

F:\2016\3501-4000\016-3640\40-Design\AutoCAD\Final Plans\LDVP\Phase 2\Streets\STREET & STORM\Grading As-Built\C_SFD_63640.dwg
DATE: Dec 02, 2020 11:31am XREFS: C:\BLK_63640 C:\PSURF_63640 C:\PSURF_63640 PHASE 2 C:\TOPO_63640 PHASE 2 C:\PSURF_63640 C:\PSURF_63640 C:\LOT_LINES_63640 USER: cshinwright

Channel Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Wednesday, Sep 23 2020

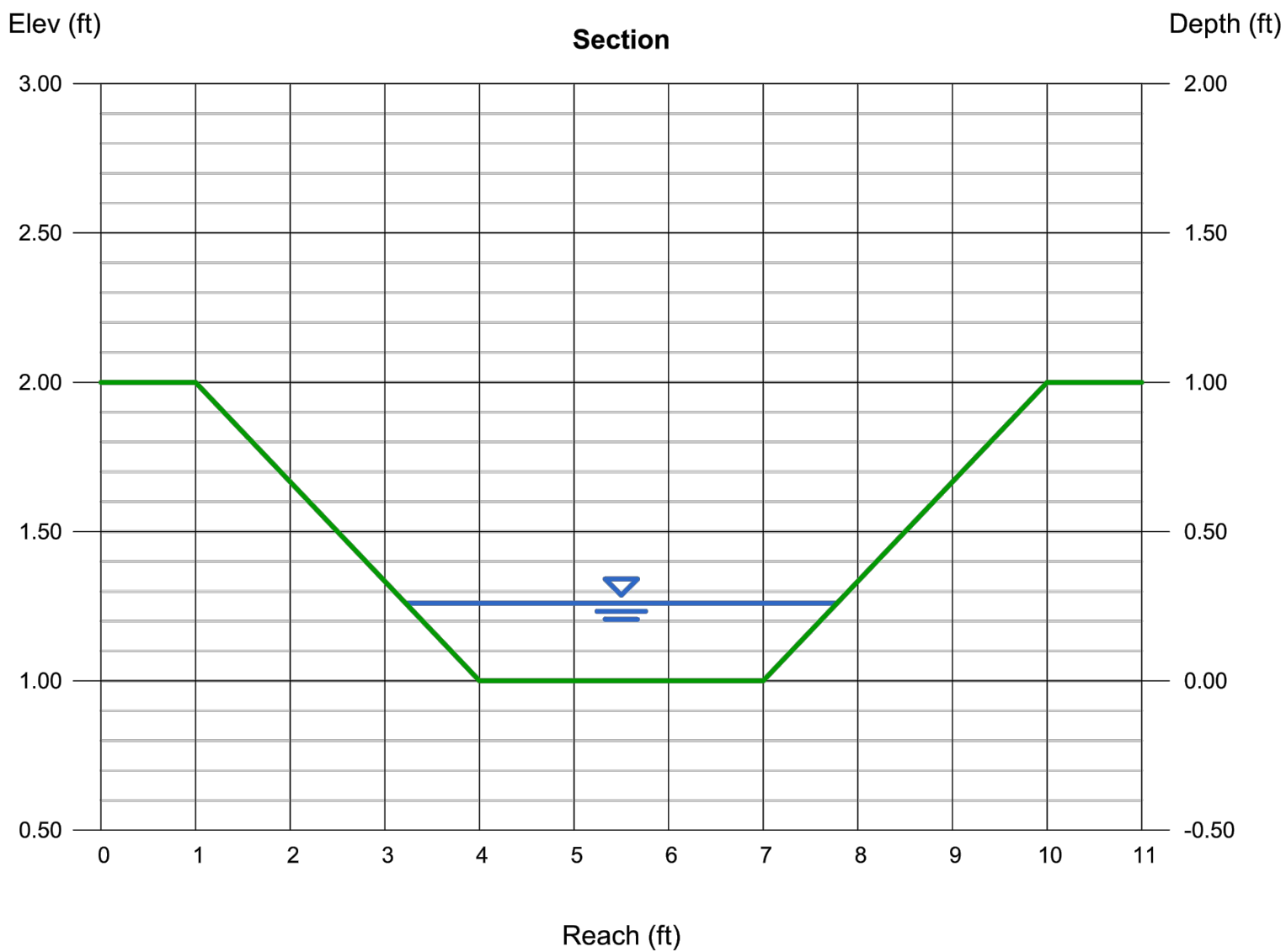
SWALE A

Trapezoidal
Bottom Width (ft) = 3.00
Side Slopes (z:1) = 3.00, 3.00
Total Depth (ft) = 1.00
Invert Elev (ft) = 1.00
Slope (%) = 2.50
N-Value = 0.030

