO SCALE
MAPSCO: 20D-A

DATE: 11/29/2023

OWNER/DEVELOPER:

FALCON PLACE SF, LTD.
8214 WESTCHESTER DRIVE
SUITE 710
DALLAS, TX 75225
PHONE: 214-522-4945
CONTACT: JOHN ARNOLD

ENGINEER:

MACATEE CIVIL ENGINEERING

CIVIL ENGINEERING
DESIGN & CONSULTING
(Tex. Reg. No. F-456)
12655 N. CENTRAL EXPWY, SUITE 420
DALLAS, TEXAS 75243
TEL 214-373-1180 * FAX 214-373-6580
daytonm@macatee-engineering.com
phillipf@macatee-engineering.com

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 2019 AND THE PUBLIC WORKS CONSTRUCTION STANDARDS AND SPECIFICATIONS, NORTH CENTRAL TEXAS, 5TH EDITION, DATED NOVEMBER 2017 – PUBLISHED BY NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS. CONTRACTOR SHALL REFER TO BOTH MANUALS PRIOR TO BEGINNING CONSTRUCTION.

STATE OF TEXAS
DAYTON C. MACATEE
65028
REGISTERED
PROFESSIONAL ENGINEER
11/29/2023
DAYTON MACATEE ENGINEERING, LLC
TX. REG. NO. F-456

RECORD DRAWINGS

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NOVEMBER 29, 2023

Dayton C. Macatee, P.E. – Macatee Engineering, L.L.C. (Tx. Reg. No. F-456) **Date**
12655 N. Central Expy Suite 420, Dallas, Texas 75243 ~ Tel: 214-373-1180

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

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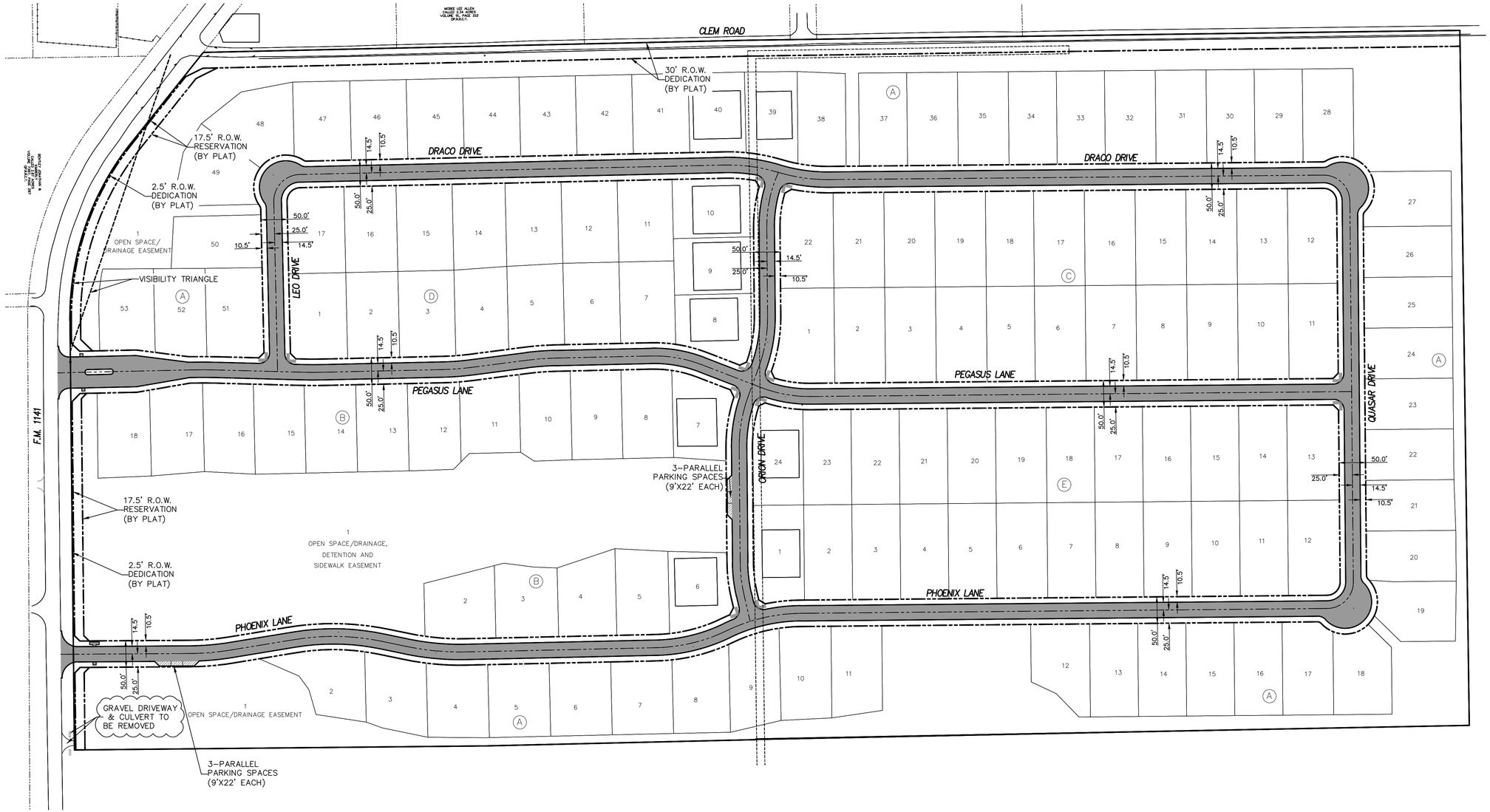
ALL RESPONSIBILITY FOR ADEQUACY OF DESIGN REMAINS WITH THE DESIGN ENGINEER. THE CITY OF ROCKWALL, IN REVIEWING AND RELEASING PLANS FOR CONSTRUCTION, ASSUMES NO RESPONSIBILITY FOR ADEQUACY OR ACCURACY OF DESIGN

REVISION TABLE			
REV.	BY	DATE	DESCRIPTION

11/29/2023

WINDING CREEK

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



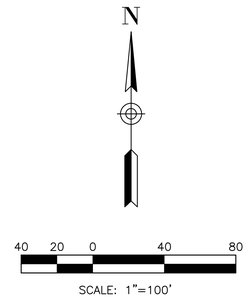
PARALLEL PARKING TYPICAL SECTION

NOT TO SCALE

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

PARKING PAVEMENT SPECIFICATIONS

6" THICK 3,600 PSI CONCRETE (6 SACKS/CY FOR MACHINE PLACED & 6.5 SACKS/CY FOR HAND PLACED) REINFORCED W/#3 BARS 24" O.C.E.W. (GRADE 60 STEEL) ON A 6" LIME STABILIZED SUBGRADE. STABILIZATION AND LIME APPLICATION RATES SHALL FOLLOW GEOTECH RECOMMENDATION. MINIMUM LIME CONTENT SHALL BE 6% OF DRY WEIGHT OF MATERIAL (27lbs PER SY) COMPACTED TO 95% STD. DENSITY.



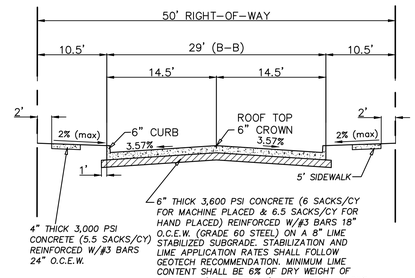
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TYPICAL PAVING SECTION (50' R.O.W.)

NOT TO SCALE

NOTE:
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LEGEND

- PROPOSED PAVEMENT
- (E) BLOCK NUMBER

STATE OF TEXAS
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65028
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11/29/2023

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OVERALL PAVING PLAN

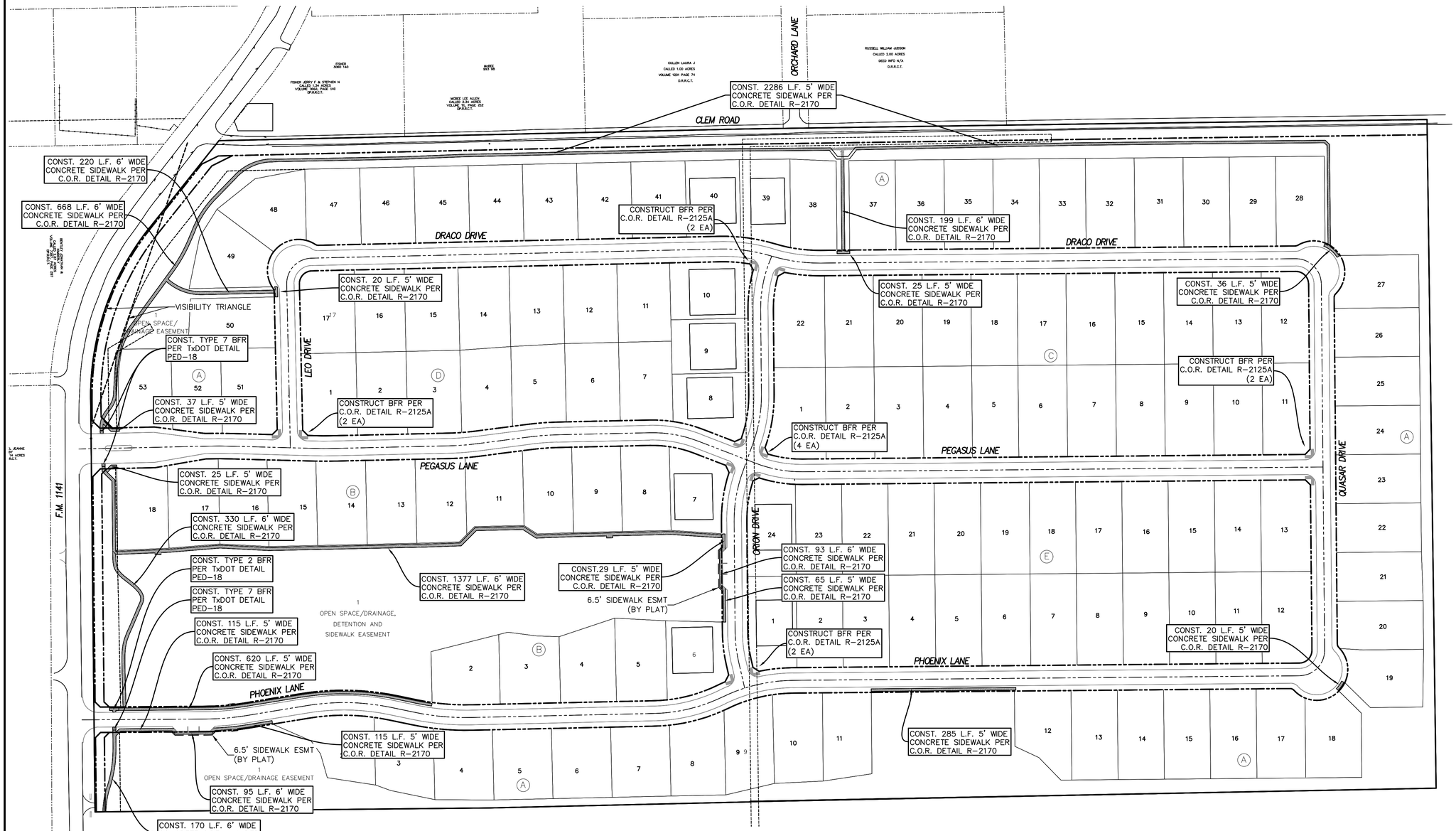
WINDING CREEK

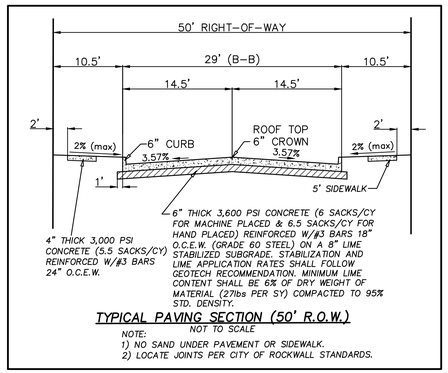
CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

MACATEE
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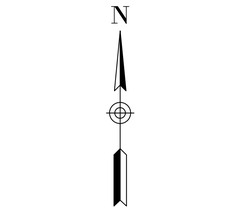




TYPICAL PAVING SECTION (50' R.O.W.)

NOT TO SCALE

NOTE:
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LEGEND

	PROPOSED SIDEWALK
	BFR PER CITY OF ROCKWALL STD DETAIL R-2125A
(E)	BLOCK NUMBER

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
	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

STATE OF TEXAS
DAYTON C. MACATEE
65028
REGISTERED
PROFESSIONAL ENGINEER

11/29/2023

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

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SIDEWALK & BFR PLAN

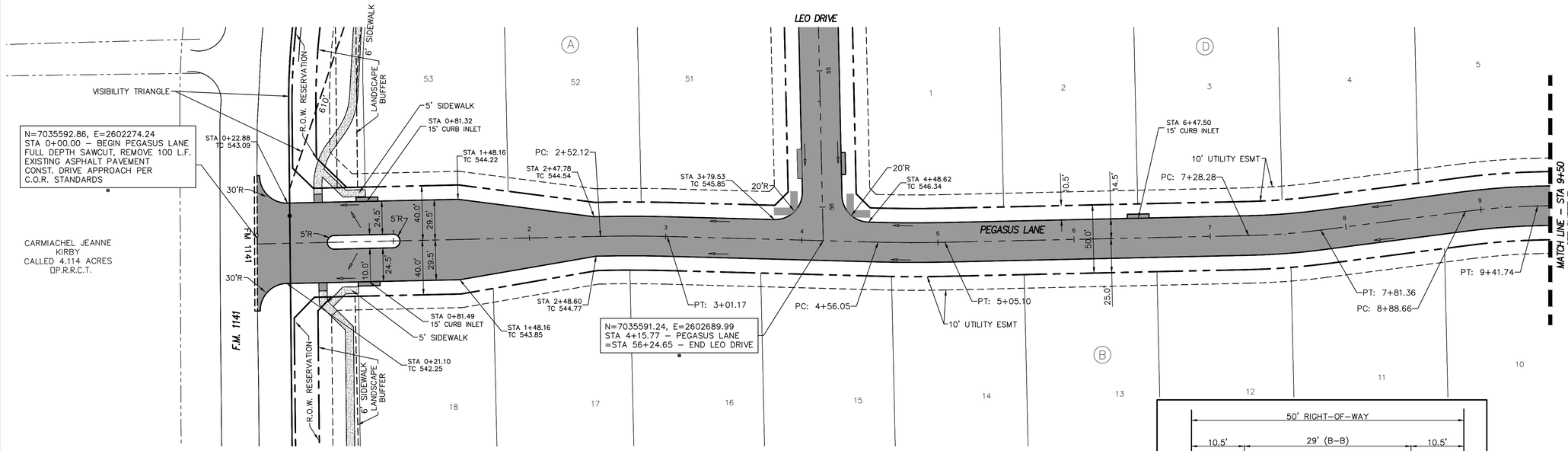
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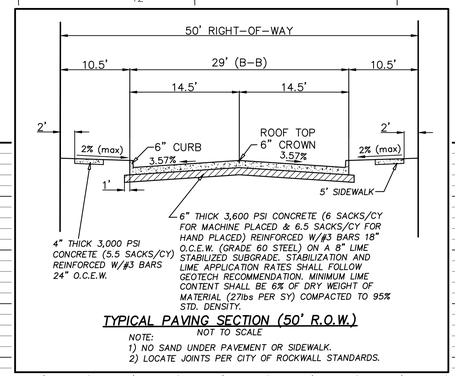
CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

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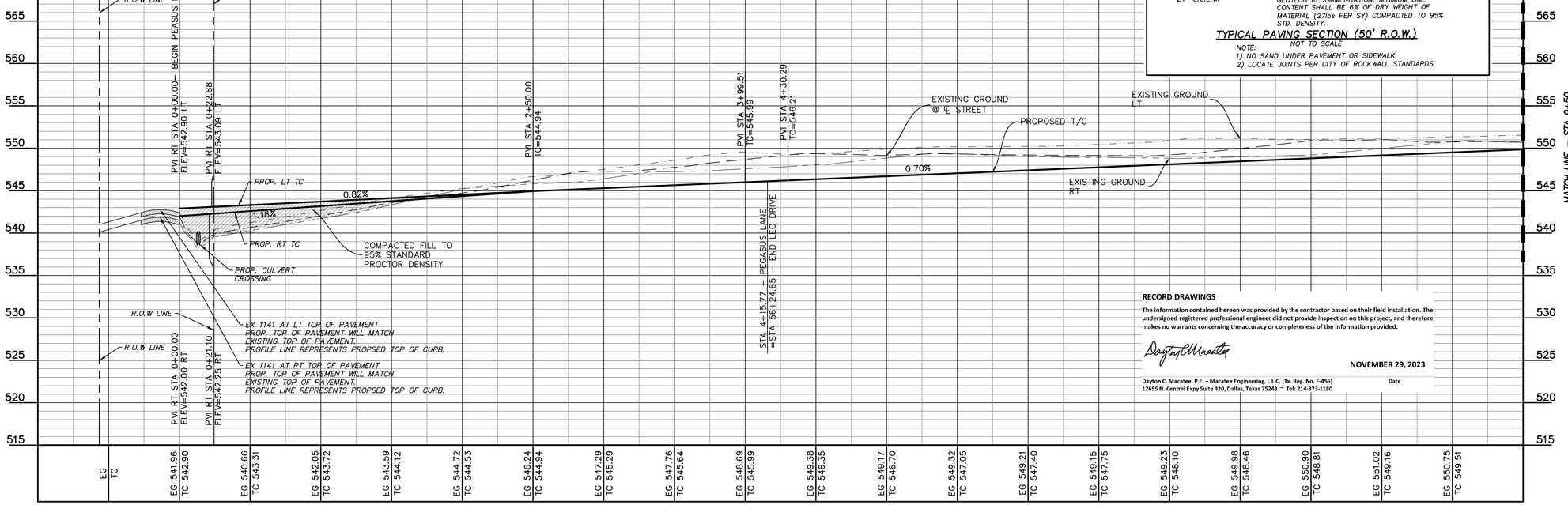
DESIGNED	CHECKED	DATE	DWG FILE	PROJECT #	SHEET NO.
BCP	SDA	11/29/2023	WC_Paving	SKO_WC	5 OF 53





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

NOTE:
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CITY OF ROCKWALL MONUMENT "COR–2"
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N

40 20 0 40 80

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

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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

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

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)

STATE OF TEXAS
DAYTON C. MACATEE
65028
REGISTERED
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11/29/2023
DAYTON MACATEE ENGINEERING, LLC
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PEGASUS LANE

PAVING PLAN AND PROFILE

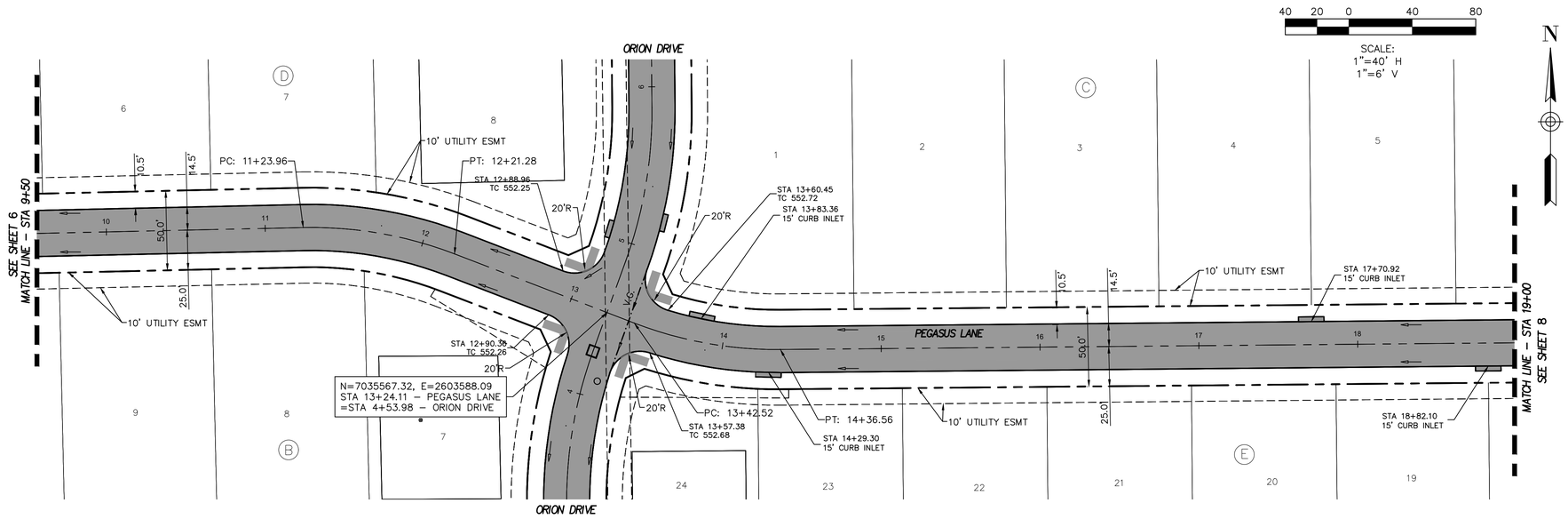
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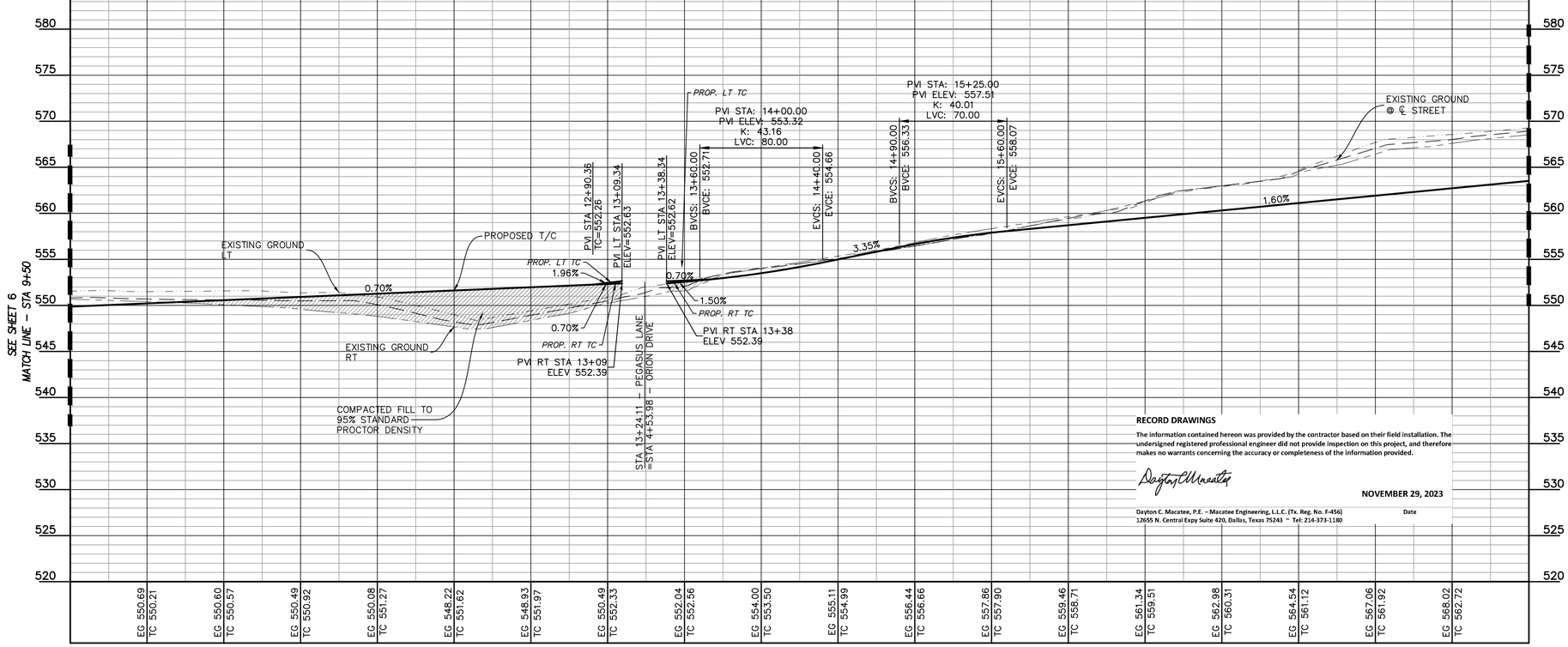
CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

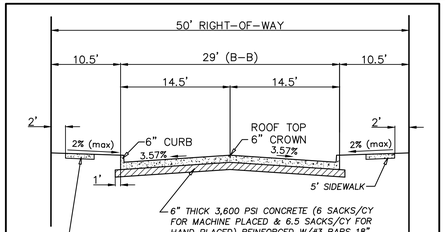
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DESIGNED	CHECKED	DATE	DWG FILE	PROJECT #	SHEET NO.
BCP	SDA	11/29/2023	WC_Paving	SKO_WC	6 OF 53







TYPICAL PAVING SECTION (50' R.O.W.)

NOT TO SCALE

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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

PROFILE LEGEND

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NOVEMBER 29, 2023

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STATE OF TEXAS
DAYTON C. MACATEE
65028
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11/29/2023

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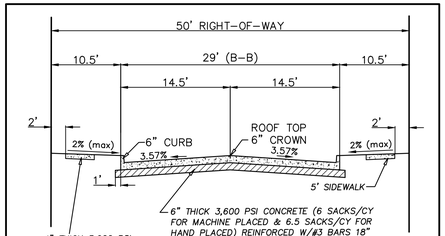
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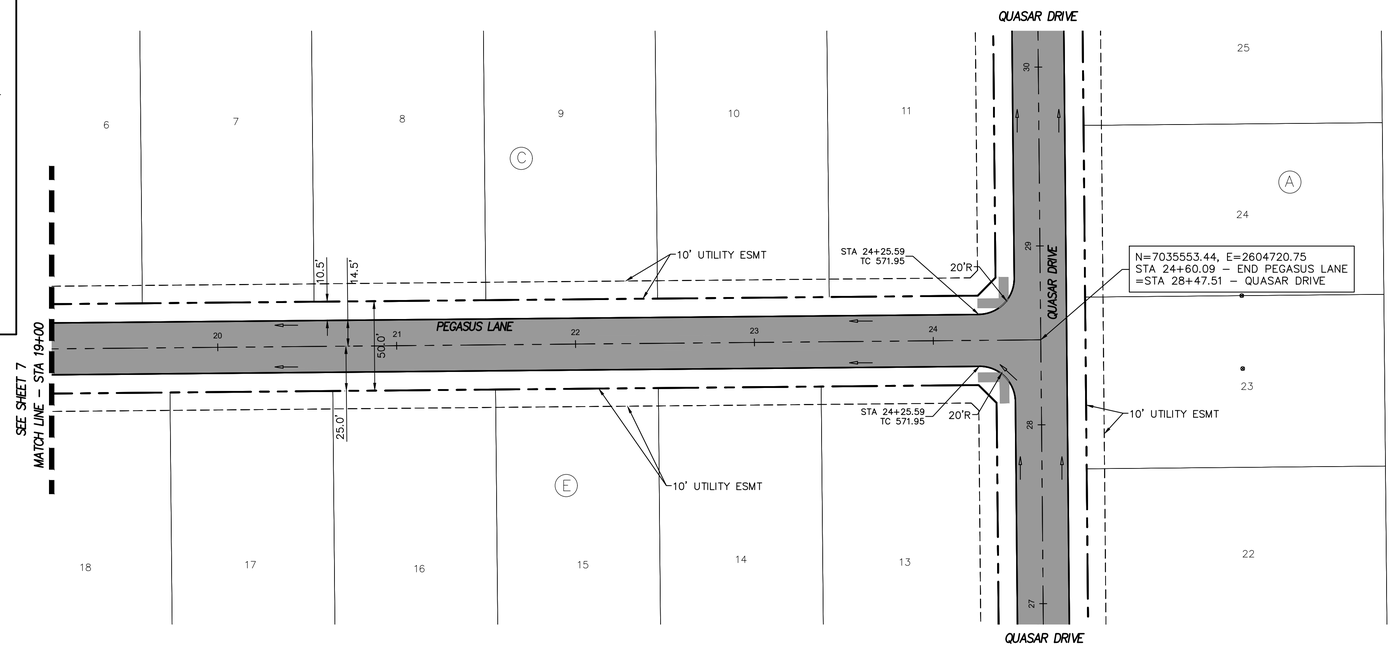
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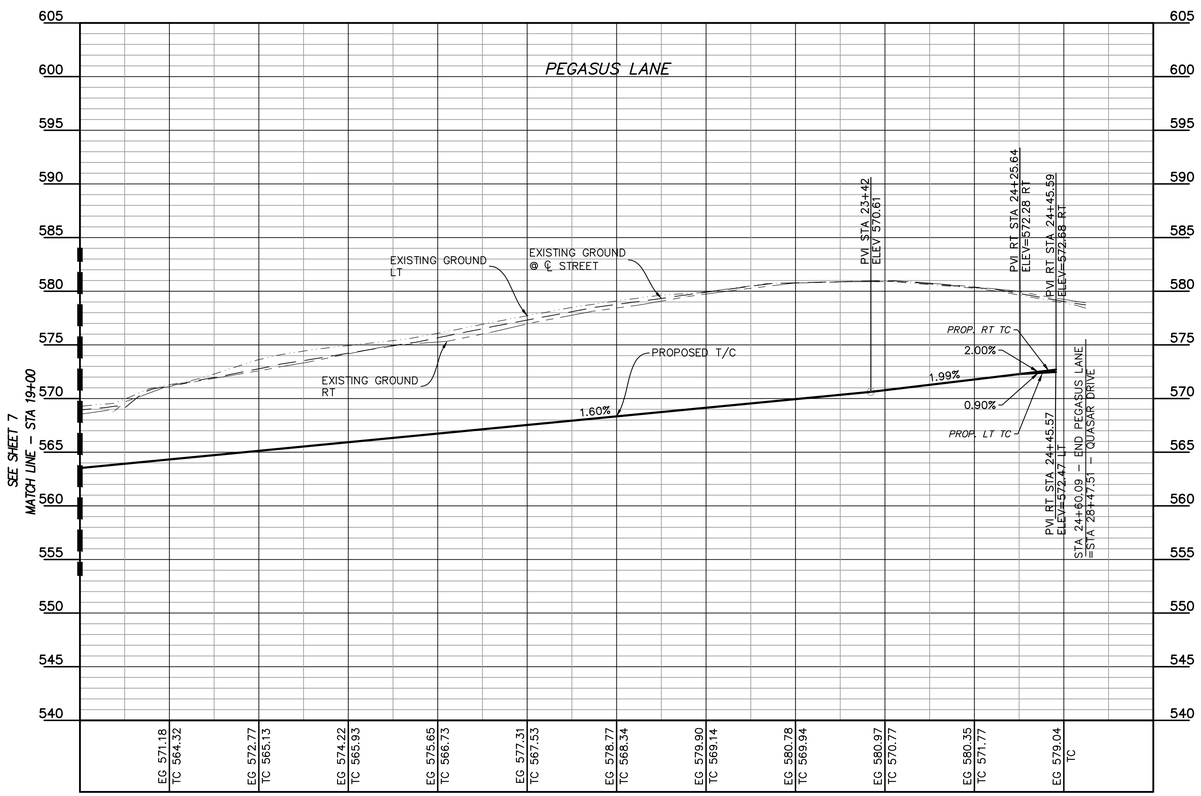


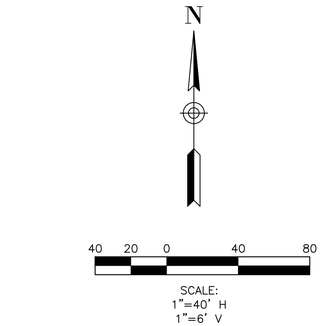
TYPICAL PAVING SECTION (50' R.O.W.)

NOT TO SCALE

NOTE:
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2) LOCATE JOINTS PER CITY OF ROCKWALL STANDARDS.







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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

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

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)

STATE OF TEXAS
DAYTON C. MACATEE
65028
REGISTERED
PROFESSIONAL ENGINEER

11/29/2023

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

RECORD DRAWINGS

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NOVEMBER 29, 2023

Dayton C. Macatee, P.E. – Macatee Engineering, L.L.C. (Tx. Reg. No. F-456) Date
12655 N. Central Expy Suite 420, Dallas, Texas 75243 ~ Tel: 214-373-1180

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"
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PEGASUS LANE

PAVING PLAN & PROFILE

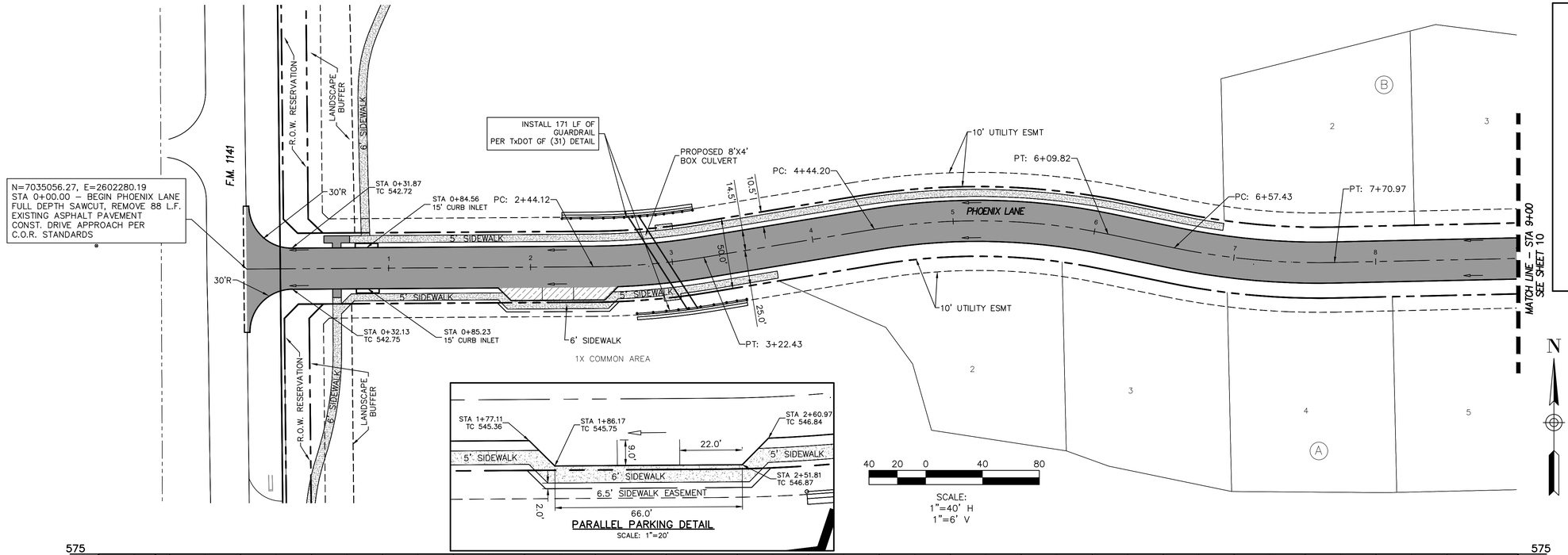
WINDING CREEK

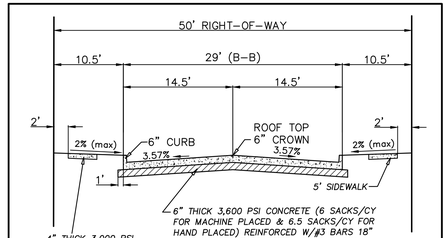
CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

MACATEE CIVIL ENGINEERING

CIVIL ENGINEERING DESIGN & CONSULTING
(Tex. Reg. No. F-456)
12655 N. CENTRAL EXPWY, SUITE 420
DALLAS, TEXAS 75243
TEL 214-373-1180 * FAX 214-373-6580
daytonm@macatee-engineering.com
phillipf@macatee-engineering.com

DESIGNED	CHECKED	DATE	DWG FILE	PROJECT #	SHEET NO.
BCP	SDA	11/29/2023	WC_Paving	SKO_WC	8 OF 53





TYPICAL PAVING SECTION (50' R.O.W.)

NOT TO SCALE

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LEGEND

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24.5'R	RADIUS
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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

VALLEY GUTTER

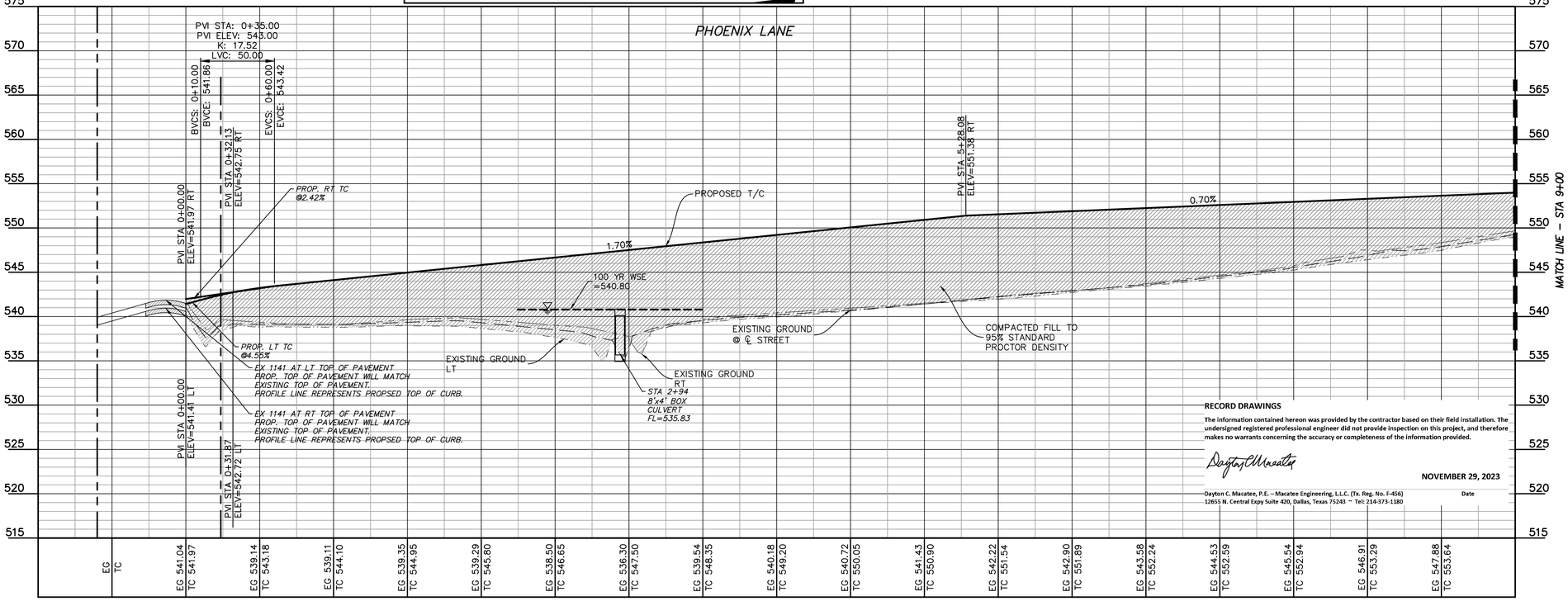
DIRECTION OF FLOW

CENTERLINE

ADA CROSSING (SEE ADA COMPLIANCE NOTE)

PROPOSED SIDEWALK (BY DEVELOPER, SEE SIDEWALK PLAN)

BFR PER CITY OF ROCKWALL STD DETAIL R-2125A



PROFILE LEGEND

- EX. GND AT LT R.O.W.
- EX. GND AT ℄ R.O.W.
- EX. GND AT RT R.O.W.
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RECORD DRAWINGS

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NOVEMBER 29, 2023

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12655 N. Central Expy Suite 420, Dallas, Texas 75243 ~ Tel: 214-373-1180

STATE OF TEXAS
DAYTON C. MACATEE
65028
REGISTERED
PROFESSIONAL ENGINEER
11/29/2023

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

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PHOENIX LANE

PAVING PLAN & PROFILE

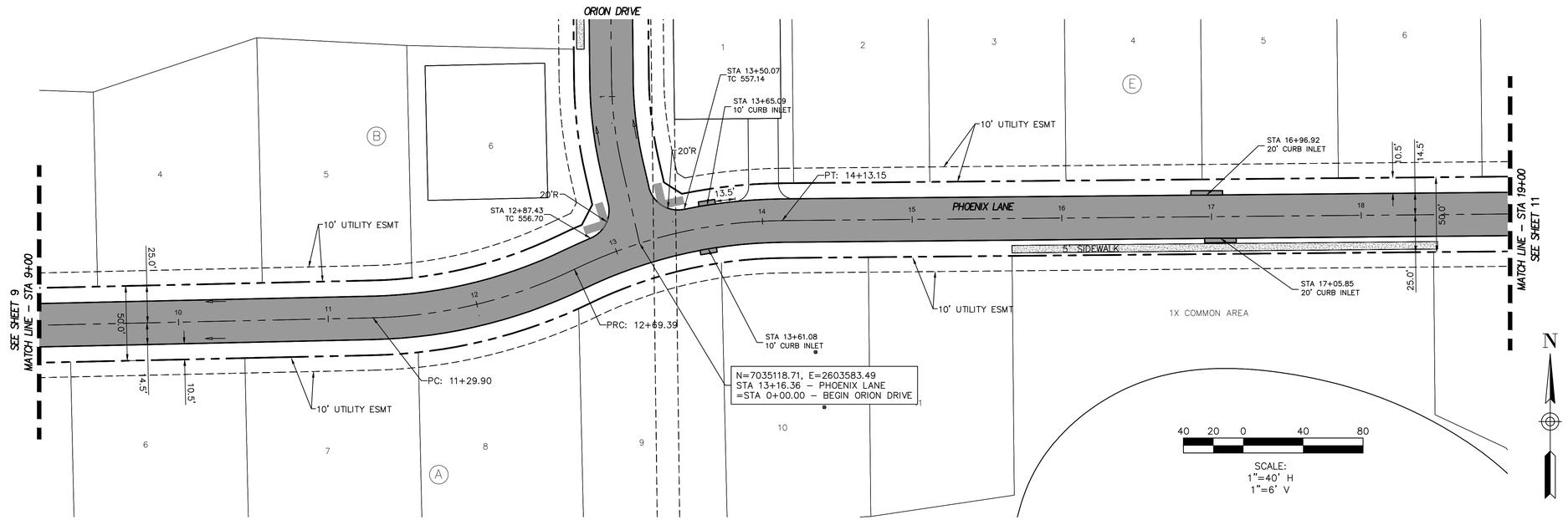
WINDING CREEK

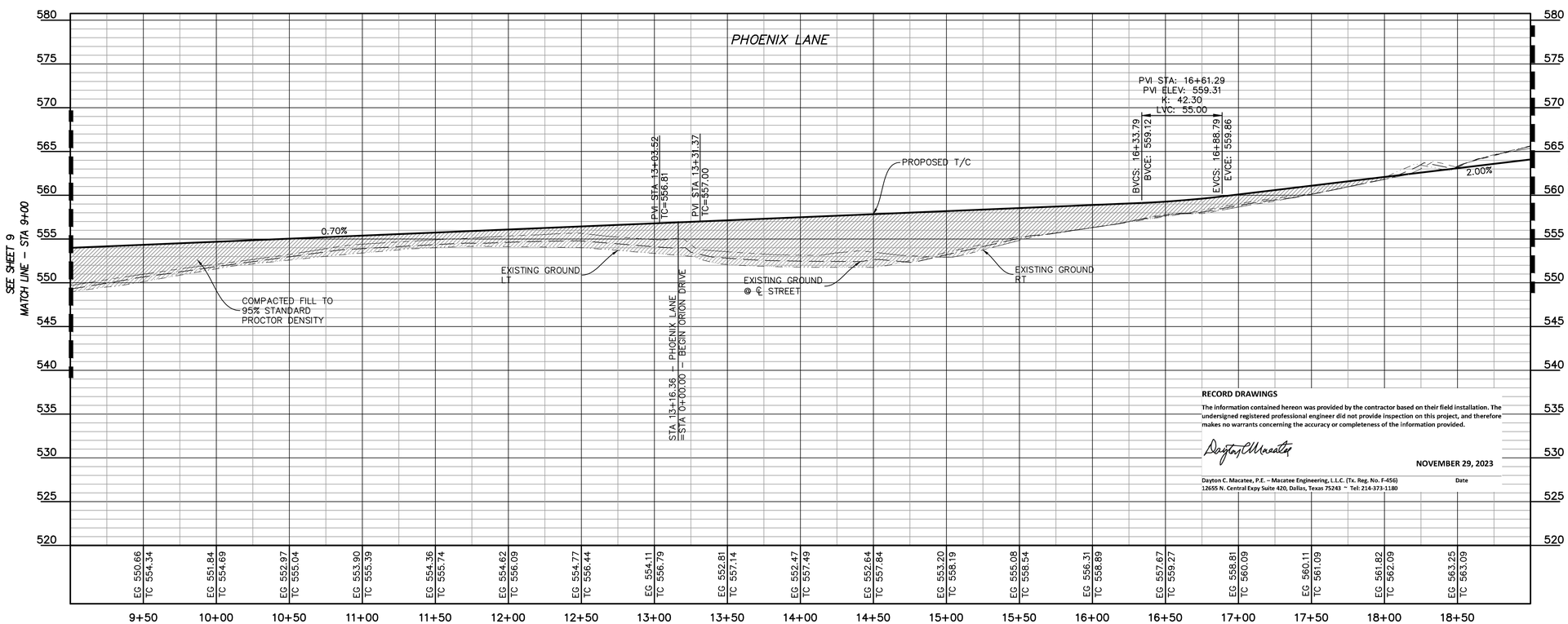
CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

MACATEE CIVIL ENGINEERING

CIVIL ENGINEERING DESIGN & CONSULTING
(Tex. Reg. No. F-456)
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DESIGNED	CHECKED	DATE	DWG FILE	PROJECT #	SHEET NO.
BCP	SDA	11/29/2023	WC_Paving	SKO_WC	9 OF 53





RECORD DRAWINGS

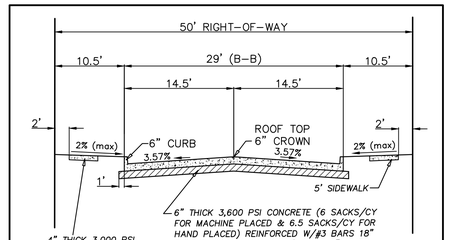
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TYPICAL PAVING SECTION (50' R.O.W.)

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CONST.	CONSTRUCT
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	PERPENDICULAR CURB RAMP PER TxDOT DETAIL PED-18

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

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)

STATE OF TEXAS
DAYTON C. MACATEE
65028
REGISTERED
PROFESSIONAL ENGINEER
11/29/2023

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

PHOENIX LANE

PAVING PLAN & PROFILE

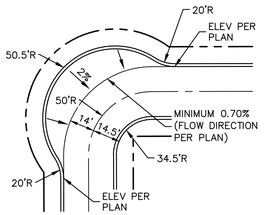
WINDING CREEK

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

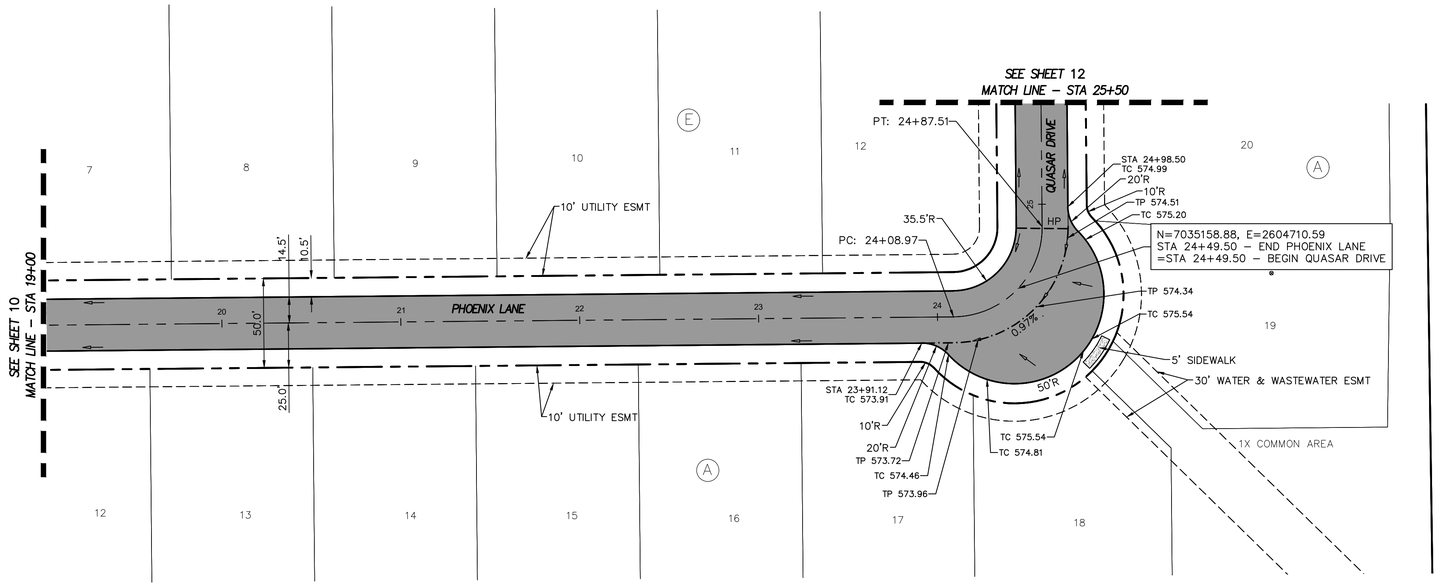
MACATEE CIVIL ENGINEERING

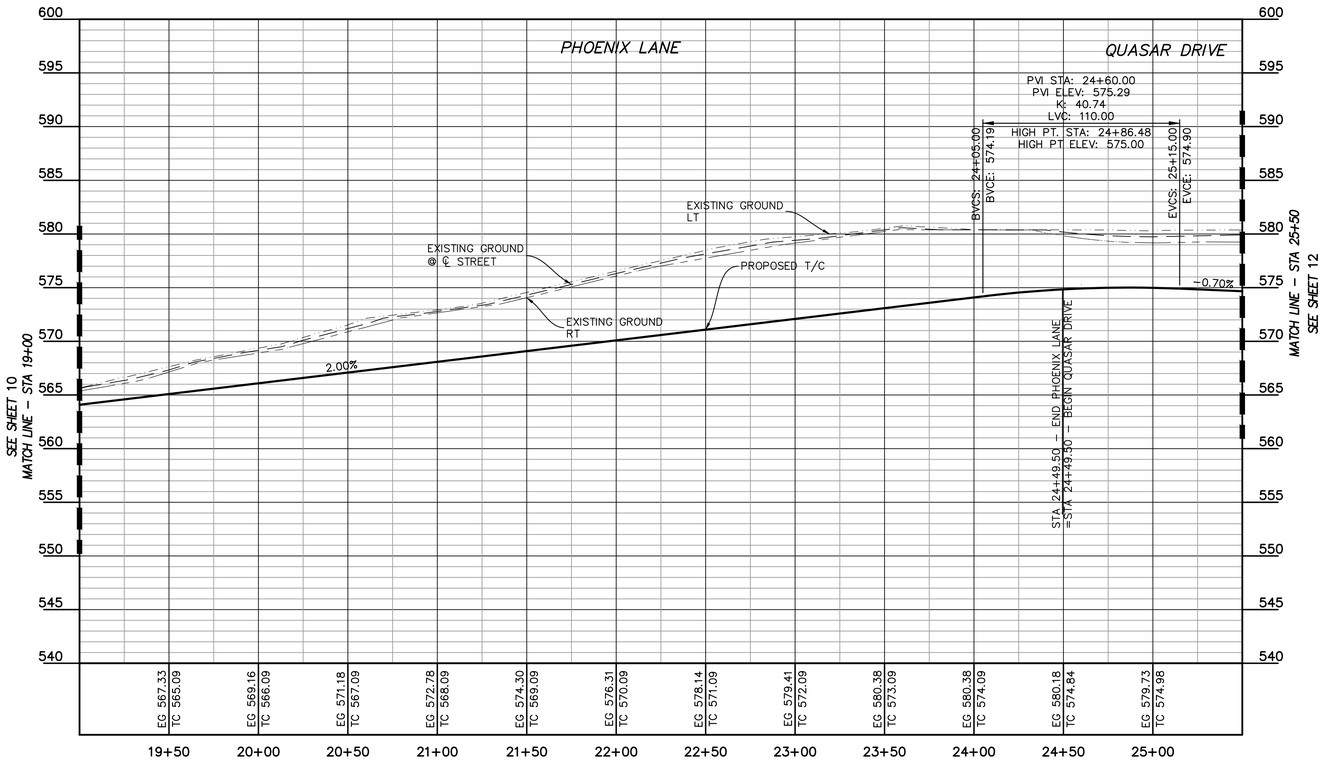
CIVIL ENGINEERING DESIGN & CONSULTING
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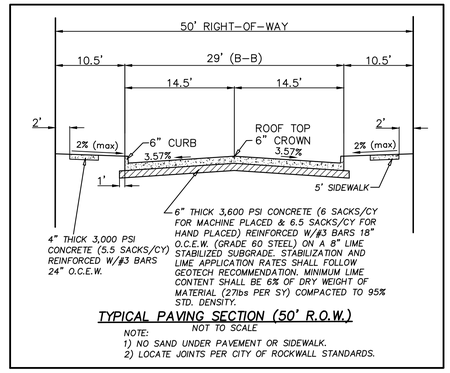
DESIGNED	CHECKED	DATE	DWG FILE	PROJECT #	SHEET NO.
BCP	SDA	11/29/2023	WC_Paving	SKO_WC	10 OF 53



TYPICAL KNUCKLE DETAIL
DIMENSION ARE TO BACK OF CURB

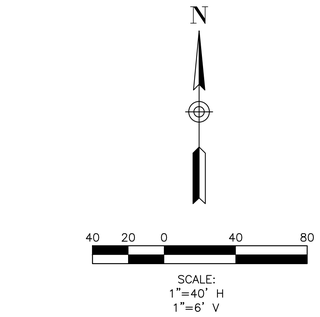






TYPICAL PAVING SECTION (50' R.O.W.)
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LEGEND

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CONST.	CONSTRUCT
℄	CENTERLINE
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	PERPENDICULAR CURB RAMP PER TxDOT DETAIL PED-18

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

PROFILE LEGEND

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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)

STATE OF TEXAS
DAYTON C. MACATEE
65028
REGISTERED
PROFESSIONAL ENGINEER

Dayton C Macatee 11/29/2023

PHOENIX LANE
QUASAR DRIVE

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

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Dayton C Macatee

NOVEMBER 29, 2023

Dayton C. Macatee, P.E. – Macatee Engineering, L.L.C. (Tx. Reg. No. F-456) Date
12655 N. Central Expy Suite 420, Dallas, Texas 75243 ~ Tel: 214-373-1180

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PAVING PLAN & PROFILE

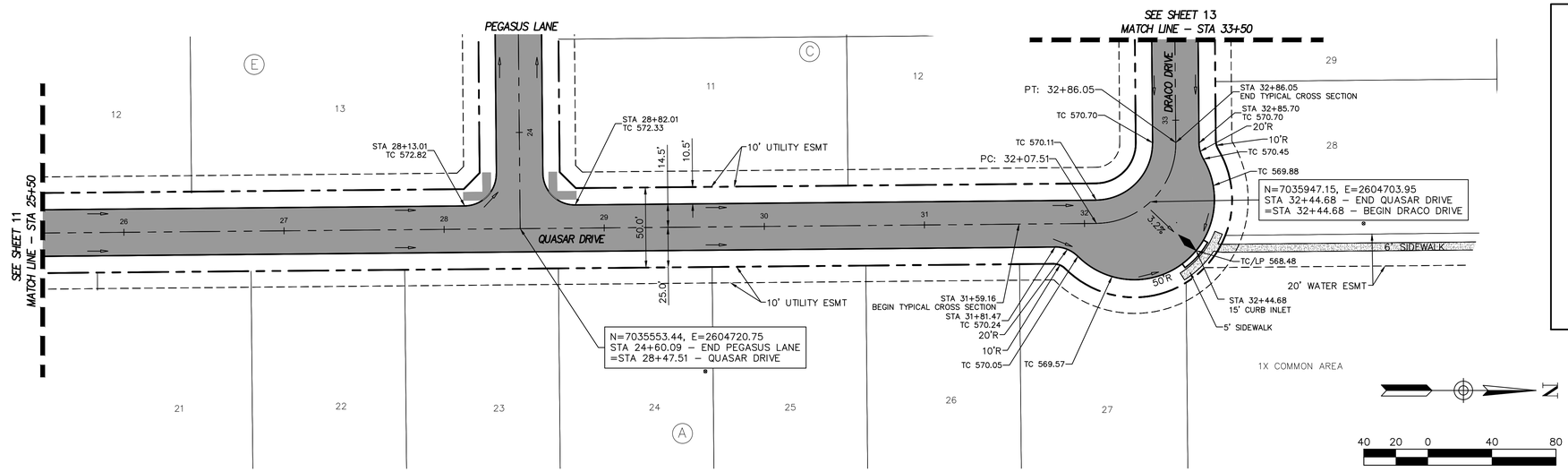
WINDING CREEK

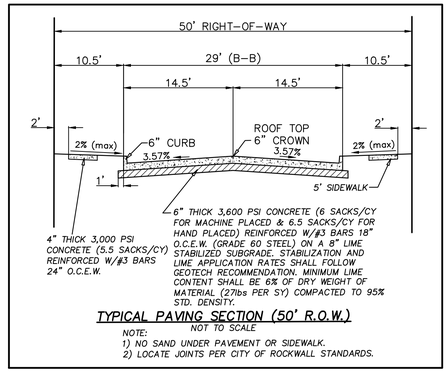
CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

MACATEE CIVIL ENGINEERING

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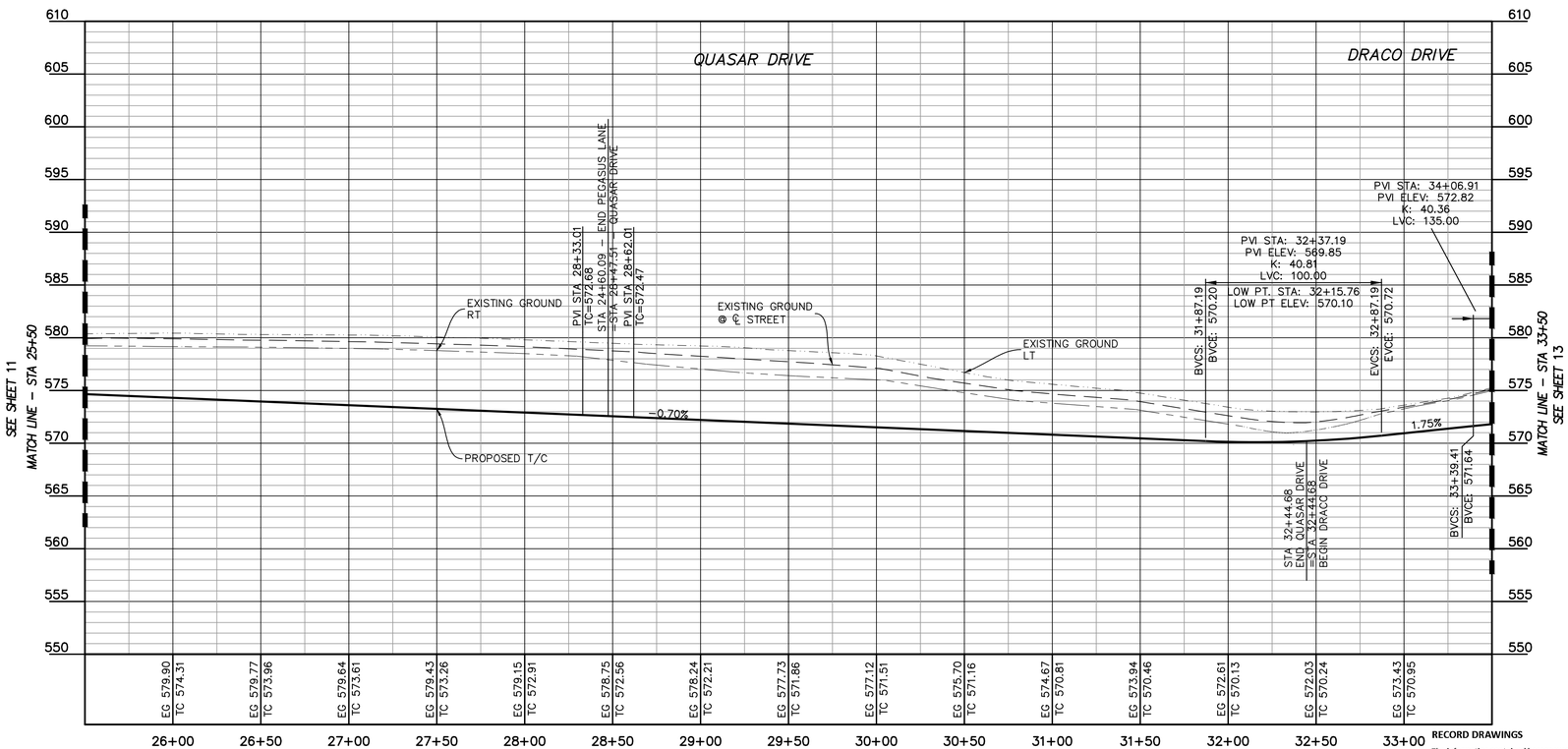




TYPICAL PAVING SECTION (50' R.O.W.)

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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
24.5'R	RADIUS	
PC	POINT OF CURVATURE	
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PROFILE LEGEND

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

QUASAR DRIVE
DRACO DRIVE

STATE OF TEXAS
DAYTON C. MACATEE
85028
REGISTERED
PROFESSIONAL ENGINEER

11/29/2023

DAYTON MACATEE
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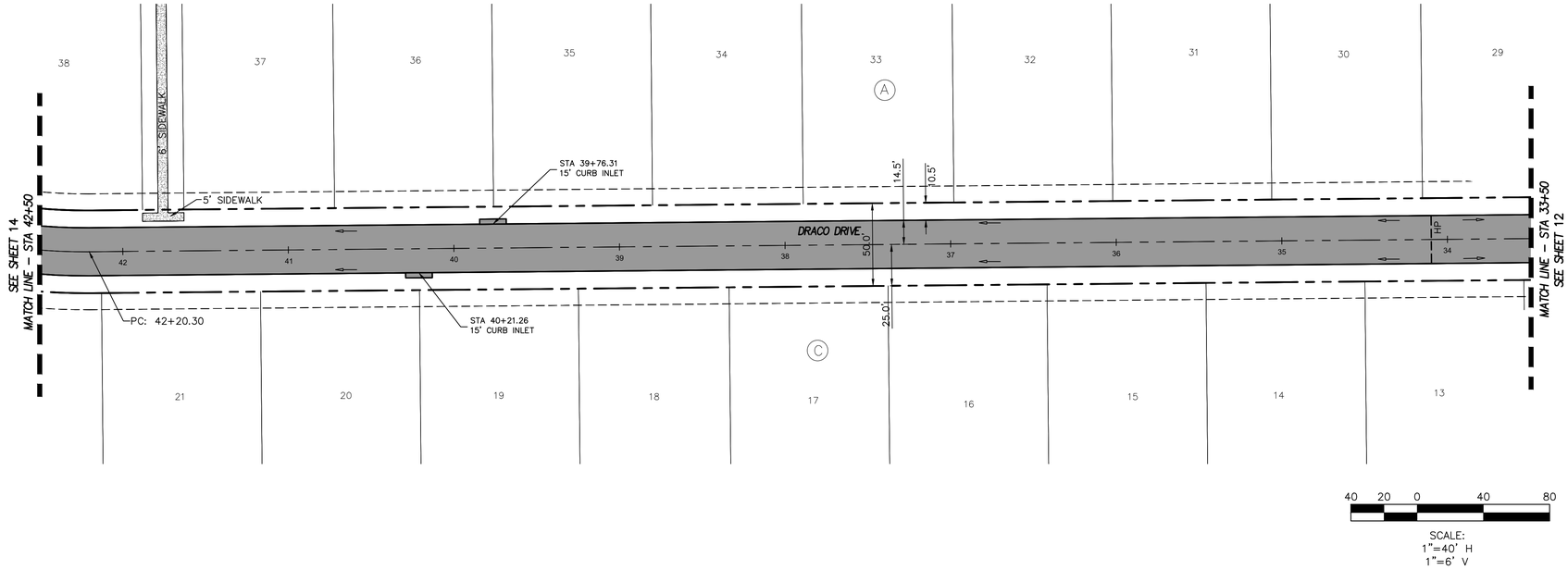
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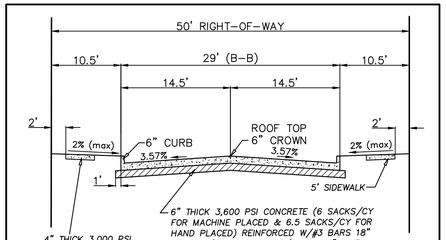
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MACATEE
CIVIL ENGINEERING

CIVIL ENGINEERING DESIGN & CONSULTING
(Tex. Reg. No. F-456)
12655 N. CENTRAL EXPWY, SUITE 420
DALLAS, TEXAS 75243
TEL 214-373-1180 * FAX 214-373-6580
daytonm@macatee-engineering.com
phillipf@macatee-engineering.com

DESIGNED	CHECKED	DATE	DWG FILE	PROJECT #	SHEET NO.
BCP	SDA	11/29/2023	WC_Paving	SKO_WC	12 OF 53





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.

GENERAL NOTES:

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

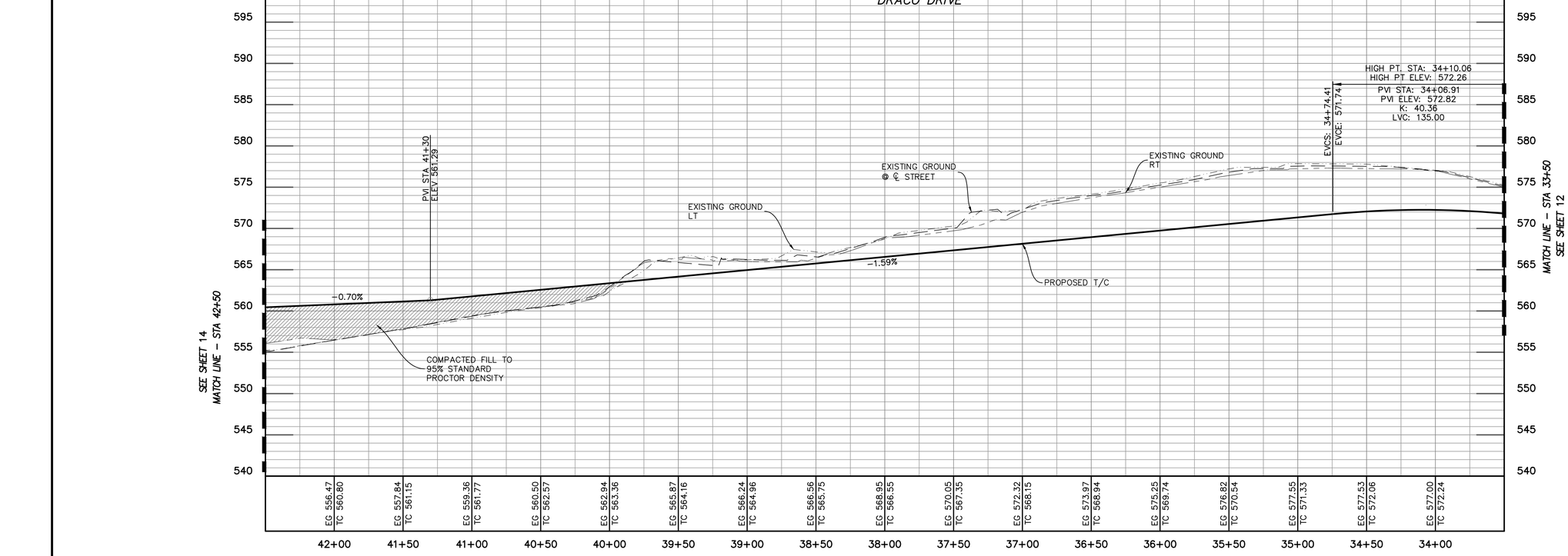
LEGEND

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

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

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 DRAWINGS

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Dayton C. Macatee

NOVEMBER 29, 2023

Dayton C. Macatee, P.E. – Macatee Engineering, L.L.C. (Tx. Reg. No. F-456) — Date
12655 N. Central Expy Suite 420, Dallas, Texas 75243 ~ Tel: 214-373-1180

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

Dayton C Macatee
11/29/2023

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

DRACO DRIVE

PAVING PLAN & PROFILE

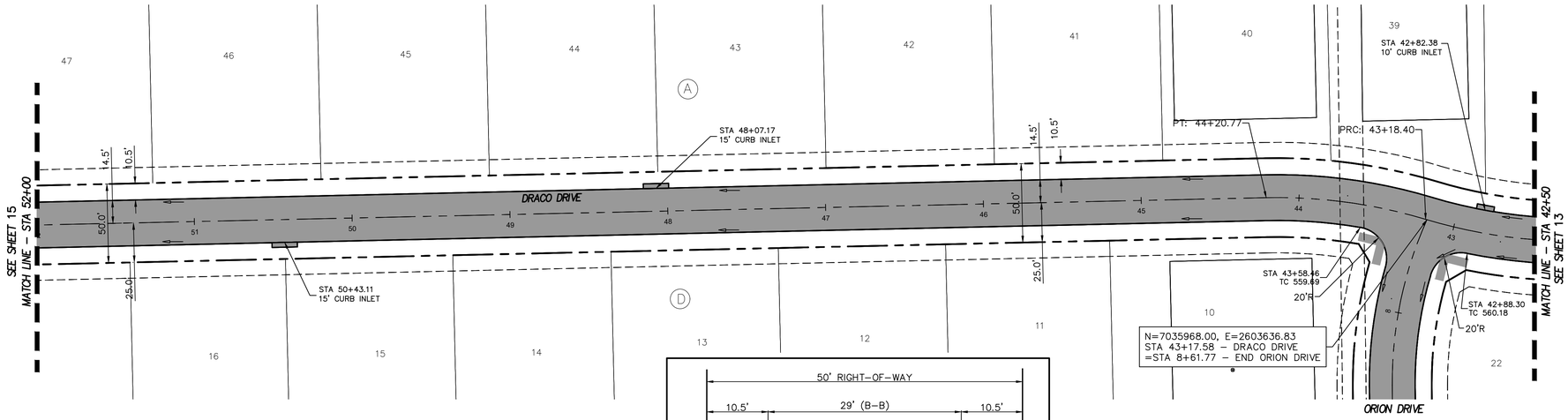
WINDING CREEK

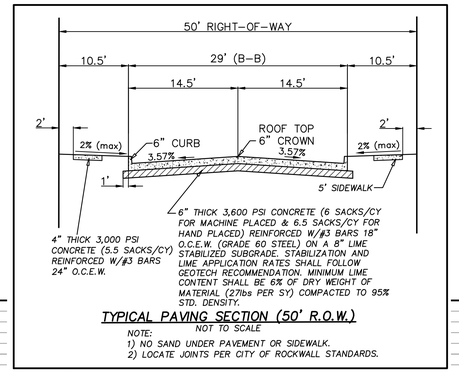
CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

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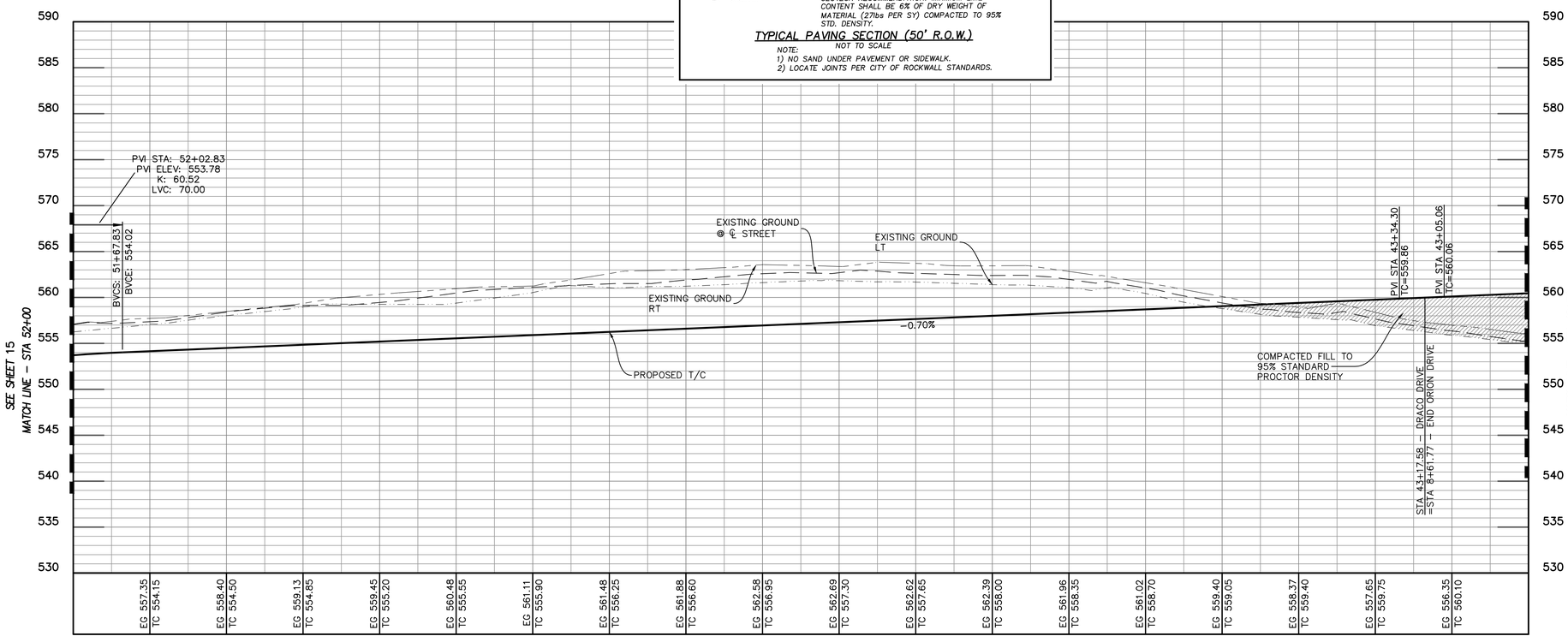




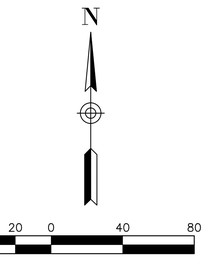
TYPICAL PAVING SECTION (50' R.O.W.)

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DRACO DRIVE



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	PERPENDICULAR CURB RAMP PER TXDOT DETAIL PED-18

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

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)

STATE OF TEXAS
DAYTON C. MACATEE
65028
REGISTERED
PROFESSIONAL ENGINEER

11/29/2023

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

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PAVING PLAN & PROFILE

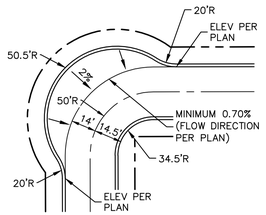
WINDING CREEK

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

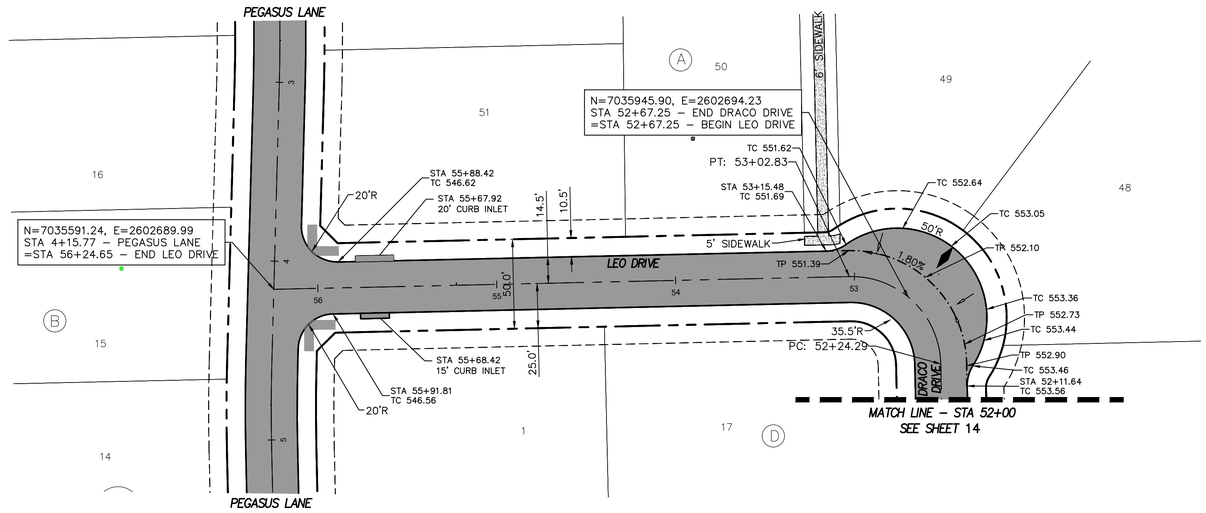
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CIVIL ENGINEERING

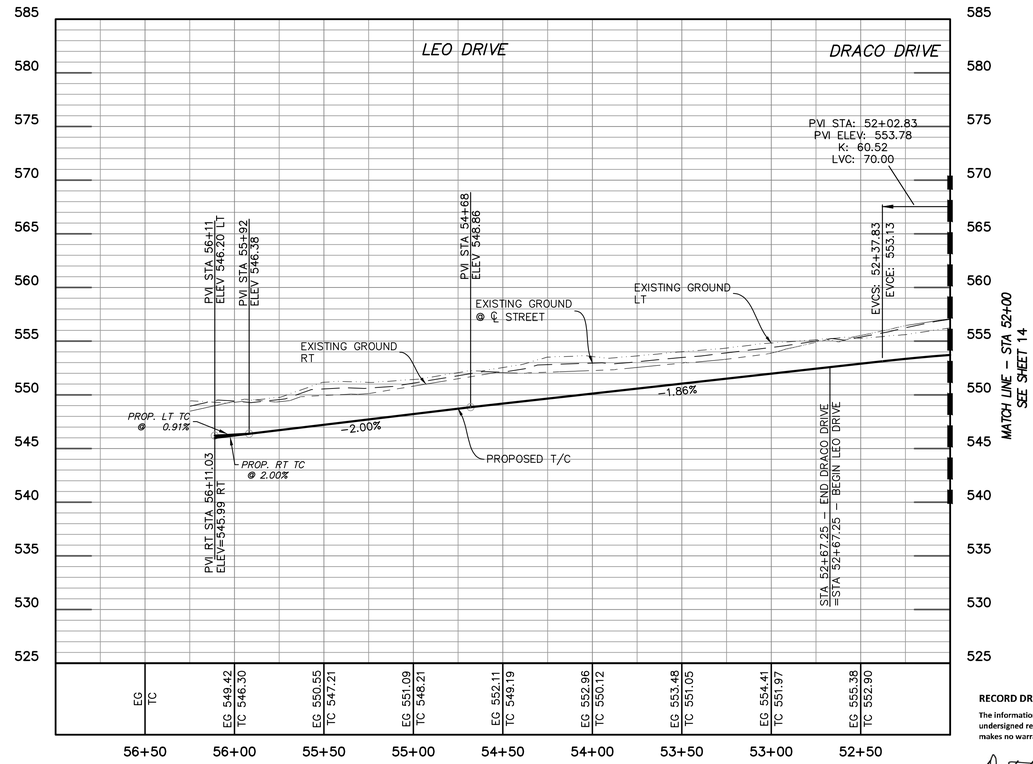
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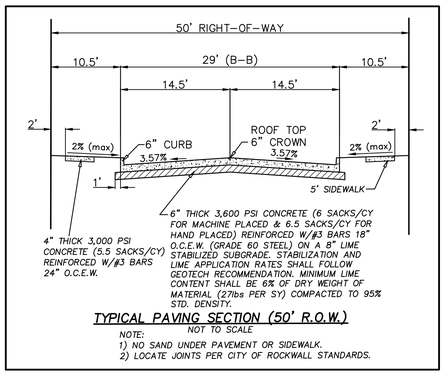
DESIGNED	CHECKED	DATE	DWG FILE	PROJECT #	SHEET NO.
BCP	SDA	11/29/2023	WC_Paving	SKO_WC	14 OF 53



TYPICAL KNUCKLE DETAIL
DIMENSIONS ARE TO BACK OF CURB

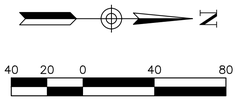






TYPICAL PAVING SECTION (50' R.O.W.)
NOT TO SCALE

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

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	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

PROFILE LEGEND

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STATE OF TEXAS
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65028
REGISTERED
PROFESSIONAL ENGINEER

DRACO DRIVE
LEO DRIVE

11/29/2023

DAYTON MACATEE
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TX. REG. NO. F-456

PAVING PLAN & PROFILE

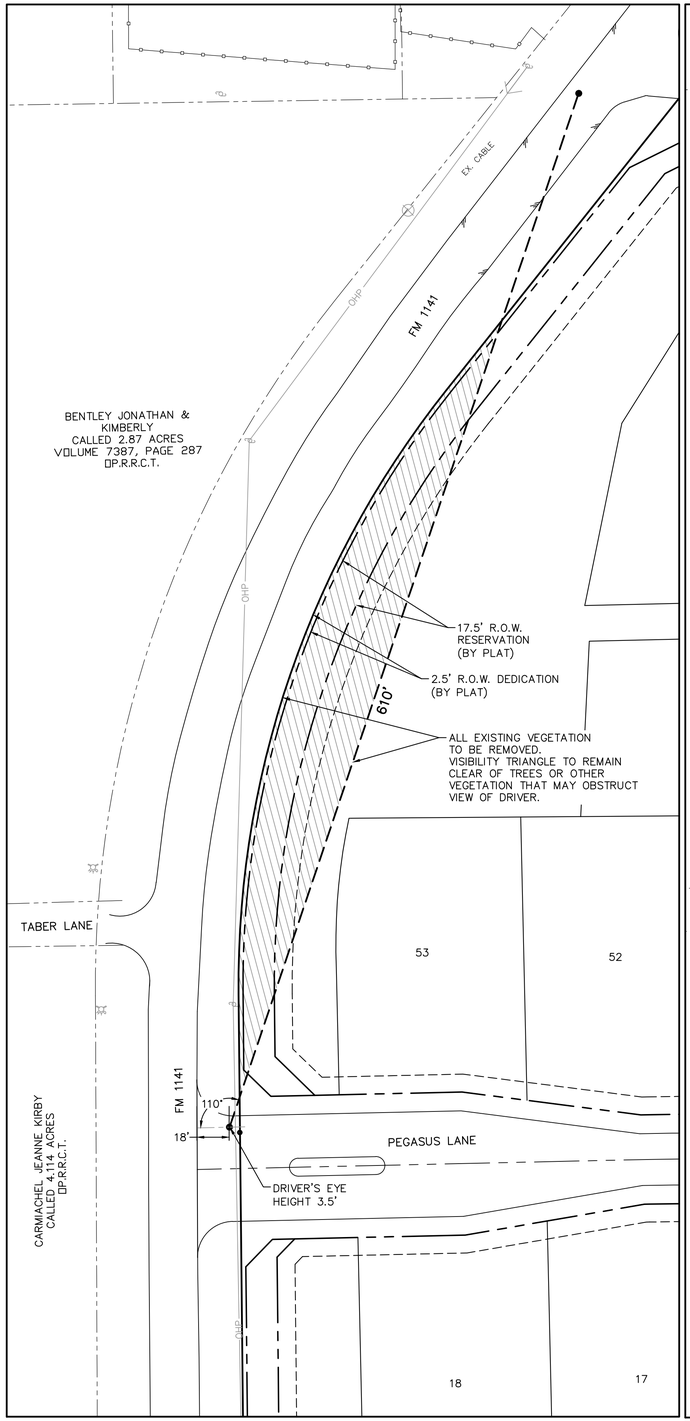
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CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

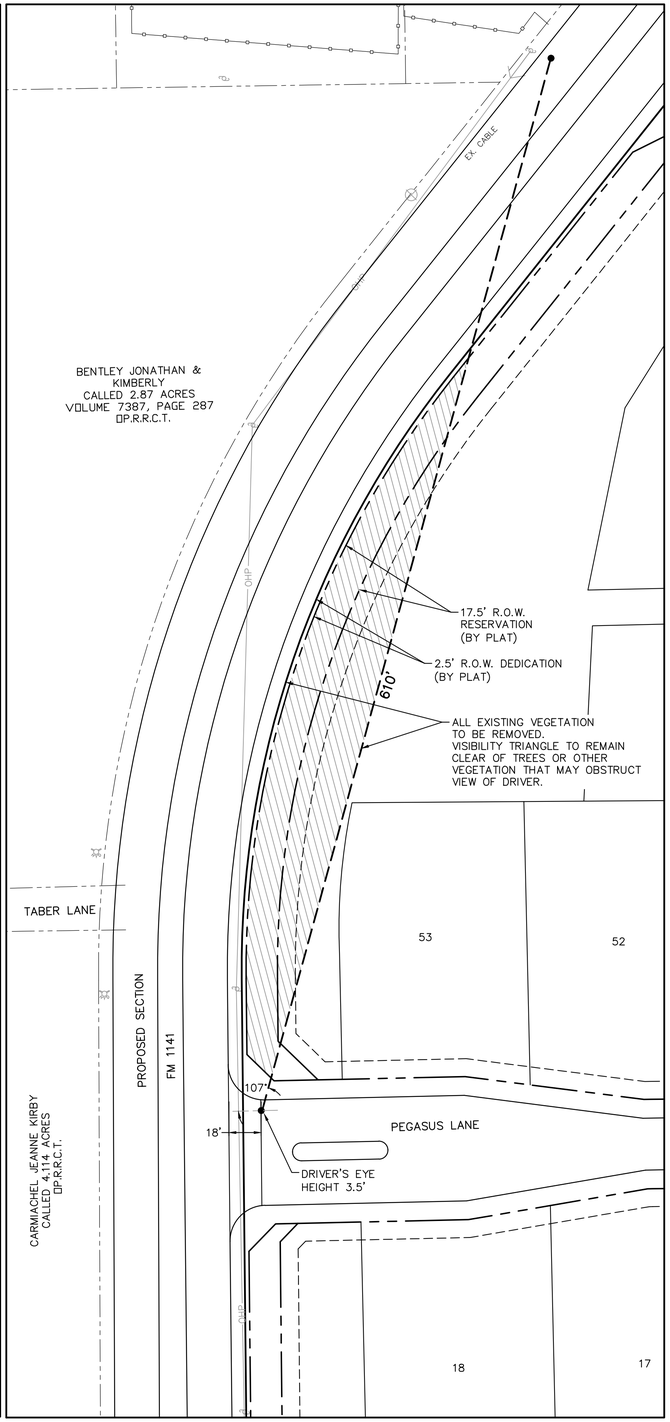
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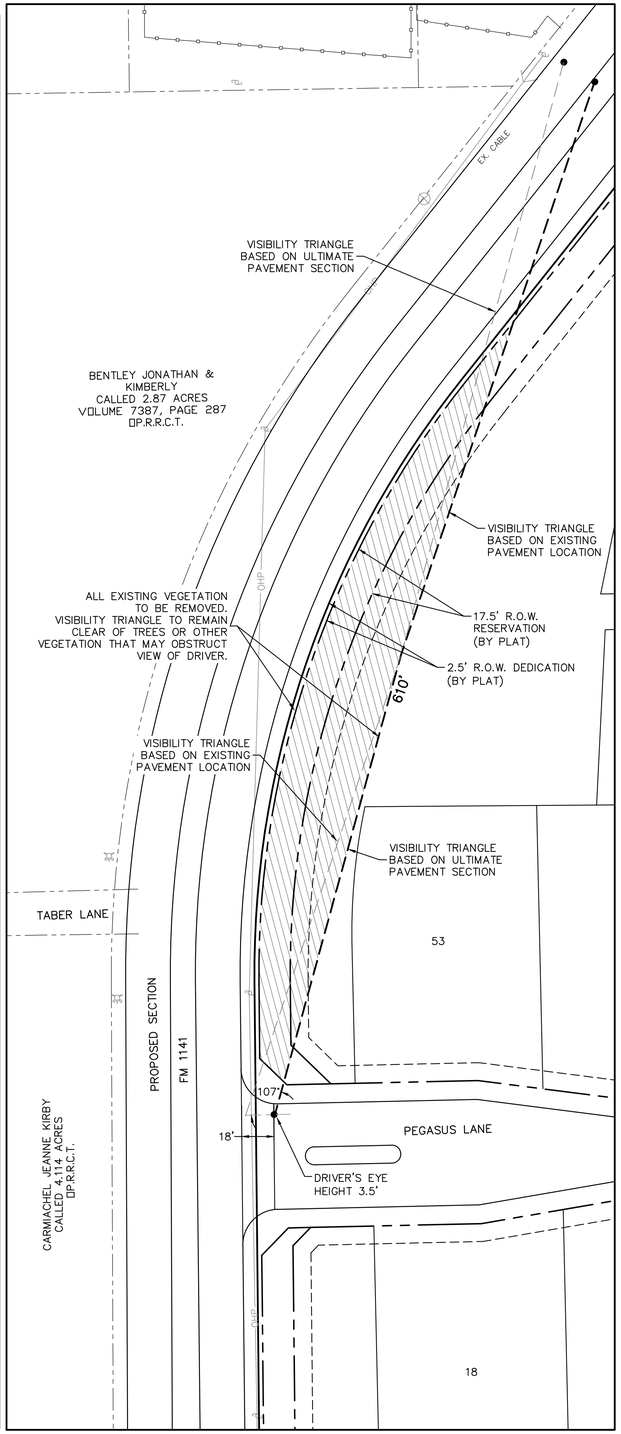
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BCP	SDA	11/29/2023	WC_Paving	SKO_WC	15 OF 53



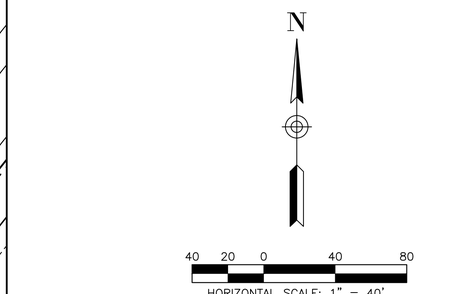
SIGHT TRIANGLE BASED ON EXISTING PAVEMENT LOCATION



SIGHT TRIANGLE BASED ON ULTIMATE PAVEMENT SECTION



FINAL VISIBILITY TRIANGLE



MINOR ARTERIAL DIVIDED 4-LANE
M4D

ULTIMATE PAVEMENT SECTION

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11/29/2023
DAYTON MACATEE
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SIGHT TRIANGLE EXHIBIT

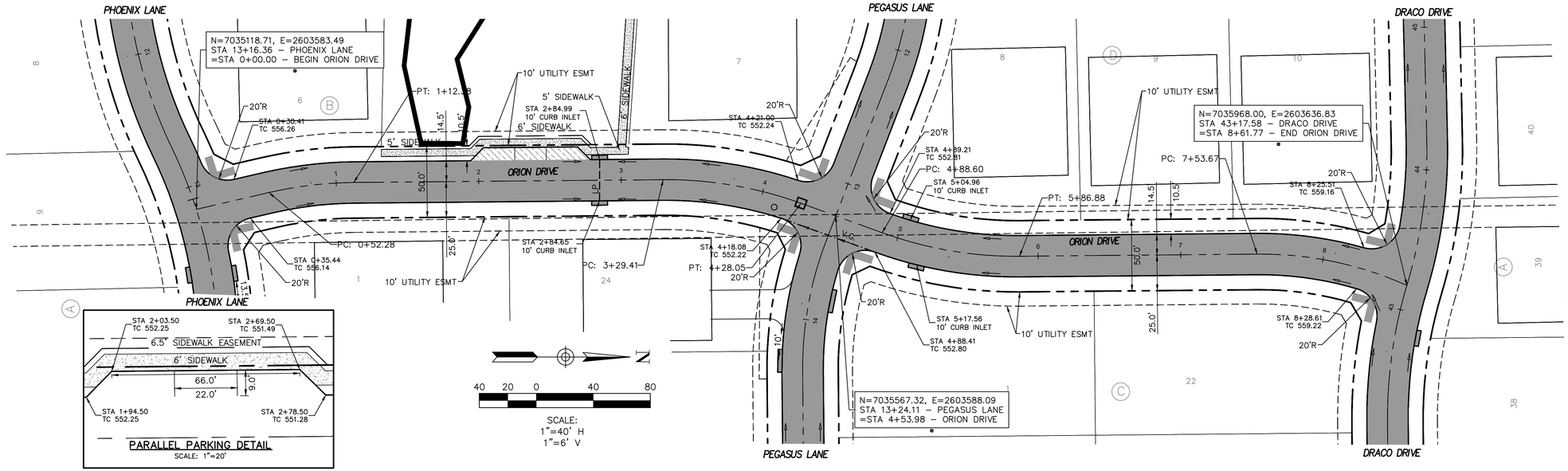
WINDING CREEK

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

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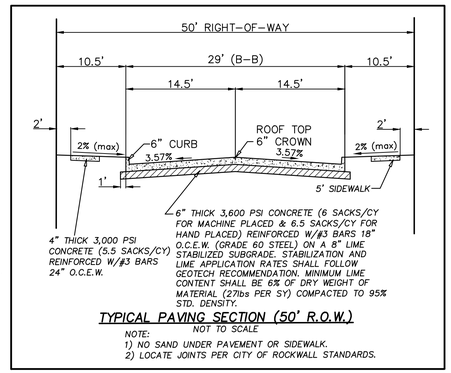
DESIGNED	CHECKED	DATE	DWG FILE	PROJECT #	SHEET NO.
		11/29/2023	TIA Exhibit – 04-29-22	SKO_WC	16A OF 53



PARALLEL PARKING DETAIL

SCALE: 1"=20'

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



TYPICAL PAVING SECTION (50' R.O.W.)