Highlighted
Depth (ft) = 0.26
Q (cfs) = 2.690
Area (sqft) = 0.98
Velocity (ft/s) = 2.74
Wetted Perim (ft) = 4.64
Crit Depth, Yc (ft) = 0.27
Top Width (ft) = 4.56
EGL (ft) = 0.38

Calculations
Compute by: Known Q
Known Q (cfs) = 2.69

Drainage Area=1.42 acres
C=0.51
i 100=10.32 inches/hour
i 10=7.35 inches/hour



Channel Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Wednesday, Sep 23 2020

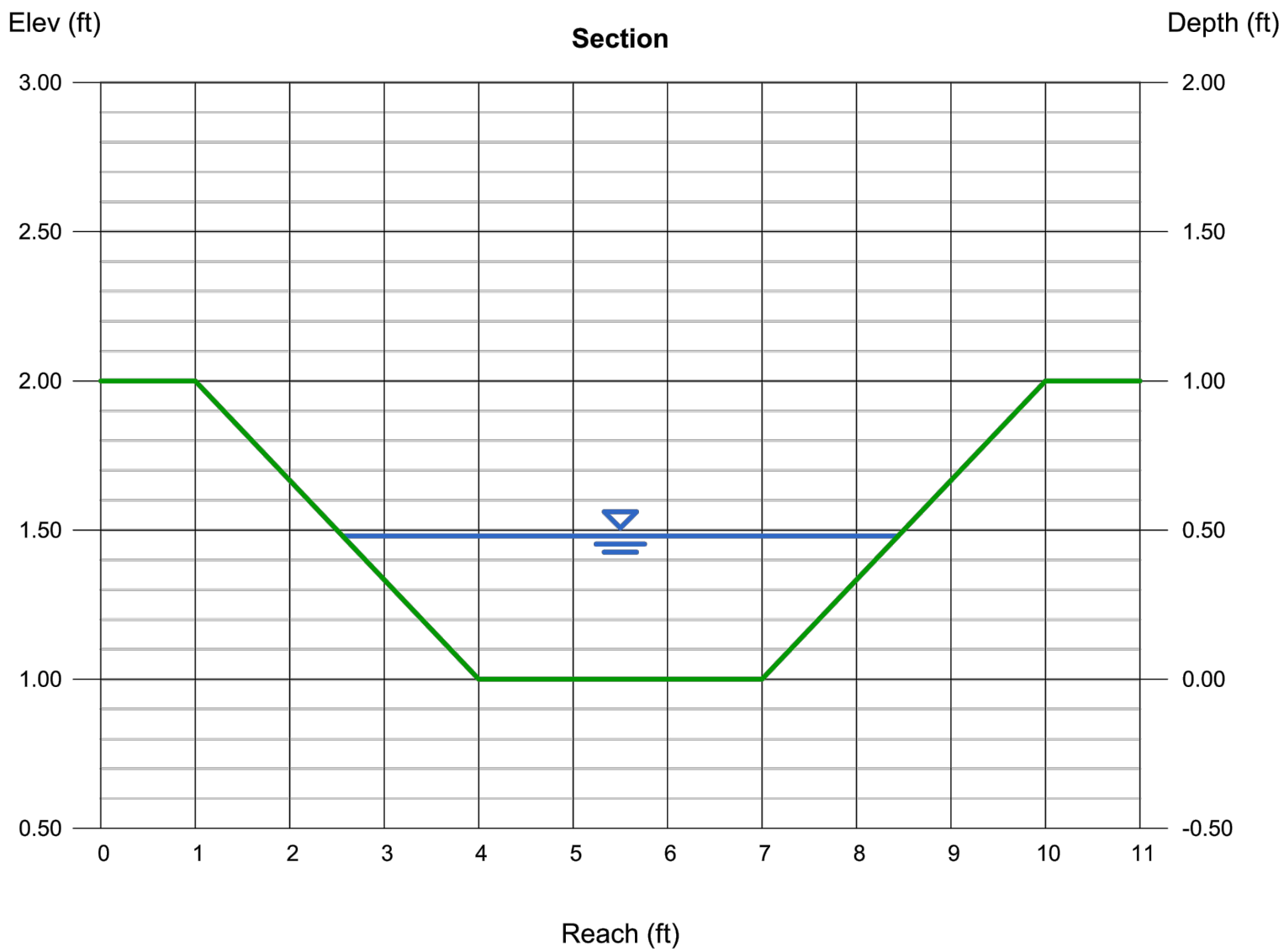
SWALE D

Trapezoidal
Bottom Width (ft) = 3.00
Side Slopes (z:1) = 3.00, 3.00
Total Depth (ft) = 1.00
Invert Elev (ft) = 1.00
Slope (%) = 2.50
N-Value = 0.030

Highlighted
Depth (ft) = 0.48
Q (cfs) = 8.240
Area (sqft) = 2.13
Velocity (ft/s) = 3.87
Wetted Perim (ft) = 6.04
Crit Depth, Yc (ft) = 0.52
Top Width (ft) = 5.88
EGL (ft) = 0.71

Calculations
Compute by: Known Q
Known Q (cfs) = 8.24

Drainage Area=2.76 acres
C=0.51
i 100=10.32 inches/hour
i 10=7.35 inches/hour



Channel Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Wednesday, Sep 23 2020