NOT TO SCALE

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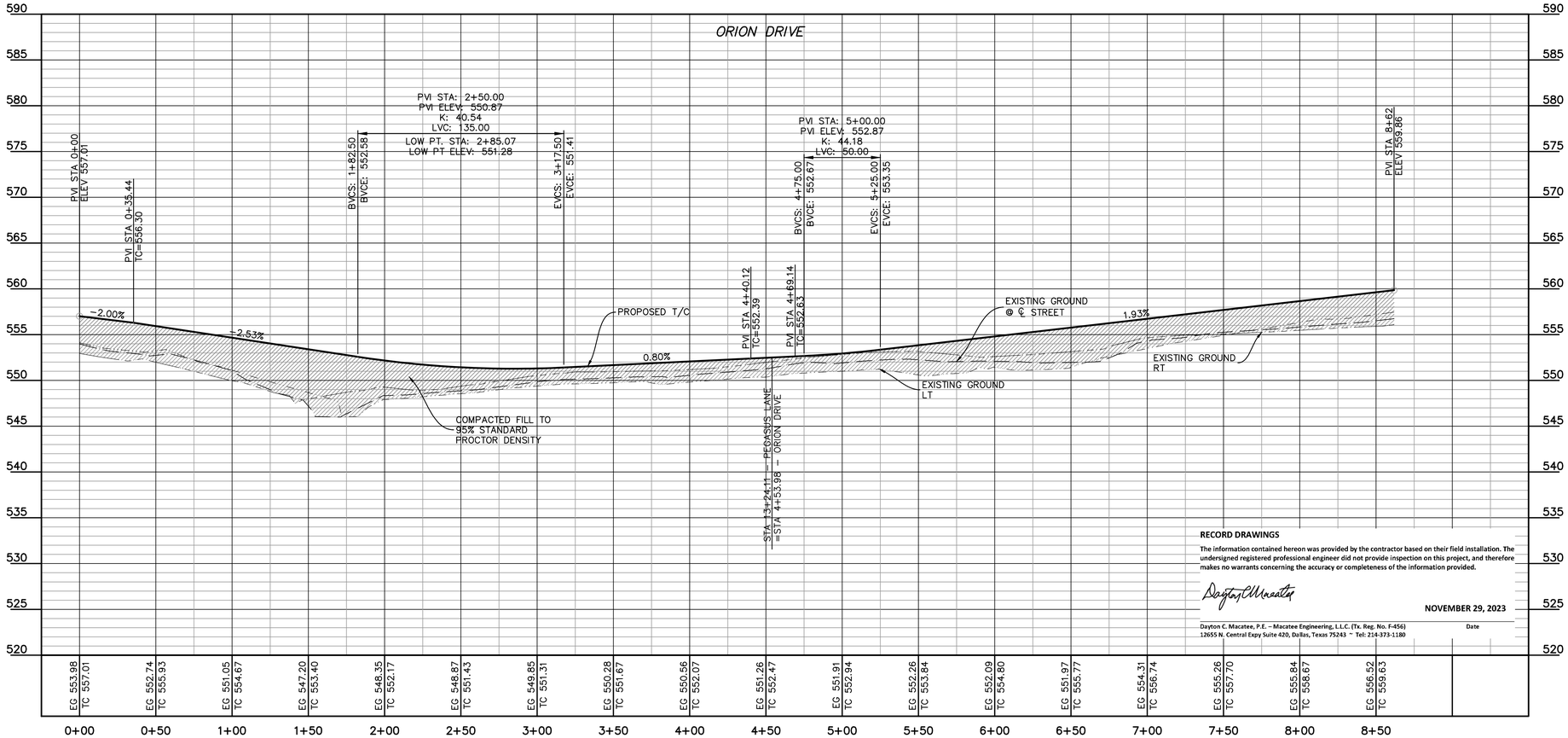
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DIRECTION OF FLOW

CENTERLINE

ADA CROSSING (SEE ADA COMPLIANCE NOTE)

PROPOSED SIDEWALK (BY DEVELOPER, SEE SIDEWALK PLAN)

BFR PER CITY OF ROCKWALL STD DETAIL R-2125A

PROFILE LEGEND

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COMPACTED FILL PER GEOTECH RECOMMENDATIONS. (MIN 95% STD. DENSITY)

STATE OF TEXAS
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65028
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11/29/2023

ORION DRIVE

DAYTON MACATEE ENGINEERING, LLC
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PAVING PLAN & PROFILE

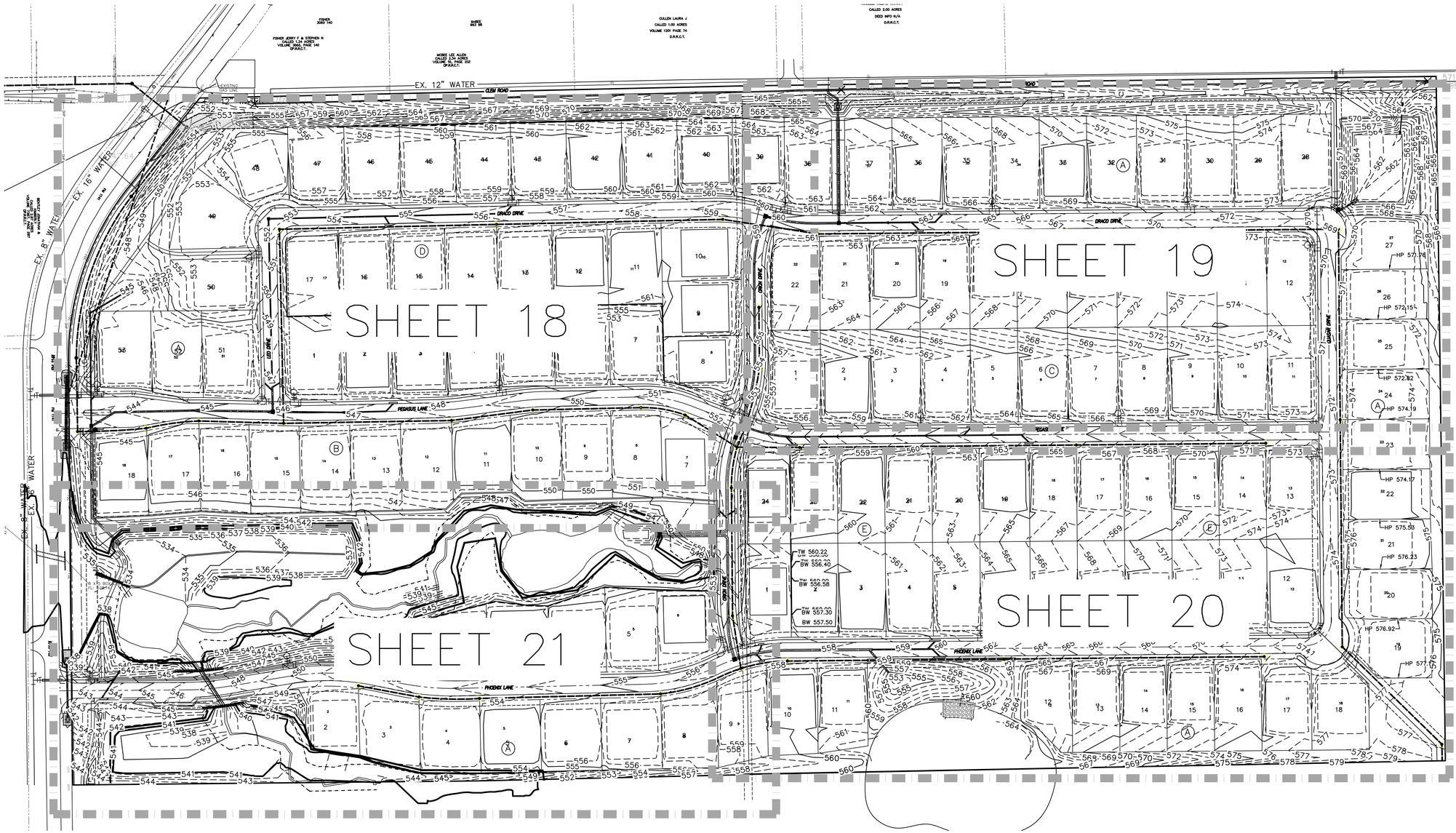
WINDING CREEK

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

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N

100 50 0 100 200

SCALE: 1"=100'

FINAL FINISHED FLOOR ELEVATIONS SHALL BE A MINIMUM OF 6" 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

1. All Earthwork shall be performed in accordance with the Geotechnical Investigation prepared by Terradyne, dated August 24, 2021. 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
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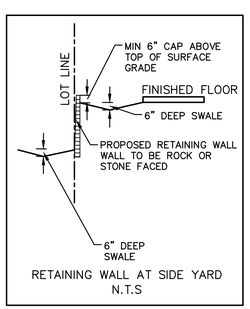
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RETAINING WALL AT SIDE YARD
N.T.S

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
	EROSION HAZARD SETBACK
FACE OF WALL	PROPOSED RETAINING WALL
	EMERGENCY OVERFLOW ROUTE

RECORD DRAWINGS

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NOVEMBER 29, 2023

Dayton C. Macatee, P.E. – Macatee Engineering, L.L.C. (Tx. Reg. No. F-456) **Date**
12655 N. Central Expy Suite 420, Dallas, Texas 75243 ~ Tel: 214-373-1180

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

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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STATE OF TEXAS
DAYTON C. MACATEE
65028
REGISTERED PROFESSIONAL ENGINEER
11/29/2023

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

GRADING KEY MAP

WINDING CREEK

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

MACATEE
CIVIL ENGINEERING

CIVIL ENGINEERING
DESIGN & CONSULTING
(Tex. Reg. No. F-456)
12655 N. CENTRAL EXPWY, SUITE 420
DALLAS, TEXAS 75243
TEL 214-373-1180 * FAX 214-373-6580
daytonm@macatee-engineering.com
phillipf@macatee-engineering.com

DESIGNED	CHECKED	DATE	DWG FILE	PROJECT #	SHEET NO.
BCP	SDA	11/29/2023	WC Grading	SKO_WC	17 OF 53

THERE ARE NO DROP GARAGES REQUIRED FOR THIS DEVELOPMENT

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MIN 6" CAP ABOVE TOP OF SURFACE GRADE
FINISHED FLOOR
6" DEEP SWALE
PROPOSED RETAINING WALL TO BE ROCK OR STONE FACED
LOT LINE
6" DEEP SWALE
RETAINING WALL AT SIDE YARD
N.T.S

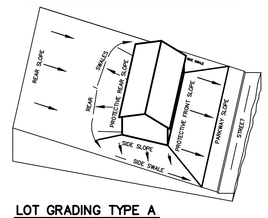
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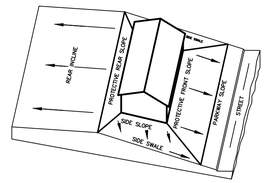
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UNLESS OTHERWISE NOTED, ALL WALLS END AT 6" HEIGHT & THE ELEVATION SHOWN IS THE BOTTOM OF WALL ELEVATION



LOT GRADING TYPE A
ALL DRAINAGE TO STREET



LOT GRADING TYPE B
DRAINAGE TO STREET & REAR LOT LINE

STATE OF TEXAS
DAYTON C. MACATEE
85028
REGISTERED PROFESSIONAL ENGINEER
11/29/2023
DAYTON MACATEE ENGINEERING, LLC
TX. REG. NO. F-456

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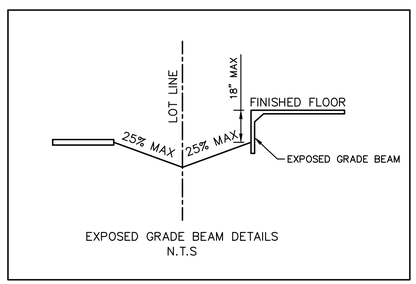
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EXPOSED GRADE BEAM DETAILS
N.T.S

LEGEND

548	EXISTING 1 FOOT CONTOUR INTERVAL
550	EXISTING 5 FOOT CONTOUR INTERVAL
548	PROPOSED 1 FOOT CONTOUR INTERVAL
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FP	FINISHED PAD
TW	TOP OF WALL
BW	BOTTOM OF WALL
INV	INVERT
	DIRECTION OF FLOW
GB	EXPOSED GRADE BEAM
FACE OF WALL	PROPOSED RETAINING WALL
	EMERGENCY OVERFLOW ROUTE

RECORD DRAWINGS

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NOVEMBER 29, 2023

Dayton C. Macatee, P.E. – Macatee Engineering, L.L.C. (Tx. Reg. No. F-456) **Date**
12655 N. Central Expy Suite 420, Dallas, Texas 75243 – Tel: 214-373-1180

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GRADING PLAN

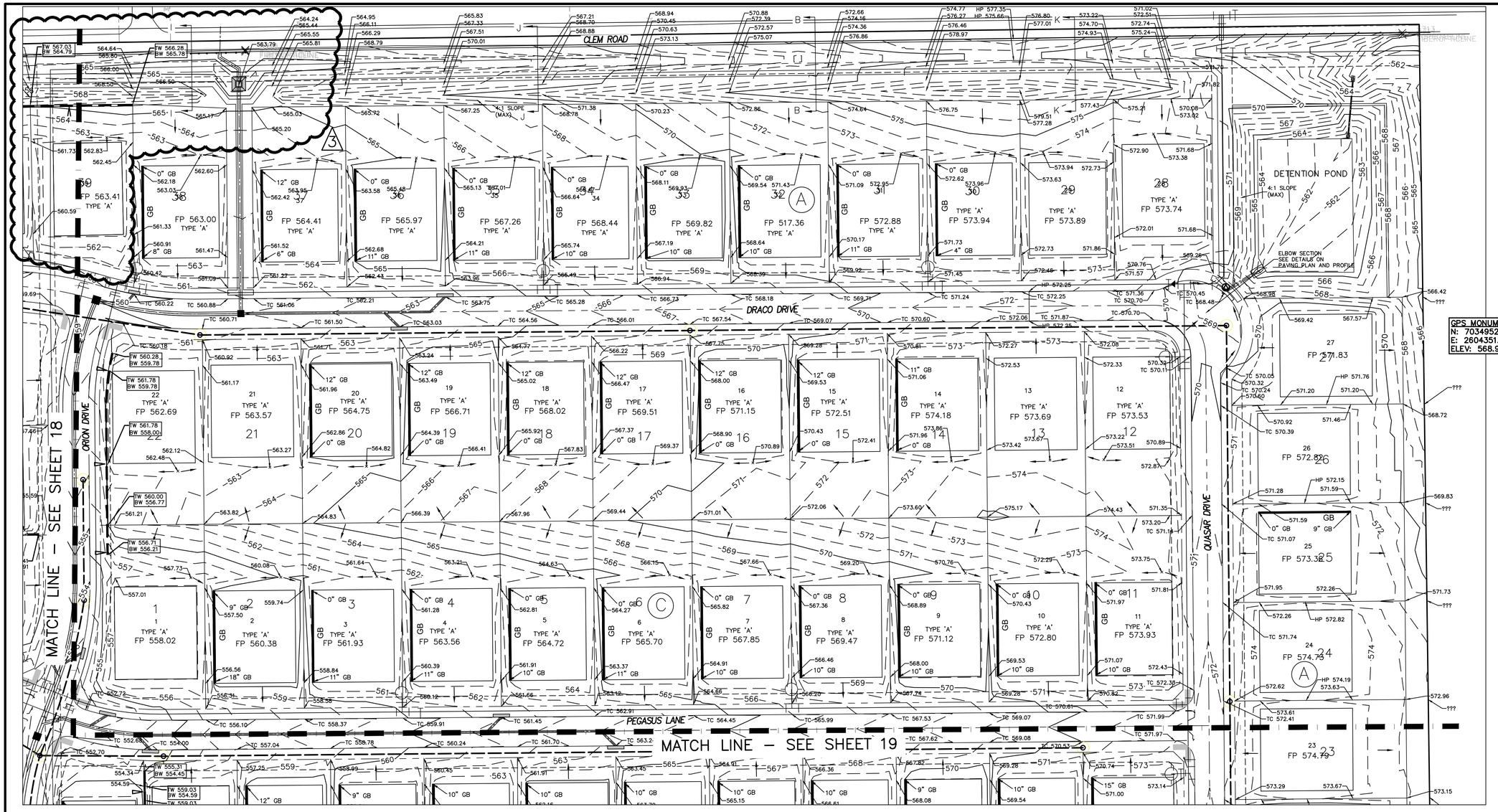
WINDING CREEK

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

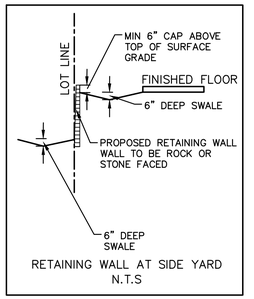
MACATEE CIVIL ENGINEERING

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12655 N. CENTRAL EXPWY, SUITE 420
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DESIGNED	CHECKED	DATE	DWG FILE	PROJECT #	SHEET NO.
BCP	SDA	11/29/2023	WC Grading	SKO_WC	18 OF 53



N



RETAINING WALL AT SIDE YARD
N.T.S

50 25 0 50 100

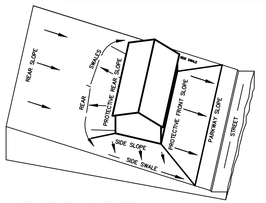
SCALE: 1"=50'

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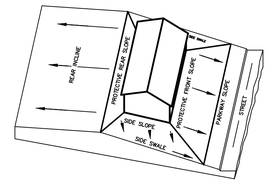
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GPS MONUMENT
N: 7034952.34
E: 2604351.58
ELEV: 568.95



LOT GRADING TYPE A
ALL DRAINAGE TO STREET



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DRAINAGE TO STREET & REAR LOT LINE

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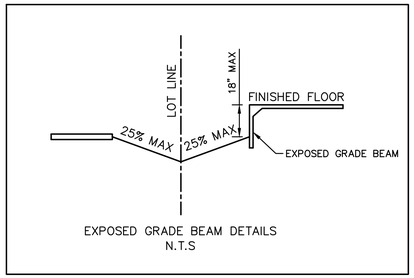
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N.T.S

LEGEND

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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
GB	EXPOSED GRADE BEAM
FACE OF WALL	PROPOSED RETAINING WALL
	EMERGENCY OVERFLOW ROUTE

THERE ARE NO DROP GARAGES REQUIRED FOR THIS DEVELOPMENT

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NOVEMBER 29, 2023

Dayton C. Macatee, P.E. – Macatee Engineering, L.L.C. (Tx. Reg. No. F-456) Date
12655 N. Central Expy Suite 420, Dallas, Texas 75243 ~ Tel: 214-373-1180

REV	BY	DATE	COMMENT
1	PJF	08/22	REVISED RIP-RAP QUANTITY
2	PJF		REVISED FOR FLEXAMAT PLUS
3	NCL	10/25/22	REVISED FOR EXIST. WATER

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
11/29/2023

DAYTON MACATEE
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CITY OF ROCKWALL MONUMENT "COR-2"
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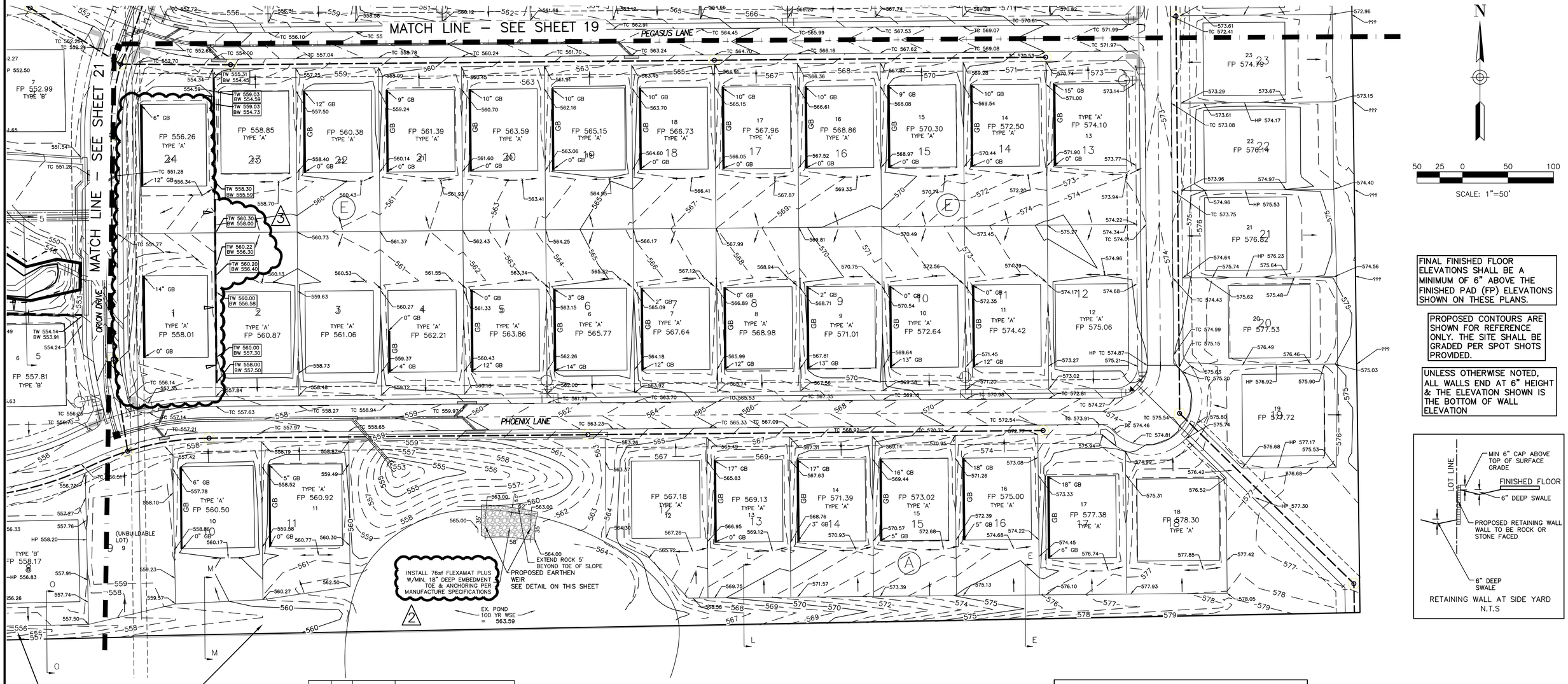
WINDING CREEK

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

MACATEE CIVIL ENGINEERING

CIVIL ENGINEERING DESIGN & CONSULTING
(Tex. Reg. No. F-456)
12655 N. CENTRAL EXPWY, SUITE 420
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DESIGNED	CHECKED	DATE	DWG FILE	PROJECT #	SHEET NO.
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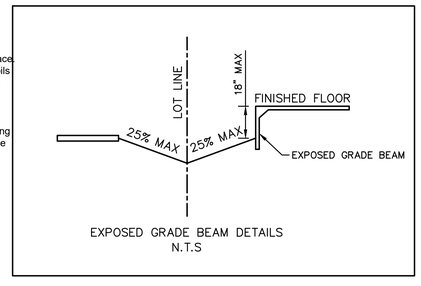
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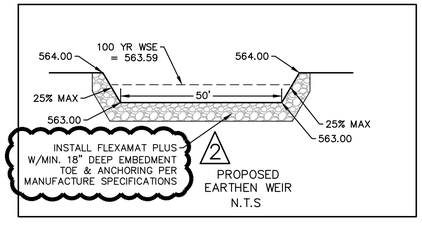
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N.T.S

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11/29/2023
DAYTON MACATEE
ENGINEERING, LLC
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GRADING PLAN

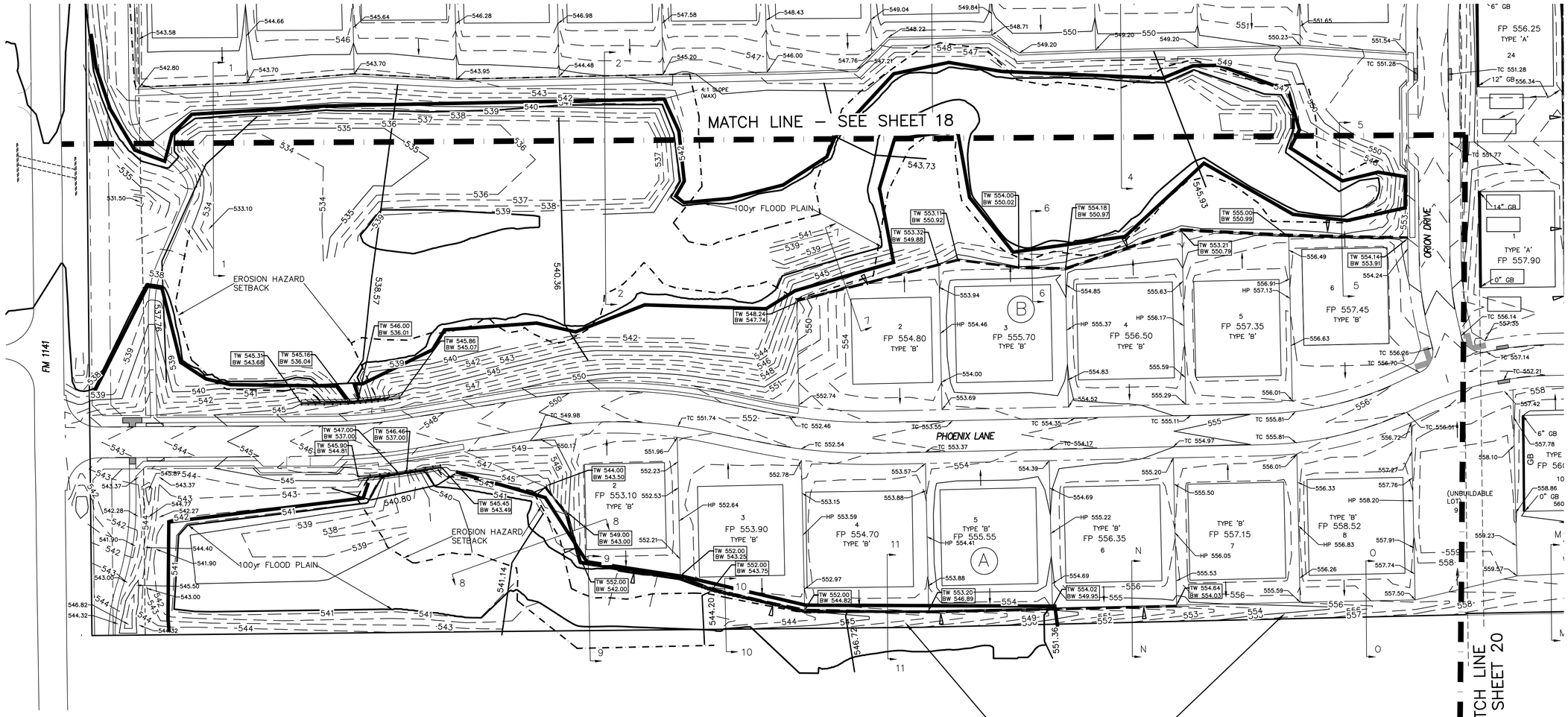
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MACATEE
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N

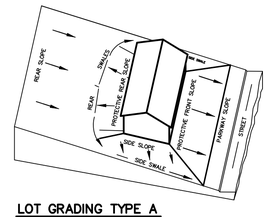
50 25 0 50 100

SCALE: 1"=50'

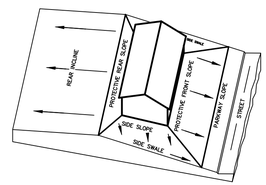
FINAL FINISHED FLOOR ELEVATIONS SHALL BE A MINIMUM OF 6" ABOVE THE FINISHED PAD (FP) ELEVATIONS SHOWN ON THESE PLANS.

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



LOT GRADING TYPE A
ALL DRAINAGE TO STREET



LOT GRADING TYPE B
DRAINAGE TO STREET & REAR LOT LINE

1. All Earthwork shall be performed in accordance with the Geotechnical Investigation prepared by Terradyne, dated August 24, 2021. 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.

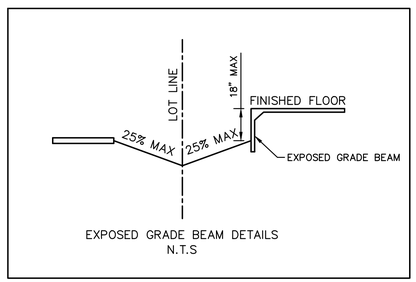
Supervision
8. Supervision by the Soils Engineer should be of such continuity during the grading operation that he can certify that all cut and filled areas were graded in accordance with the accepted specifications.

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.

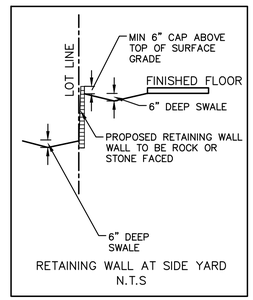
THERE ARE NO DROP GARAGES REQUIRED FOR THIS DEVELOPMENT



EXPOSED GRADE BEAM DETAILS
N.T.S

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
GB	EXPOSED GRADE BEAM
FACE OF WALL	PROPOSED RETAINING WALL
	EMERGENCY OVERFLOW ROUTE



RETAINING WALL AT SIDE YARD
N.T.S

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

05/27/2022
DAYTON MACATEE
ENGINEERING, LLC
TX. REG. NO. F-456

RECORD DRAWINGS

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NOVEMBER 29, 2023

Dayton C. Macatee, P.E. – Macatee Engineering, L.L.C. (Tx. Reg. No. F-456) **Date**
12655 N. Central Expy Suite 420, Dallas, Texas 75243 ~ Tel: 214-373-1180

CITY OF ROCKWALL MONUMENT "COR-2"
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GRADING PLAN

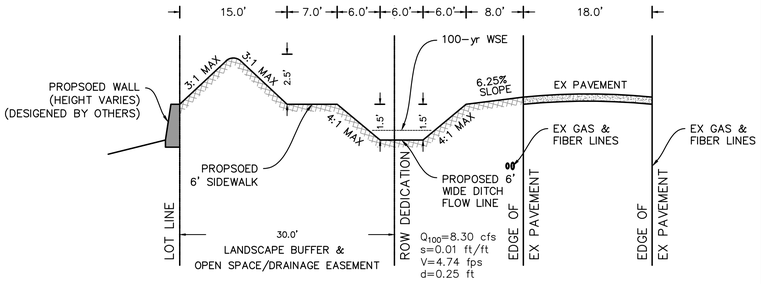
WINDING CREEK

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

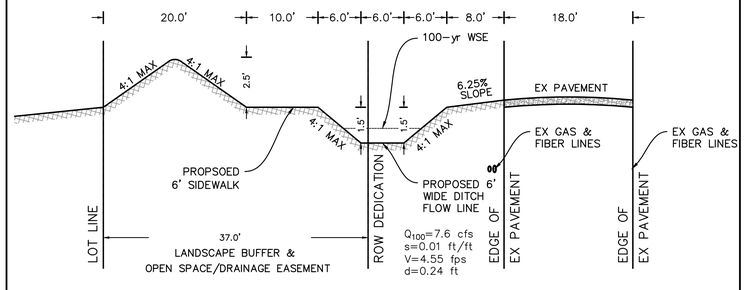
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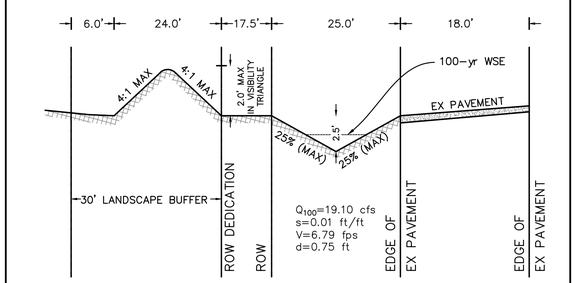
DESIGNED	CHECKED	DATE	DWG FILE	PROJECT #	SHEET NO.
BCP	SDA	11/29/2023	WC Grading	SKO_WC	21 OF 53



CROSS SECTION A–A
N.T.S.

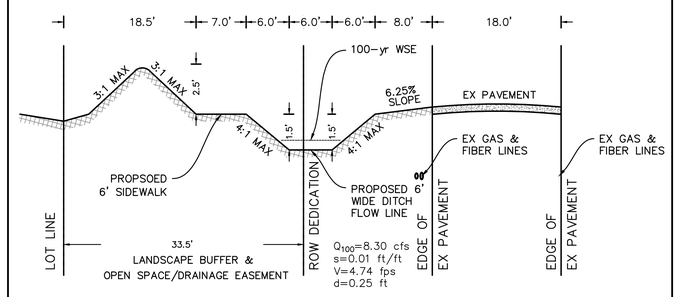


CROSS SECTION B–B
N.T.S.

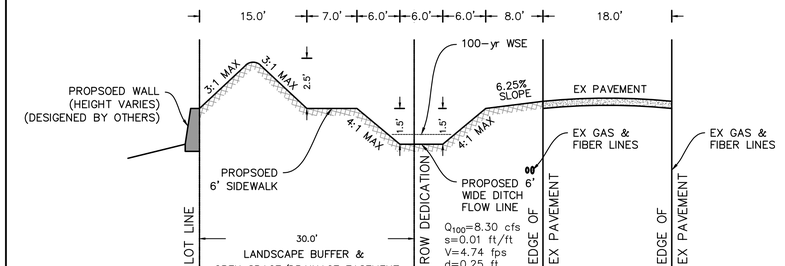


CROSS SECTION C–C
N.T.S.

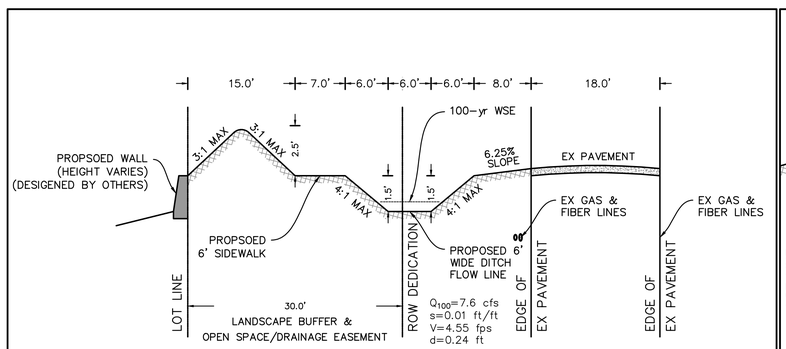
NOTE: CROSS SECTION D–D HAS BEEN OMITTED FROM THIS CONSTRUCTION SET.



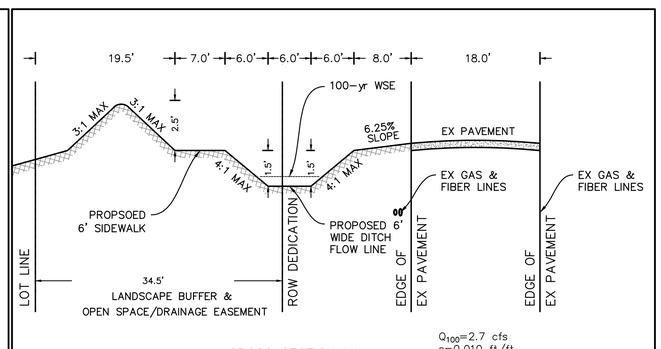
CROSS SECTION F–F
N.T.S.



CROSS SECTION G–G
N.T.S.



CROSS SECTION H–H
N.T.S.



CROSS SECTION I–I
N.T.S.



05/27/2022
DAYTON MACATEE ENGINEERING, LLC
TX. REG. NO. F-456

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12655 N. Central Expy Suite 420, Dallas, Texas 75243 ~ Tel: 214-373-1180

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GRADING DETAILS AND SECTIONS

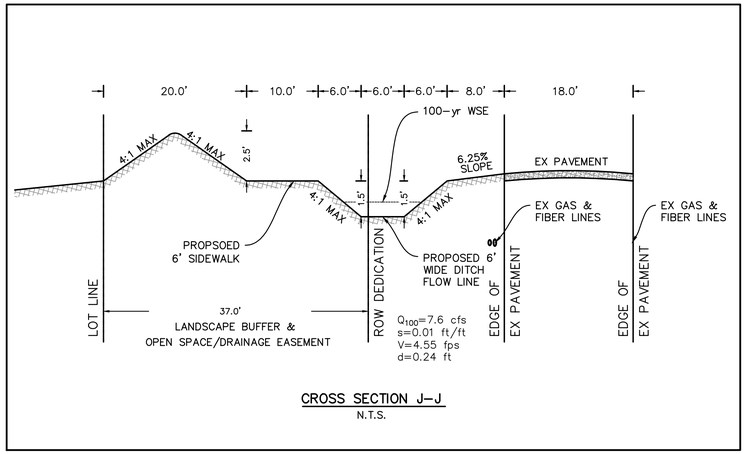
WINDING CREEK

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

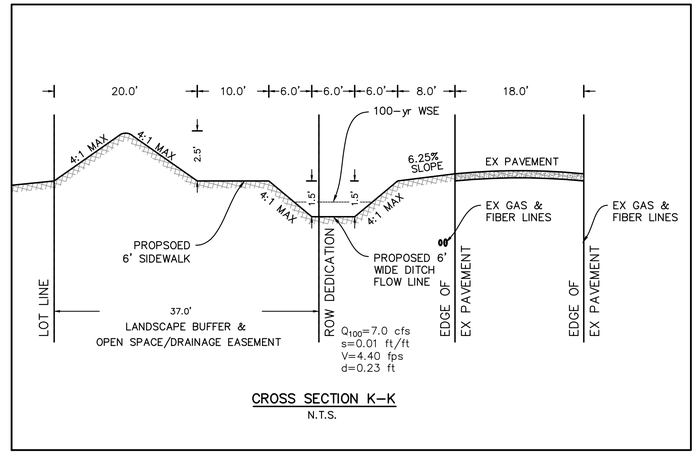
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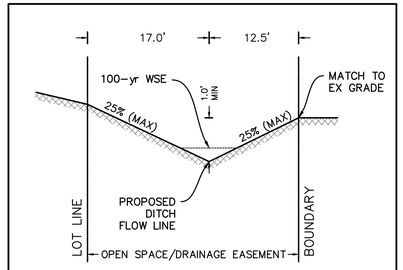
DESIGNED	CHECKED	DATE	DWG FILE	PROJECT #	SHEET NO.
BCP	SDA	11/29/2023	WC Grading	SKO_WC	22 OF 53



CROSS SECTION J–J
N.T.S.

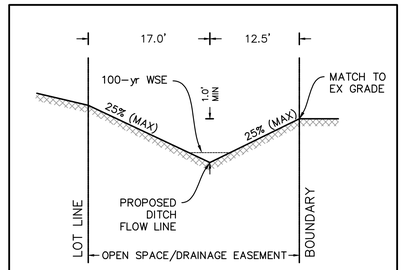


CROSS SECTION K–K
N.T.S.



Q_{100}=1.5 cfs
s=0.022 ft/ft
V=1.8 fps
d=0.46 ft

CROSS SECTION L–L
N.T.S.



Q_{100}=0.3 cfs
s=0.010 ft/ft
V=1.20 fps
d=0.25 ft

CROSS SECTION E–E
N.T.S.

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05/27/2022
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GRADING DETAILS AND SECTIONS

WINDING CREEK

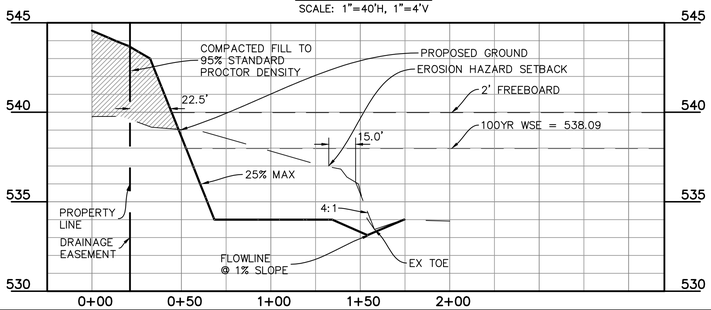
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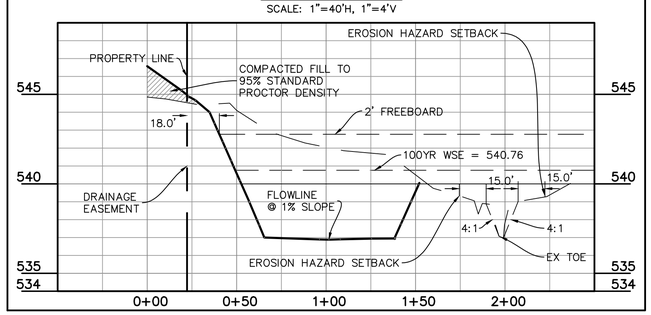
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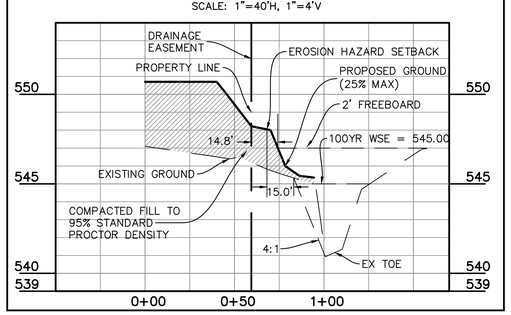
CROSS SECTION 1–1
SCALE: 1"=40'H, 1"=4'V



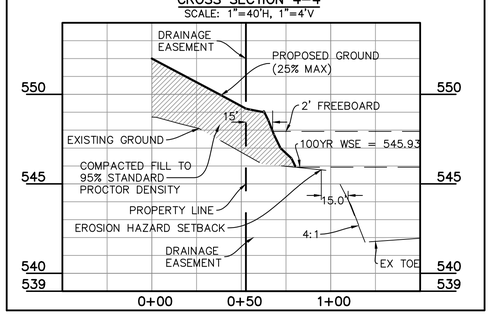
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SCALE: 1"=40'H, 1"=4'V



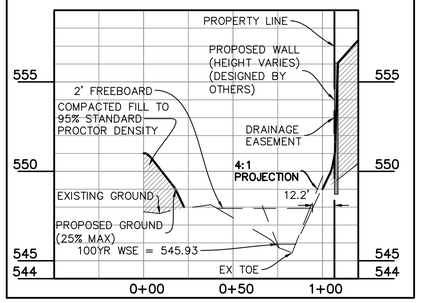
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SCALE: 1"=40'H, 1"=4'V



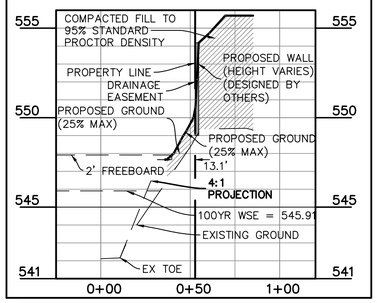
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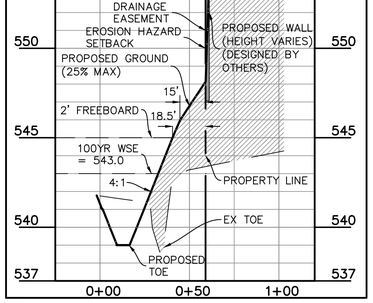
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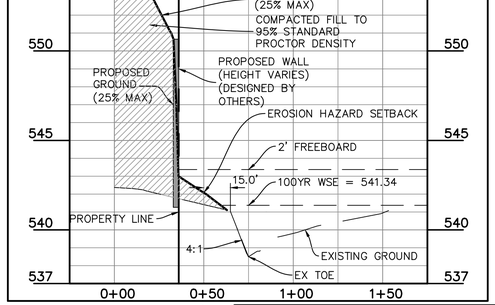
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SCALE: 1"=40'H, 1"=4'V



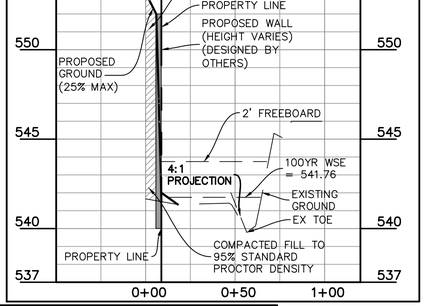
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SCALE: 1"=40'H, 1"=4'V



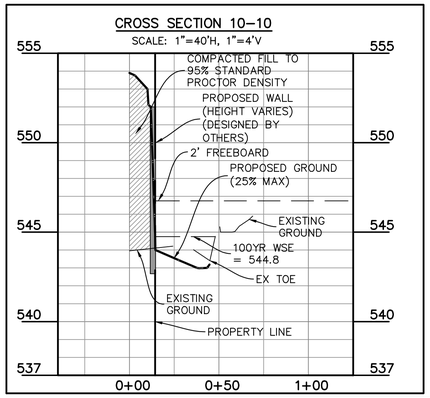
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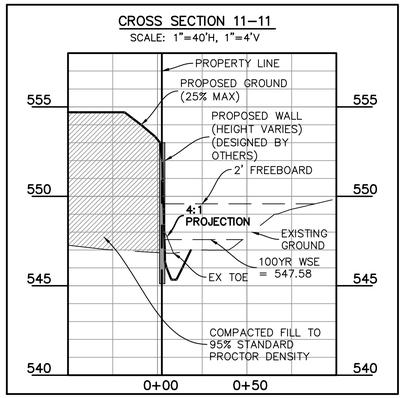
CROSS SECTION 9–9
SCALE: 1"=40'H, 1"=4'V



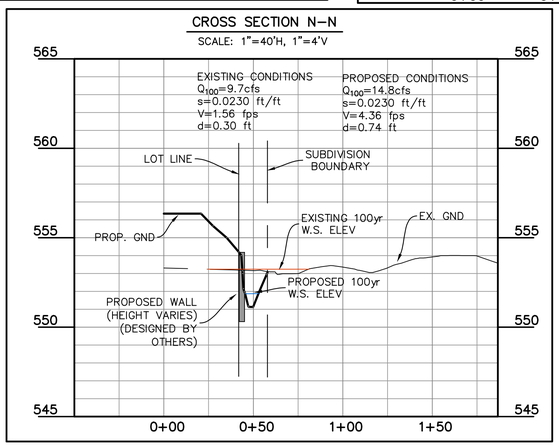
CROSS SECTION 10–10
SCALE: 1"=40'H, 1"=4'V



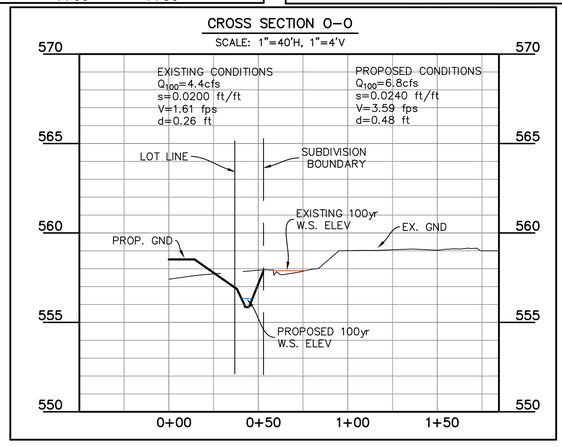
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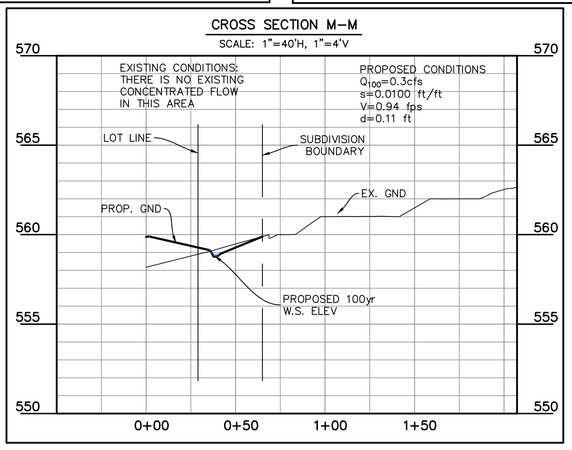
CROSS SECTION N–N
SCALE: 1"=40'H, 1"=4'V



CROSS SECTION O–O
SCALE: 1"=40'H, 1"=4'V



CROSS SECTION M–M
SCALE: 1"=40'H, 1"=4'V



SECTIONS 1–1 THROUGH 11–11 ARE PROVIDED TO SHOW HOW THE EROSION HAZARD SETBACK AND DRAINAGE EASEMENT WAS ESTABLISHED WITHIN W.O.T.U.S. AREAS. FOR DETAILED HYDRAULIC INFO WITHIN THESE AREAS SEE "DETENTION STUDY FOR WINDING CREEK" PREPARED BY KCE ENGINEERING, DATED APRIL 28, 2022.

RECORD DRAWINGS

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STATE OF TEXAS
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11/29/2023

DAYTON MACATEE ENGINEERING, LLC
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GRADING DETAILS AND SECTIONS

WINDING CREEK

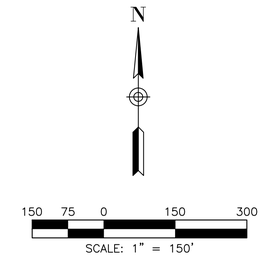
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DESIGNED	CHECKED	DATE	DWG FILE	PROJECT #	SHEET NO.
BCP	SDA	11/29/2023	WC_CROSS SECTION	SKO_WC	24 OF 53





EXISTING RUNOFF CALCULATIONS						
AREA	ACRES	Tc (min)	C	I100	Q100	Comments
1	69.04	20	0.35	8.33	201.3	Drains to Ex 8'X5' Box Culvert
2	10.99	20	0.35	9.8	37.7	Drains to Property to the East
X1	9.31	10	0.5	9.8	45.6	Drains through Ex 36" pipe under Clem Road
X2	3.30	20	0.35	8.33	9.6	Drains through Ex 36" under Clem Road
X3	14.46	20	0.35	8.33	42.2	Drains to Ex Pond
X4	14.80	10	0.5	9.8	72.5	Drains through property to Ex 8'x5' Box Culvert
X4a	1.97	10	0.5	9.8	9.7	Drains through property to Ex 8'x5' Box Culvert
X5	5.30	10	0.5	9.8	26.0	Drains to Ex 18" Culvert
X8	4.00	10	0.5	9.8	19.6	Drains through property to Ex 8'x5' Box Culvert
X11	10.09	10	0.5	9.8	49.4	Drains through property to Ex 8'x5' Box Culvert
X12	7.04	10	0.5	9.8	34.5	Drains to Ex Pond

LEGEND

- 544 — EXISTING 1 FOOT CONTOUR INTERVAL
- DRAINAGE DIVIDE
- (B6) DRAINAGE AREA
- DIRECTION OF RUNOFF

STATE OF TEXAS
DAYTON C. MACATEE
65028
REGISTERED
PROFESSIONAL ENGINEER

05/27/2022
DAYTON MACATEE ENGINEERING, LLC
TX. REG. NO. F-456

RECORD DRAWINGS

The information contained hereon was provided by the contractor based on their field installation. The undersigned registered professional engineer did not provide inspection on this project, and therefore makes no warrants concerning the accuracy or completeness of the information provided.