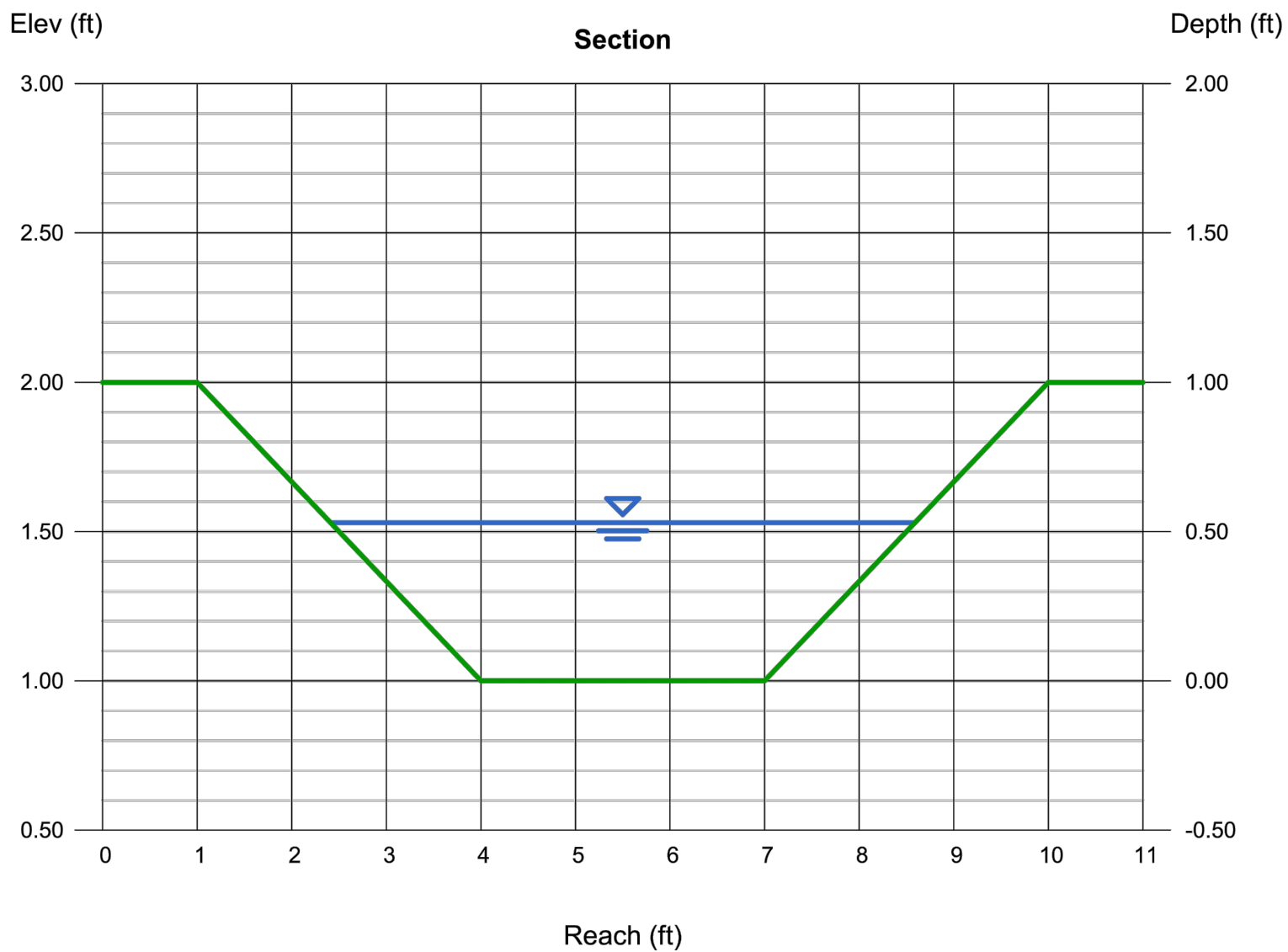
SWALE B

Trapezoidal
Bottom Width (ft) = 3.00
Side Slopes (z:1) = 3.00, 3.00
Total Depth (ft) = 1.00
Invert Elev (ft) = 1.00
Slope (%) = 2.50
N-Value = 0.030

Highlighted
Depth (ft) = 0.53
Q (cfs) = 9.900
Area (sqft) = 2.43
Velocity (ft/s) = 4.07
Wetted Perim (ft) = 6.35
Crit Depth, Yc (ft) = 0.58
Top Width (ft) = 6.18
EGL (ft) = 0.79

Calculations
Compute by: Known Q
Known Q (cfs) = 9.90

Drainage Area=5.23 acres
C=0.51
i 100=10.32 inches/hour
i 10=7.35 inches/hour



Channel Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Wednesday, Sep 23 2020