NOVEMBER 29, 2023

Dayton C. Macatee, P.E. – Macatee Engineering, L.L.C. (Tx. Reg. No. F-456) Date
12655 N. Central Expy Suite 420, Dallas, Texas 75243 ~ Tel: 214-373-1180

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

DRAINAGE AREA MAP (PRE – DEVELOPMENT)

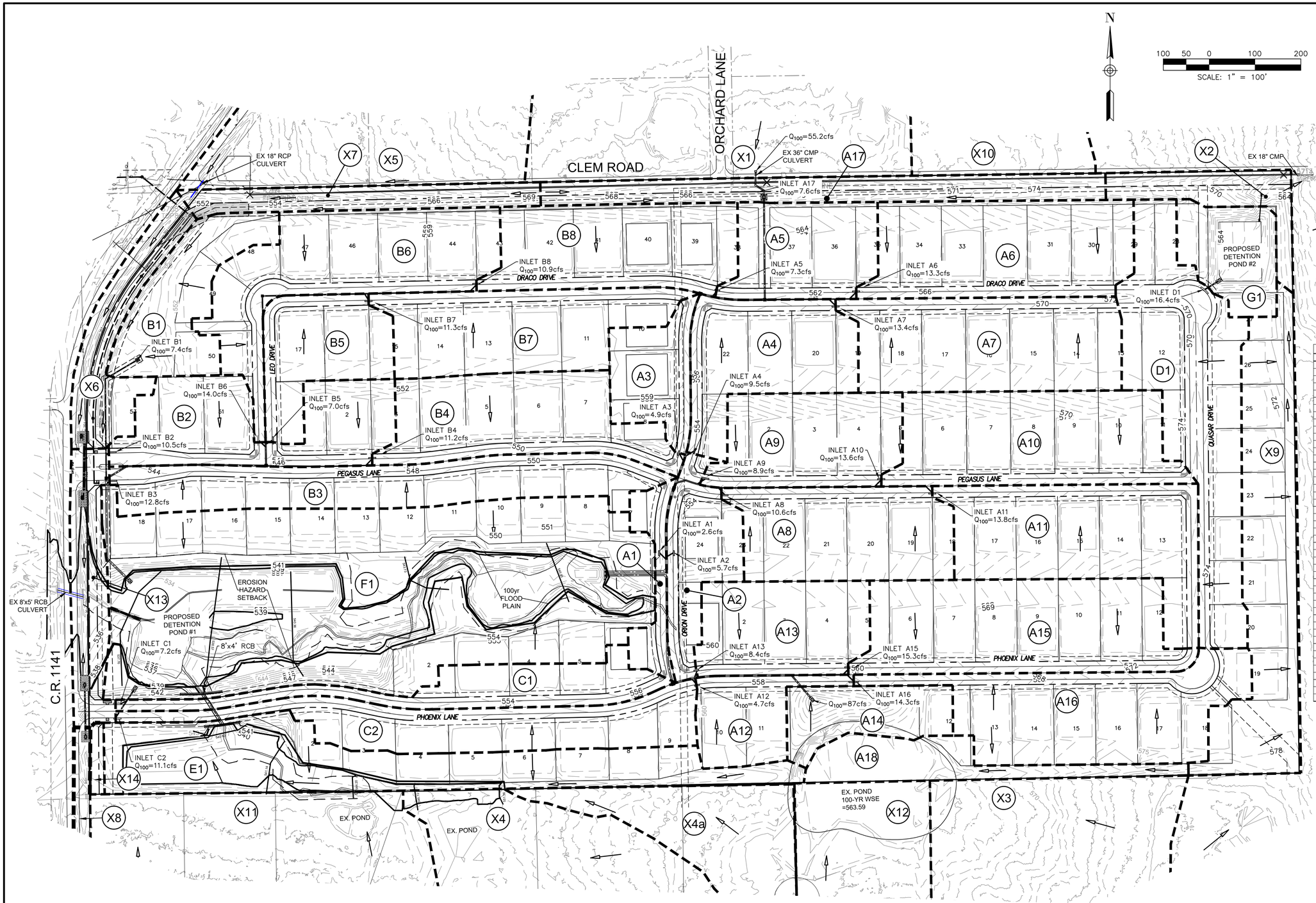
WINDING CREEK

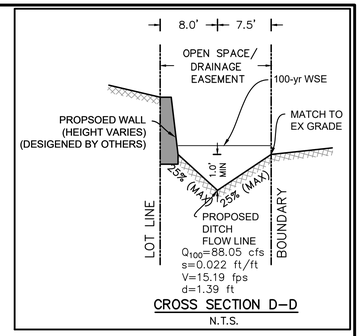
CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

MACATEE CIVIL ENGINEERING

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(Tex. Reg. No. F-456)
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DESIGNED	CHECKED	DATE	DWG FILE	PROJECT #	SHEET NO.
BCP	SDA	11/29/2023	WC_DAM EX	SKO_WC	25 OF 53





CROSS SECTION D–D
N.T.S.

LEGEND

- 544 — EXISTING 1 FOOT CONTOUR INTERVAL
- DRAINAGE DIVIDE
- (B6) DRAINAGE AREA
- DIRECTION OF RUNOFF

PROPOSED RUNOFF CALCULATIONS

AREA	ACRES	Tc (min)	C	I100	Q100	NOTES:
A1	0.52	10	0.5	9.8	2.6	DRAINS TO INLET A1 & WETLANDS
A2	1.17	10	0.5	9.8	5.7	DRAINS TO INLET A2 & WETLANDS
A3	1.00	10	0.5	9.8	4.9	DRAINS TO INLET A3 & WETLANDS
A4	1.94	10	0.5	9.8	9.5	DRAINS TO INLET A4 & WETLANDS
A5	1.48	10	0.5	9.8	7.3	DRAINS TO INLET A5 & WETLANDS
A6	2.71	10	0.5	9.8	13.3	DRAINS TO INLET A6 & WETLANDS
A7	2.74	10	0.5	9.8	13.4	DRAINS TO INLET A7 & WETLANDS
A8	2.17	10	0.5	9.8	10.6	DRAINS TO INLET A8 & WETLANDS
A9	1.82	10	0.5	9.8	8.9	DRAINS TO INLET A9 & WETLANDS
A10	2.78	10	0.5	9.8	13.6	DRAINS TO INLET A10 & WETLANDS
A11	2.83	10	0.5	9.8	13.8	DRAINS TO INLET A11 & WETLANDS
A12	0.96	10	0.5	9.8	4.7	DRAINS TO INLET A12 & WETLANDS
A13	1.71	10	0.5	9.8	8.4	DRAINS TO INLET A13 & WETLANDS
A14	1.01	10	0.5	9.8	5.0	DRAINS TO INLET A14 & WETLANDS
A15	3.12	10	0.5	9.8	15.3	DRAINS TO INLET A15 & WETLANDS
A16	2.91	10	0.5	9.8	14.3	DRAINS TO INLET A16 & WETLANDS
A17	1.56	10	0.5	9.8	7.6	DRAINS TO INLET A17 & WETLANDS
A18	1.10	10	0.5	9.8	5.4	DRAINS TO WETLANDS
B1	1.51	10	0.5	9.8	7.4	DRAINS TO INLET B1 & WETLANDS
B2	2.13	10	0.5	9.8	10.5	DRAINS TO INLET B2 & WETLANDS
B3	2.61	10	0.5	9.8	12.8	DRAINS TO INLET B3 & WETLANDS
B4	2.28	10	0.5	9.8	11.2	DRAINS TO INLET B4 & WETLANDS
B5	1.43	10	0.5	9.8	7.0	DRAINS TO INLET B5 & WETLANDS
B6	2.85	10	0.5	9.8	14.0	DRAINS TO INLET B6 & WETLANDS
B7	2.31	10	0.5	9.8	11.3	DRAINS TO INLET B7 & WETLANDS
B8	2.23	10	0.5	9.8	10.9	DRAINS TO INLET B8 & WETLANDS
C1	1.46	10	0.5	9.8	7.2	DRAINS TO INLET C1 & WETLANDS
C2	2.27	10	0.5	9.8	11.1	DRAINS TO INLET C2 & WETLANDS
D1	3.35	10	0.5	9.8	16.4	DRAINS TO INLET D1 & DET POND
E1	3.50	10	0.5	9.8	17.2	DRAINS TO WETLANDS
F1	10.31	10	0.5	9.8	50.5	DRAINS TO WETLANDS
G1	1.01	10	0.5	9.8	5.0	DRAINS TO DET POND
X1	9.31	10	0.5	9.8	45.6	DRAINS THROUGH EX 36" PIPE UNDER CLEM ROAD
X2	0.79	10	0.9	9.8	7.0	DRAINS TO BAR DITCH AT CLEM RD
X3	14.46	20	0.35	8.33	42.2	DRAINS TO EX POND
X4	14.80	10	0.5	9.8	72.5	DRAINS THROUGH PROPERTY TO EX 8'X4' BOX CULVERT
X4a	1.97	10	0.5	9.8	9.7	DRAINS THROUGH PROPERTY TO EX 8'X4' BOX CULVERT
X5	5.31	10	0.5	9.8	26.0	DRAINS TO EX 18" CULVERT
X6	1.23	10	0.9	9.8	10.8	DRAINS TO PROPOSED 2-21" CULVERT
X7	0.94	10	0.9	9.8	8.3	DRAINS TO PROPOSED 2-21" CULVERT
X8	4.00	10	0.5	9.8	19.6	DRAINS TO PROPOSED 27" CULVERT
X9	3.03	10	0.5	9.8	14.8	DRAINS THROUGH EAST PROPERTY TO OFFSITE
X10	3.30	20	0.35	8.3	9.6	DRAINS THROUGH EX 36" PIPE UNDER CLEM ROAD
X11	10.09	10	0.5	9.8	49.5	DRAINS THROUGH PROPERTY TO EX 8'X4' BOX CULVERT
X12	7.04	10	0.5	9.8	34.5	DRAINS TO EX POND
X13	1.08	10	0.5	9.8	5.3	DRAINS THROUGH EX 8'X5' CULVERT UNDER CR 1141
X14	0.11	10	0.5	9.8	0.5	DRAINS TO PROPOSED 27" CULVERT

STATE OF TEXAS
DAYTON C. MACATEE
65028
REGISTERED PROFESSIONAL ENGINEER

05/27/2022
DAYTON MACATEE
ENGINEERING, LLC
TX. REG. NO. F-456

RECORD DRAWINGS

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NOVEMBER 29, 2023

Dayton C. Macatee, P.E. – Macatee Engineering, L.L.C. (Tx. Reg. No. F-456) **Date**
12655 N. Central Expy Suite 420, Dallas, Texas 75243 ~ Tel: 214-373-1180

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DRAINAGE AREA MAP (POST–DEVELOPMENT)

WINDING CREEK

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

MACATEE CIVIL ENGINEERING

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DESIGNED	CHECKED	DATE	DWG FILE	PROJECT #	SHEET NO.
BCP	SDA	11/29/2023	WC_DAM	SKO_WC	26 OF 53

*Captured runoff includes bypass and crown crossover from upstream and excludes bypass at this inlet
**Takes into account travel time

STORM LINE 1-A

Stations		Length	Pipe Size	Type	Pipe	Wetted	Hydraulic	Manning's	Flowline Elevation		Basin	Basin	Runoff	Incre-	Accum-	U/S	Design	Intensity	Basin	*Runoff	**Accumulated	Velocity	Pipe	Pipe	Partial	Time in	Friction	Friction	HGL		Headloss	Calculations	Jct	Coeff	Headloss	Design	Top of	HGL Depth	Remark
U/S	D/S				Area	Perimeter	Radius	n	Up Stream	Down Stream	Area	Area	Coeff	mental	ulated	Tc	Storm Freq		Runoff	Captured	Runoff		Slope	Capacity	Flow	Conduit	Slope	Headloss	U/S	D/S	$V_1^2/2g$	$V_2^2/2g$	Type	K_j	H_L	HGL	Curb Elev.	Below T/C	
						Pw					Name		C	C*A	C*A			I	Q_{10}	Q_{10}	Q_{10}	V		Q			S_f											
		(ft)	(in)		(ft^2)							(Ac)				(min)	(yr)		(cfs)	(cfs)	(cfs)	(fps)	(ft/ft)	(cfs)	(yes/no)	(min)		(ft)									(ft)	
1091	1070	21.00	21.00	RCP	2.41	5.50	0.44	0.013	556.59	554.73	A6	2.71	0.50	1.36	1.36	10.00	100	9.80	13.3	12.6	12.6	5.24	0.0884	47.2	yes	0.07	0.0063	0.13	560.57	560.44		0.43	Inlet A6	1.25	0.53	561.10	563.75	2.65	
1070	1029	41.00	21.00	RCP	2.41	5.50	0.44	0.013	554.73	554.20	-	0.00	0.50	0.00	1.36	10.07	100	9.79			12.6	5.24	0.0130	18.1	no	0.13	0.0063	0.26	560.28	560.02	0.43	0.43	45 Deg Bend	0.37	0.16	560.44	563.02	2.58	
1029	1025	4.00	27.00	RCP	3.98	7.07	0.56	0.013	554.20	554.15	-	0.00	0.50	0.00	1.36	10.20	100	9.76			12.6	3.17	0.0130	35.4	no	0.02	0.0016	0.01	559.85	559.84	0.43	0.16	Pipe Size Change	-	0.17	560.02	563.02	3.00	
1025	886	139.00	27.00	RCP	3.98	7.07	0.56	0.013	554.15	552.34	A7	2.74	0.50	1.37	2.73	10.22	100	9.76	13.4	12.6	25.2	6.33	0.0130	35.4	no	0.37	0.0066	0.91	559.30	558.39	0.16	0.62	45 Deg Wye	0.50	0.54	559.84	563.02	3.18	
886	770	116.00	42.00	RCP	9.62	11.00	0.88	0.013	552.34	551.35	A17, X1,X10	14.17	0.50	7.09	9.81	10.58	100	9.68	62.8	62.8	87.2	9.07	0.0085	93.0	no	0.21	0.0075	0.87	557.27	556.40	0.62	1.28	Manhole/Junction at 90 Deg	0.25	1.12	558.39	560.80	2.41	
770	744	26.00	42.00	RCP	9.62	11.00	0.88	0.013	551.35	551.13	A5	1.48	0.50	0.74	10.55	10.80	100	9.64	8.0	5.7	92.8	9.65	0.0085	93.0	yes	0.04	0.0085	0.22	555.59	555.37	1.28	1.45	45 Deg Wye	0.50	0.81	556.40	560.22	3.82	
744	399	344.67	42.00	RCP	9.62	11.00	0.88	0.013	551.13	544.93	-	0.00	0.50	0.00	9.81	10.80	100	9.64	0.0	0.0	87.2	9.07	0.0180	135.3	yes	0.63	0.0075	2.58	554.80	552.22	1.28	1.28	Manhole/90deg Turn	0.55	0.57	556.40	560.00	3.60	
399	384	14.91	42.00	RCP	9.62	11.00	0.88	0.013	544.93	544.79	-	0.00	0.50	0.00	10.55	10.84	100	9.63	0.0	0.0	92.8	9.65	0.0090	95.7	no	0.03	0.0085	0.13	550.96	550.84	1.45	1.45	Size Change	0.13	1.26	555.37	560.00	4.63	
384	372	12.42	54.00	RCP	15.90	14.14	1.13	0.013	544.79	544.68	A4	1.94	0.50	0.97	11.52	10.87	100	9.63	10.3	8.0	100.7	6.33	0.0090	187.1	no	0.03	0.0026	0.03	550.74	550.70	1.45	0.62	60 Deg Wye	0.50	0.10	550.84	553.10	2.26	
372	336	36.00	54.00	RCP	15.90	14.14	1.13	0.013	544.68	544.36	A3	1.00	0.50	0.50	12.02	10.90	100	9.62	4.9	4.8	105.4	6.63	0.0090	187.1	no	0.09	0.0029	0.10	550.33	550.23	0.62	0.68	45 Deg Wye	0.50	0.37	550.70	553.03	2.33	
336	159	177.00	60.00	RCP	19.63	15.71	1.25	0.013	544.36	542.15	A8-11	9.60	0.50	4.80	16.82	10.99	100	9.60	47.0	46.9	151.4	7.71	0.0125	292.0	n o	0.38	0.0034	0.60	549.48	548.88	0.68	0.92	Manhole/Junction at 90 Deg	0.25	0.75	550.23	552.55	2.32	
159	152	7.00	60.00	RCP	19.63	15.71	1.25	0.013	542.15	542.12	A2	1.17	0.50	0.59	17.41	11.37	100	9.53	8.1	8.1	159.3	8.11	0.0040	165.2	no	0.01	0.0037	0.03	548.18	548.16	0.92	1.02	60 Deg Wye	0.35	0.70	548.88	551.28	2.40	
152	132	20.00	60.00	RCP	19.63	15.71	1.25	0.013	542.12	542.04	A1	0.52	0.50	0.26	17.67	11.39	100	9.52	2.6	2.6	161.8	8.24	0.0040	165.2	no	0.04	0.0038	0.08	547.61	547.54	1.02	1.05	45 Deg Wye	0.50	0.54	548.16	551.28	3.12	
132	124	8.00	60.00	RCP	19.63	15.71	1.25	0.013	542.04	542.01	-	0.00	0.50	0.00	17.67	11.43	100	9.51	0.0	0.0	161.8	8.24	0.0040	165.2	no	0.02	0.0038	0.03	547.15	547.12	1.05	1.05	45 Deg Bend	0.37	0.39	547.54	551.50	3.96	
124	0	124.00	60.00	RCP	19.63	15.71	1.25	0.013	542.01	541.51	-	0.00	0.50	0.00	17.67	11.45	100	9.51	0.0	0.0	161.8	8.24	0.0040	165.2	no	0.25	0.0038	0.48	546.73	546.25	1.05	1.05	45 Deg Bend	0.37	0.39	547.12	551.50	4.38	

OUTFALL VELOCITY CONTROLLED BY DISSIPATORS

STORM LAT A1

Stations		Length	Pipe Size	Type	Pipe	Wetted	Hydraulic	Manning's	Flowline Elevation		Basin	Basin	Runoff	Incre-	Accum-	U/S	Design	Intensity	Basin	*Runoff	**Accumulated	Velocity	Pipe	Pipe	Partial	Time in	Friction	Friction	HGL		Headloss	Calculations	Jct	Coeff	Headloss	Design	Top of	HGL Depth	Remark
U/S	D/S				Area	Perimeter	Radius	n	Up Stream	Down Stream	Area	Area	Coeff	mental	ulated	Tc	Storm Freq		Runoff	Captured	Runoff		Slope	Capacity	Flow	Conduit	Slope	Headloss	U/S	D/S	$V_1^2/2g$	$V_2^2/2g$	Type	K_j	H_L	HGL	Curb Elev.	Below T/C	
						Pw					Name		C	C*A	C*A			I	Q_{10}	Q_{10}	Q_{10}	V		Q			S_f											
		(ft)	(in)		(ft^2)							(Ac)				(min)	(yr)		(cfs)	(cfs)	(cfs)	(fps)	(ft/ft)	(cfs)	(yes/no)	(min)		(ft)									(ft)	
21	0	21.00	21.00	RCP	2.41	5.50	0.44	0.013	546.68	543.74	A1	0.52	0.50	0.26	0.26	10.00	100	9.80	2.6	2.6	2.6	1.08	0.1400	59.4	no	0.32	0.0003	0.01	548.16	548.16		0.02	Inlet A1	1.25	0.02	548.19	551.28	3.09	

STORM LAT A2

Stations		Length	Pipe Size	Type	Pipe	Wetted	Hydraulic	Manning's	Flowline Elevation		Basin	Basin	Runoff	Incre-	Accum-	U/S	Design	Intensity	Basin	*Runoff	**Accumulated	Velocity	Pipe	Pipe	Partial	Time in	Friction	Friction	HGL		Headloss	Calculations	Jct	Coeff	Headloss	Design	Top of	HGL Depth	Remark
U/S	D/S				Area	Perimeter	Radius	n	Up Stream	Down Stream	Area	Area	Coeff	mental	ulated	Tc	Storm Freq		Runoff	Captured	Runoff		Slope	Capacity	Flow	Conduit	Slope	Headloss	U/S	D/S	$V_1^2/2g$	$V_2^2/2g$	Type	K_j	H_L	HGL	Curb Elev.	Below T/C	
						Pw					Name		C	C*A	C*A			I	Q_{10}	Q_{10}	Q_{10}	V		Q			S_f											
		(ft)	(in)		(ft^2)							(Ac)				(min)	(yr)		(cfs)	(cfs)	(cfs)	(fps)	(ft/ft)	(cfs)	(yes/no)	(min)		(ft)									(ft)	
17	0	17.00	21.00	RCP	2.41	5.50	0.44	0.013	546.33	543.78	A2	1.17	0.50	0.59	0.59	10.00	100	9.80	8.1	8.1	8.1	3.37	0.1500	61.5	no	0.08	0.0026	0.04	548.93	548.88		0.18	Inlet A2	1.25	0.22	549.15	551.28	2.13	

STORM LAT A3

Stations		Length	Pipe Size	Type	Pipe	Wetted	Hydraulic	Manning's	Flowline Elevation		Basin	Basin	Runoff	Incre-	Accum-	U/S	Design	Intensity	Basin	*Runoff	**Accumulated	Velocity	Pipe	Pipe	Partial	Time in	Friction	Friction	HGL		Headloss	Calculations	Jct	Coeff	Headloss	Design	Top of	HGL Depth	Remark
U/S	D/S				Area	Perimeter	Radius	n	Up Stream	Down Stream	Area	Area	Coeff	mental	ulated	Tc	Storm Freq		Runoff	Captured	Runoff		Slope	Capacity	Flow	Conduit	Slope	Headloss	U/S	D/S	$V_1^2/2g$	$V_2^2/2g$	Type	K_j	H_L	HGL	Curb Elev.	Below T/C	
						Pw					Name		C	C*A	C*A			I	Q_{10}	Q_{10}	Q_{10}	V		Q			S_f											
		(ft)	(in)		(ft^2)							(Ac)				(min)	(yr)		(cfs)	(cfs)	(cfs)	(fps)	(ft/ft)	(cfs)	(yes/no)	(min)		(ft)									(ft)	
20	0	20.00	21.00	RCP	2.41	5.50	0.44	0.013	546.38	543.78	A3	1.00	0.50	0.50	0.50	10.00	100	9.80	4.9	4.9	4.9	2.04	0.1300	57.3	no	0.16	0.0010	0.02	550.72	550.70		0.06	Inlet A3	1.25	0.08	550.80	553.10	2.30	

STORM LAT A4

Stations		Length	Pipe Size	Type	Pipe	Wetted	Hydraulic	Manning's	Flowline Elevation		Basin	Basin	Runoff	Incre-	Accum-	U/S	Design	Intensity	Basin	*Runoff	**Accumulated	Velocity	Pipe	Pipe	Partial	Time in	Friction	Friction	HGL		Headloss	Calculations	Jct	Coeff	Headloss	Design	Top of	HGL Depth	Remark
U/S	D/S				Area	Perimeter	Radius	n	Up Stream	Down Stream	Area	Area	Coeff	mental	ulated	Tc	Storm Freq		Runoff	Captured	Runoff		Slope	Capacity	Flow	Conduit	Slope	Headloss	U/S	D/S	$V_1^2/2g$	$V_2^2/2g$	Type	K_j	H_L	HGL	Curb Elev.	Below T/C	
						Pw					Name		C	C*A	C*A			I	Q_{10}	Q_{10}	Q_{10}	V		Q			S_f											
		(ft)	(in)		(ft^2)							(Ac)				(min)	(yr)		(cfs)	(cfs)	(cfs)	(fps)	(ft/ft)	(cfs)	(yes/no)	(min)		(ft)									(ft)	
16	0	16.00	21.00	RCP	2.41	5.50	0.44	0.013	548.38	546.62	A4	1.94	0.50	0.97	0.97	10.00	100	9.80	10.3	8.0	8.0	3.33	0.1100	52.7	no	0.08	0.0025	0.04	550.88	550.84		0.17	Inlet A4	1.25	0.21	551.09	553.22	2.13	

STORM LAT A5

Stations		Length	Pipe Size	Type	Pipe	Wetted	Hydraulic	Manning's	Flowline Elevation		Basin	Basin	Runoff	Incre-	Accum-	U/S	Design	Intensity	Basin	*Runoff	**Accumulated	Velocity	Pipe	Pipe	Partial	Time in	Friction	Friction	HGL		Headloss	Calculations	Jct	Coeff	Headloss	Design	Top of	HGL Depth	Remark
U/S	D/S				Area	Perimeter	Radius	n	Up Stream	Down Stream	Area	Area	Coeff	mental	ulated	Tc	Storm Freq		Runoff	Captured	Runoff		Slope	Capacity	Flow	Conduit	Slope	Headloss	U/S	D/S	$V_1^2/2g$	$V_2^2/2g$	Type	K_j	H_L	HGL	Curb Elev.	Below T/C	
						Pw					Name		C	C*A	C*A			I	Q_{10}	Q_{10}	Q_{10}	V		Q			S_f											
		(ft)	(in)		(ft^2)							(Ac)				(min)	(yr)		(cfs)	(cfs)	(cfs)	(fps)	(ft/ft)	(cfs)	(yes/no)	(min)		(ft)									(ft)	
17	0	17.00	21.00	RCP	2.41	5.50	0.44	0.013	555.89	553.68	A5	1.48	0.50	0.74	0.74	10.00	100	9.80	8.0	5.7	5.7	2.37	0.1300	57.3	no	0.12	0.0013	0.02	556.42	556.40		0.09	Inlet A5	1.25	0.11	556.53	560.10	3.57	

STORM LAT A7

Stations		Length	Pipe Size	Type	Pipe	Wetted	Hydraulic	Manning's	Flowline Elevation		Basin	Basin	Runoff	Incre-	Accum-	U/S	Design	Intensity	Basin	*Runoff	**Accumulated	Velocity	Pipe	Pipe	Partial	Time in	Friction	Friction	HGL		Headloss	Calculations	Jct	Coeff	Headloss	Design	Top of	HGL Depth	Remark
U/S	D/S				Area	Perimeter	Radius	n	Up Stream	Down Stream	Area	Area	Coeff	mental	ulated	Tc	Storm Freq		Runoff	Captured	Runoff		Slope	Capacity	Flow	Conduit	Slope	Headloss	U/S	D/S	$V_1^2/2g$	$V_2^2/2g$	Type	K_j	H_L	HGL	Curb Elev.	Below T/C	
						Pw					Name		C	C*A	C*A			I	Q_{10}	Q_{10}	Q_{10}	V		Q			S_f											
		(ft)	(in)		(ft^2)							(Ac)				(min)	(yr)		(cfs)	(cfs)	(cfs)	(fps)	(ft/ft)	(cfs)	(yes/no)	(min)		(ft)									(ft)	
21	0	21.00	21.00	RCP	2.41	5.50	0.44	0.013	559.06	557.28	A7	2.71	0.50	1.36	1.36	10.00	100	9.80	13.3	12.6	12.6	5.24	0.0846	46.2	yes	0.07	0.0063	0.13	559.98	559.84		0.43	Inlet A7	1.25	0.53	560.51	563.03	2.52	

STORM LAT A17

Stations		Length	Pipe Size	Type	Pipe	Wetted	Hydraulic	Manning's	Flowline Elevation		Basin	Basin	Runoff	Incre-	Accum-	U/S	Design	Intensity	Basin	*Runoff	**Accumulated	Velocity	Pipe	Pipe	Partial	Time in	Friction	Friction	HGL		Headloss	Calculations	Jct	Coeff	Headloss	Design	Top of	HGL Depth	Remark
U/S	D/S				Area	Perimeter	Radius	n	Up Stream	Down Stream	Area	Area	Coeff	mental	ulated	Tc	Storm Freq		Runoff	Captured	Runoff		Slope	Capacity	Flow	Conduit	Slope	Headloss	U/S	D/S	$V_1^2/2g$	$V_2^2/2g$	Type	K_j	H_L	HGL	Curb Elev.	Below T/C	
						Pw					Name		C	C*A	C*A			I	Q_{10}	Q_{10}	Q_{10}	V		Q			S_f											
		(ft)	(in)		(ft^2)							(Ac)				(min)	(yr)		(cfs)	(cfs)	(cfs)	(fps)	(ft/ft)	(cfs)	(yes/no)	(min)		(ft)									(ft)	
285	260	25.18	36.00	RCP	7.07	9.42	0.75	0.013	562.53	558.23	X1,X10	12.61	0.50	6.31	6.31	10.00	100	9.80	55.2	55.5	55.2	7.81	0.1707	276.3	yes	0.05	0.0068	0.17	562.27	562.09		0.95	Inlet	1.25	1.18	563.45	565.55	2.10	
260	245	14.25	36.00	RCP	7.07	9.42	0.75	0.013	554.99	554.75		1.56	0.50	0.78	7.09	10.05	100	9.79			55.2	7.81	0.0170	87.2	yes	0.03	0.0068	0.10	562.00	561.23	0.95	0.95	Connect to Ex	0.10	0.09	562.09	563.84		
245	205	40.78	36.00	RCP	7.07	9.42	0.75	0.013	555.44	554.75	A17	1.56	0.50	0.78	7.87	10.08	100	9.78	7.6	7.6	62.8	8.88	0.0170	87.2	yes	0.08	0.0088	0.36	560.86	560.50	0.95	1.23	Inlet	0.30	0.37	561.23	563.84	2.61	
205	0	204.70	36.00	RCP	7.07	9.42	0.75	0.013	558.23	554.75		0.00	0.50	0.00	7.87	10.16	100	9.77			62.8	8.88	0.0170	87.2	yes	0.38	0.0088	1.81	560.19	558.39	1.23	1.23	30 Deg Bend	0.25	0.31	560.50	564.00	3.50	

RECORD DRAWINGS

The information contained hereon was provided by the contractor based on their field installation. The undersigned registered professional engineer did not provide inspection on this project, and therefore makes no warrants concerning the accuracy or completeness of the information provided.

Dayton C. Macatee

NOVEMBER 29, 2023

Dayton C. Macatee, P.E. – Macatee Engineering, L.L.C. (Tx. Reg. No. F-456) **Date**
12655 N. Central Expy Suite 420, Dallas, Texas 75243 ~ Tel: 214-373-1180

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

STATE OF TEXAS
DAYTON C. MACATEE
65028
REGISTERED
PROFESSIONAL ENGINEER

Dayton Macatee

05/27/2022
DAYTON MACATEE
ENGINEERING, LLC
TX. REG. NO. F-456

DRAINAGE CALCULATIONS

WINDING CREEK

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

MACATEE CIVIL ENGINEERING

CIVIL ENGINEERING DESIGN & CONSULTING
(Tex. Reg. No. F-456)
12655 N. CENTRAL EXPWY, SUITE 420
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phillipf@macatee-engineering.com

DESIGNED	CHECKED	DATE	DWG FILE	PROJECT #	SHEET NO.
BCP	SDA	11/29/2023	WC_DAM	SKO_WC	27 OF 53

STORM LINE 2-A

**Takes into account travel time

Stations		Length	Pipe Size	Type	Pipe	Wetted	Hydraulic	Manning's	Flowline Elevation		Basin	Basin	Runoff	Incre-	Accum-	U/S	Design	Intensity	Basin	*Runoff	**Accumulated	Velocity	Pipe	Pipe	Partial	Time in	Friction	Friction	HGL		Headloss	Calculations	Jct	Coeff	Headloss	Design	Top of	HGL Depth	Remark
U/S	D/S				Area	Perimeter	Radius	n	Up Stream	Down Stream	Area	Area	Coeff	mental	ulated	Tc	Storm Freq		Runoff	Captured	Runoff		Slope	Capacity	Flow	Conduit	Slope	Headloss	U/S	D/S	$V_1^2/2g$	$V_2^2/2g$	Type	K_j	H_L	HGL	Curb Elev.	Below T/C	
						Pw					Name		C	C*A	C*A			I	Q_{10}	Q_{10}	Q_{10}	V		Q			S_f											
		(ft)	(in)		(ft^2)							(Ac)				(min)	(yr)		(cfs)	(cfs)	(cfs)	(fps)	(ft/ft)	(cfs)	(yes/no)	(min)		(ft)									(ft)	
760	739	21.00	27.00	RCP	3.98	7.07	0.56	0.013	551.69	550.89	A16	2.91	0.50	1.46	1.46	10.00	100	9.80	14.3	14.3	14.3	3.60	0.0380	60.5	yes	0.10	0.0021	0.04	557.10	557.05		0.20	Inlet A16	1.25	0.25	557.35	560.21	2.86	
739	734	5.00	27.00	RCP	3.98	7.07	0.56	0.013	550.89	550.84	-		0.50	0.00	1.46	10.10	100	9.78			14.3	3.60	0.0100	31.1	no	0.02	0.0021	0.01	556.98	556.97	0.20	0.20	45 Deg Bend	0.37	0.07	557.05			
734	730	4.00	33.00	RCP	5.94	8.64	0.69	0.013	550.84	550.80	-		0.50	0.00	1.46	10.12	100	9.78			14.3	2.41	0.0100	53.0	no	0.03	0.0007	0.00	556.90	556.90	0.20	0.09	Pipe Size Change	-	0.07	556.97			
730	624	106.00	33.00	RCP	5.94	8.64	0.69	0.013	550.80	549.74	A15	3.12	0.50	1.56	3.02	10.15	100	9.77	15.3	15.3	29.6	4.98	0.0100	53.0	no	0.36	0.0031	0.33	556.56	556.23	0.09	0.38	45 Deg Wye	0.50	0.34	556.90			
624	618	6.00	48.00	RCP	12.57	12.57	1.00	0.013	549.74	549.71	-		0.50	0.00	3.02	10.50	100	9.70			29.6	2.35	0.0050	101.8	no	0.04	0.0004	0.00	556.02	556.02	0.38	0.09	Pipe Size Change	-	0.20	556.23			
618	414	204.00	48.00	RCP	12.57	12.57	1.00	0.013	549.71	548.69	A14, A18, X3,X12	22.76	0.50	11.38	14.40	10.55	100	9.69	87.0	87.0	115.6	9.20	0.0050	101.8	no	0.37	0.0064	1.31	554.75	553.44	0.09	1.31	45 Deg Wye	0.50	1.27	556.02			
414	408	6.00	48.00	RCP	12.57	12.57	1.00	0.013	548.69	548.66	A13	1.71	0.50	0.86	15.25	10.92	100	9.62	8.4	8.4	123.8	9.85	0.0050	101.8	no	0.01	0.0074	0.04	552.59	552.54	1.31	1.51	45 Deg Wye	0.50	0.85	553.44			
408	366	42.00	48.00	RCP	12.57	12.57	1.00	0.013	548.66	548.45	A12	1.13	0.50	0.57	15.82	10.93	100	9.61	5.5	5.5	129.2	10.28	0.0050	101.8	no	0.07	0.0081	0.34	551.65	551.32	1.51	1.64	45 Deg Wye	0.50	0.89	552.54			
366	132	234.00	48.00	RCP	12.57	12.57	1.00	0.013	548.45	544.01	-		0.50	0.00	15.82	10.99	100	9.60			129.2	10.28	0.0190	198.5	no	0.38	0.0081	1.88	550.41	548.53	1.64	1.64	Manhole/90deg Turn	0.55	0.90	551.32	556.90	5.58	
132	125	7.00	48.00	RCP	12.57	12.57	1.00	0.013	544.01	543.88	-		0.50	0.00	15.82	11.37	100	9.53			129.2	10.28	0.0190	198.5	no	0.01	0.0081	0.06	547.92	547.86	1.64	1.64	45 Deg Bend	0.37	0.61	548.53			
125	0	125.00	48.00	RCP	12.57	12.57	1.00	0.013	543.88	541.50	-		0.50	0.00	15.82	11.38	100	9.52			129.2	10.28	0.0190	198.5	no	0.20	0.0081	1.01	547.26	546.25	1.64	1.64	45 Deg Bend	0.37	0.61	547.86			

OUTFALL VELOCITY CONTROLLED BY DISSIPATORS

STORM LAT A12

Stations		Length	Pipe Size	Type	Pipe	Wetted	Hydraulic	Manning's	Flowline Elevation		Basin	Basin	Runoff	Incre-	Accum-	U/S	Design	Intensity	Basin	*Runoff	**Accumulated	Velocity	Pipe	Pipe	Partial	Time in	Friction	Friction	HGL		Headloss	Calculations	Jct	Coeff	Headloss	Design	Top of	HGL Depth	Remark
U/S	D/S				Area	Perimeter	Radius	n	Up Stream	Down Stream	Area	Area	Coeff	mental	ulated	Tc	Storm Freq		Runoff	Captured	Runoff		Slope	Capacity	Flow	Conduit	Slope	Headloss	U/S	D/S	$V_1^2/2g$	$V_2^2/2g$	Type	K_j	H_L	HGL	Curb Elev.	Below T/C	
						Pw					Name		C	C*A	C*A			I	Q_{10}	Q_{10}	Q_{10}	V		Q			S_f											
		(ft)	(in)		(ft^2)							(Ac)				(min)	(yr)		(cfs)	(cfs)	(cfs)	(fps)	(ft/ft)	(cfs)	(yes/no)	(min)		(ft)									(ft)	
17	0	17.00	21.00	RCP	2.41	5.50	0.44	0.013	553.11	550.22	A12	1.13	0.50	0.57	0.57	10.00	100	9.80	5.5	5.5	5.5	2.29	0.1700	65.5	yes	0.12	0.0012	0.02	552.56	552.54		0.08	Inlet A12	1.25	0.10	552.66	557.22	4.56	

STORM LAT A13

Stations		Length	Pipe Size	Type	Pipe	Wetted	Hydraulic	Manning's	Flowline Elevation		Basin	Basin	Runoff	Incre-	Accum-	U/S	Design	Intensity	Basin	*Runoff	**Accumulated	Velocity	Pipe	Pipe	Partial	Time in	Friction	Friction	HGL		Headloss	Calculations	Jct	Coeff	Headloss	Design	Top of	HGL Depth	Remark
U/S	D/S				Area	Perimeter	Radius	n	Up Stream	Down Stream	Area	Area	Coeff	mental	ulated	Tc	Storm Freq		Runoff	Captured	Runoff		Slope	Capacity	Flow	Conduit	Slope	Headloss	U/S	D/S	$V_1^2/2g$	$V_2^2/2g$	Type	K_j	H_L	HGL	Curb Elev.	Below T/C	
						Pw					Name		C	C*A	C*A			I	Q_{10}	Q_{10}	Q_{10}	V		Q			S_f											
		(ft)	(in)		(ft^2)							(Ac)				(min)	(yr)		(cfs)	(cfs)	(cfs)	(fps)	(ft/ft)	(cfs)	(yes/no)	(min)		(ft)									(ft)	
17	0	17.00	21.00	RCP	2.41	5.50	0.44	0.013	553.09	550.34	A13	1.71	0.50	0.86	0.86	10.00	100	9.80	8.4	8.4	8.4	3.49	0.1620	64.0	no	0.08	0.0028	0.05	553.48	553.44		0.19	Inlet A13	1.25	0.24	553.72	557.26	3.54	

STORM LAT A15

**Takes into account travel time

Stations		Length	Pipe Size	Type	Pipe	Wetted	Hydraulic	Manning's	Flowline Elevation		Basin	Basin	Runoff	Incre-	Accum-	U/S	Design	Intensity	Basin	*Runoff	**Accumulated	Velocity	Pipe	Pipe	Partial	Time in	Friction	Friction	HGL		Headloss	Calculations	Jct	Coeff	Headloss	Design	Top of	HGL Depth	Remark
U/S	D/S				Area	Perimeter	Radius	n	Up Stream	Down Stream	Area	Area	Coeff	mental	ulated	Tc	Storm Freq		Runoff	Captured	Runoff		Slope	Capacity	Flow	Conduit	Slope	Headloss	U/S	D/S	$V_1^2/2g$	$V_2^2/2g$	Type	K_j	H_L	HGL	Curb Elev.	Below T/C	
						Pw					Name		C	C*A	C*A			I	Q_{10}	Q_{10}	Q_{10}	V		Q			S_f											
		(ft)	(in)		(ft^2)							(Ac)				(min)	(yr)		(cfs)	(cfs)	(cfs)	(fps)	(ft/ft)	(cfs)	(yes/no)	(min)		(ft)									(ft)	
21	0	21.00	24.00	RCP	3.14	6.28	0.50	0.013	553.22	551.54	A15	3.12	0.50	1.56	1.56	10.00	100	9.80	15.3	15.3	15.3	4.87	0.0800	64.2	no	0.07	0.0046	0.10	556.99	556.90		0.37	Inlet A15	1.25	0.46	557.45	560.03	2.58	

STORM LAT A14

**Takes into account travel time

Stations		Length	Pipe Size	Type	Pipe	Wetted	Hydraulic	Manning's	Flowline Elevation		Basin	Basin	Runoff	Incre-	Accum-	U/S	Design	Intensity	Basin	*Runoff	**Accumulated	Velocity	Pipe	Pipe	Partial	Time in	Friction	Friction	HGL		Headloss	Calculations	Jct	Coeff	Headloss	Design	Top of	HGL Depth	Remark
U/S	D/S				Area	Perimeter	Radius	n	Up Stream	Down Stream	Area	Area	Coeff	mental	ulated	Tc	Storm Freq		Runoff	Captured	Runoff		Slope	Capacity	Flow	Conduit	Slope	Headloss	U/S	D/S	$V_1^2/2g$	$V_2^2/2g$	Type	K_j	H_L	HGL	Curb Elev.	Below T/C	
						Pw					Name		C	C*A	C*A			I	Q_{10}	Q_{10}	Q_{10}	V		Q			S_f											
		(ft)	(in)		(ft^2)							(Ac)				(min)	(yr)		(cfs)	(cfs)	(cfs)	(fps)	(ft/ft)	(cfs)	(yes/no)	(min)		(ft)									(ft)	
75	0	75.00	42.00	RCP	9.62	11.00	0.88	0.013	554.50	553.01	A14, A18, X3,X12	22.76	0.50	11.38	11.38	10.00	100	9.80	87.0	87.0	87.0	9.04	0.0199	142.3	no	0.14	0.0074	0.56	556.58	556.02		1.27	Headwall	0.70	0.89	557.47	n/a		

*Captured runoff includes bypass and crown crossover from upstream and excludes bypass at this inlet

STORM LINE 3-A

**Takes into account travel time

Stations		Length	Pipe Size	Type	Pipe	Wetted	Hydraulic	Manning's	Flowline Elevation		Basin	Basin	Runoff	Incre-	Accum-	U/S	Design	Intensity	Basin	*Runoff	**Accumulated	Velocity	Pipe	Pipe	Partial	Time in	Friction	Friction	HGL		Headloss	Calculations	Jct	Coeff	Headloss	Design	Top of	HGL Depth	Remark
U/S	D/S				Area	Perimeter	Radius	n	Up Stream	Down Stream	Area	Area	Coeff	mental	ulated	Tc	Storm Freq		Runoff	Captured	Runoff		Slope	Capacity	Flow	Conduit	Slope	Headloss	U/S	D/S	$V_1^2/2g$	$V_2^2/2g$	Type	K_j	H_L	HGL	Curb Elev.	Below T/C	
						Pw					Name		C	C*A	C*A			I	Q_{10}	Q_{10}	Q_{10}	V		Q			S_f											
		(ft)	(in)		(ft^2)							(Ac)				(min)	(yr)		(cfs)	(cfs)	(cfs)	(fps)	(ft/ft)	(cfs)	(yes/no)	(min)		(ft)									(ft)	
564	543	20.50	21.00	RCP	2.41	5.50	0.44	0.013	557.88	557.47	A11	2.83	0.50	1.42	1.42	10.00	100	9.80	13.8	12.5	12.5	5.20	0.0200	22.5	yes	0.07	0.0062	0.13	557.87	557.75		0.42	Inlet A11	1.25	0.52	558.40	563.24	4.84	
543	436	107.18	21.00	RCP	2.41	5.50	0.44	0.013	557.47	555.33	-	0.00	0.50	0.00	1.42	10.07	100	9.79			12.5	5.20	0.0200	22.5	yes	0.34	0.0062	0.66	557.59	556.93	0.42	0.42	45 Deg Bend	0.37	0.16	557.75	563.00	5.25	
436	432	4.00	24.00	RCP	3.14	6.28	0.50	0.013	555.33	555.25	-	0.00	0.50	0.00	1.42	10.41	100	9.72			12.5	3.98	0.0200	32.1	yes	0.02	0.0030	0.01	556.83	556.82	0.42	0.25	Pipe Size Change	-	0.10	556.93	561.50	4.57	
432	99	333.43	24.00	RCP	3.14	6.28	0.50	0.013	555.25	547.75	A10	2.78	0.50	1.39	2.81	10.43	100	9.71	13.6	12.6	25.0	7.95	0.0225	34.0	yes	0.70	0.0121	4.05	555.96	551.91	0.25	0.98	45 Deg Wye	0.50	0.86	556.82	561.45	4.63	
99	91	7.83	36.00	RCP	7.07	9.42	0.75	0.013	547.75	547.57	-	0.00	0.50	0.00	2.81	11.12	100	9.58			25.0	3.54	0.0225	100.3	no	0.04	0.0014	0.01	551.36	551.35	0.98	0.19	Pipe Size Change	-	0.55	551.91	554.20	2.29	
91	45	46.40	36.00	RCP	7.07	9.42	0.75	0.013	547.57	546.64	A8	2.17	0.50	1.09	3.89	11.16	100	9.57	11.9	11.8	36.5	5.17	0.0200	94.6	no	0.15	0.0030	0.14	551.04	550.90	0.19	0.41	45 Deg Wye	0.50	0.32	551.35	554.17	2.82	
45	0	44.65	36.00	RCP	7.07	9.42	0.75	0.013	546.64	545.75	A9	1.82	0.50	0.91	4.80	11.31	100	9.54	9.9	9.9	46.1	6.53	0.0200	94.6	no	0.11	0.0048	0.21	550.44	550.23	0.41	0.66	45 Deg Wye	0.50	0.45	550.90	553.30	2.40	

STORM LAT A8

**Takes into account travel time

Stations		Length	Pipe Size	Type	Pipe	Wetted	Hydraulic	Manning's	Flowline Elevation		Basin	Basin	Runoff	Incre-	Accum-	U/S	Design	Intensity	Basin	*Runoff	**Accumulated	Velocity	Pipe	Pipe	Partial	Time in	Friction	Friction	HGL		Headloss	Calculations	Jct	Coeff	Headloss	Design	Top of	HGL Depth	Remark
U/S	D/S				Area	Perimeter	Radius	n	Up Stream	Down Stream	Area	Area	Coeff	mental	ulated	Tc	Storm Freq		Runoff	Captured	Runoff		Slope	Capacity	Flow	Conduit	Slope	Headloss	U/S	D/S	$V_1^2/2g$	$V_2^2/2g$	Type	K_j	H_L	HGL	Curb Elev.	Below T/C	
						Pw					Name		C	C*A	C*A			I	Q_{10}	Q_{10}	Q_{10}	V		Q			S_f											
		(ft)	(in)		(ft^2)							(Ac)				(min)	(yr)		(cfs)	(cfs)	(cfs)	(fps)	(ft/ft)	(cfs)	(yes/no)	(min)		(ft)									(ft)	
20	0	20.44	21.00	RCP	2.41	5.50	0.44	0.013	550.24	548.20	A8	2.17	0.50	1.09	1.09	10.00	100	9.80	11.9	11.8	11.9	4.95	0.1000	50.2	no	0.07	0.0056	0.11	551.47	551.35		0.38	Inlet A8	1.25	0.48	551.94	554.05	2.11	

STORM LAT A9

**Takes into account travel time

Stations		Length	Pipe Size	Type	Pipe	Wetted	Hydraulic	Manning's	Flowline Elevation		Basin	Basin	Runoff	Incre-	Accum-	U/S	Design	Intensity	Basin	*Runoff	**Accumulated	Velocity	Pipe	Pipe	Partial	Time in	Friction	Friction	HGL		Headloss	Calculations	Jct	Coeff	Headloss	Design	Top of	HGL Depth	Remark
U/S	D/S				Area	Perimeter	Radius	n	Up Stream	Down Stream	Area	Area	Coeff	mental	ulated	Tc	Storm Freq		Runoff	Captured	Runoff		Slope	Capacity	Flow	Conduit	Slope	Headloss	U/S	D/S	$V_1^2/2g$	$V_2^2/2g$	Type	K_j	H_L	HGL	Curb Elev.	Below T/C	
						Pw					Name		C	C*A	C*A			I	Q_{10}	Q_{10}	Q_{10}	V		Q			S_f											
		(ft)	(in)		(ft^2)							(Ac)				(min)	(yr)		(cfs)	(cfs)	(cfs)	(fps)	(ft/ft)	(cfs)	(yes/no)	(min)		(ft)									(ft)	
20	0	20.00	21.00	RCP	2.41	5.50	0.44	0.013	549.10	547.26	A9	1.82	0.50	0.91	0.91	10.00	100	9.80	9.9	9.9	9.9	4.12	0.0920	48.2	no	0.08	0.0039	0.08	550.78	550.70		0.26	Inlet A9	1.25	0.33	551.11	553.13	2.02	

STORM LAT A10

**Takes into account travel time

Stations		Length	Pipe Size	Type	Pipe	Wetted	Hydraulic	Manning's	Flowline Elevation		Basin	Basin	Runoff	Incre-	Accum-	U/S	Design	Intensity	Basin	*Runoff	**Accumulated	Velocity	Pipe	Pipe	Partial	Time in	Friction	Friction	HGL		Headloss	Calculations	Jct	Coeff	Headloss	Design	Top of	HGL Depth	Remark
U/S	D/S				Area	Perimeter	Radius	n	Up Stream	Down Stream	Area	Area	Coeff	mental	ulated	Tc	Storm Freq		Runoff	Captured	Runoff		Slope	Capacity	Flow	Conduit	Slope	Headloss	U/S	D/S	$V_1^2/2g$	$V_2^2/2g$	Type	K_j	H_L	HGL	Curb Elev.	Below T/C	
						Pw					Name		C	C*A	C*A			I	Q_{10}	Q_{10}	Q_{10}	V		Q			S_f											
		(ft)	(in)		(ft^2)							(Ac)				(min)	(yr)		(cfs)	(cfs)	(cfs)	(fps)	(ft/ft)	(cfs)	(yes/no)	(min)		(ft)									(ft)	
21	0	21.00	21.00	RCP	2.41	5.50	0.44	0.013	557.48	556.38	A10	2.78	0.50	1.39	1.39	10.00	100	9.80	13.6	12.6	12.6	5.24	0.0524	36.4	no	0.07	0.0063	0.13	556.95	556.82		0.43	Inlet A10	1.25	0.53	557.48	561.50	4.02	

REV	BY	DATE	COMMENT
1	PJF	08/22	REVISED RIP-RAP QUANTITY
2	PJF		REVISED FOR FLEXAMAT PLUS
3	NCL	10/25/22	REVISED FOR EXIST. WATER

RECORD DRAWINGS

The information contained hereon was provided by the contractor based on their field installation. The undersigned registered professional engineer did not provide inspection on this project, and therefore makes no warrants concerning the accuracy or completeness of the information provided.

NOVEMBER 29, 2023

Dayton C. Macatee, P.E. – Macatee Engineering, L.L.C. (Tx. Reg. No. F-456) **Date**
12655 N. Central Expy Suite 420, Dallas, Texas 75243 ~ Tel: 214-373-1180

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

STATE OF TEXAS
DAYTON C. MACATEE
65028
REGISTERED
PROFESSIONAL ENGINEER

05/27/2022
DAYTON MACATEE
ENGINEERING, LLC
TX. REG. NO. F-456

DRAINAGE CALCULATIONS

WINDING CREEK

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

MACATEE CIVIL ENGINEERING

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DESIGNED	CHECKED	DATE	DWG FILE	PROJECT #	SHEET NO.
BCP	SDA	11/29/2023	WC_DAM	SKO_WC	28 OF 53

Inlet Calculations

Inlet Designation	Alignment	Station	Offset	Design Freq	Runoff Coefficient	Area ID	Time of Conc (Tc) (min)	Intensity I (in/hr)	Area acre	CA	Throughfare Type	Crown Type	Inlet Type	Runoff Q_{100} (cfs)	Upstream Bypass Q_{100} (cfs)	Total Gutter Flow Q_{100} (cfs)	Long Slope S (ft/ft)	Gutter Capacity (cfs)	Roughness Coefficient n	Cross Slope S_x (ft/ft)	Ponded Width Tallow	Ponded Width Tactual	Depth of Gutter Flow Yallow	Depth of Gutter Flow Yactual	Qallow gutter	Wetted Perimeter Depressed Gutter Pw (ft)	Wetted Perimeter Beyond Depression Po (ft)	Depression Depth a (ft)	Depression Width W (ft)	Area of Depressed Gutter Aw (sf)	Area of Section Beyond Depression Ao (sf)	Flow Depth in Depressed Section (y_o) (ft)	Conveyance in Depressed Gutter Kw (ft)	Conveyance Beyond Depression Ko (ft)	Ratio of Depressed flow to Total Flow (E_o)	Equivalent Cross Section (S_e) (ft/ft)	Required Inlet Length Lr (ft)	Actual Inlet Length La (ft)	Inlet Capacity (cfs)	Bypass Flow (cfs)	CxA	To Inlet	Remark
A1	Orion Drive	2+84.99	14.5	100	0.5	A1	10	9.8	0.52	0.26	local	rooftop	Sag	2.6	0	2.6	0.0246	22.1	0.0175	0.0356	n/a	6.3	n/a	0.2	2.6	2.1	7.9	0.5	2	1.13	1.10	0.40	63.88	25.06	0.45	0.2381	1.00	10	10.6	0	0.00		Sag/Lowpoint
A2	Orion Drive	2+84.65	14.5	100	0.5	A2	10	9.8	1.17	0.58	local	rooftop	Sag	5.7	2.5	8.2	0.0246	22.1	0.0175	0.0356	n/a	9.7	n/a	0.3	8.3	2.1	7.9	0.5	2	1.13	1.10	0.40	63.88	25.06	0.45	0.2381	6.52	10	10.6	0	0.00		Sag/Lowpoint
A3	Orion Drive	5+04.96	14.5	100	0.5	A3	10	9.8	1.00	0.50	local	rooftop	On-Grade	4.9	0	4.9	0.0080	12.6	0.0175	0.0356	14	9.9	0.5	0.4	4.9	2.1	7.9	0.5	2	1.13	1.10	0.40	63.88	25.06	0.72	0.2152	7.84	10	4.9	0.0	0.00		
A4	Orion Drive	5+17.56	14.5	100	0.5	A4	10	9.8	1.94	0.97	local	rooftop	On-Grade	9.5	0.8	10.3	0.0080	12.6	0.0175	0.0356	14	13.0	0.5	0.5	10.4	2.1	11.0	0.5	2	1.36	2.16	0.40	86.49	61.75	0.58	0.1815	11.85	10	8.0	2.3	0.24	A2	
A5	Draco Drive	42+82.38	14.5	100	0.5	A5	10	9.8	1.48	0.74	local	rooftop	On-Grade	7.3	0.7	8.0	0.0070	11.8	0.0175	0.0356	14	12.1	0.5	0.4	8.0	2.1	10.1	0.5	2	1.29	1.82	0.40	79.70	49.07	0.62	0.1903	9.92	10	5.6	2.3	0.24		
A6	Draco Drive	39+76.31	14.5	100	0.5	A6	10	9.8	2.71	1.36	local	rooftop	On-Grade	13.3	0	13.3	0.0159	17.7	0.0175	0.0356	14	12.6	0.5	0.4	13.3	2.1	10.6	0.5	2	1.33	2.00	0.40	83.23	55.48	0.60	0.1856	15.97	15	12.6	0.7	0.07	A5	
A7	Draco Drive	40+21.26	14.5	100	0.5	A7	10	9.8	2.74	1.37	local	rooftop	On-Grade	13.4	0	13.4	0.0159	17.7	0.0175	0.0356	14	12.6	0.5	0.4	13.5	2.1	10.6	0.5	2	1.33	2.01	0.40	83.54	56.07	0.60	0.1852	16.05	15	12.6	0.8	0.08	A4	
A8	Pegasus Lane	14+29.30	14.5	100	0.5	A8	10	9.8	2.17	1.08	local	rooftop	On-Grade	10.6	1.3	11.9	0.0170	18.3	0.0175	0.0356	14	11.9	0.5	0.4	12.0	2.1	9.9	0.5	2	1.28	1.76	0.40	78.46	46.89	0.63	0.1921	15.26	15	11.9	0.1	0.01	A2	
A9	Pegasus Lane	13+83.36	14.5	100	0.5	A9	10	9.8	1.82	0.91	local	rooftop	On-Grade	8.9	1.0	9.9	0.0170	18.3	0.0175	0.0356	14	11.2	0.5	0.4	10.0	2.1	9.2	0.5	2	1.22	1.49	0.40	72.79	37.60	0.66	0.2004	13.78	15	9.9	0.0	0.00		
A10	Pegasus Lane	17+70.92	14.5	100	0.5	A10	10	9.8	2.78	1.39	local	rooftop	On-Grade	13.6	0	13.6	0.0160	17.8	0.0175	0.0356	14	12.7	0.5	0.5	13.7	2.1	10.7	0.5	2	1.33	2.03	0.40	83.95	56.85	0.60	0.1847	16.21	15	12.6	1.0	0.10	A9	
A11	Pegasus Lane	18+82.10	14.5	100	0.5	A11	10	9.8	2.83	1.41	local	rooftop	On-Grade	13.8	0.0	13.8	0.0160	17.8	0.0175	0.0356	14	12.8	0.5	0.5	13.9	2.1	10.8	0.5	2	1.34	2.07	0.40	84.60	58.08	0.59	0.1838	16.38	15	12.5	1.3	0.13	A8	
A12	Phoenix Lane	13+61.08	14.5	100	0.5	A12	10	9.8	1.13	0.56	local	rooftop	On-Grade	5.5	0	5.5	0.0070	11.8	0.0175	0.0356	14	10.6	0.5	0.4	5.5	2.1	8.6	0.5	2	1.18	1.31	0.40	68.66	31.48	0.69	0.2070	8.09	10	5.5	0.0	0.00		
A13	Phoenix Lane	13+65.09	14.5	100	0.5	A13	10	9.8	1.71	0.85	local	rooftop	On-Grade	8.4	0.0	8.4	0.0070	11.8	0.0175	0.0356	14	12.4	0.5	0.4	8.4	2.1	10.4	0.5	2	1.31	1.91	0.40	81.43	52.15	0.61	0.1880	10.21	10	8.3	0.1	0.01	A2	
A15	Phoenix Lane	16+96.92	14.5	100	0.5	A15	10	9.8	3.12	1.56	local	rooftop	On-Grade	15.3	0	15.3	0.0200	19.9	0.0175	0.0356	14	12.7	0.5	0.5	15.4	2.1	10.7	0.5	2	1.33	2.05	0.40	84.20	57.31	0.59	0.1843	18.24	20	15.3	0.0	0.00		
A16	Phoenix Lane	17+05.85	14.5	100	0.5	A16	10	9.8	2.91	1.46	local	rooftop	On-Grade	14.3	0.0	14.3	0.0200	19.9	0.0175	0.0356	14	12.4	0.5	0.4	14.3	2.1	10.4	0.5	2	1.31	1.92	0.40	81.74	52.74	0.61	0.1876	17.53	20	14.3	0.0	0.00		
C1	Phoenix Lane	0+84.56	14.5	100	0.5	C1	10	9.8	1.46	0.73	local	rooftop	On-Grade	7.2	0.0	7.2	0.0170	18.3	0.0175	0.0356	14	9.9	0.5	0.4	7.2	2.1	7.9	0.5	2	1.13	1.10	0.40	63.91	25.10	0.72	0.2151	11.52	15	7.2	0.0	0.00		
C2	Phoenix Lane	0+85.23	14.5	100	0.5	C2	10	9.8	2.24	1.12	local	rooftop	On-Grade	11.0	0	11.0	0.0170	18.3	0.0175	0.0356	14	11.6	0.5	0.4	11.0	2.1	9.6	0.5	2	1.25	1.63	0.40	75.80	42.42	0.64	0.1959	14.56	15	11.0	0.0	0.00		
D1	Quasar Drive	32+44.68	42	100	0.5	D1	10	9.8	3.35	1.68	local	rooftop	Sag	16.4	0	16.4	0.0070	22.1	0.0175	0.0320 *	n/a	17.0	0.5	0.5	16.5	2.1	15.0	0.5	2	1.52	3.60	0.40	105.16	117.57	0.47	0.1500	16.59	20	16.4	0.0	0.00		Sag/Lowpoint
B2	Pegasus Lane	0+81.32	29.5	100	0.5	B2	10	9.8	2.13	1.07	local	rooftop	On-Grade	10.5	0	10.5	0.0082	11.8	0.0175	0.0356	14	13.0	0.5	0.5	10.5	2.1	11.0	0.5	2	1.36	2.17	0.40	86.55	61.87	0.58	0.1814	12.01	15	10.5	0.0	0.00		
B3	Pegasus Lane	0+81.49	29.5	100	0.5	B3	10	9.8	2.61	1.31	local	rooftop	On-Grade	12.8	0	12.8	0.0118	12.7	0.0175	0.0356	14	13.1	0.5	0.5	12.9	2.1	11.1	0.5	2	1.36	2.21	0.40	87.31	63.38	0.58	0.1804	14.63	15	12.8	0.0	0.00		
B4	Pegasus Lane	6+47.50	14.5	100	0.5	B4	10	9.8	2.28	1.14	local	rooftop	On-Grade	11.2	0	11.2	0.0070	15.3	0.0175	0.0356	14	13.8	0.5	0.5	11.2	2.1	11.8	0.5	2	1.41	2.46	0.40	92.15	73.40	0.56	0.1748	12.04	15	11.2	0.0	0.00		
B5	Leo Drive	55+68.42	14.5	100	0.5	B5	10	9.8	1.43	0.71	local	rooftop	On-Grade	7.0	0	7.0	0.0186	11.8	0.0175	0.0356	14	9.6	0.5	0.3	7.0	2.1	7.6	0.5	2	1.11	1.03	0.40	62.22	23.00	0.73	0.2181	11.61	15	7.0	0.0	0.00		
B6	Draco Drive	55+67.92	14.5	100	0.5	B6	10	9.8	2.85	1.42	local	rooftop	On-Grade	14.0	0	14.0	0.0186	19.2	0.0175	0.0356	14	12.5	0.5	0.4	14.0	2.1	10.5	0.5	2	1.32	1.95	0.40	82.20	53.57	0.61	0.1870	17.02	20	14.0	0.0	0.00		
B7	Draco Drive	50+43.11	14.5	100	0.5	B7	10	9.8	2.31	1.15	local	rooftop	On-Grade	11.3	0	11.3	0.0070	19.2	0.0175	0.0356	14	13.8	0.5	0.5	11.4	2.1	11.8	0.5	2	1.41	2.49	0.40	92.67	74.51	0.55	0.1742	12.13	15	11.3	0.0	0.00		
B8	Draco Drive	48+07.17	14.5	100	0.5	B8	10	9.8	2.23	1.12	local	rooftop	On-Grade	10.9	0	10.9	0.0070	11.8	0.0175	0.0356	14	13.7	0.5	0.5	11.0	2.1	11.7	0.5	2	1.40	2.42	0.40	91.33	71.60	0.56	0.1757	11.89	15	10.9	0.0	0.00		
B1	CR 1141	n/a	n/a	100	0.5	B1	10	9.8	1.51	0.76	n/a	n/a	Drop	7.4	0	7.4	n/a			n/a								n/a	n/a														
A17	Clem Road	n/a	n/a	100	0.5	A17	10	9.8	1.56	0.78	n/a	n/a	Drop	7.6	0	7.6	n/a			n/a								n/a	n/a			1.20			n/a	n/a	1.87	2'X2'	n/a	0			

* THE STEEPEST SLOPE WITHIN THE KNUCKLE AREA WAS USED FOR THIS CALCULATION

*Captured runoff includes bypass and crown crossover from upstream and excludes bypass at this inlet
**Takes into account travel time

STORM LINE 1-B

Stations U/S	D/S	Length (ft)	PipeSize (in)	Type	Pipe Area (ft²)	Wetted Perimeter Pw	Hydraulic Radius	Manning's n	Flowline Elevation Up Stream	Flowline Elevation Down Stream	Basin Area Name	Basin Area (Ac)	Runoff Coeff C	Increm'al C*A	Accum'ulated C*A	U/S Tc (min)	Design Storm Freq (yr)	Intensity I	Basin Runoff Q_{10} (cfs)	*Runoff Captured Q_{10} (cfs)	**Accumulated Runoff Q_{10} (cfs)	Velocity V (fps)	Pipe Slope (ft/ft)	Pipe Capacity Q (cfs)	Partial Flow (yes/no)	Time in Conduit (min)	Friction Slope S_f	Friction Headloss (ft)	HGL U/S	HGL D/S	Headloss $V_1^2/2g$	Calculations $V_1^2/2g$	Jct Type	Coeff K_j	Headloss H_j	Design HGL	Top of Curb Elev.	HGL Depth Below T/C	Remark
549	467	82.21	24.00	RCP	3.14	6.28	0.50	0.013	538.06	536.58	B1	1.51	0.50	0.76	0.76	10.00	100	9.80	7.4	0.0	7.4	7.4	2.36	0.0180	30.4	yes	0.58	0.0011	0.09	541.36	541.01	0.09	0.09	Inlet B1	1.25	0.11	541.47	545.00	3.53	
467	300	167.00	24.00	RCP	3.14	6.28	0.50	0.013	536.58	535.25			0.50	0.00	0.76	10.58	100	9.68	0.0	0.0	7.4	2.36	0.0080	20.3	yes	1.18	0.0011	0.18	540.95	540.77	0.09	0.09	45 Deg Bend	0.37	0.05	541.01	544.14	3.13	
300	250	49.68	24.00	RCP	3.14	6.28	0.50	0.013	535.25	534.85	B2	2.13	0.50	1.07	1.82	11.76	100	9.45	10.3	10.3	17.5	5.58	0.0080	20.3	no	0.15	0.0060	0.30	540.33	540.04	0.09	0.48	45Deg Wye	0.50	0.44	540.77	544.14	3.37	
250	237	13.22	48.00	RCP	12.57	12.57	1.00	0.013	534.85	534.80	B8,7,6,5,4	11.10	0.50	5.55	7.37	11.91	100	9.42	54.4	54.4	69.8	5.55	0.0040	91.1	no	0.04	0.0023	0.03	539.82	539.79	0.48	0.48	Manhole	0.55	0.21	540.04	542.61	2.57	
237	74	162.67	48.00	RCP	12.57	12.57	1.00	0.013	535.45	534.80	B3	2.61	0.50	1.31	8.68	11.95	100	9.41	12.8	12.8	82.1	6.53	0.0040	91.1	no	0.42	0.0032	0.53	539.37	538.84	0.48	0.66	45DegWye	0.50	0.42	539.79	-	-	
74	0	74.45	48.00	RCP	12.57	12.57	1.00	0.013	534.80	534.50			0.50	0.00	8.68	12.37	100	9.41			82.1	6.53	0.0040	91.1	no	0.19	0.0032	0.24	538.74	538.50	0.66	0.66	45 Bend	0.37	0.10	539.79	-	-	

*Captured runoff includes bypass and crown crossover from upstream and excludes bypass at this inlet
**Takes into account travel time

STORM LAT B4

Stations U/S	D/S	Length (ft)	PipeSize (in)	Type	Pipe Area (ft²)	Wetted Perimeter Pw	Hydraulic Radius	Manning's n	Flowline Elevation Up Stream	Flowline Elevation Down Stream	Basin Area Name	Basin Area (Ac)	Runoff Coeff C	Increm'al C*A	Accum'ulated C*A	U/S Tc (min)	Design Storm Freq (yr)	Intensity I	Basin Runoff Q_{10} (cfs)	*Runoff Captured Q_{10} (cfs)	**Accumulated Runoff Q_{10} (cfs)	Velocity V (fps)	Pipe Slope (ft/ft)	Pipe Capacity Q (cfs)	Partial Flow (yes/no)	Time in Conduit (min)	Friction Slope S_f	Friction Headloss (ft)	HGL U/S	HGL D/S	Headloss $V_1^2/2g$	Calculations $V_1^2/2g$	Jct Type	Coeff K_j	Headloss H_j	Design HGL	Top of Curb Elev.	HGL Depth Below T/C	Remark
597	577	20.05	21.00	RCP	2.41	5.50	0.44	0.013	541.87	541.67	B4	2.28	0.50	1.14	1.14	10.00	100	9.80	11.2	11.2	11.2	4.66	0.0100	15.9	no	0.07	0.0050	0.10	544.66	544.56		0.34	Inlet B4	1.25	0.42	545.08	547.74	2.66	
577	360	217.61	21.00	RCP	2.41	5.50	0.44	0.013	541.67	539.50	-	0.00	0.50	0.00	1.14	10.07	100	9.79	0.0	0.0	11.2	4.66	0.0100	15.9	no	0.78	0.0050	1.08	544.44	543.36	0.00	0.34	45 Deg Bend	0.37	0.12	544.56	547.00	2.44	
360	37	322.75	36.00	RCP	7.07	9.42	0.75	0.013	539.50	536.27	B5-8	8.82	0.50	4.41	5.55	10.85	100	9.63	43.2	43.2	53.7	7.59	0.0100	66.9	no	0.71	0.0064	2.08	543.03	540.95	0.34	0.89	45 Deg Bend	0.37	0.33	543.36	547.00	3.64	
37	0	37.00	36.00	RCP	7.07	9.42	0.75	0.013	536.27	535.90		0.00	0.50	0.00	5.55	11.56	100	9.49	0.0	0.0	53.7	7.59	0.0100	66.9	no	0.08	0.0064	0.24	540.28	540.04	0.89	0.89	Manhole/Junction at 90 Deg	0.25	0.67	540.95	545.99	5.04	

*Captured runoff includes bypass and crown crossover from upstream and excludes bypass at this inlet
**Takes into account travel time

STORM LAT B8

Stations U/S	D/S	Length (ft)	PipeSize (in)	Type	Pipe Area (ft²)	Wetted Perimeter Pw	Hydraulic Radius	Manning's n	Flowline Elevation Up Stream	Flowline Elevation Down Stream	Basin Area Name	Basin Area (Ac)	Runoff Coeff C	Increm'al C*A	Accum'ulated C*A	U/S Tc (min)	Design Storm Freq (yr)	Intensity I	Basin Runoff Q_{10} (cfs)	*Runoff Captured Q_{10} (cfs)	**Accumulated Runoff Q_{10} (cfs)	Velocity V (fps)	Pipe Slope (ft/ft)	Pipe Capacity Q (cfs)	Partial Flow (yes/no)	Time in Conduit (min)	Friction Slope S_f	Friction Headloss (ft)	HGL U/S	HGL D/S	Headloss $V_1^2/2g$	Calculations $V_1^2/2g$	Jct Type	Coeff K_j	Headloss H_j	Design HGL	Top of Curb Elev.	HGL Depth Below T/C	Remark
844	823	20.47	21.00	RCP	2.41	5.50	0.44	0.013	551.29	550.17	B8	2.23	0.50	1.12	1.12	10.00	100	9.80	10.9	10.9	10.9	4.53	0.0550	37.3	yes	0.08	0.0047	0.10	553.39	553.30		0.32	Inlet B8	1.25	0.40	553.79	556.55	2.76	
823	597	226.11	21.00	RCP	2.41	5.50	0.44	0.013	550.17	549.04	-	0.00	0.50	0.00	1.12	10.08	100	9.78			10.9	4.53	0.0050	11.2	yes	0.83	0.0047	1.06	533.18	532.12	0.32	0.32	45 Deg Bend	0.37	0.12	553.30	556.55	3.25	
597	593	4.00	24.00	RCP	3.14	6.28	0.50	0.013	549.04	549.00	-	0.00	0.50	0.00	1.12	10.91	100	9.62			10.9	3.47	0.0095	22.1	yes	0.02	0.0023	0.01	552.04	552.03	0.32	0.19	Pipe Size Change	-	0.07	552.12	554.90	2.78	
593	370	222.97	24.00	RCP	3.14	6.28	0.50	0.013	549.00	546.21	B7	2.31	0.50	1.16	2.27	10.93	100	9.61	11.3	11.3	22.0	7.00	0.0125	25.4	yes	0.53	0.0094	2.10	551.43	548.80	0.32	0.76	45 Deg Wye	0.50	0.60	552.03	554.90	2.87	
370	51	319.75	24.00	RCP	3.14	6.28	0.50	0.013	546.21	540.17	-	0.00	0.50	0.00	2.27	11.46	100	9.51			22.0	7.00	0.0189	31.2	yes	0.76	0.0094	3.01	548.46	544.33	0.76	0.76	Manhole/90deg Turn	0.55	0.34	548.80	552.30	3.50	
51	47	4.00	30.00	RCP	4.91	7.85	0.63	0.013	540.17	540.11	-	0.00	0.50	0.00	2.27	12.22	100	9.36			22.0	4.48	0.0140	48.7	no	0.01	0.0029	0.01	544.06	544.05	0.76	0.31	Pipe Size Change	-	0.27	544.33	547.00	2.67	
47	41	6.03	36.00	RCP	7.07	9.42	0.75	0.013	540.11	540.03	B5	1.43	0.50	0.72	2.99	12.23	100	9.35	7.0	7.0	28.7	4.06	0.0140	79.1	no	0.02	0.0018	0.01	543.95	543.94	0.31	0.26	45 Deg Wye	0.50	0.10	544.05	547.00	2.95	
41	0	40.80	36.00	RCP	7.07	9.42	0.75	0.013	540.03	539.46	B6	2.85	0.50	1.43	4.41	12.26	100	9.35	14.0	14.0	42.0	5.94	0.0140	79.1	no	0.11	0.0039	0.16	543.52	543.36	0.26	0.55	45 Deg Wye	0.50	0.42	543.94	547.00	3.06	

STORM LAT B2

**Takes into account travel time

Stations U/S	D/S	Length (ft)	PipeSize (in)	Type	Pipe Area (ft²)	Wetted Perimeter Pw	Hydraulic Radius	Manning's n	Flowline Elevation Up Stream	Flowline Elevation Down Stream	Basin Area Name	Basin Area (Ac)	Runoff Coeff C	Increm'al C*A	Accum'ulated C*A	U/S Tc (min)	Design Storm Freq (yr)	Intensity I	Basin Runoff Q_{10} (cfs)	*Runoff Captured Q_{10} (cfs)	**Accumulated Runoff Q_{10} (cfs)	Velocity V (fps)	Pipe Slope (ft/ft)	Pipe Capacity Q (cfs)	Partial Flow (yes/no)	Time in Conduit (min)	Friction Slope S_f	Friction Headloss (ft)	HGL U/S	HGL D/S	Headloss $V_1^2/2g$	Calculations $V_1^2/2g$	Jct Type	Coeff K_j	Headloss H_j	Design HGL	Top of Curb Elev.	HGL Depth Below T/C	Remark
9	0	9.00	21.00	RCP	2.41	5.50	0.44	0.013	539.24	538.00	B2	2.13	0.50	1.07	1.07	10.00	100	9.80	10.5	10.5	10.5	4.37	0.1378	59.0	no	0.03	0.0044	0.04	539.83	539.79		0.30	Inlet B2	1.25	0.37	540.20	543.72	3.52	

STORM LAT B3

**Takes into account travel time

Stations U/S	D/S	Length (ft)	PipeSize (in)	Type	Pipe Area (ft²)	Wetted Perimeter Pw	Hydraulic Radius	Manning's n	Flowline Elevation Up Stream	Flowline Elevation Down Stream	Basin Area Name	Basin Area (Ac)	Runoff Coeff C	Increm'al C*A	Accum'ulated C*A	U/S Tc (min)	Design Storm Freq (yr)	Intensity I	Basin Runoff Q_{10} (cfs)	*Runoff Captured Q_{10} (cfs)	**Accumulated Runoff Q_{10} (cfs)	Velocity V (fps)	Pipe Slope (ft/ft)	Pipe Capacity Q (cfs)	Partial Flow (yes/no)	Time in Conduit (min)	Friction Slope S_f	Friction Headloss (ft)	HGL U/S	HGL D/S	Headloss $V_1^2/2g$	Calculations $V_1^2/2g$	Jct Type	Coeff K_j	Headloss H_j	Design HGL	Top of Curb Elev.	HGL Depth Below T/C	Remark
10	0	10.28	24.00	RCP	3.14	6.28	0.50	0.013	539.18	536.82	B3	2.61	0.50	1.31	1.31	10.00	100	9.80	12.8	12.8	12.8	4.07	0.2292	108.6	no	0.04	0.0032	0.03	539.83	539.79		0.26	Inlet B3	1.25	0.32	540.15	543.09	2.94	

STORM LAT B5

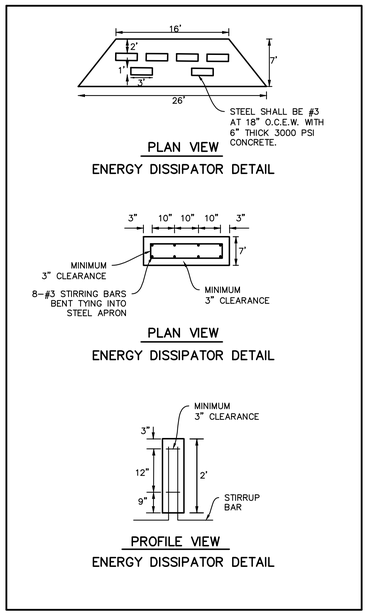
**Takes into account travel time

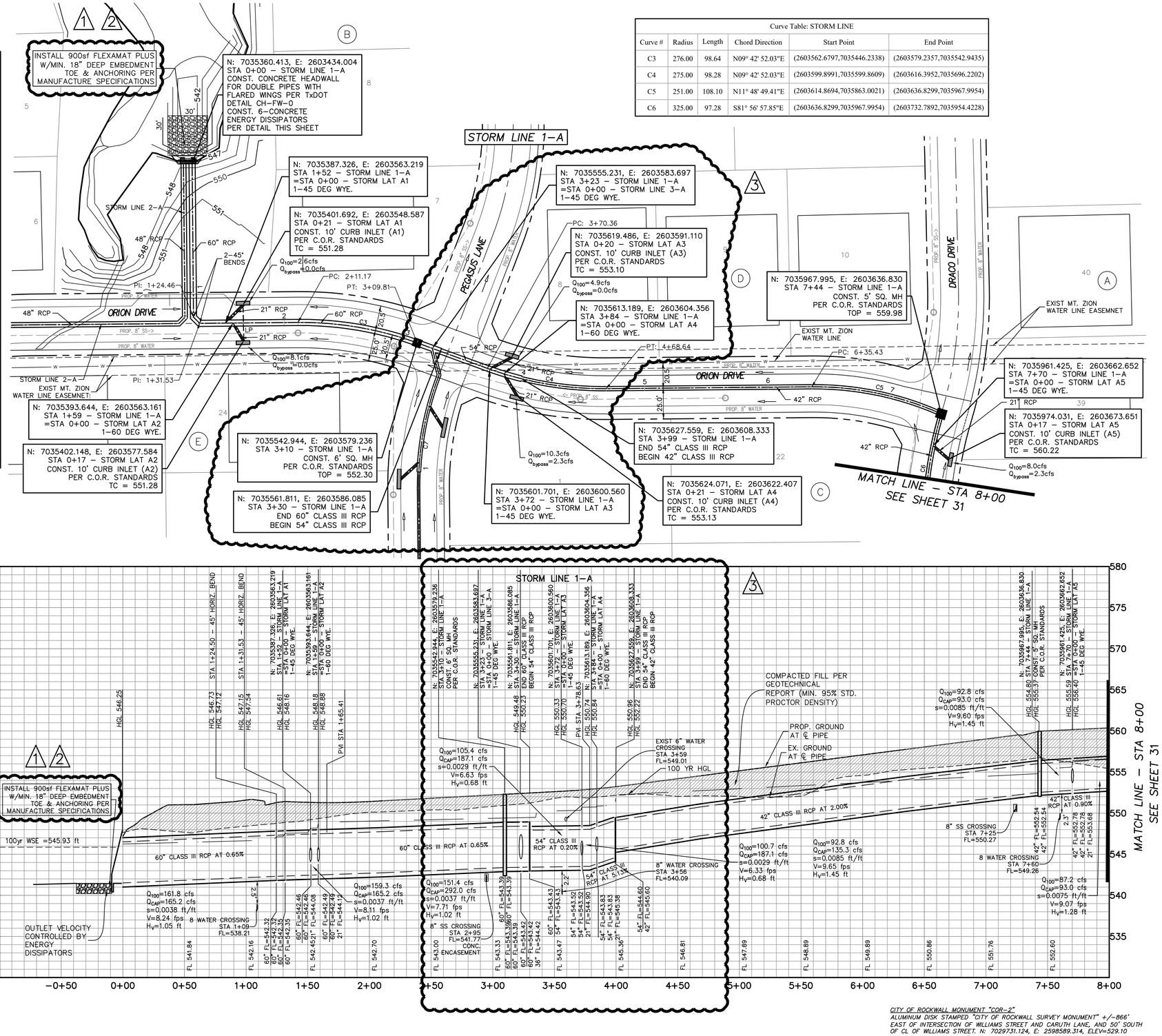
Stations U/S	D/S	Length (ft)	PipeSize (in)	Type	Pipe Area (ft²)	Wetted Perimeter Pw	Hydraulic Radius	Manning's n	Flowline Elevation Up Stream	Flowline Elevation Down Stream	Basin Area Name	Basin Area (Ac)	Runoff Coeff C	Increm'al C*A	Accum'ulated C*A	U/S Tc (min)	Design Storm Freq (yr)	Intensity I	Basin Runoff Q_{10} (cfs)	*Runoff Captured Q_{10} (cfs)	**Accumulated Runoff Q_{10} (cfs)	Velocity V (fps)	Pipe Slope (ft/ft)	Pipe Capacity Q (cfs)	Partial Flow (yes/no)	Time in Conduit (min)	Friction Slope S_f	Friction Headloss (ft)	HGL U/S	HGL D/S	Headloss $V_1^2/2g$	Calculations $V_1^2/2g$	Jct Type	Coeff K_j	Headloss H_j	Design HGL	Top of Curb Elev.	HGL Depth Below T/C	Remark
17	0	17.00	21.00	RCP	2.41	5.50	0.44	0.013	543.03	541.06	B5	1.43	0.50	0.72	0.72	10.00	100	9.80	7.0	7.0	7.0	2.91	0.1156	54.0	no	0.10	0.0019	0.03	544.08	544.05		0.13	Inlet B5	1.25	0.16	544.25	547.00	2.75	

STORM LAT B6

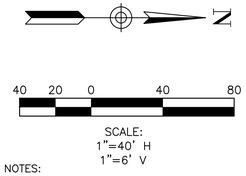
**Takes into account travel time

Stations U/S	D/S	Length (ft)	PipeSize (in)	Type	Pipe Area (ft²)	Wetted Perimeter Pw	Hydraulic Radius	Manning's n	Flowline Elevation Up Stream	Flowline Elevation Down Stream	Basin Area Name	Basin Area (Ac)	Runoff Coeff C	Increm'al C*A	Accum'ulated C*A	U/S Tc (min)	Design Storm Freq (yr)	Intensity I	Basin Runoff Q_{10} (cfs)	*Runoff Captured Q_{10} (cfs)	**Accumulated Runoff Q_{10} (cfs)	Velocity V (fps)	Pipe Slope (ft/ft)	Pipe Capacity Q (cfs)	Partial Flow (yes/no)	Time in Conduit (min)	Friction Slope S_f	Friction Headloss (ft)	HGL U/S	HGL D/S	Headloss $V_1^2/2g$	Calculations $V_1^2/2g$	Jct Type	Coeff K_j	Headloss H_j	Design HGL	Top of Curb Elev.	HGL Depth Below T/C	Remark
21	0	21.00	21.00	RCP	2.41	5.50	0.44	0.013	543.90	541.04	B6	2.85	0.50	1.43	1.43	10.00	100	9.80	14.0	14.0	14.0	5.82	0.1364	58.7	no	0.06	0.0078	0.16	544.31	544.15		0.53	Inlet B6	1.25	0.66	544.97	547.00	2.03	





Curve Table: STORM LINE					
Curve #	Radius	Length	Chord Direction	Start Point	End Point
C3	276.00	98.64	N09° 42' 52.03"E	(2603562.6797,7035446.2338)	(2603579.2357,7035542.9435)
C4	275.00	98.28	N09° 42' 52.03"E	(2603599.8991,7035599.8609)	(2603616.3952,7035696.2202)
C5	251.00	108.10	N11° 48' 49.41"E	(2603614.8694,7035863.0021)	(2603636.8299,7035967.9954)
C6	325.00	97.28	S81° 56' 57.85"E	(2603636.8299,7035967.9954)	(2603732.7892,7035954.4228)



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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.

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

SEE THE CITY OF ROCKWALL STANDARDS OF DESIGN AND CONSTRUCTION, DATED OCTOBER 2019 FOR MODIFICATIONS TO NCTCOG DETAILS.

ALL STORM PIPE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED

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

REV	BY	DATE	COMMENT
1	PJF	08/22	REVISED RIP–RAP QUANTITY
2	PJF		REVISED FOR FLEXAMAT PLUS
3	NCL	10/25/22	REVISED FOR EXIST. WATER

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 DRAWINGS

The information contained hereon was provided by the contractor based on their field installation. The undersigned registered professional engineer did not provide inspection on this project, and therefore makes no warrants concerning the accuracy or completeness of the information provided.

NOVEMBER 29, 2023

Dayton C. Macatee, P.E. – Macatee Engineering, L.L.C. (Tx. Reg. No. F-456) Date
12655 N. Central Expy Suite 420, Dallas, Texas 75243 ~ Tel: 214-373-1180

STATE OF TEXAS
DAYTON C. MACATEE
65028
REGISTERED
PROFESSIONAL ENGINEER
11/29/2023

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

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 ℄ 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

STORM SEWER PLAN & PROFILE

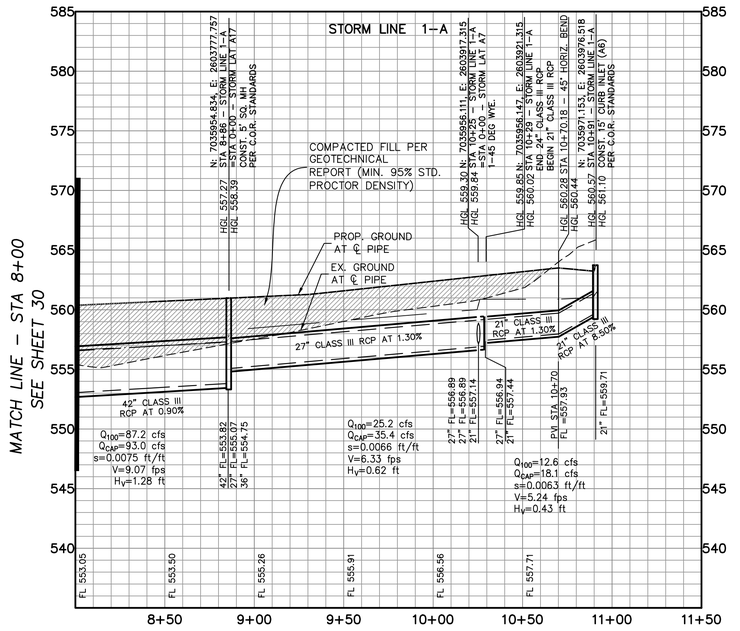
WINDING CREEK

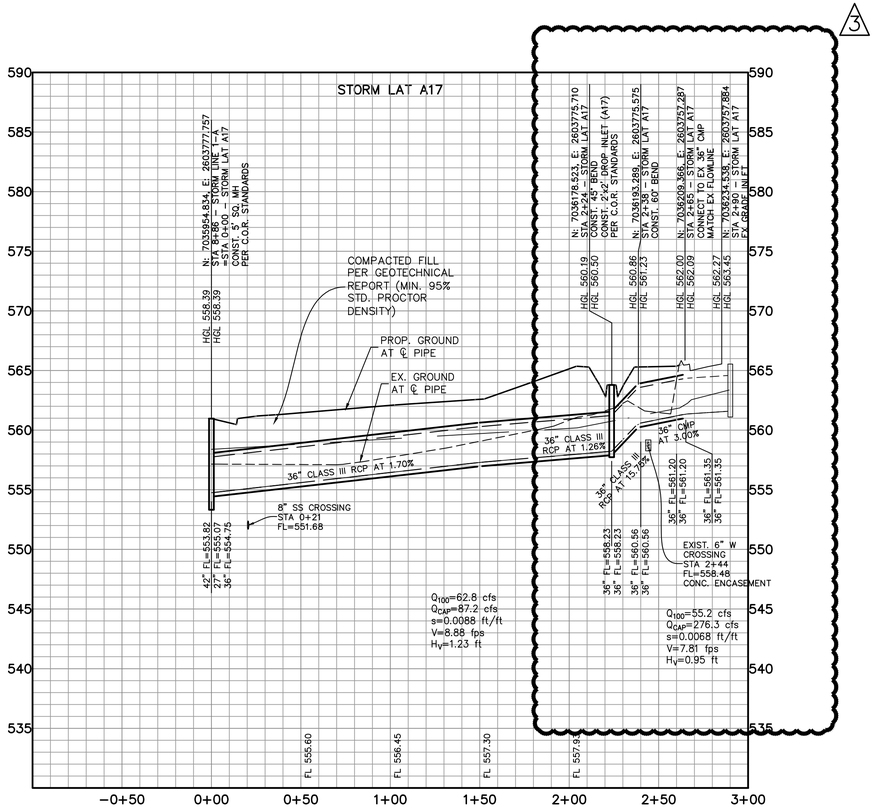
CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

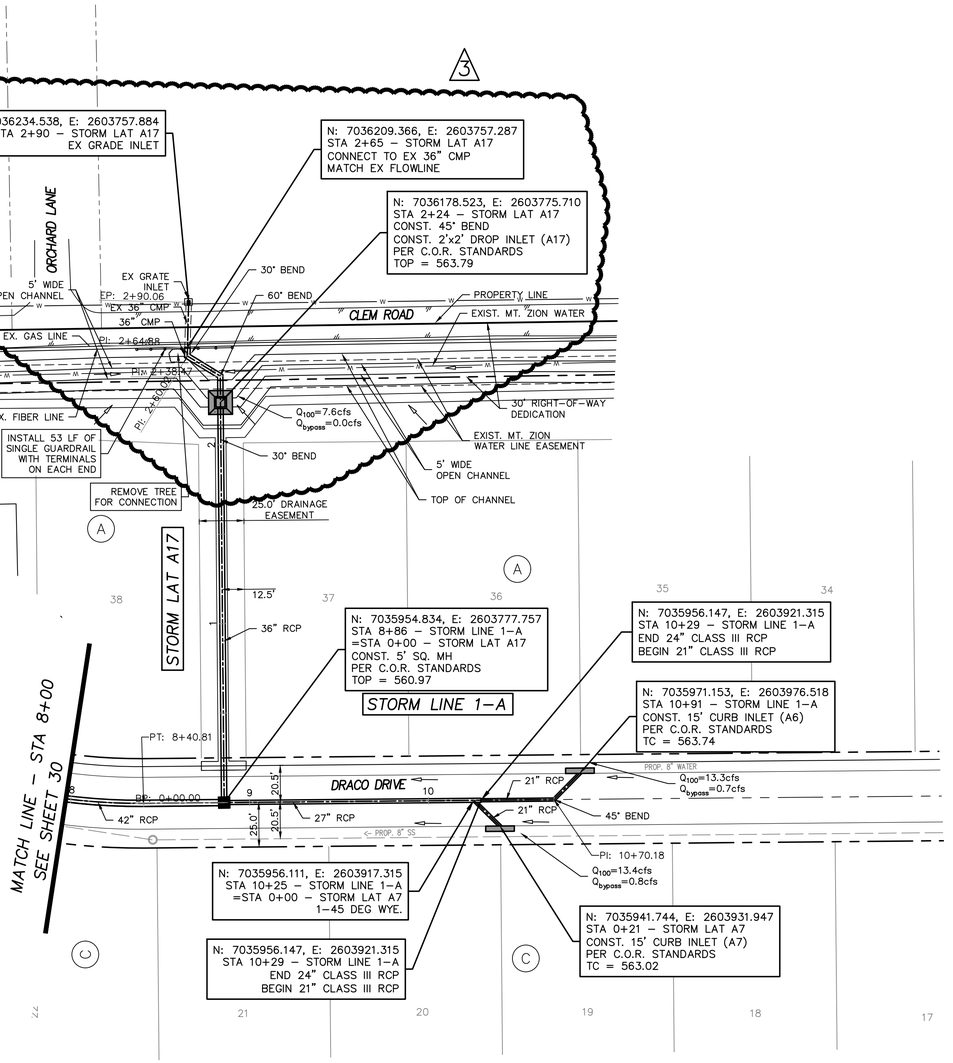
MACATEE CIVIL ENGINEERING

CIVIL ENGINEERING DESIGN & CONSULTING
(Tex. Reg. No. F-456)
12655 N. CENTRAL EXPWY, SUITE 420
DALLAS, TEXAS 75243
TEL 214-373-1180 * FAX 214-373-6580
daytonm@macatee-engineering.com
phillipf@macatee-engineering.com

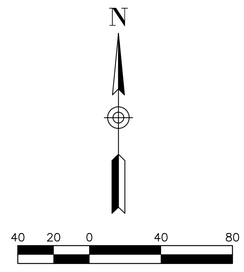
DESIGNED	CHECKED	DATE	DWG FILE	PROJECT #	SHEET NO.
BCP	SDA	11/29/2023	WC_STORM	SKO_WC	30 OF 53







REV	BY	DATE	COMMENT
1	PJF	08/22	REVISED RIP-RAP QUANTITY
2	PJF		REVISED FOR FLEXAMAT PLUS
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⟵	DIRECTION OF FLOW
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NOVEMBER 29, 2023

Dayton C. Macatee, P.E. – Macatee Engineering, L.L.C. (Tx. Reg. No. F-456) Date
12655 N. Central Expy Suite 420, Dallas, Texas 75243 ~ Tel: 214-373-1180

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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STATE OF TEXAS
DAYTON C. MACATEE
65028
REGISTERED
PROFESSIONAL ENGINEER
11/29/2023

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

STORM SEWER PLAN & PROFILE

WINDING CREEK

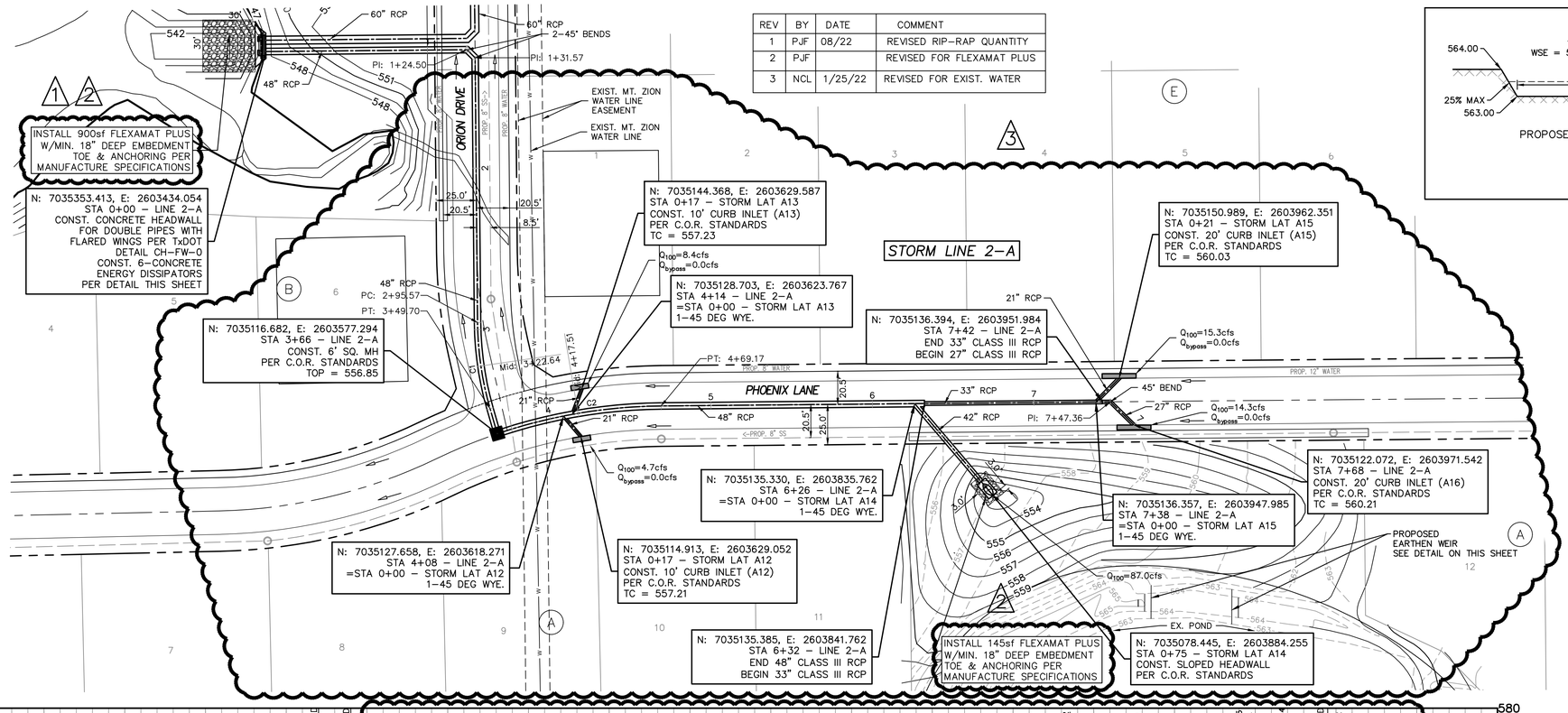
CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

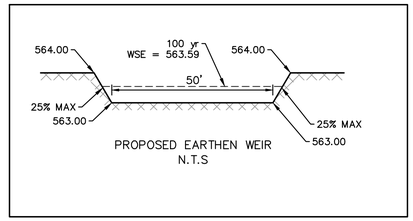
MACATEE
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DESIGNED	CHECKED	DATE	DWG FILE	PROJECT #	SHEET NO.
BCP	SDA	11/29/2023	WC_STORM	SKO_WC	31 OF 53

REV	BY	DATE	COMMENT
1	PJF	08/22	REVISED RIP-RAP QUANTITY
2	PJF		REVISED FOR FLEXAMAT PLUS
3	NCL	1/25/22	REVISED FOR EXIST. WATER







40 20 0 40 80

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

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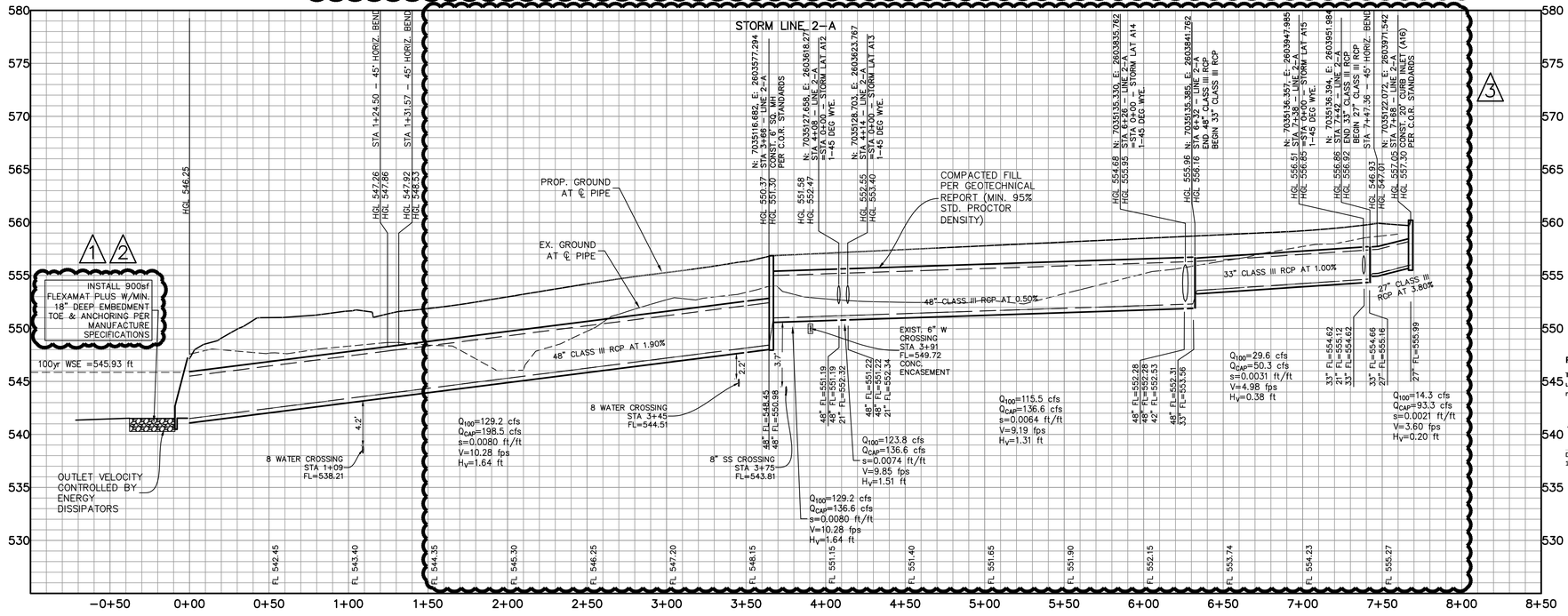
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LEGEND	
⟵	DIRECTION OF FLOW
TC	TOP OF CURB
FL	FLOW LINE
℄	CENTERLINE