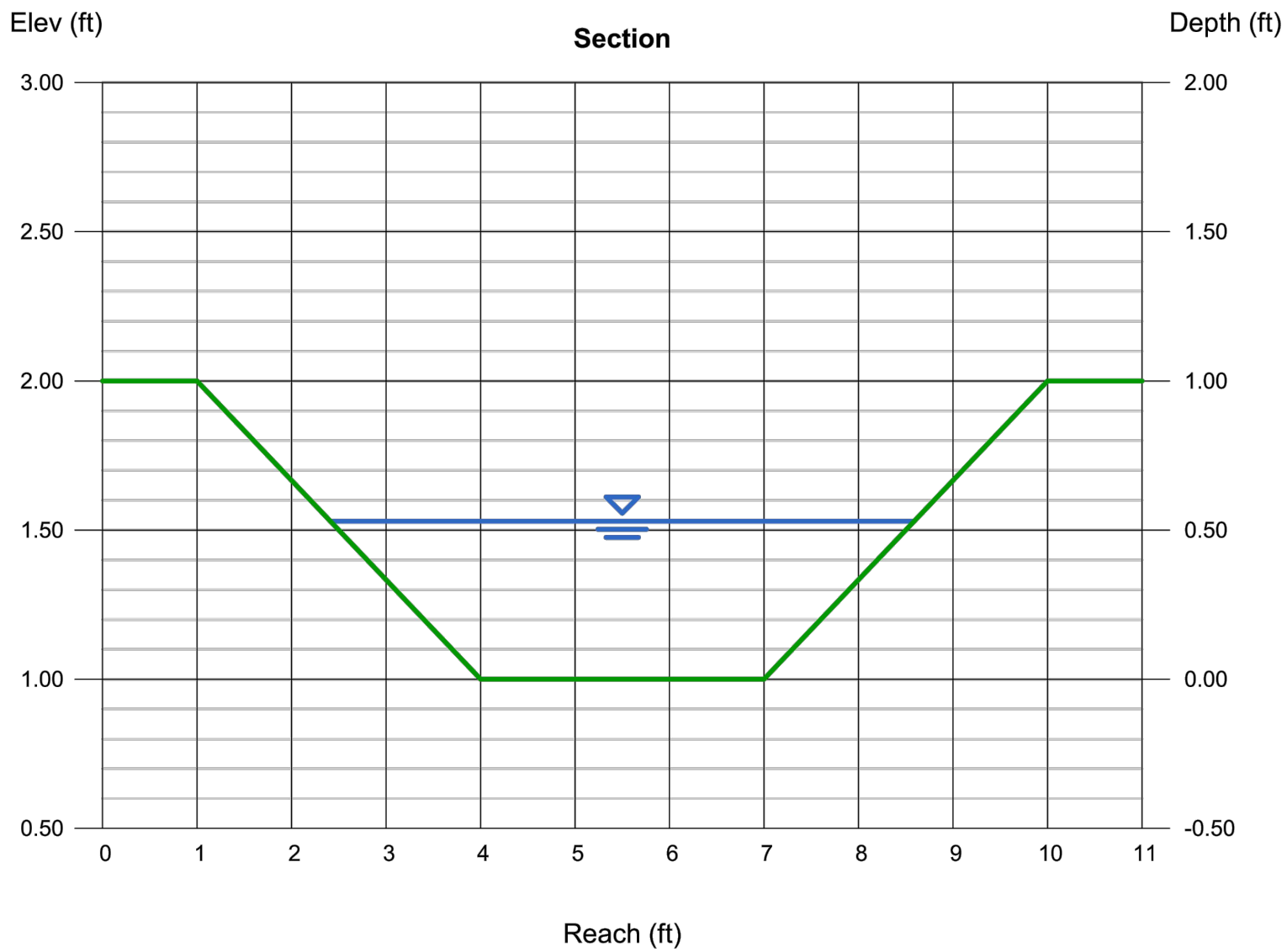
SWALE F

Trapezoidal
Bottom Width (ft) = 3.00
Side Slopes (z:1) = 3.00, 3.00
Total Depth (ft) = 1.00
Invert Elev (ft) = 1.00
Slope (%) = 2.50
N-Value = 0.030

Highlighted
Depth (ft) = 0.53
Q (cfs) = 9.880
Area (sqft) = 2.43
Velocity (ft/s) = 4.06
Wetted Perim (ft) = 6.35
Crit Depth, Yc (ft) = 0.58
Top Width (ft) = 6.18
EGL (ft) = 0.79

Calculations
Compute by: Known Q
Known Q (cfs) = 9.88

Drainage Area=3.19 acres
C=0.51
i 100=10.32 inches/hour
i 10=7.35 inches/hour



Channel Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Wednesday, Sep 23 2020