Curve Table: STORM LINE					
Curve #	Radius	Length	Chord Direction	Start Point	End Point
C1	200.00	54.13	S08° 16' 38.03"E	(2603565.0640,7035185.6020)	(2603572.8325,7035132.2023)
C2	325.00	103.32	N80° 22' 07.57"E	(2603577.2921,7035116.6810)	(2603678.7242,7035133.8939)

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

REV	BY	DATE	COMMENT
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2	PJF		REVISED FOR FLEXAMAT PLUS
3	NCL	10/25/22	REVISED FOR EXIST. WATER

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NOVEMBER 29, 2023
Date

STATE OF TEXAS
DAYTON C. MACATEE
65028
REGISTERED
PROFESSIONAL ENGINEER

11/29/2023

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STORM SEWER PLAN & PROFILE

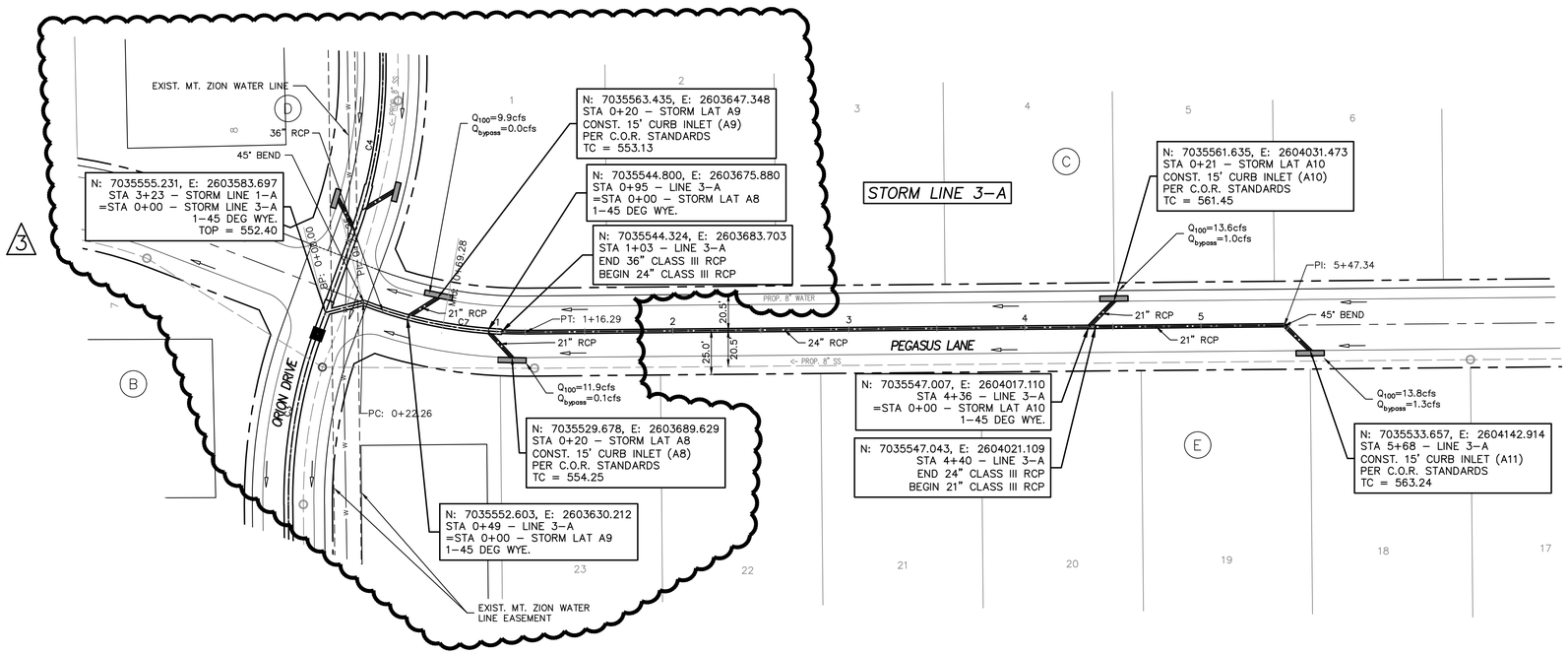
WINDING CREEK

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

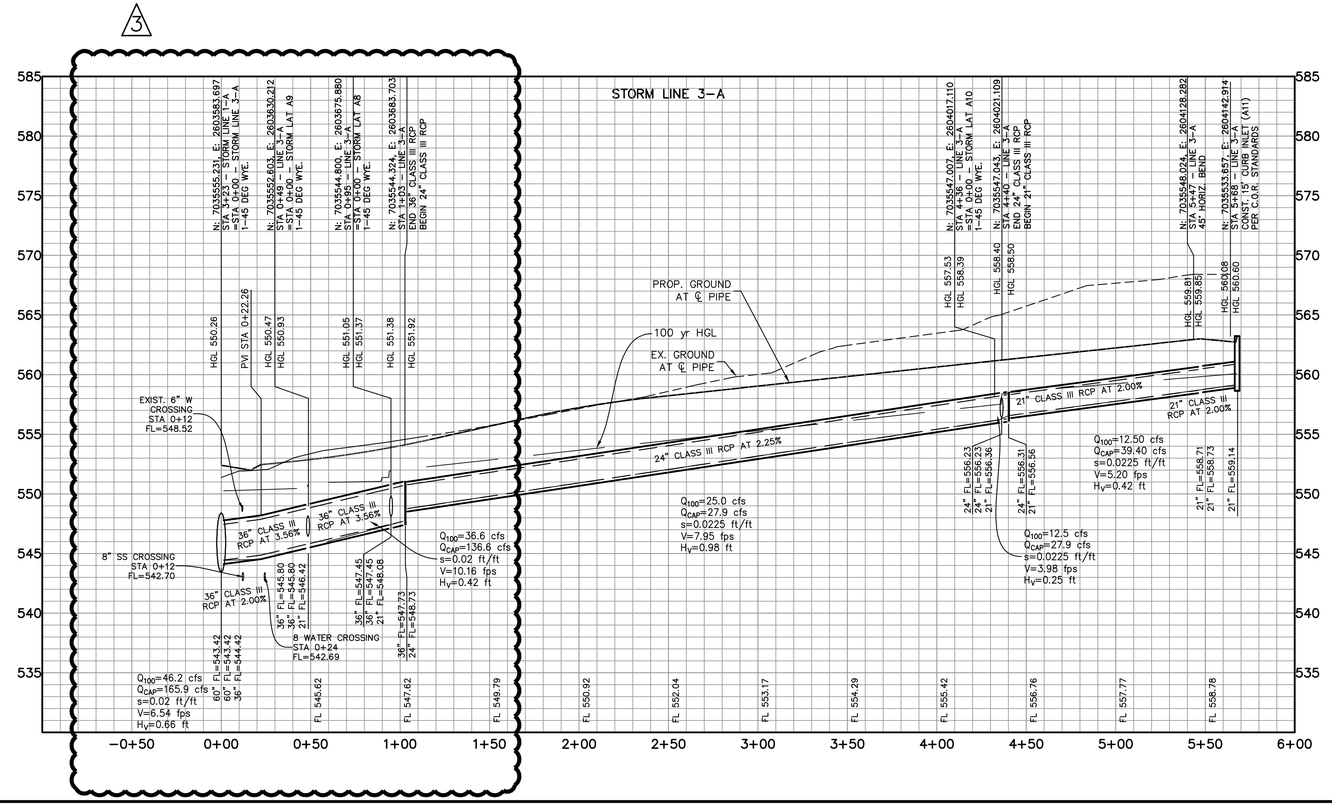
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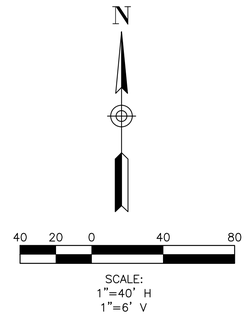
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DESIGNED	CHECKED	DATE	DWG FILE	PROJECT #	SHEET NO.
BCP	SDA	11/29/2023	WC_STORM	SKO_WC	32 OF 53



Curve Table: STORM LINE					
Curve #	Radius	Length	Chord Direction	Start Point	End Point
C7	250.00	94.04	S79° 44' 53.21"E	(2603605.2649,7035560.7186)	(2603697.2574,7035544.0806)





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

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NOVEMBER 29, 2023

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11/29/2023
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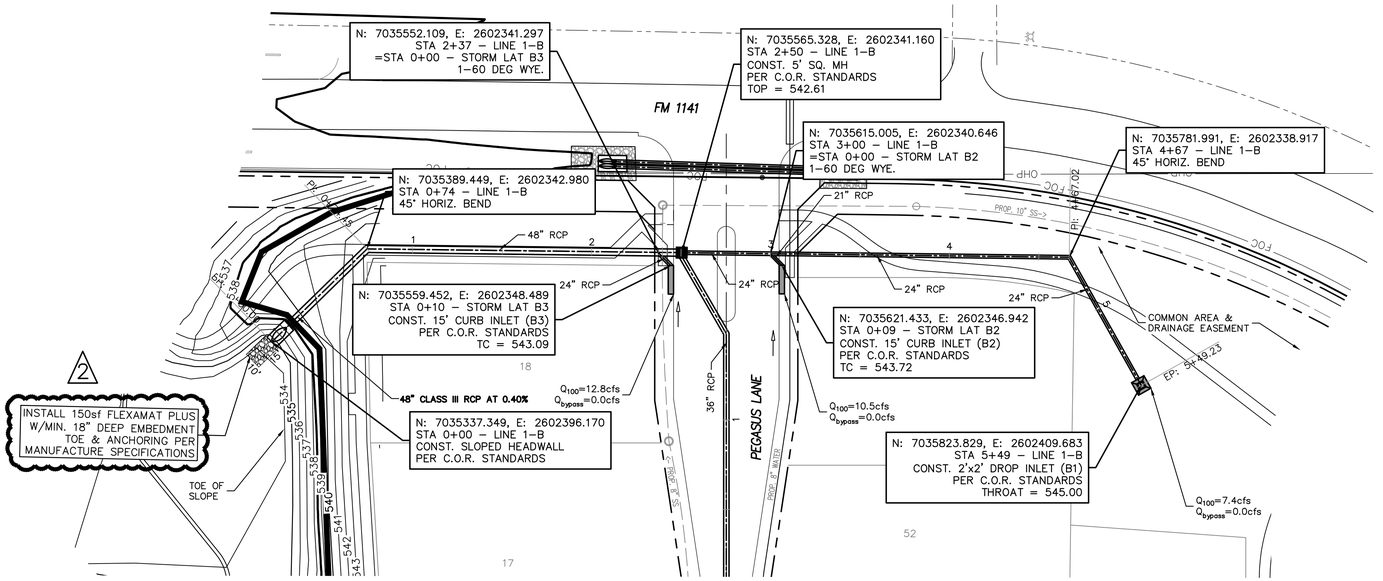
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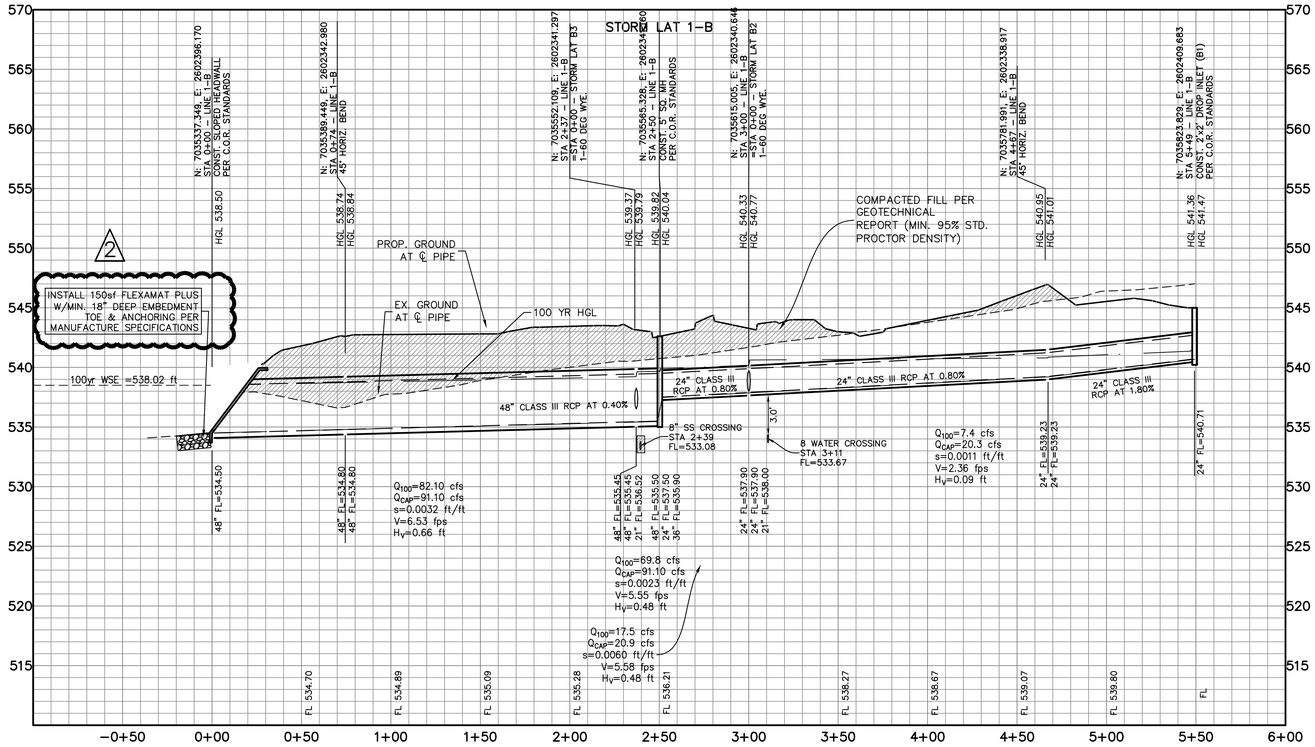
WINDING CREEK

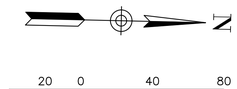
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DESIGNED	CHECKED	DATE	DWG FILE	PROJECT #	SHEET NO.
BCP	SDA	11/29/2023	WC_STORM	SKO_WC	33 OF 53







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

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11/29/2023

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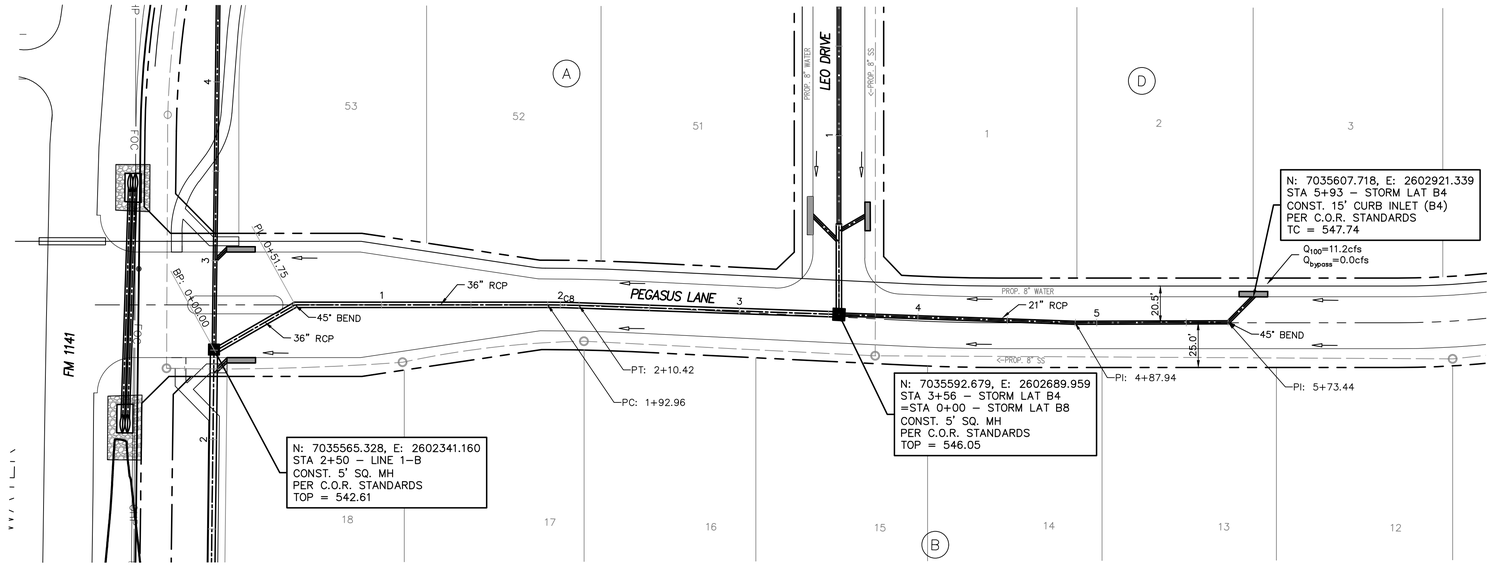
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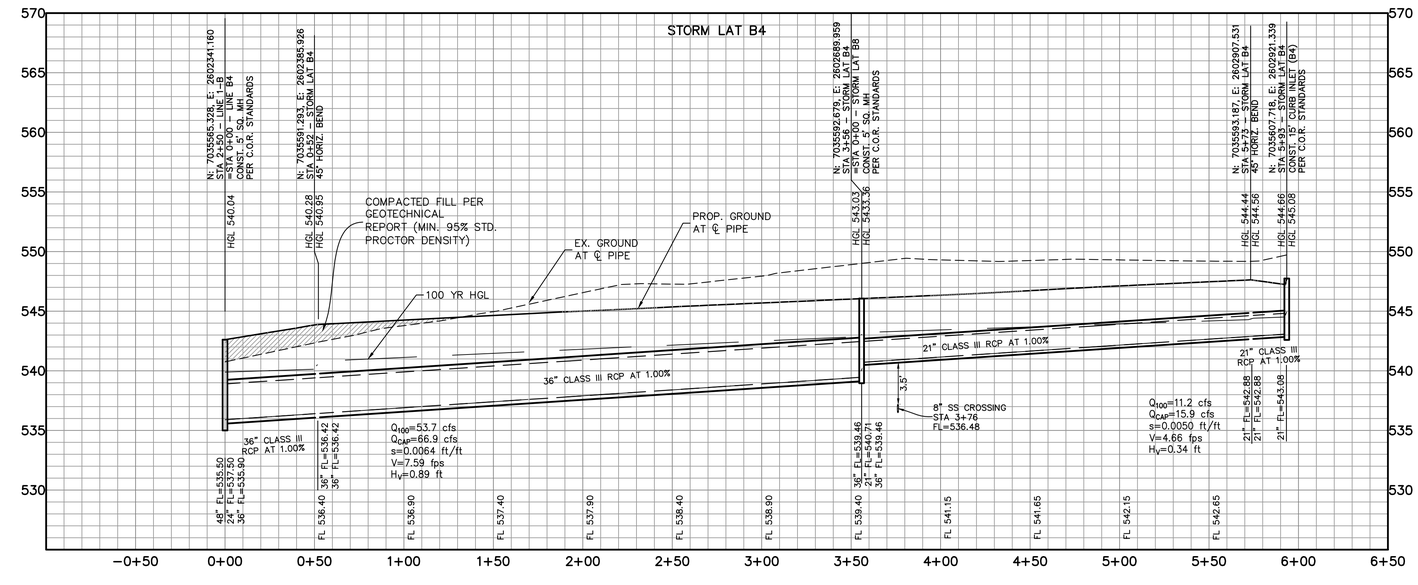
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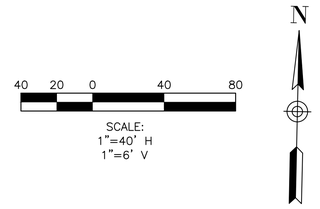
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DESIGNED	CHECKED	DATE	DWG FILE	PROJECT #	SHEET NO.
BCP	SDA	11/29/2023	WC_STORM	SKO_WC	34 OF 53



Curve Table: STORM LINE					
Curve #	Radius	Length	Chord Direction	Start Point	End Point
C8	500.00	17.47	N89° 43' 29.97"E	(2602527.0963,7035594.4371)	(2602544.5626,7035594.5209)





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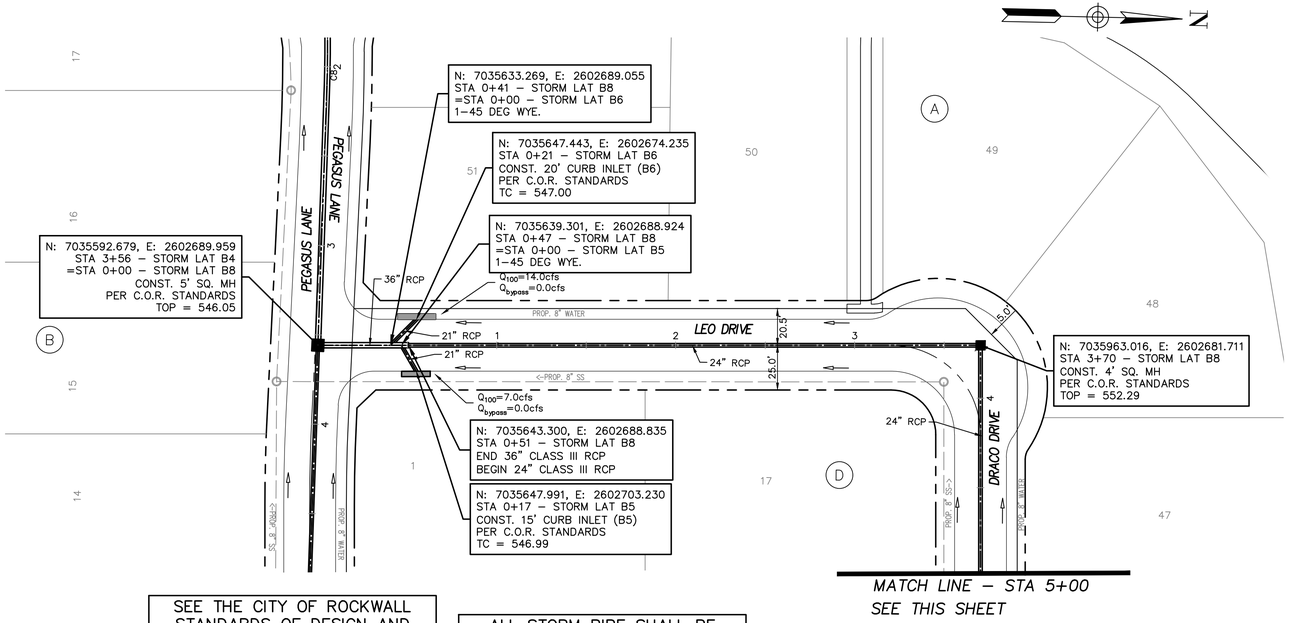
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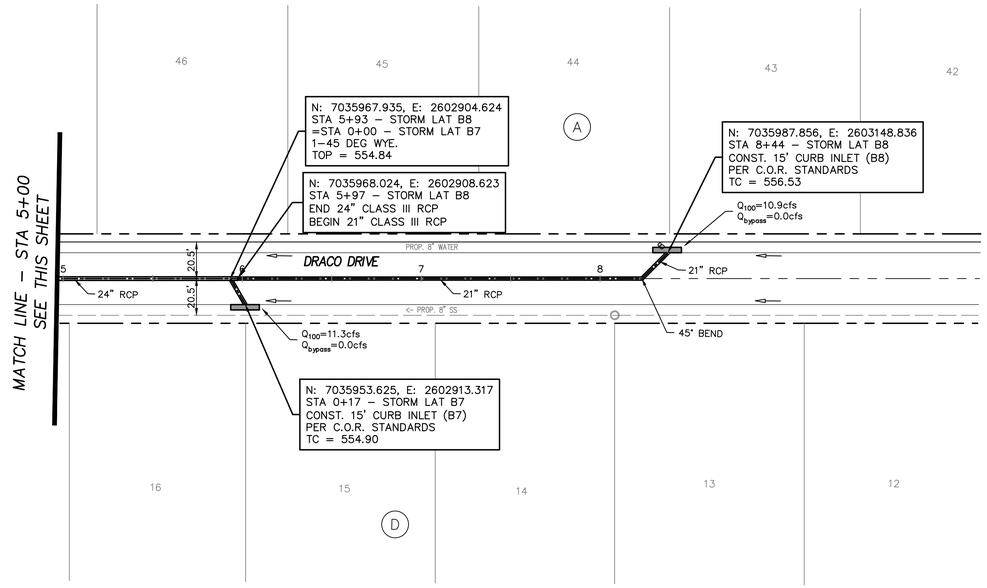
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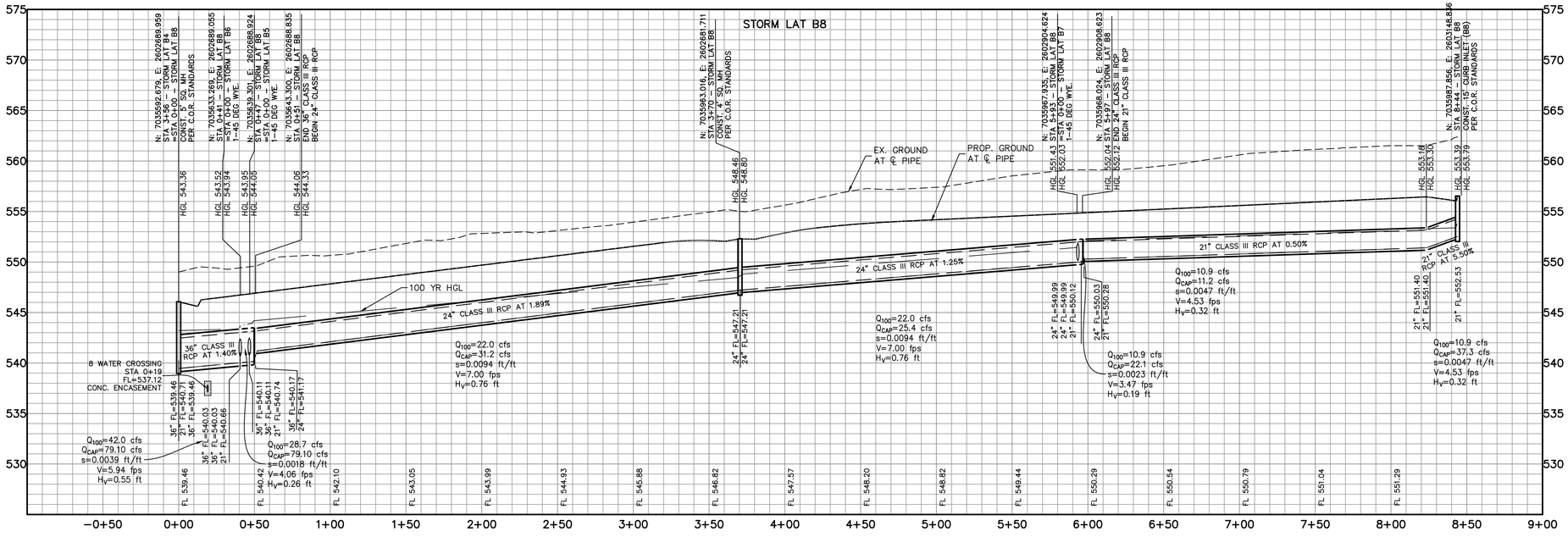
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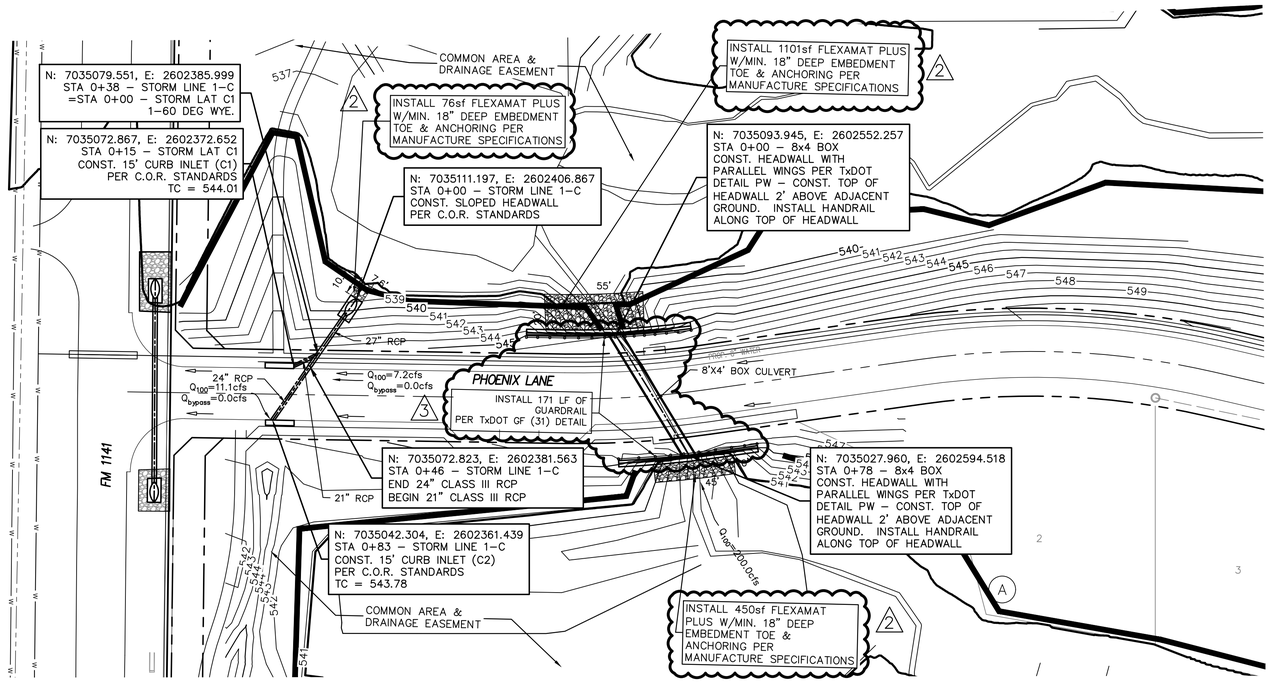
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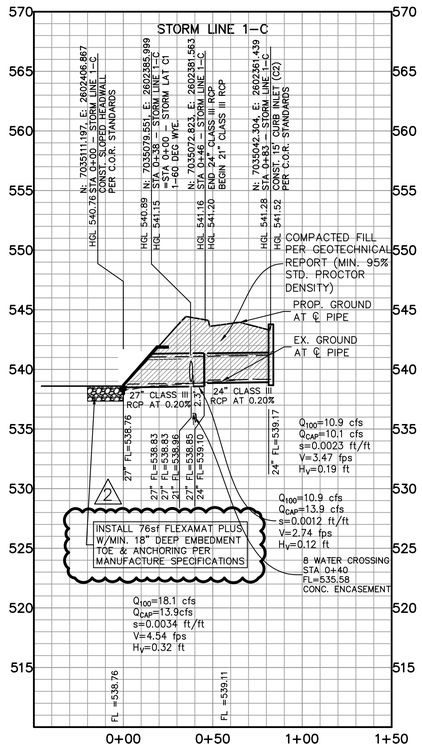
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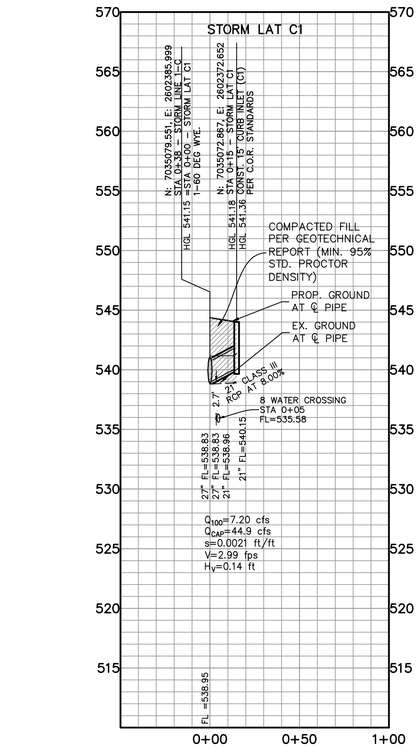
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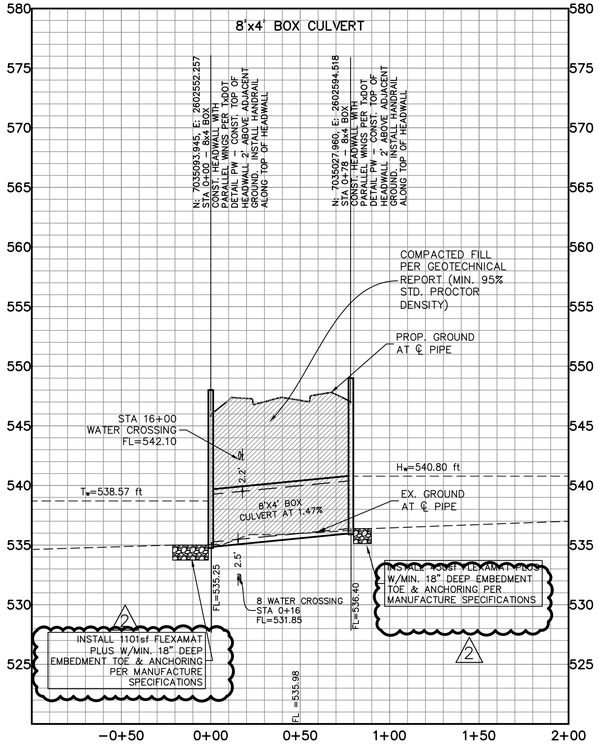
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Date

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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

N

40 20 0 40 80

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

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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ALL STORM PIPE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED

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

REV NO.	DATE	DESCRIPTION	BY
3	9-6-23	REVISED PER CITY COMMENTS	DCM

STATE OF TEXAS
DAYTON C. MACATEE
65028
REGISTERED
PROFESSIONAL ENGINEER
11/29/2023

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

STORM SEWER PLAN & PROFILE

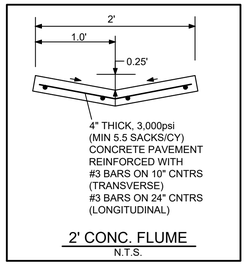
WINDING CREEK

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

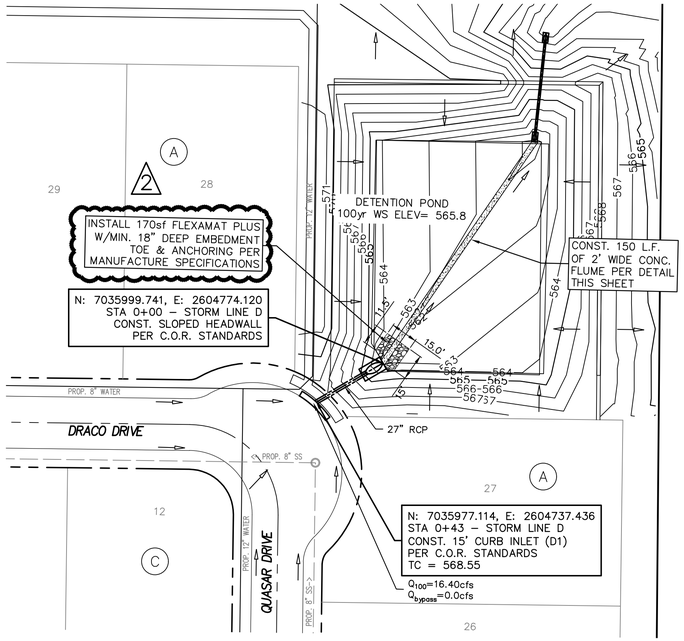
MACATEE CIVIL ENGINEERING

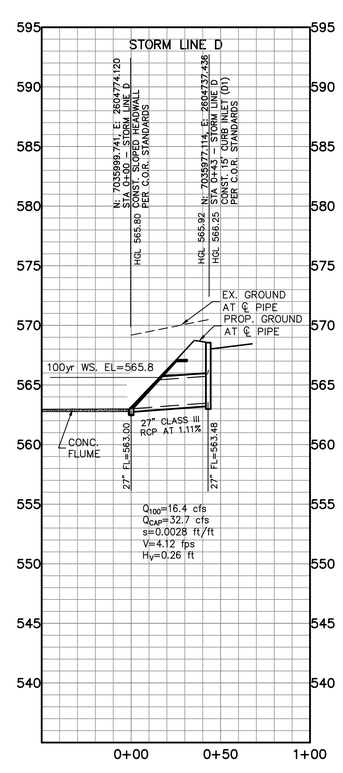
CIVIL ENGINEERING DESIGN & CONSULTING
(Tex. Reg. No. F-456)
12655 N. CENTRAL EXPWY, SUITE 420
DALLAS, TEXAS 75243
TEL 214-373-1180 * FAX 214-373-6580
daytonm@macatee-engineering.com
phillipf@macatee-engineering.com

DESIGNED	CHECKED	DATE	DWG FILE	PROJECT #	SHEET NO.
BCP	SDA	11/29/2023	WC_STORM	SKO_WC	37 OF 53

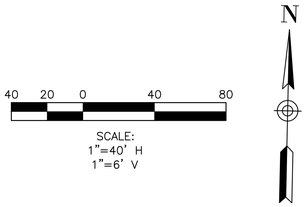


2' CONC. FLUME
N.T.S.





Proposed East Pond Results Summary				
Rain Event	Peak Inflow	Peak Outflow	Peak Storage	Peak Elevation
	cfs	cfs	acre-ft	ft
5-yr	17.8	6.3	0.5	564.2
10-yr	21.6	6.9	0.6	564.7
25-yr	25.5	7.4	0.8	565.1
100-yr	32.7	8.3	1.1	565.8



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



11/29/2023

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

RECORD DRAWINGS

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NOVEMBER 29, 2023

Dayton C. Macatee, P.E. – Macatee Engineering, L.L.C. (Tx. Reg. No. F-456) **Date**
12655 N. Central Expy Suite 420, Dallas, Texas 75243 ~ Tel: 214-373-1180

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STORM SEWER PLAN & PROFILE

WINDING CREEK

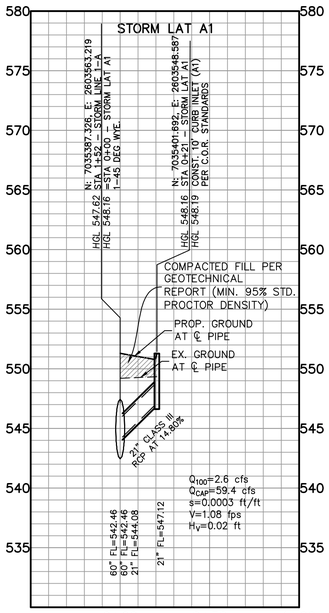
CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

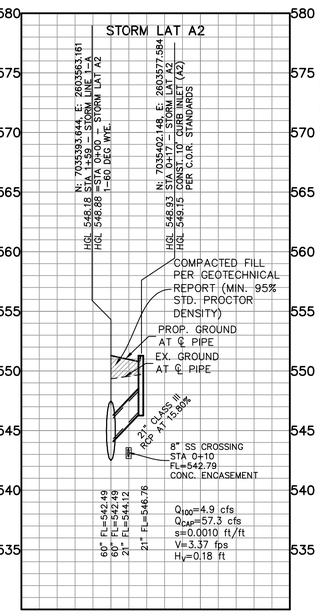
MACATEE
CIVIL ENGINEERING

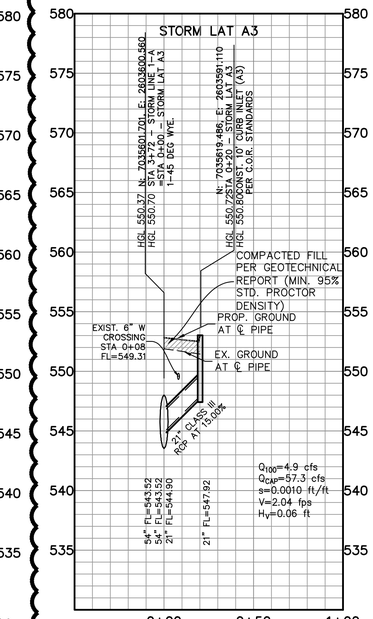
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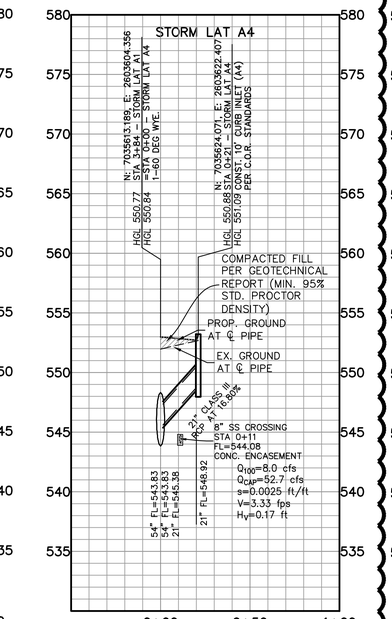
DESIGNED	CHECKED	DATE	DWG FILE	PROJECT #	SHEET NO.
BCP	SDA	11/29/2023	WC_STORM	SKO_WC	38 OF 53

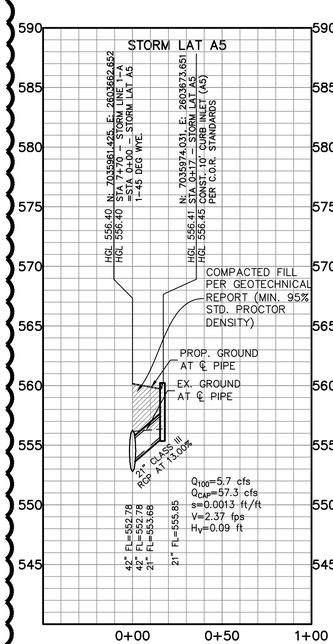
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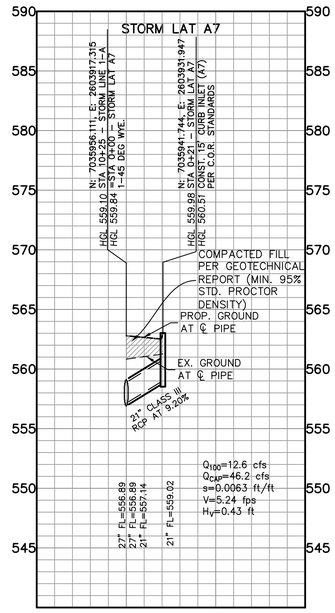


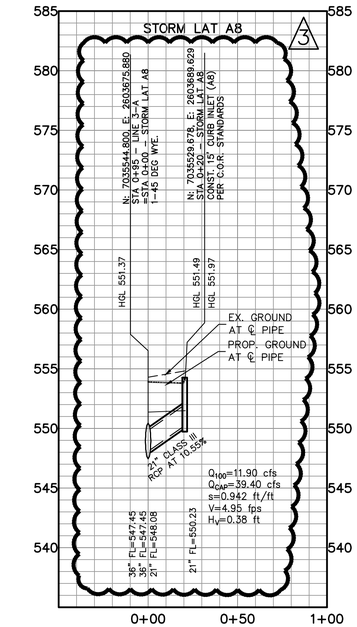












SCALE:
1"=40' H
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40 20 0 40 80

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REV	BY	DATE	COMMENT
1	PJF	08/22	REVISED RIP-RAP QUANTITY
2	PJF		REVISED FOR FLEXAMAT PLUS
3	NCL	10/25/22	REVISED FOR EXIST. WATER

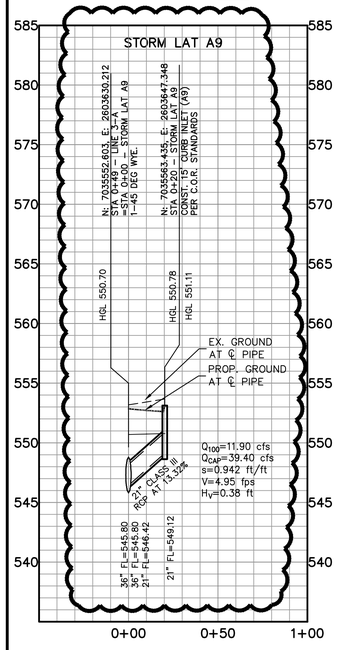
GENERAL NOTES:

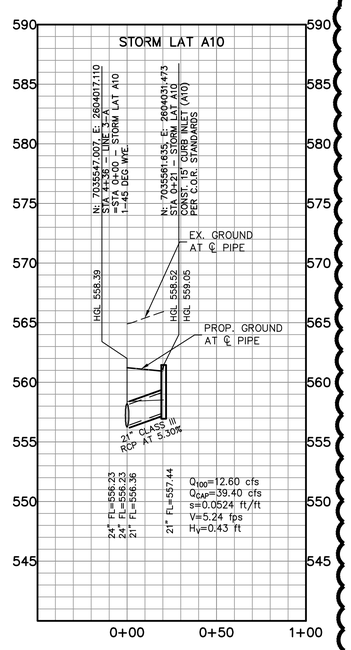
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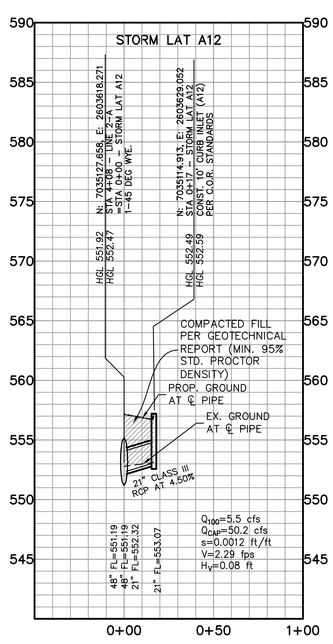
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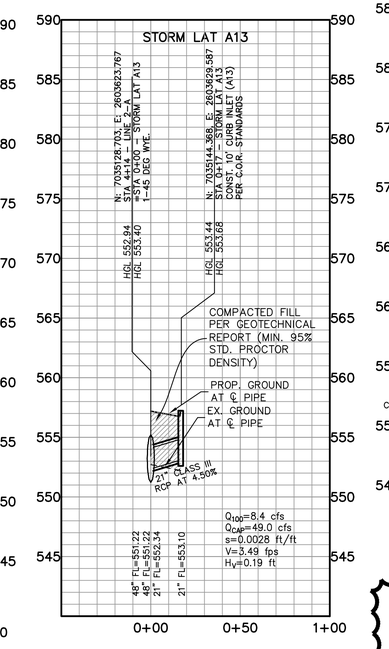
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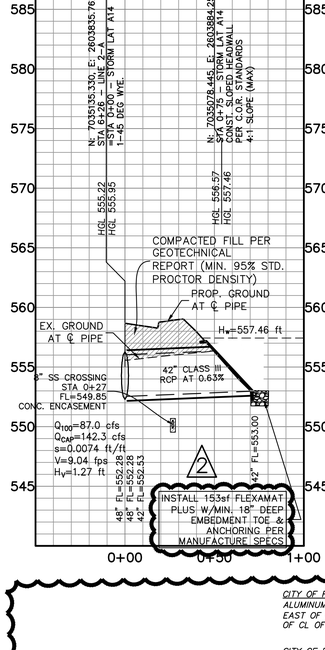
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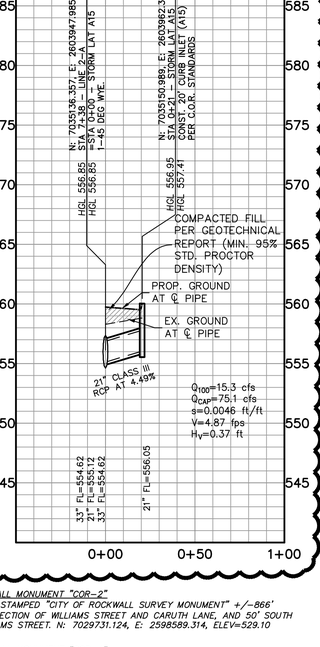












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STATE OF TEXAS
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STORM SEWER PROFILES

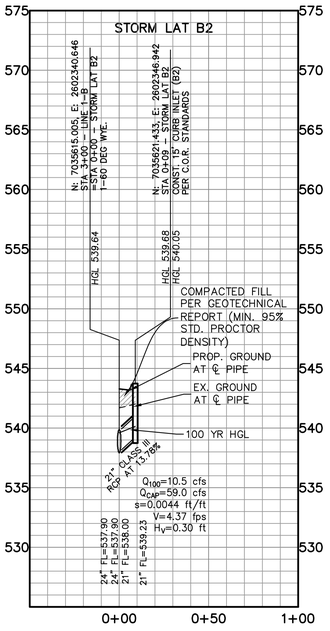
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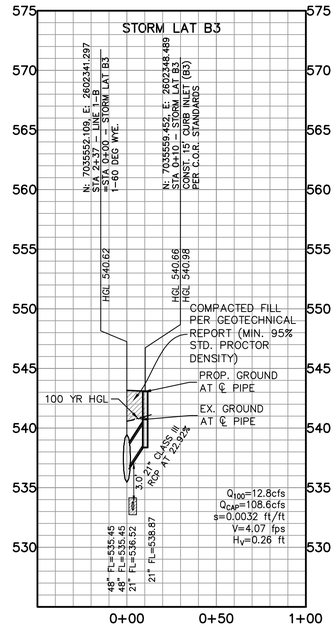
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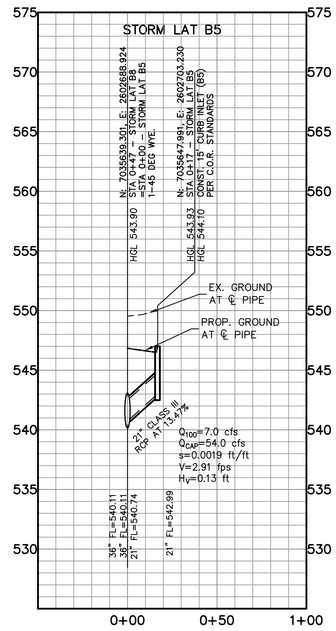
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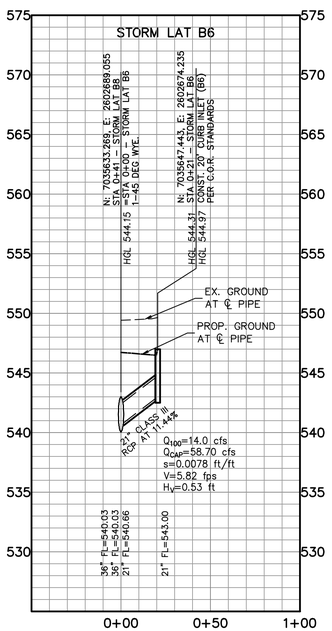
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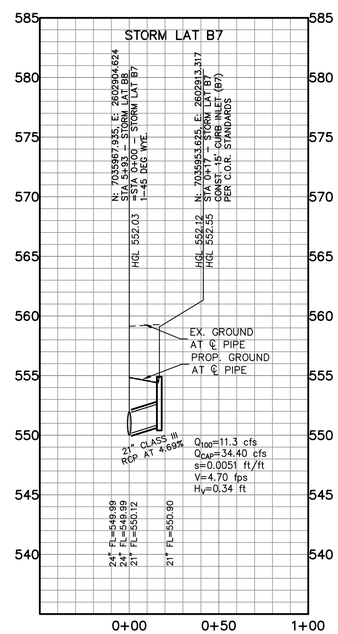
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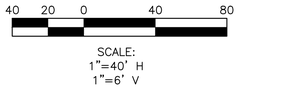












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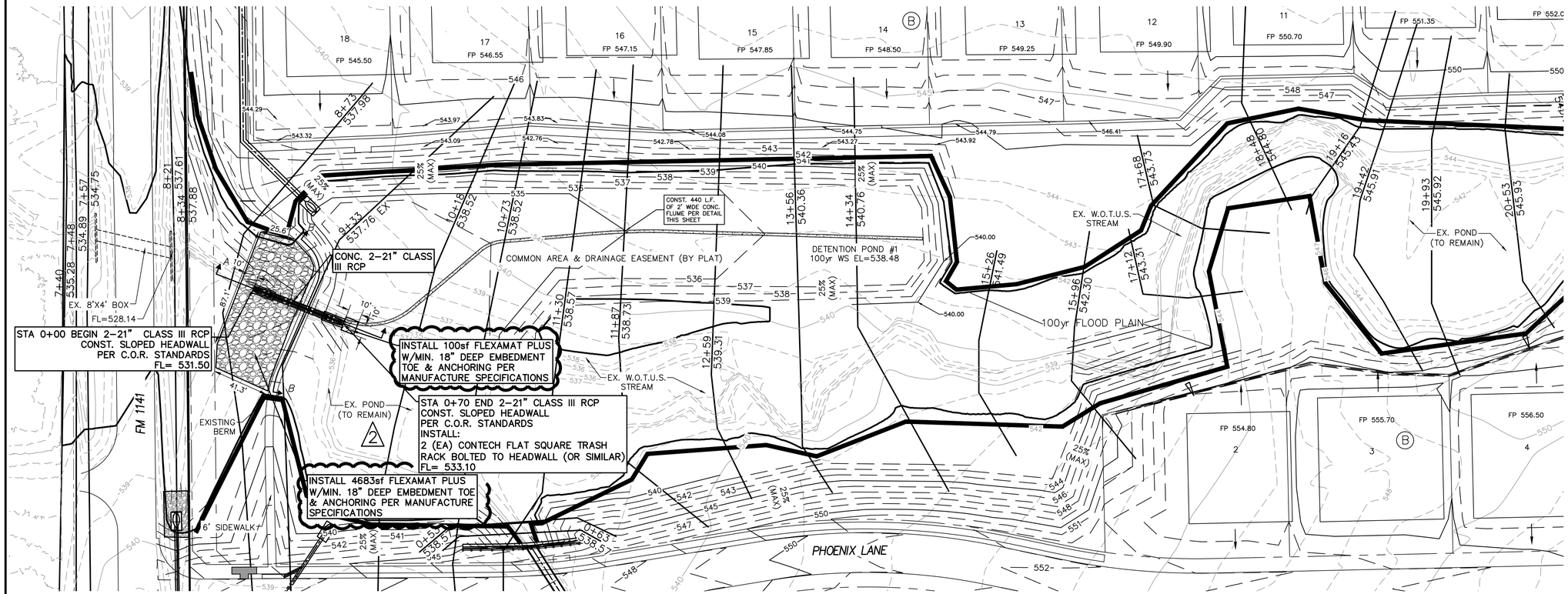
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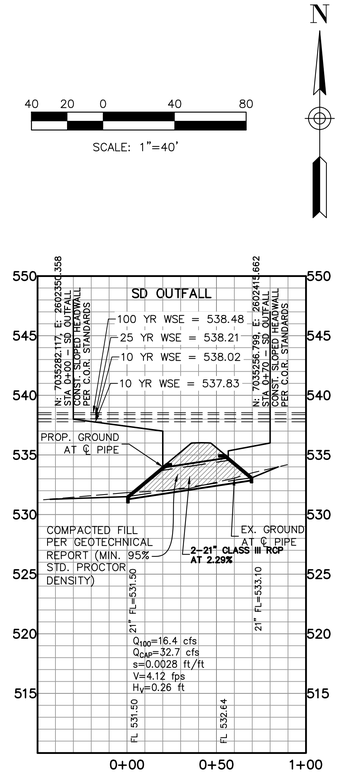
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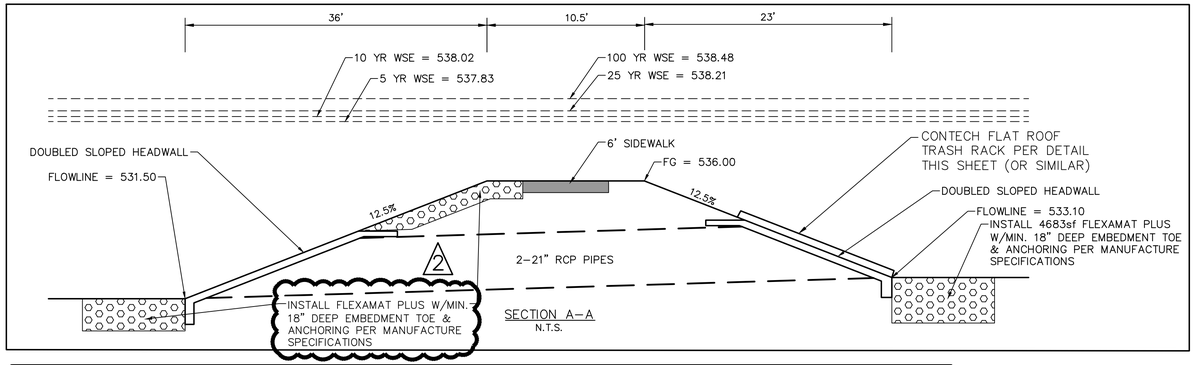
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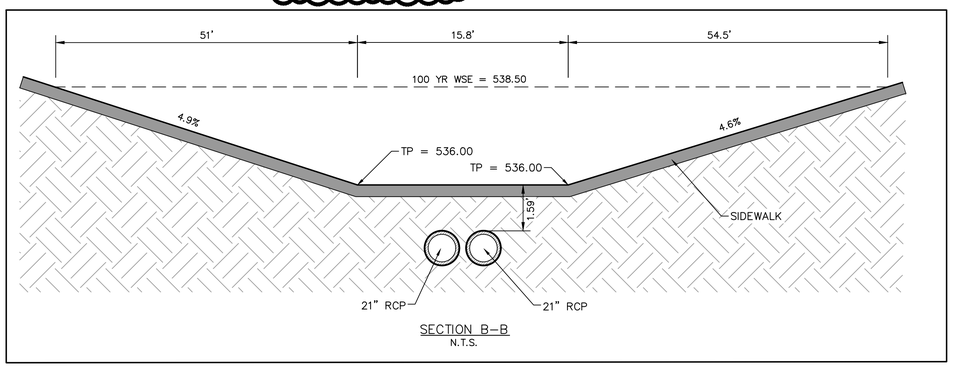
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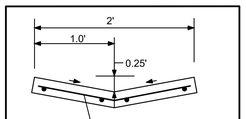




SECTION A–A
N.T.S.

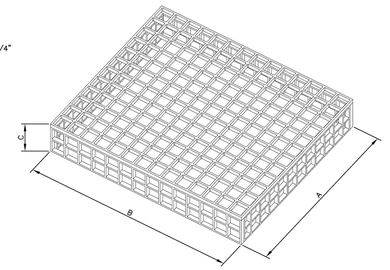


SECTION B–B
N.T.S.



2' CONC. FLUME
N.T.S.

FLAT ROOF RECTANGULAR RACKS/WEIRS
(STANDARD SIZES)
DIMENSIONS IN INCHES TO THE NEAREST 1/4"



HOST STRUCTURE INSIDE DIMENSIONS
____LENGTH ____WALL THICKNESS (REQUIRED)
____WIDTH

AS DISTRIBUTED BY CONTECH CONSTRUCTION PRODUCTS NATIONALLY

WIDTH (A)	11 3/8	16 3/4	22 1/8	27 1/2	32 7/8	38 1/4	43 5/8	49	54 3/8	59 3/4	65 1/8	70 1/2	75 7/8	81 7/8	87 1/4
CODE	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
LENGTH (B)	11 3/8	16 3/4	22 1/8	27 1/2	32 7/8	38 1/4	43 5/8	49	54 3/8	59 3/4	65 1/8	70 1/2	75 7/8	81 7/8	87 1/4
CODE	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16

HEIGHT (C)	7 1/2	12 7/8
CODE	01	02
	1 GRID HIGH	2 GRID HIGH

FLAT ROOF (FR) ——— WIDTH (A) ——— LENGTH (B) ——— HEIGHT (C)

CONTECH CONSTRUCTION PRODUCTS INC.
9025 CENTRE POINTE DRIVE, SUITE 400
WEST CHESTER, OH 45069
PH: 1.800.338.1122 FAX: 513.645.7399
© COPYRIGHT

CUSTOMER:	DATE:
	DRAWN BY:
PROJECT:	APP'D BY:
	DETAIL:

Proposed West Pond Results Summary			
Rain Event	Peak Outflow	Peak Storage	Peak Elevation
	cfs	(acre-ft)	ft
5-yr	315	4.96	537.83
10-yr	382	5.4	538.02
25-yr	450	5.73	538.21
100-yr	585	6.29	538.48

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
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65028
REGISTERED PROFESSIONAL ENGINEER
11/29/2023

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

SEE "DETENTION STUDY FOR WINDING CREEK" PREPARED BY KCE ENGINEERING, DATED APRIL 28, 2022 FOR A DETAILED ANALYSIS OF DETENTION VOLUMES AND OUTFALL STRUCTURE.

RECORD DRAWINGS

The information contained hereon was provided by the contractor based on their field installation. The undersigned registered professional engineer did not provide inspection on this project, and therefore makes no warrants concerning the accuracy or completeness of the information provided.

NOVEMBER 29, 2023

Dayton C. Macatee, P.E. – Macatee Engineering, L.L.C. (Tx. Reg. No. F-456) Date
12655 N. Central Expy Suite 420, Dallas, Texas 75243 ~ Tel: 214-373-1180

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

DETENTION POND #1 PLAN

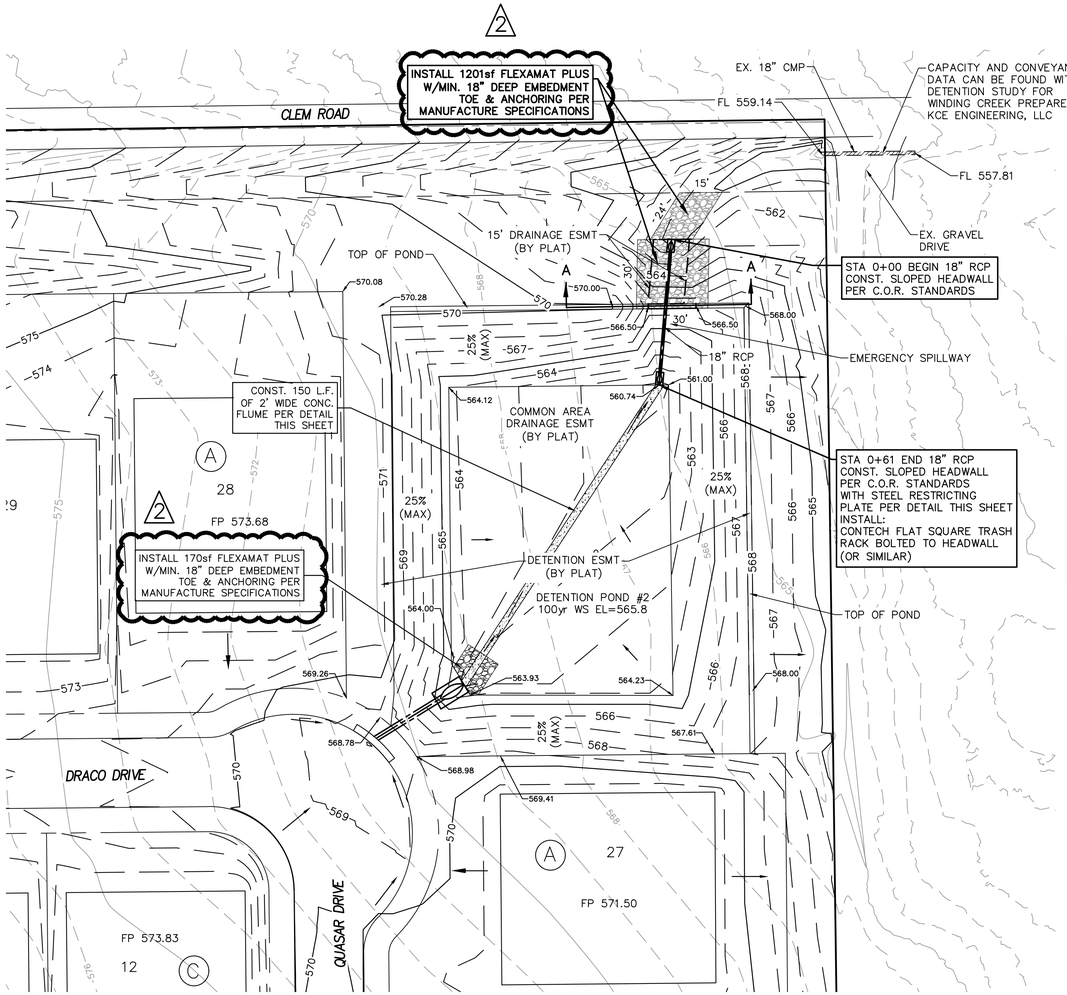
WINDING CREEK

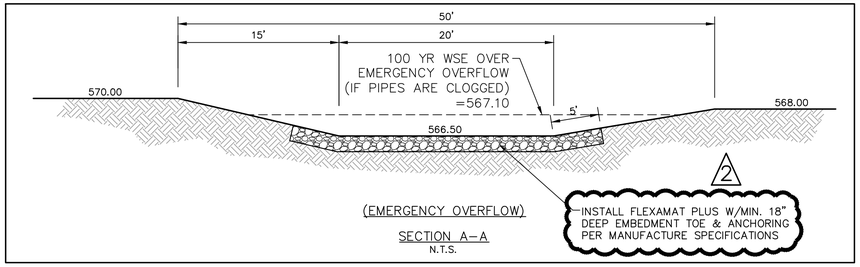
CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

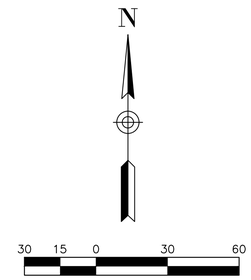
MACATEE CIVIL ENGINEERING

CIVIL ENGINEERING DESIGN & CONSULTING
(Tex. Reg. No. F-456)
12655 N. CENTRAL EXPWY, SUITE 420
DALLAS, TEXAS 75243
TEL 214-373-1180 * FAX 214-373-6580
daytonm@macatee-engineering.com
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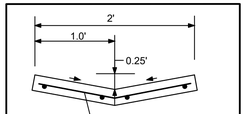
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BCP	SDA	11/29/2023	WC–DETENTION	SKO_WC	41 OF 53







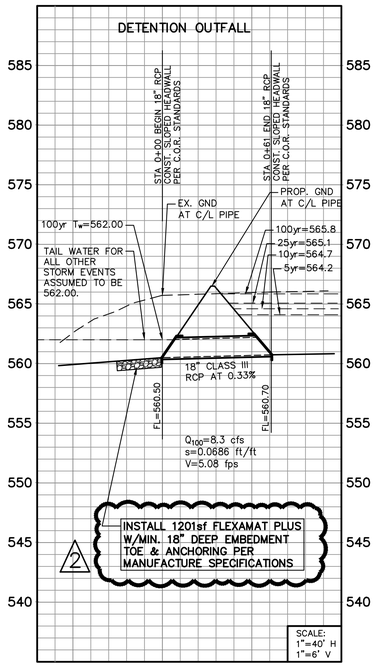
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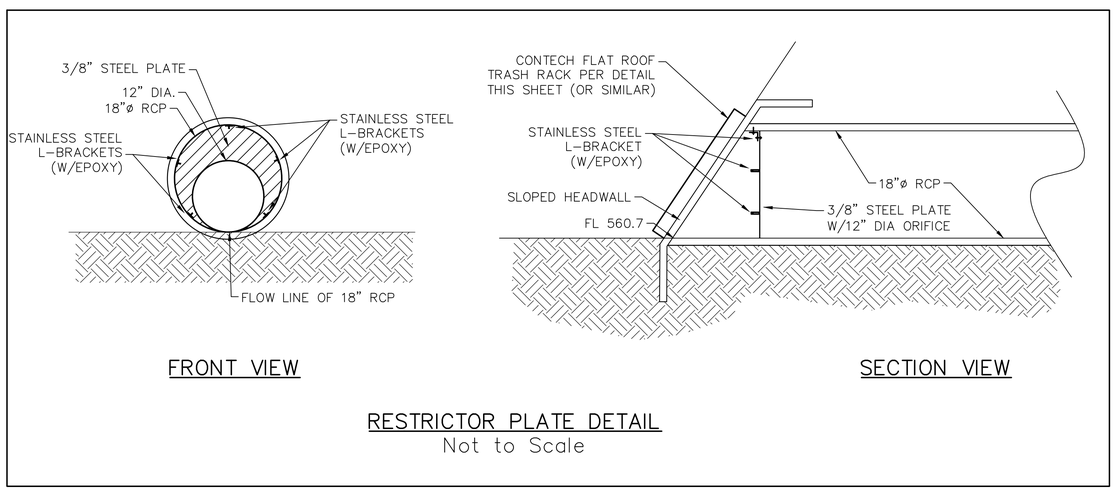


ALL RESPONSIBILITY FOR ADEQUACY OF DESIGN REMAINS WITH THE DESIGN ENGINEER. THE CITY OF ROCKWALL, IN REVIEWING AND RELEASING PLANS FOR CONSTRUCTION, ASSUMES NO RESPONSIBILITY FOR ADEQUACY OR ACCURACY OF DESIGN

Eastern Pond			
Elevation	Area (ac)	Incremental Volume (acre-ft)	Total Volume (acre-ft)
560.7	0.00	0.00	0.00
562	0.07	0.05	0.05
563	0.19	0.13	0.18
564	0.31	0.25	0.43
565	0.38	0.34	0.78
566	0.44	0.41	1.18
567	0.51	0.47	1.66

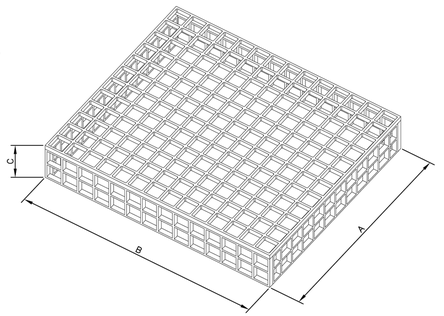
Proposed East Pond Results Summary				
Rain Event	Peak Inflow	Peak Outflow	Peak Storage	Peak Elevation
	cfs	cfs	acre-ft	ft
5-yr	17.8	6.3	0.5	564.2
10-yr	21.6	6.9	0.6	564.7
25-yr	25.5	7.4	0.8	565.1
100-yr	32.7	8.3	1.1	565.8





RESTRICTOR PLATE DETAIL
Not to Scale

FLAT ROOF RECTANGULAR RACKS/WEIRS
(STANDARD SIZES)
DIMENSIONS IN INCHES TO THE NEAREST 1/4"



HOST STRUCTURE INSIDE DIMENSIONS
____ LENGTH ____ WALL THICKNESS (REQUIRED)
____ WIDTH

AS DISTRIBUTED BY CONTECH CONSTRUCTION PRODUCTS NATIONALLY

WIDTH (A)	11 3/8	16 3/4	22 1/8	27 1/2	32 7/8	38 1/4	43 5/8	49	54 3/8	59 3/4	65 1/8	70 1/2	75 7/8	81 7/8	87 1/4
CODE	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16

LENGTH (B)	11 3/8	16 3/4	22 1/8	27 1/2	32 7/8	38 1/4	43 5/8	49	54 3/8	59 3/4	65 1/8	70 1/2	75 7/8	81 7/8	87 1/4
CODE	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16

HEIGHT (C)	7 1/2	12 7/8
CODE	01	02
	1 GRID HIGH	2 GRID HIGH

FLAT ROOF (FR) _____ WIDTH (A) _____ LENGTH (B) _____ HEIGHT (C)

CONTECH CONSTRUCTION PRODUCTS INC
9025 CENTRE POINTE DRIVE, SUITE 400
WEST CHESTER, OHIO 45069
PH: 1.800.338.1122 FAX: 513.645.7399
© COPYRIGHT

CUSTOMER:	DATE:
	DRAWN BY:
PROJECT:	APP'D BY:
	DETAIL:

RECORD DRAWINGS

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STATE OF TEXAS
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DETENTION POND #2 PLAN

WINDING CREEK

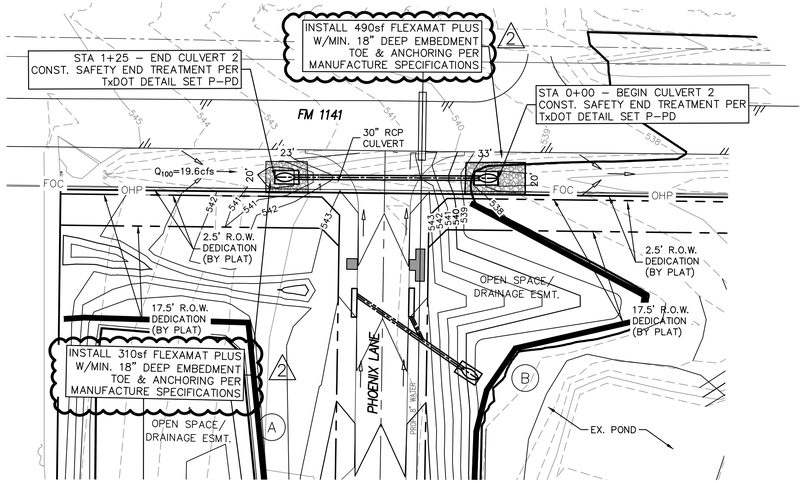
CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

MACATEE CIVIL ENGINEERING

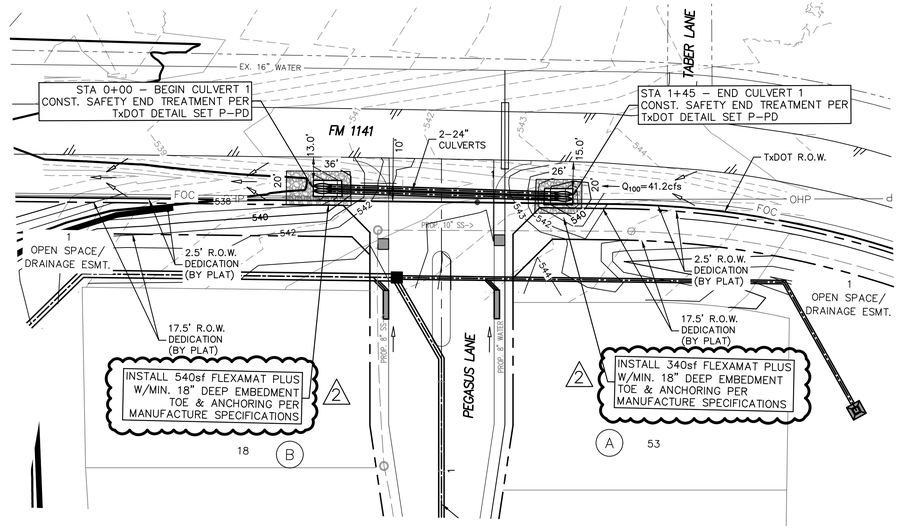
CIVIL ENGINEERING DESIGN & CONSULTING
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TEL 214-373-1180 * FAX 214-373-6580
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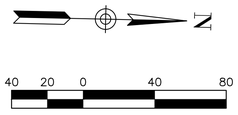
DESIGNED	CHECKED	DATE	DWG FILE	PROJECT #	SHEET NO.
BCP	SDA	11/29/2023	WC–DETENTION	SKO_WC	42 OF 53

CULVERT 2



CULVERT 1





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.

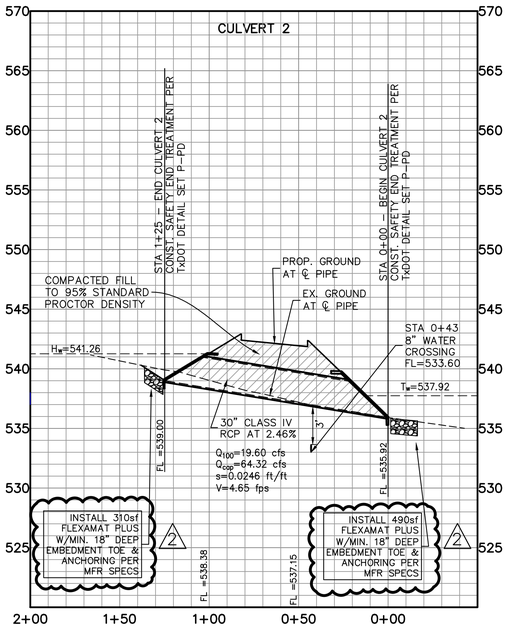
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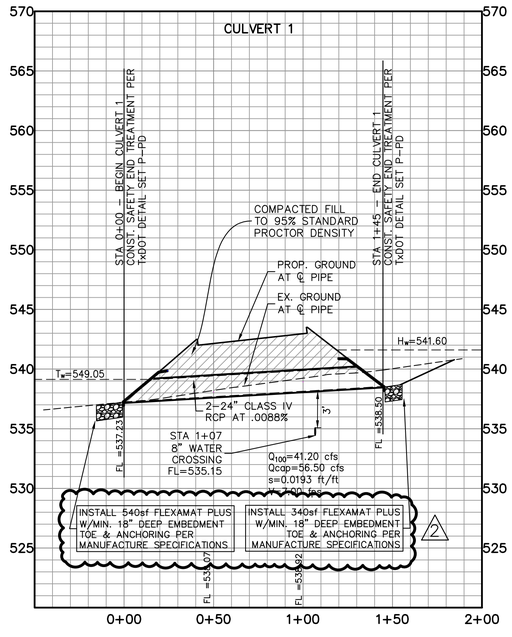
4) DIMENSIONS ARE TO BACK OF CURB, UNLESS OTHERWISE NOTED.

SEE THE CITY OF ROCKWALL STANDARDS OF DESIGN AND CONSTRUCTION, DATED OCTOBER 2019 FOR MODIFICATIONS TO NCTCOG DETAILS.

ALL STORM PIPE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED

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





REV NO.	DATE	DESCRIPTION	BY
2	10–16–23	REPLACE RIPRAP WITH FLEXAMAT	DCM

STATE OF TEXAS
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TxDOT CULVERTS

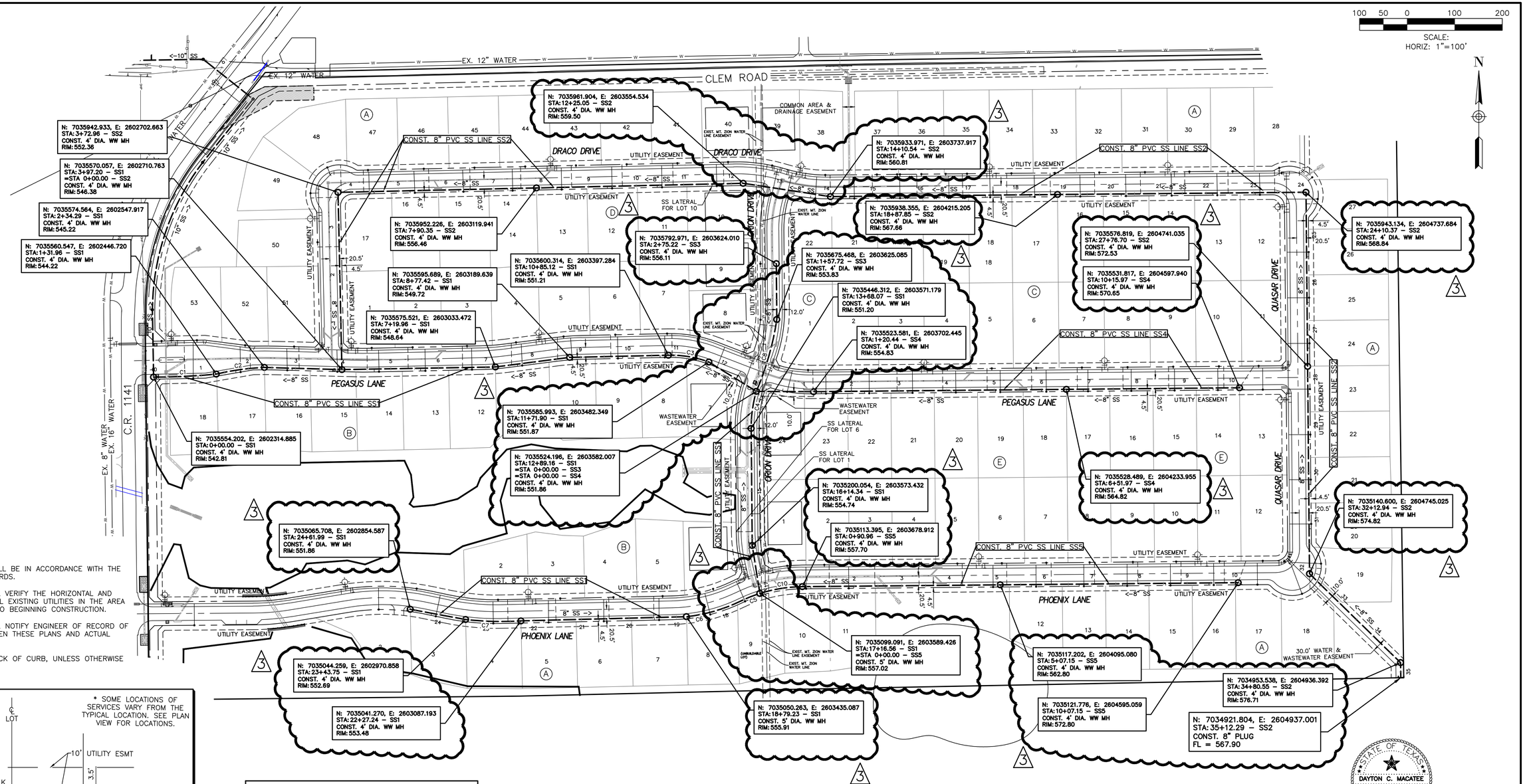
WINDING CREEK

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

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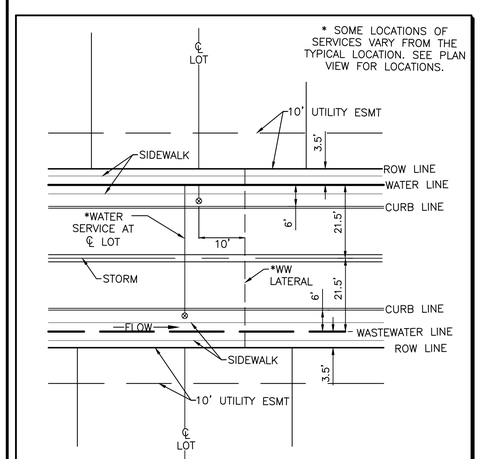
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TYPICAL LOT SERVICE DETAIL
NOT TO SCALE

REFER TO CITY OF ROCKWALL STANDARDS FOR PLACEMENT OF METER BOXES.

ALL PULLED PIPE SHALL MEET CITY AND MANUFACTURER'S SPECIFICATIONS, WHICH EVER IS MORE STRINGENT

WASTEWATER NOTES:

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4. MANHOLES SHALL CONFORM TO CITY OF ROCKWALL STANDARDS.

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

SANITARY SEWER CURVE TABLE

Curve #	Radius	Length	Chord Direction	Start Point	End Point
C1	1390.25	131.96	N87°14'37"E	(2602314.9575,7035554.2038)	(2602446.7202,7035560.5473)
C2	517.12	102.33	N82°06'50"E	(2602446.7202,7035560.5473)	(2602547.9167,7035574.5643)
C3	229.50	86.78	S80°26'37"E	(2603397.2844,7035600.3135)	(2603482.3487,7035585.9925)
C4	269.40	78.92	S07°54'52"W	(2603582.0068,7035524.1957)	(2603571.1794,7035446.3115)
C5	304.49	43.73	S68°14'46"W	(2603589.4259,7035099.0907)	(2603548.8430,7035082.8965)
C6	345.50	118.93	S73°59'35"W	(2603548.8429,7035082.8966)	(2603435.0868,7035050.2628)
C7	664.20	116.52	N88°35'31"W	(2603087.1896,7035041.3996)	(2602970.8585,7035044.2591)
C8	615.51	157.12	N15°52'10"E	(2603582.2391,7035524.7498)	(2603625.0853,7035675.4682)
C10	304.50	90.96	N80°55'06"E	(2603589.4259,7035099.0907)	(2603678.9119,7035113.3949)

REV	BY	DATE	COMMENT
1	PJF	08/22	REVISED RIP-RAP QUANTITY
2	PJF		REVISED FOR FLEXAMAT PLUS
3	NCL	10/25/22	REVISED FOR EXIST. WATER

RECORD DRAWINGS

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WASTEWATER PLAN

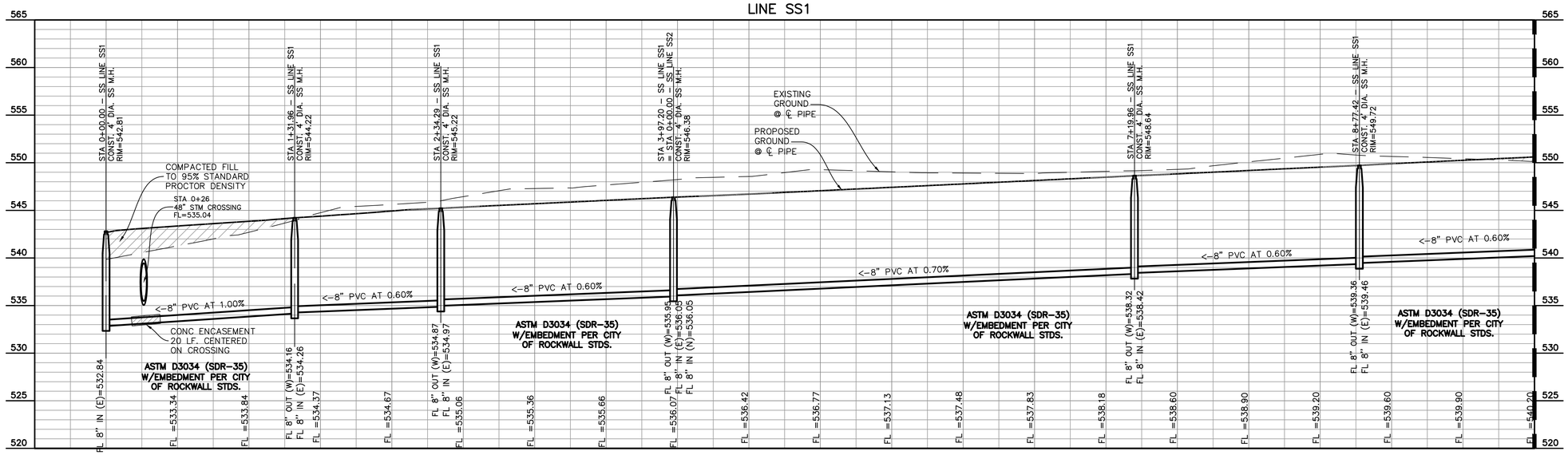
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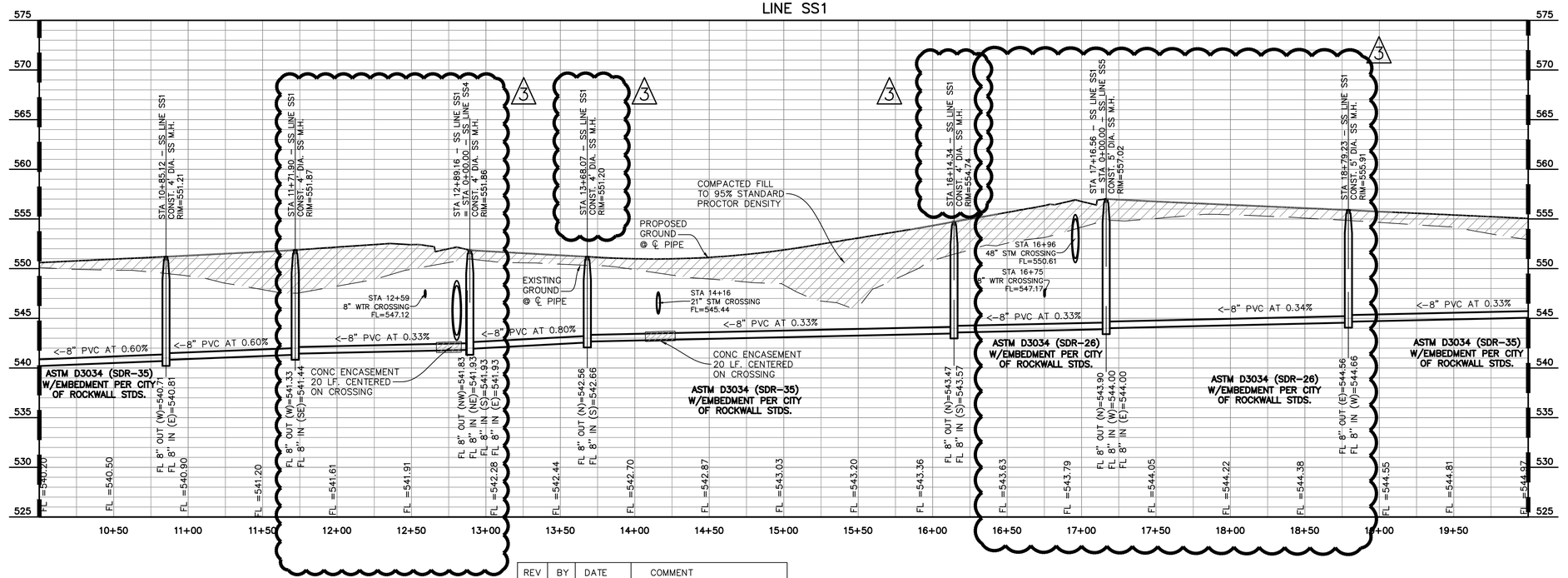
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40 20 0 40 80

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

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11/29/2023

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WASTEWATER PROFILE

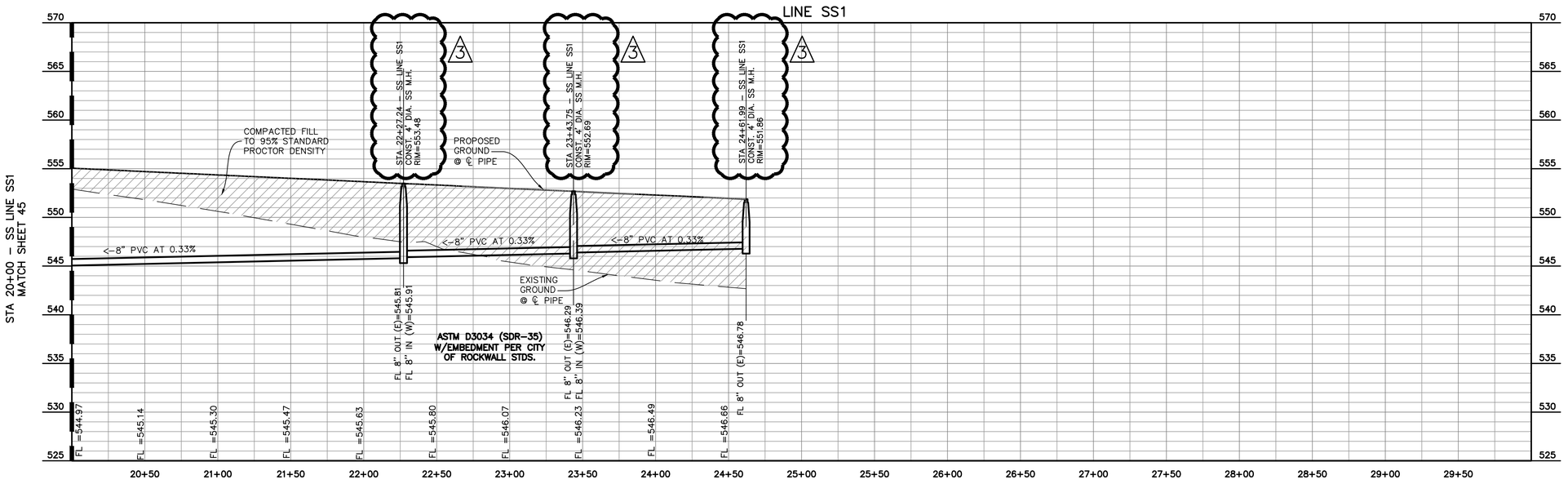
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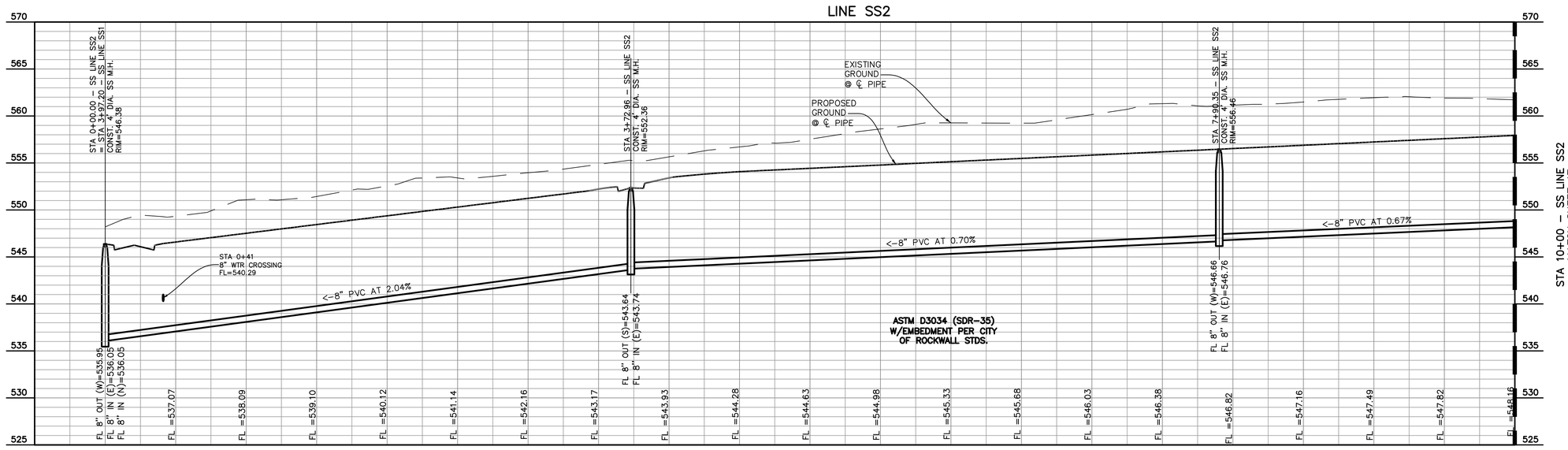
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(Tex. Reg. No. F-456)
12655 N. CENTRAL EXPWY, SUITE 420
DALLAS, TEXAS 75243
TEL 214-373-1180 * FAX 214-373-6580
daytonm@macatee-engineering.com
phillipf@macatee-engineering.com

DESIGNED	CHECKED	DATE	DWG FILE	PROJECT #	SHEET NO.
BCP	SDA	11/29/2023	WC_WW PROF	SKO_WC	45 OF 53





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 2019 AND THE PUBLIC WORKS CONSTRUCTION STANDARDS AND SPECIFICATIONS, NORTH CENTRAL TEXAS, 5TH EDITION, DATED OCTOBER 2017. 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.

40 20 0 40 80

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

STATE OF TEXAS
DAYTON C. MACATEE
65028
REGISTERED
PROFESSIONAL ENGINEER

11/29/2023

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

RECORD DRAWINGS

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NOVEMBER 29, 2023

Dayton C. Macatee, P.E. – Macatee Engineering, L.L.C. (Tx. Reg. No. F-456) Date
12655 N. Central Expy Suite 420, Dallas, Texas 75243 ~ Tel: 214-373-1180

CITY OF ROCKWALL MONUMENT "CQR-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 "CQR-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

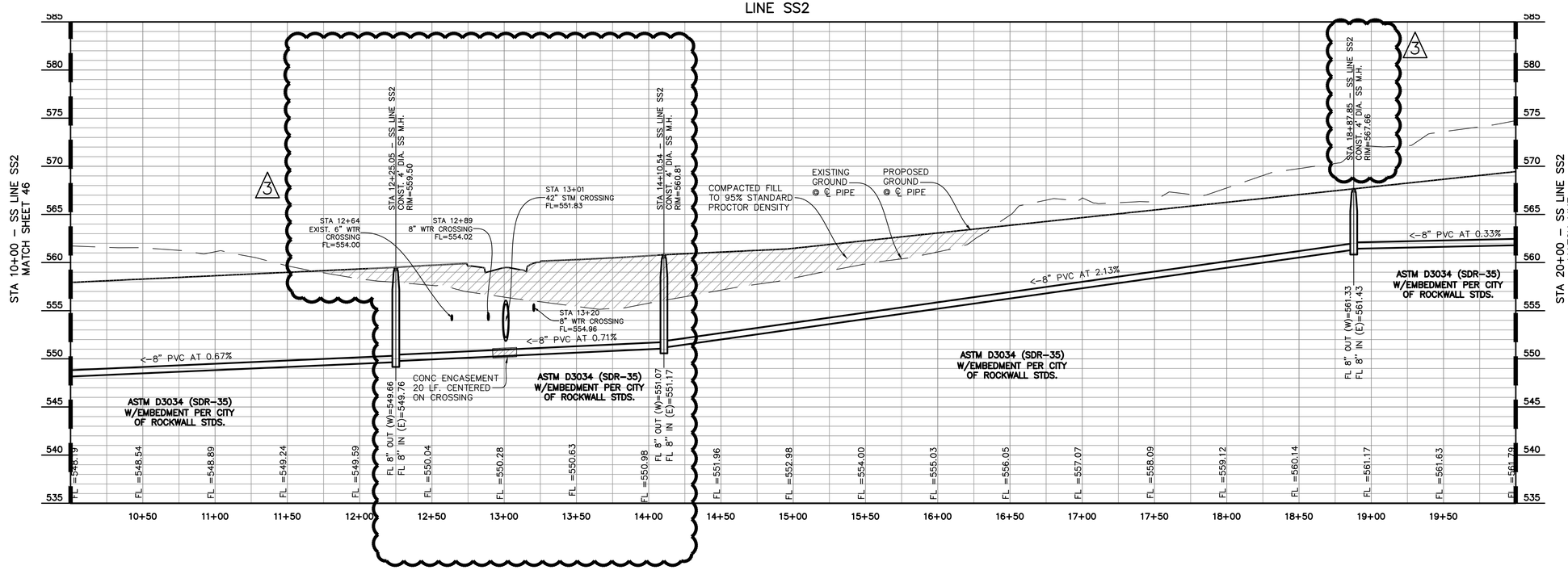
WINDING CREEK

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

MACATEE
CIVIL ENGINEERING

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DESIGNED	CHECKED	DATE	DWG FILE	PROJECT #	SHEET NO.
BCP	SDA	11/29/2023	WC_WW PROF	SKO_WC	46 OF 53



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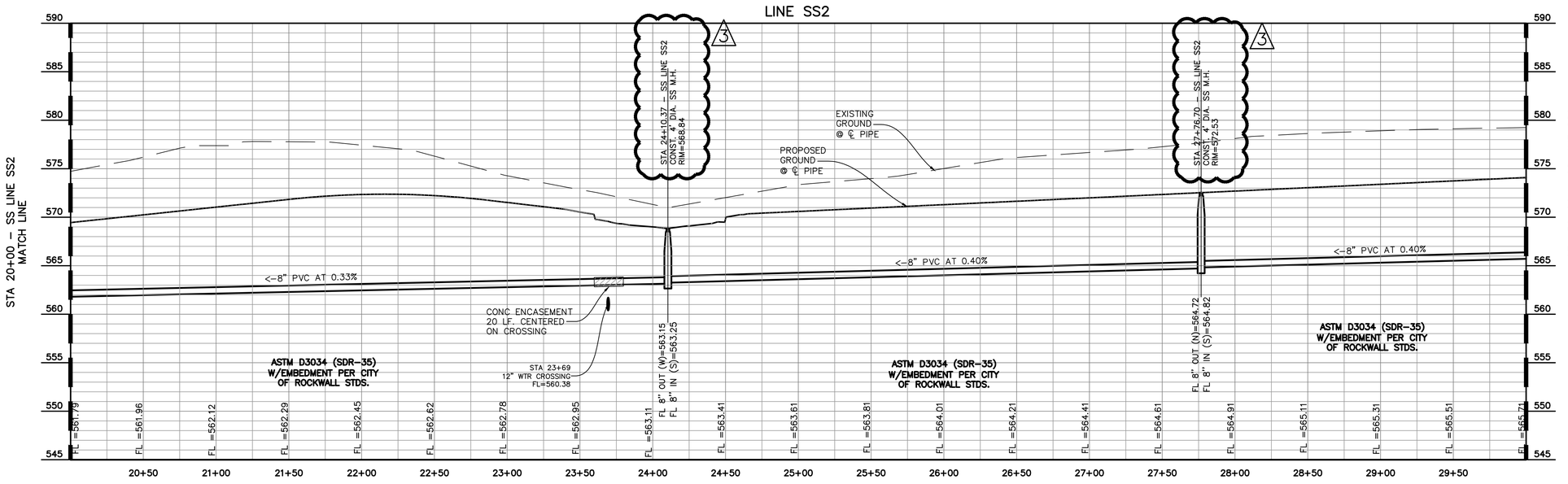
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REV	BY	DATE	COMMENT
1	PJF	08/22	REVISED RIP-RAP QUANTITY
2	PJF		REVISED FOR FLEXAMAT PLUS
3	NCL	10/25/22	REVISED FOR EXIST. WATER



40 20 0 40 80

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

STATE OF TEXAS
DAYTON C. MACATEE
65028
REGISTERED
PROFESSIONAL ENGINEER

11/29/2023

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

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NOVEMBER 29, 2023

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12655 N. Central Expy Suite 420, Dallas, Texas 75243 ~ Tel: 214-373-1180

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WASTEWATER PROFILE

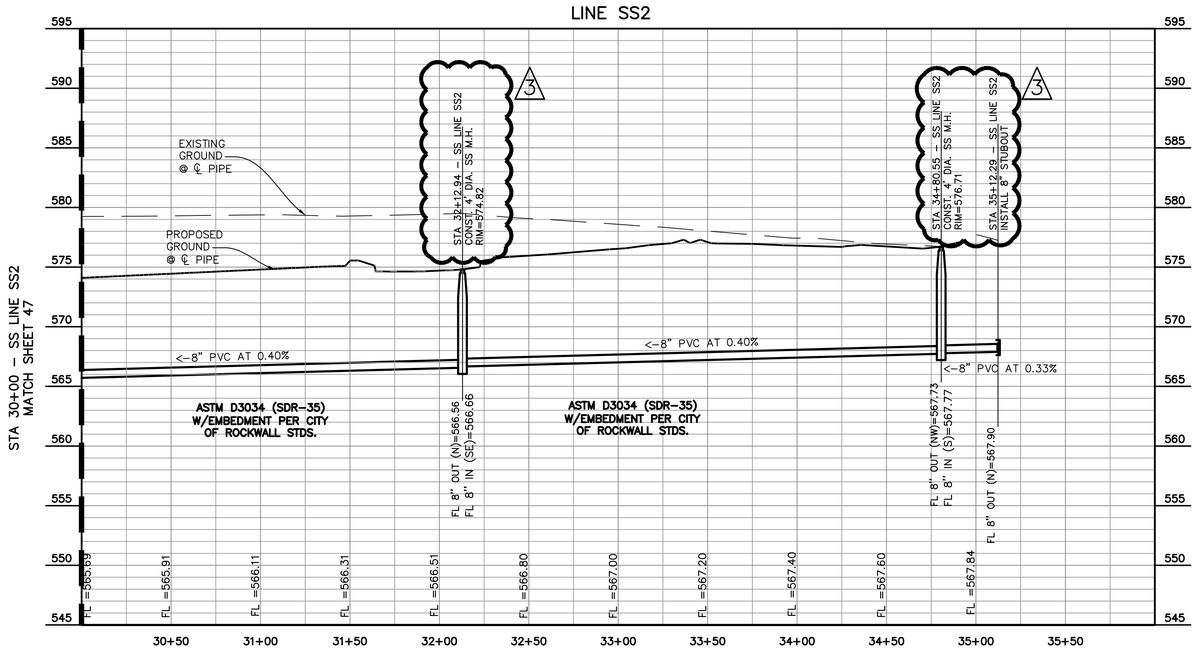
WINDING CREEK

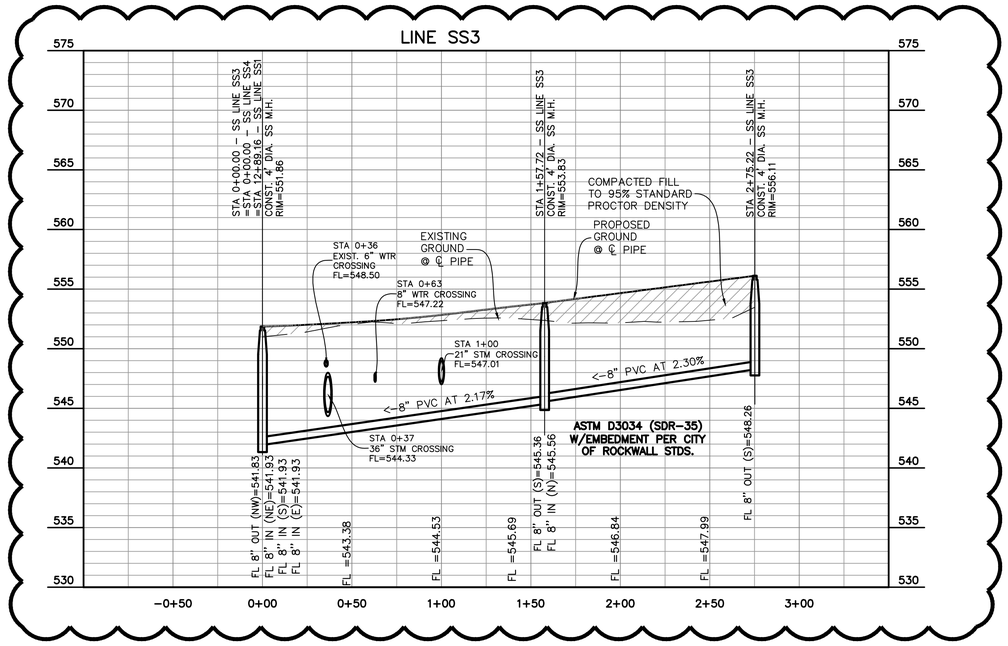
CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

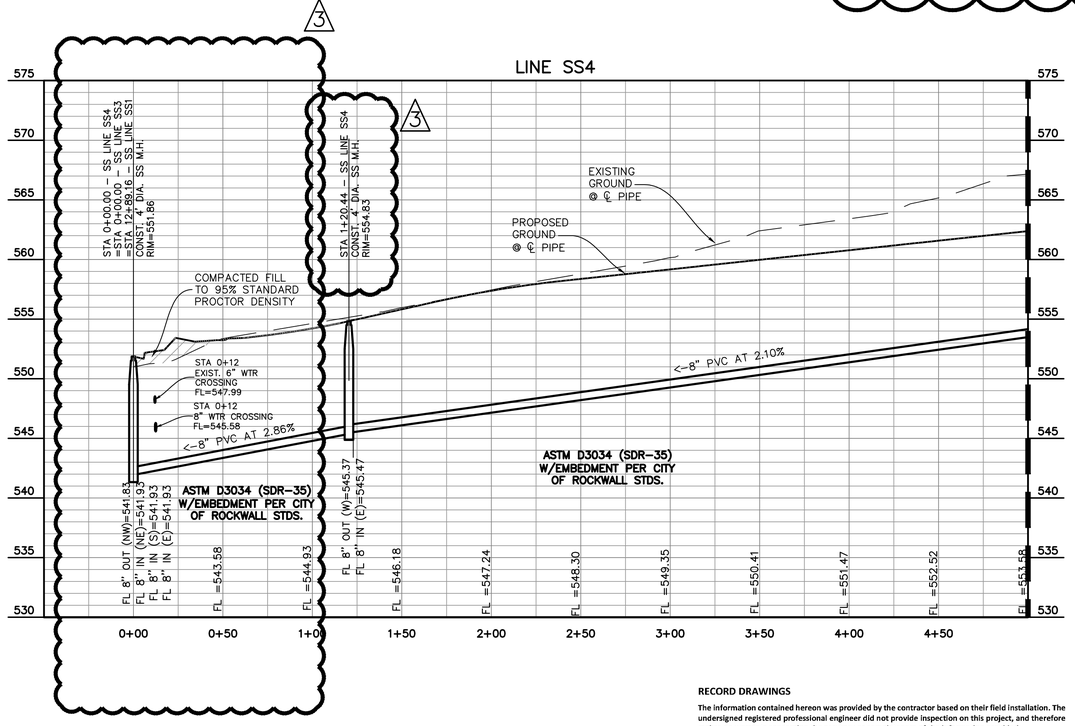
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DESIGNED	CHECKED	DATE	DWG FILE	PROJECT #	SHEET NO.
BCP	SDA	11/29/2023	WC_WW PROF	SKO_WC	47 OF 53







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 2019 AND THE PUBLIC WORKS CONSTRUCTION STANDARDS AND SPECIFICATIONS, NORTH CENTRAL TEXAS, 5TH EDITION, DATED OCTOBER 2017. CONTRACTOR SHALL REFER TO BOTH MANUALS PRIOR TO BEGINNING CONSTRUCTION.

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40 20 0 40 80

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

REV	BY	DATE	COMMENT
1	PJF	08/22	REVISED RIP–RAP QUANTITY
2	PJF		REVISED FOR FLEXAMAT PLUS
3	NCL	10/25/22	REVISED FOR EXIST. WATER

RECORD DRAWINGS

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Dayton C. Macatee

NOVEMBER 29, 2023

Dayton C. Macatee, P.E. – Macatee Engineering, L.L.C. (Tx. Reg. No. F-456) Date
12655 N. Central Expy Suite 420, Dallas, Texas 75243 ~ Tel: 214-373-1180

1	DATE	BY	COMMENT
	7.14.2022	SS	ADDED MANHOLE IN PROFILE VIEW

CITY OF ROCKWALL MONUMENT "COR–2"
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STATE OF TEXAS
DAYTON C. MACATEE
65028
REGISTERED
PROFESSIONAL ENGINEER

Dayton C. Macatee
11/29/2023
7/14/2022

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

WASTEWATER PROFILE

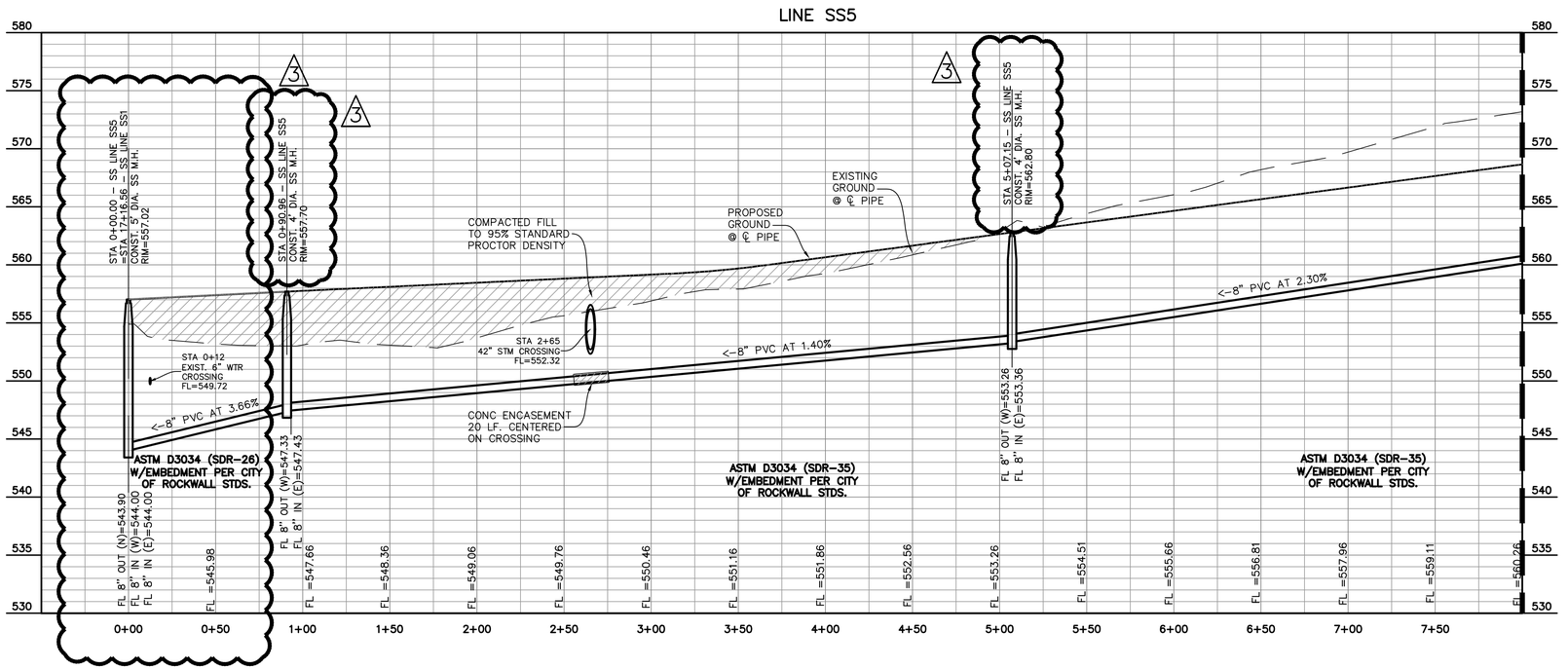
WINDING CREEK

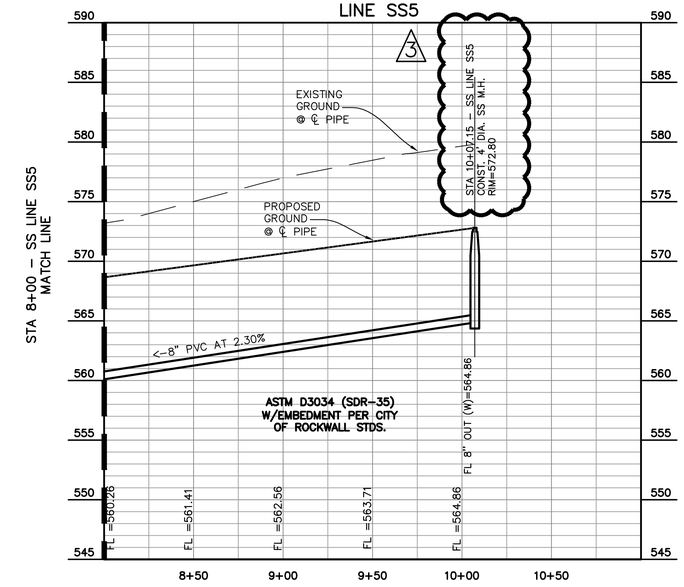
CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

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DESIGNED	CHECKED	DATE	DWG FILE	PROJECT #	SHEET NO.
BCP	SDA	11/29/2023	WC_WW PROF	SKO_WC	48 OF 53





REV	BY	DATE	COMMENT
1	PJF	08/22	REVISED RIP–RAP QUANTITY
2	PJF		REVISED FOR FLEXAMAT PLUS
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WASTEWATER NOTES:

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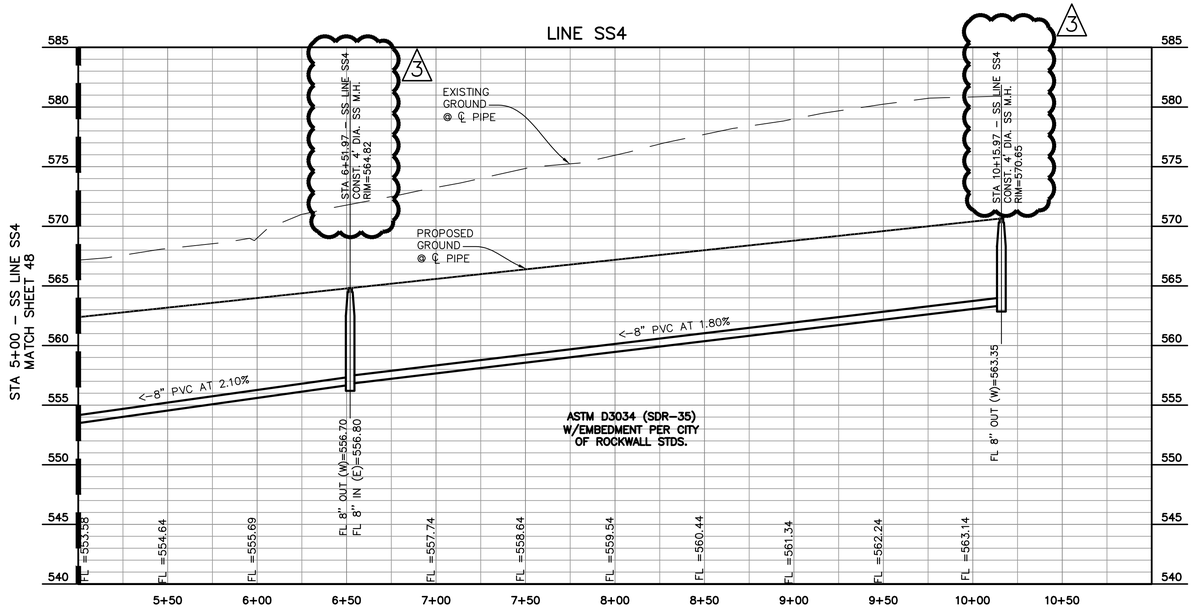
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40 20 0 40 80

SCALE:
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VERT: 1"=6'

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NOVEMBER 29, 2023

Dayton C. Macatee, P.E. – Macatee Engineering, L.L.C. (Tx. Reg. No. F-456) Date
12655 N. Central Expy Suite 420, Dallas, Texas 75243 ~ Tel: 214-373-1180

STATE OF TEXAS
DAYTON C. MACATEE
85028
REGISTERED
PROFESSIONAL ENGINEER
11/29/2023

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

CITY OF ROCKWALL MONUMENT "COR–2"
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WASTEWATER PROFILE

WINDING CREEK

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

MACATEE CIVIL ENGINEERING

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DESIGNED	CHECKED	DATE	DWG FILE	PROJECT #	SHEET NO.
BCP	SDA	11/29/2023	WC_WW PROF	SKO_WC	49 OF 53

WATER NOTES:

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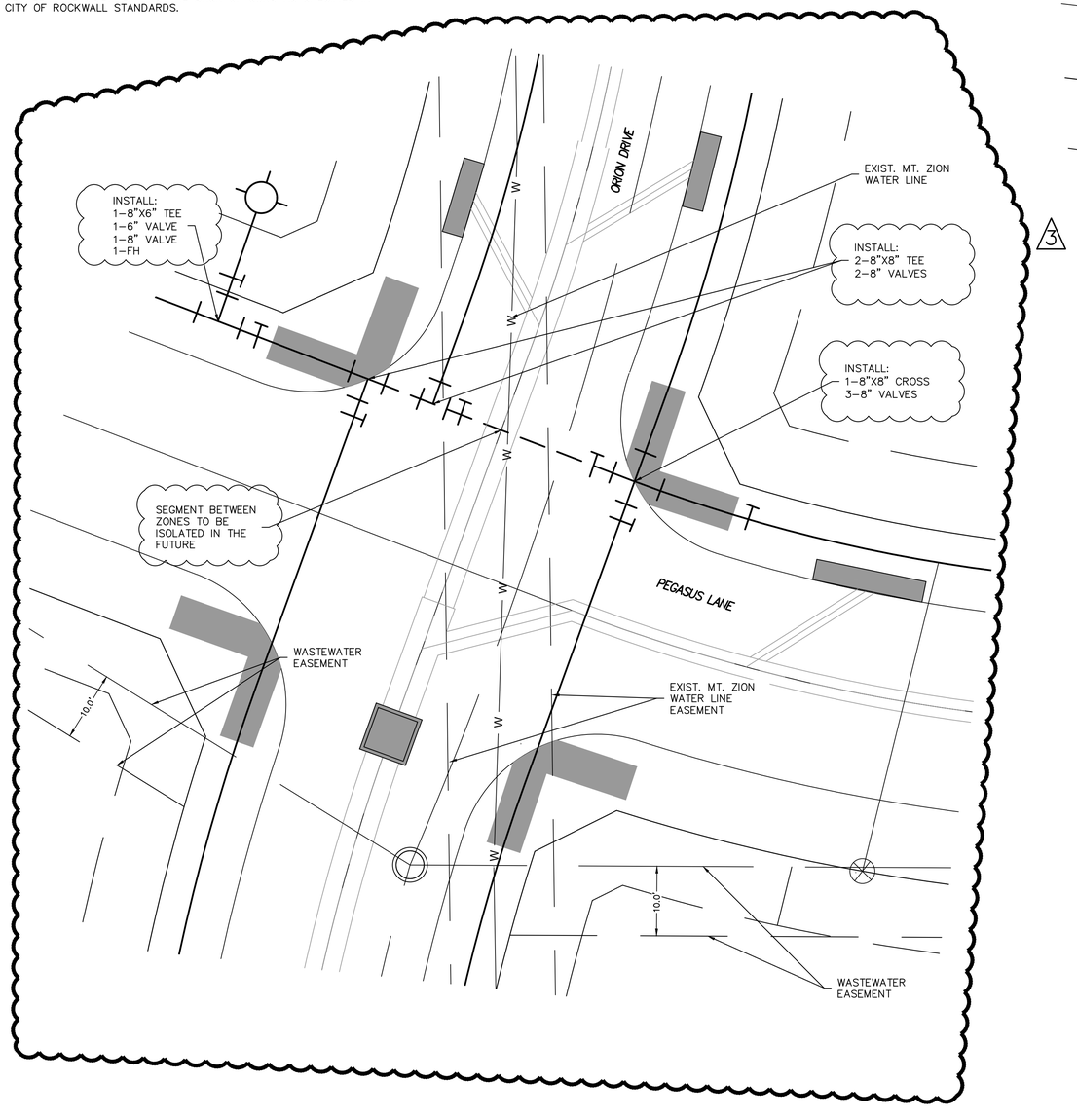
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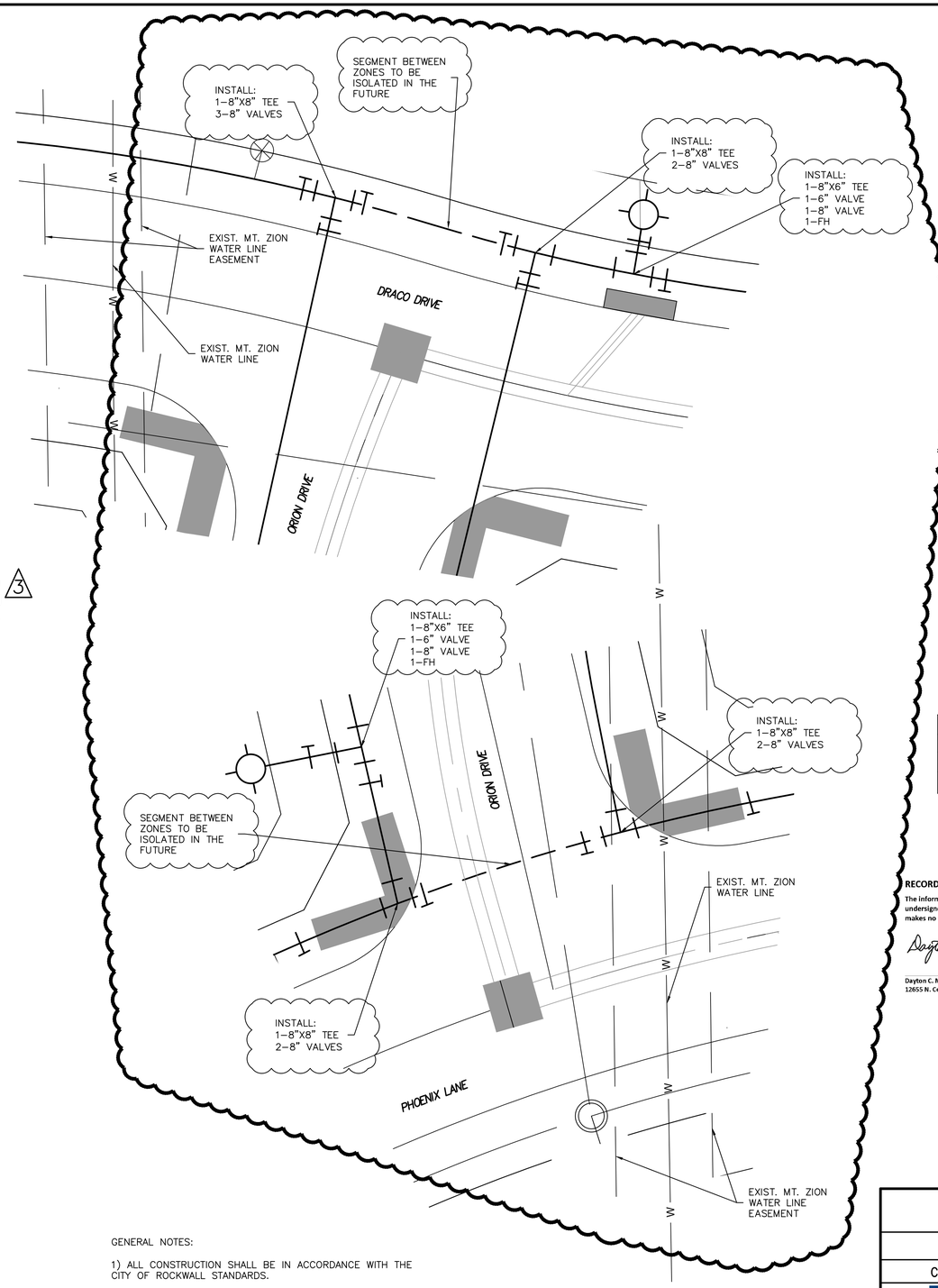
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5. REFER TO CITY OF ROCKWALL STANDARDS FOR WATER PIPE EMBEDMENT.

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.





10 5 0 10 20
SCALE:
HORIZ: 1"=10'

N

REV	BY	DATE	COMMENT
1	PJF	08/22	REVISED RIP-RAP QUANTITY
2	PJF		REVISED FOR FLEXAMAT PLUS
3	NCL	10/25/22	REVISED FOR EXIST. WATER

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NOVEMBER 29, 2023

Dayton C. Macatee, P.E. – Macatee Engineering, L.L.C. (Tx. Reg. No. F-456) **Date**
12655 N. Central Expy Suite 420, Dallas, Texas 75243 ~ Tel: 214-373-1180

STATE OF TEXAS
DAYTON C. MACATEE
65028
REGISTERED
PROFESSIONAL ENGINEER
11/29/2023

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

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.

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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WATER PLAN

WINDING CREEK

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

MACATEE
CIVIL ENGINEERING

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DESIGNED	CHECKED	DATE	DWG FILE	PROJECT #	SHEET NO.
BCP	SDA	11/29/2023	WC_Onsite Water	SKO_WC	50A OF 53

WATER NOTES:

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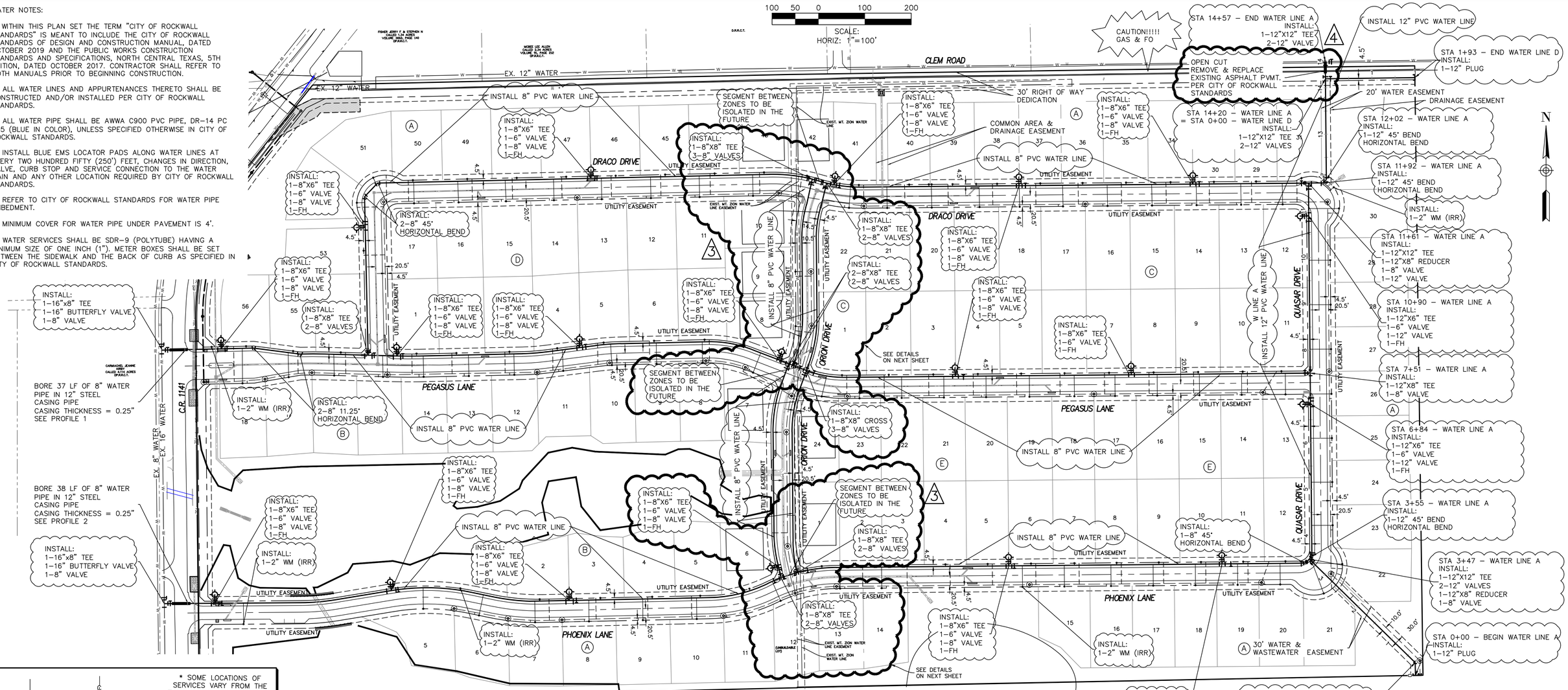
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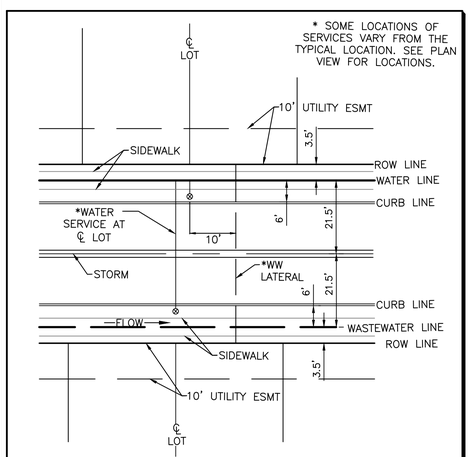
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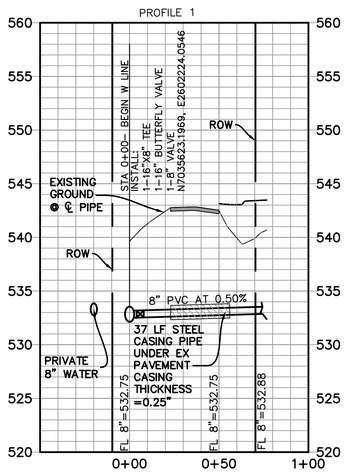
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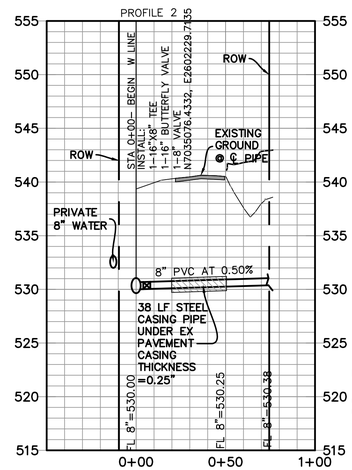
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TYPICAL LOT SERVICE DETAIL
NOT TO SCALE
REFER TO CITY OF ROCKWALL STANDARDS FOR PLACEMENT OF METER BOXES.





REV	BY	DATE	COMMENT
1	PJF	08/22	REVISED RIP-RAP QUANTITY
2	PJF		REVISED FOR FLEXAMAT PLUS
3	NCL	10/25/22	REVISED FOR EXIST. WATER
4	PJF	02/20/22	OPEN CUT AT CLEM ROAD

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.

RECORD DRAWINGS

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NOVEMBER 29, 2023
Date

Dayton C. Macatee, P.E. – Macatee Engineering, L.L.C. (Tx. Reg. No. F-456)
12655 N. Central Expy Suite 420, Dallas, Texas 75243 ~ Tel: 214-373-1180

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

STATE OF TEXAS
DAYTON C. MACATEE
65028
REGISTERED
PROFESSIONAL ENGINEER
11/29/2023

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

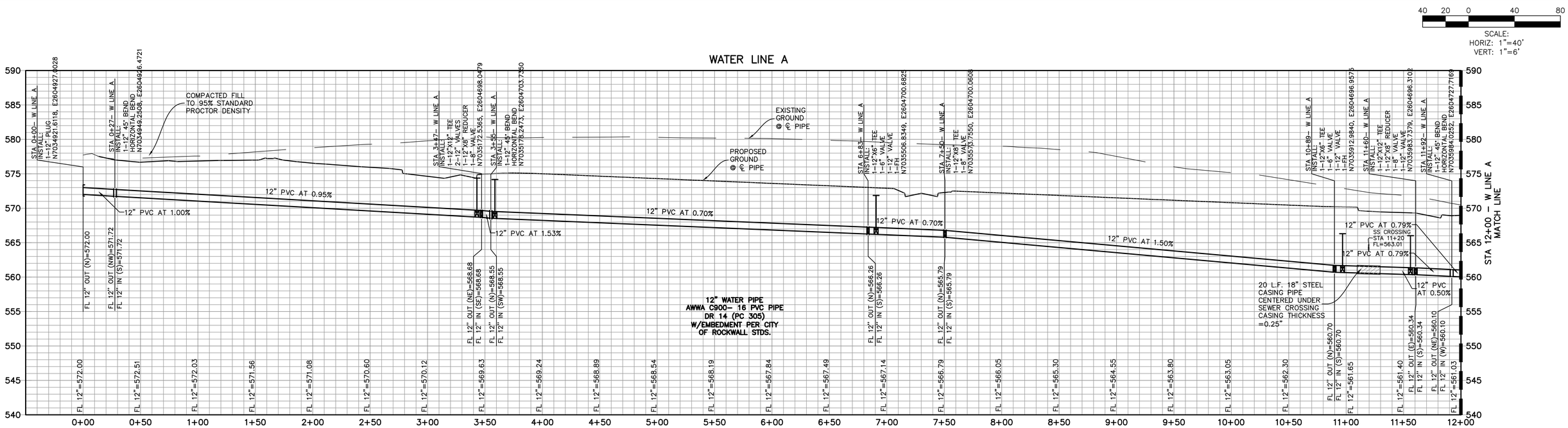
WATER PLAN

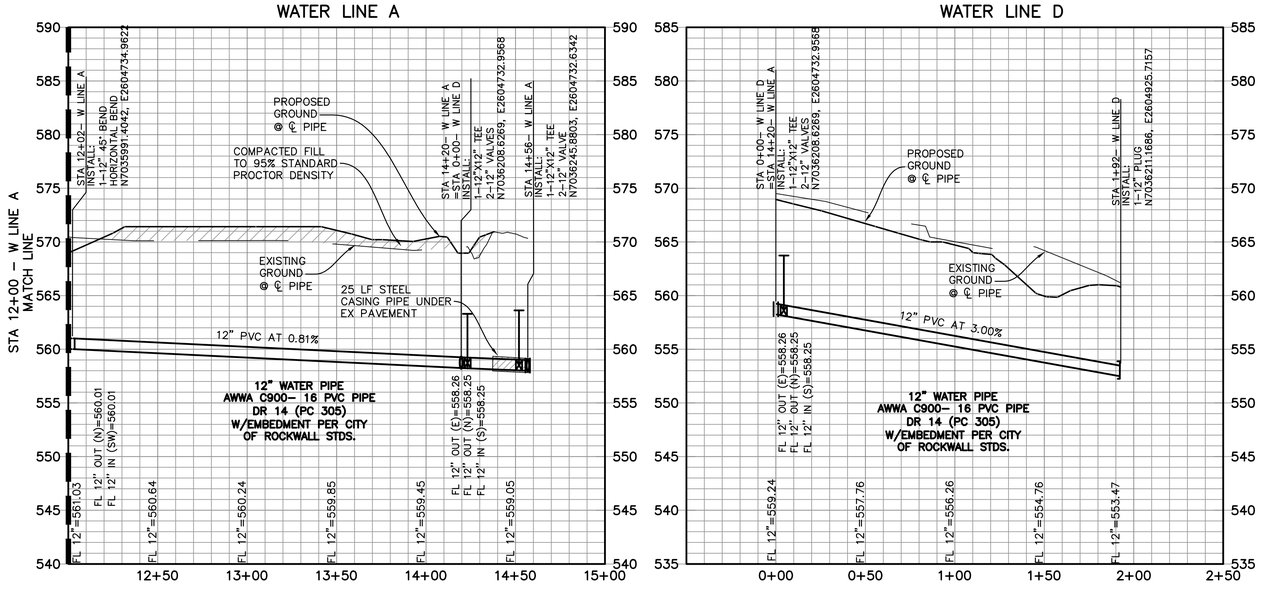
WINDING CREEK

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

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(Tex. Reg. No. F-456)
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DESIGNED	CHECKED	DATE	DWG FILE	PROJECT #	SHEET NO.
BCP	SDA	11/29/2023	WC_Onsite Water	SKO_WC	50 OF 53





WATER 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 2019 AND THE PUBLIC WORKS CONSTRUCTION STANDARDS AND SPECIFICATIONS, NORTH CENTRAL TEXAS, 5TH EDITION, DATED OCTOBER 2017. CONTRACTOR SHALL REFER TO BOTH MANUALS PRIOR TO BEGINNING CONSTRUCTION.

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.

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12 IN WATER LINES A & D PROFILES

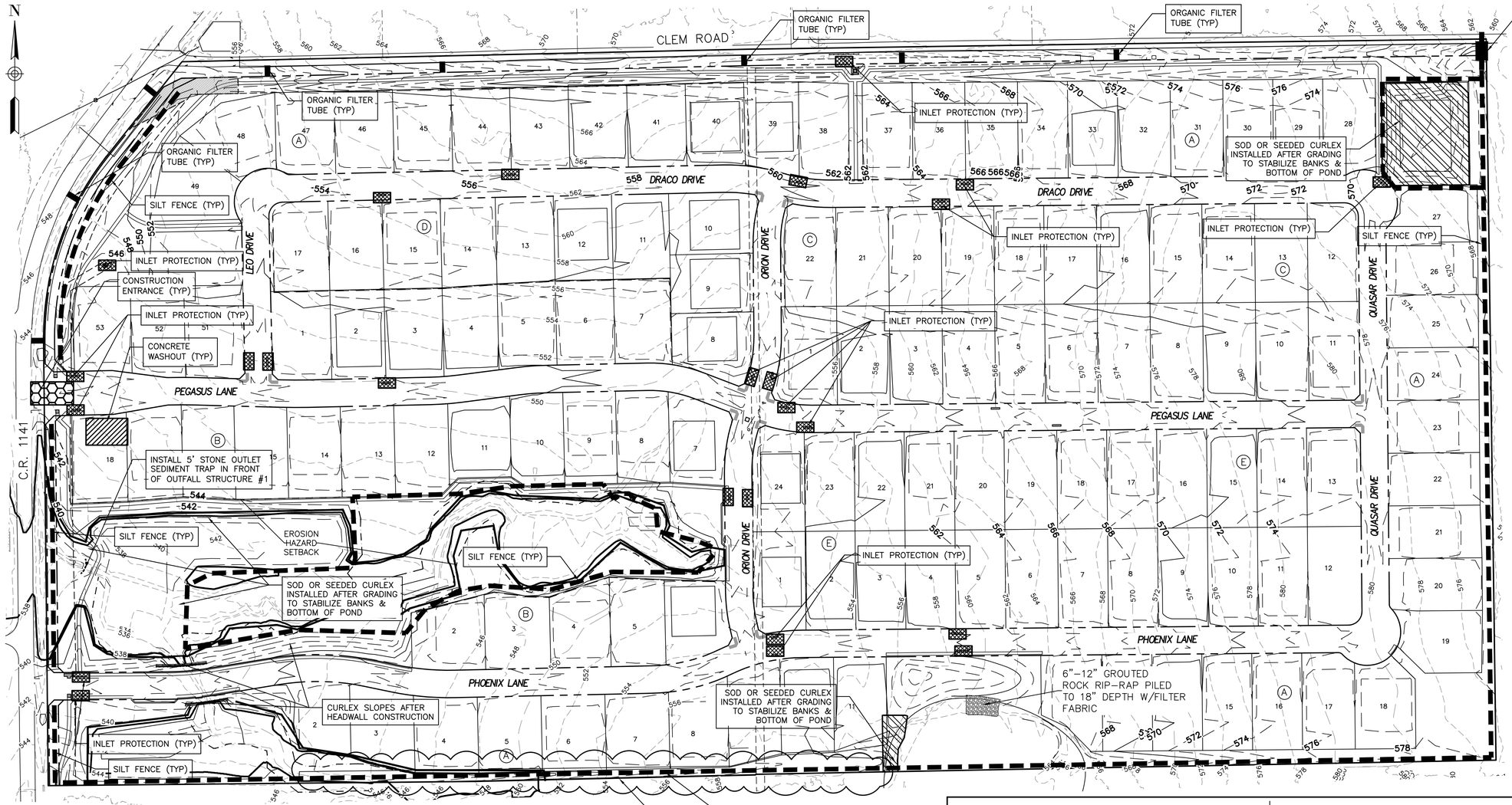
WINDING CREEK

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

MACATEE CIVIL ENGINEERING

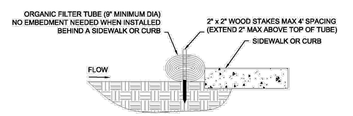
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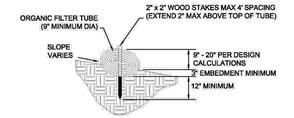


100 50 0 50 100

SCALE: 1" = 100'



INSTALLATION EXAMPLE FOR ORGANIC FILTER TUBEABUTTING PAVEMENT
N.T.S.



EMBEDMENT EXAMPLE FOR ORGANIC FILTER TUBE
N.T.S.

Figure 3.16 Examples of Organic Filter Tube Installation Methods

Organic Filter Tubes Revised 04/10 CC-105

- INLET PROTECTION
- CONSTRUCTION SITE ENTRANCE
- SILT FENCE
- 512 EXISTING 2 FOOT CONTOUR INTERVAL
- 510 EXISTING 10 FOOT CONTOUR INTERVAL
- STONE OVER FLOW STRUCTURE
- CONCRETE WASHOUT
- ORGANIC FILTER TUBE

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.

GENERAL NOTES:

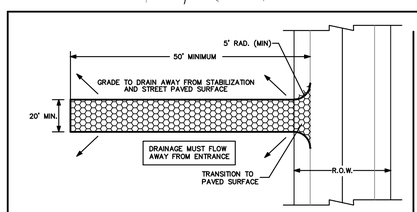
1. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL EROSION, CONSERVATION, AND SILTATION ORDINANCES. THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF PERMANENT DRAINAGE FACILITIES AND THE ESTABLISHMENT OF A STAND OF GRASS OR OTHER GROWTH TO PREVENT EROSION.
2. ALL SEEDING AND FERTILIZATION OF DISTURBED AREAS WILL BE THE RESPONSIBILITY OF THE EROSION CONTROL CONTRACTOR.
3. EROSION PROTECTION WILL BE DELETED OR ADDED PER THE CITY.
4. THE EROSION CONTROL CONTRACTOR SHALL MAKE INSPECTIONS OF THE EROSION CONTROL DEVICES EVERY 7 DAYS OR WITHIN 24 HOURS OF A STORM OF 0.5 INCHES OR MORE IN DEPTH.
5. THE EROSION CONTROL CONTRACTOR SHALL SEED, WATER, AND FERTILIZE ALL DISTURBED AREAS BY THE 14TH DAY AFTER THE LAST DISTURBANCE (EXCEPT THOSE WITHIN LANDSCAPED AREAS) UNTIL SUFFICIENT GRASS GROWTH HAS BEEN PROVIDED TO STOP EROSION. SILT FENCES SHALL REMAIN IN GOOD WORKING CONDITION UNTIL GRASS HAS BEEN ESTABLISHED.

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.

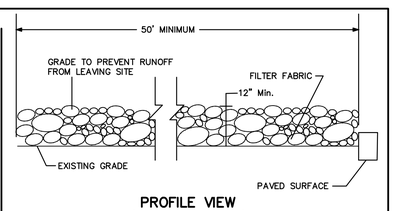
   NO CITY ENGINEERING ACCEPTANCE WITHOUT A MINIMUM 1" STAND OF GRASS (NOT RYE OR WEEDS) COVERING 80% OF ALL DISTURBED AREAS.

   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).



PLAN VIEW

STABILIZED CONSTRUCTION ENTRANCE
N.T.S.

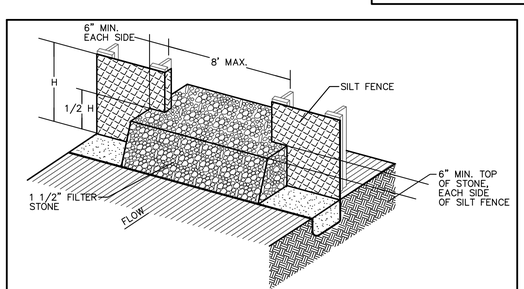


PROFILE VIEW

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.



STONE OVERFLOW STRUCTURE
N.T.S.

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NOVEMBER 29, 2023

Dayton C. Macatee, P.E. – Macatee Engineering, L.L.C. (Tx. Reg. No. F-456) Date
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STATE OF TEXAS
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11/29/2023

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EROSION CONTROL PLAN

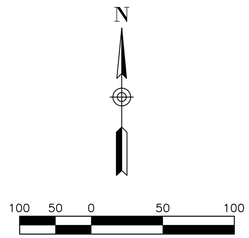
WINDING CREEK

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

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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)

- 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.

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.

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STREET LIGHT AND SIGNAGE PLAN

WINDING CREEK

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

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