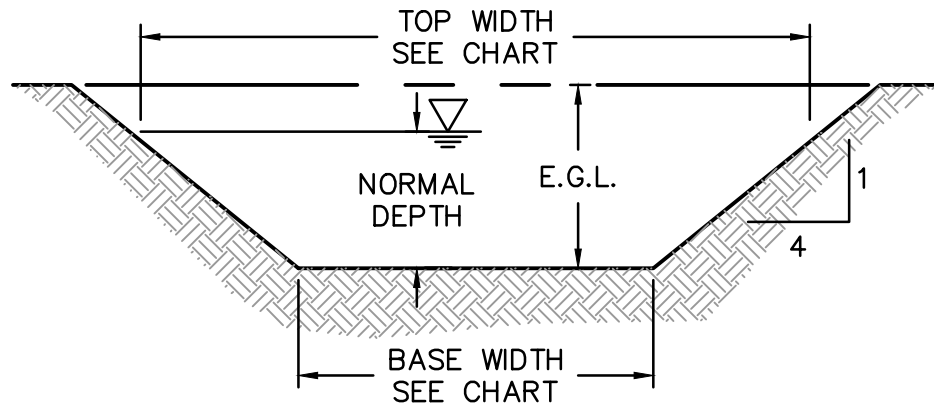
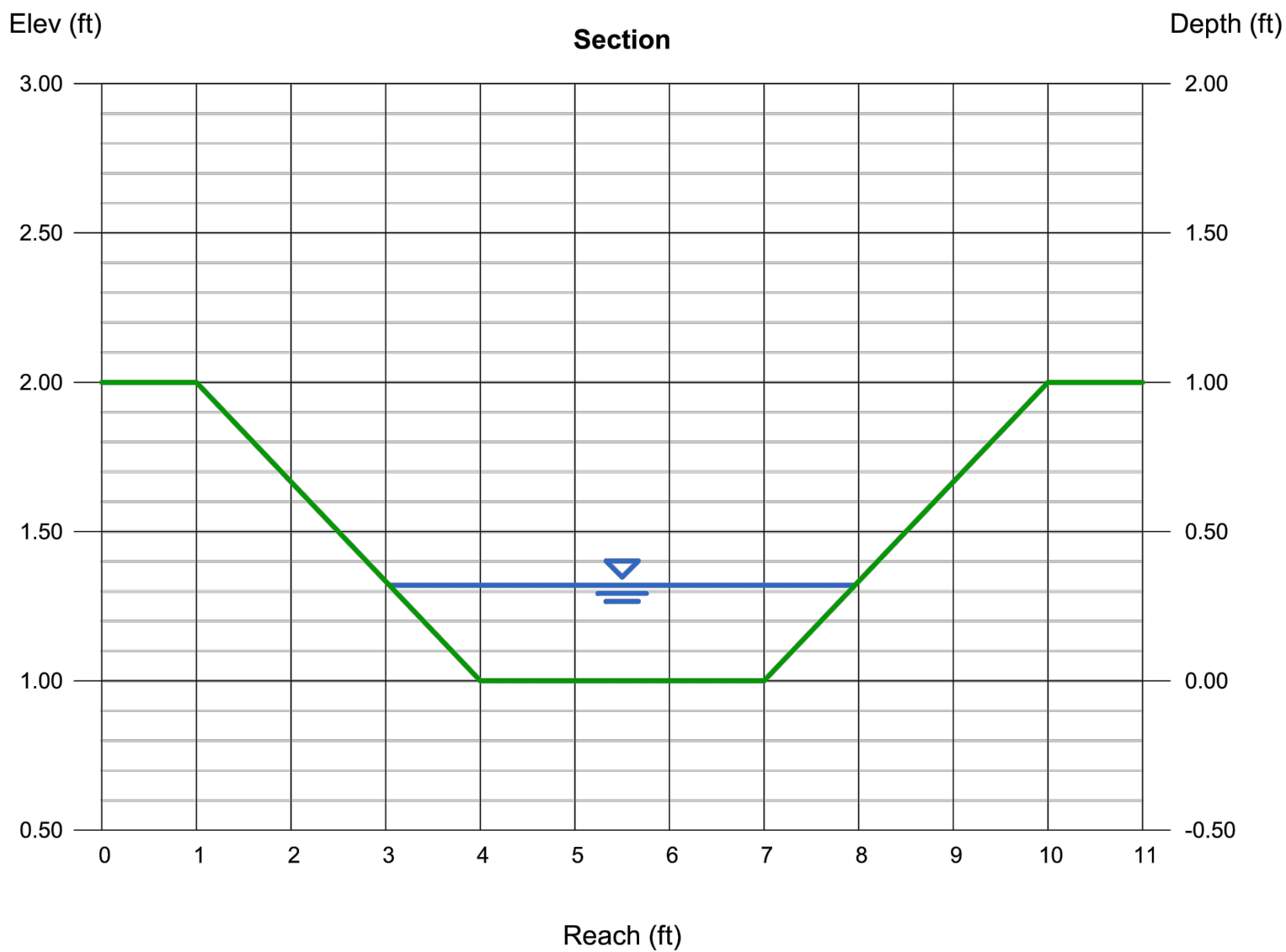
SWALE C

Trapezoidal
Bottom Width (ft) = 3.00
Side Slopes (z:1) = 3.00, 3.00
Total Depth (ft) = 1.00
Invert Elev (ft) = 1.00
Slope (%) = 2.50
N-Value = 0.030

Highlighted
Depth (ft) = 0.32
Q (cfs) = 3.840
Area (sqft) = 1.27
Velocity (ft/s) = 3.03
Wetted Perim (ft) = 5.02
Crit Depth, Yc (ft) = 0.34
Top Width (ft) = 4.92
EGL (ft) = 0.46

Calculations
Compute by: Known Q
Known Q (cfs) = 3.84

Drainage Area=2.03 acres
C=0.51
i 100=10.32 inches/hour
i 10=7.35 inches/hour



100 YR - 10 YR OVERFLOW SWALE SECTIONS A-D
NOT TO SCALE

NOTE:
GRADE SWALES TO E.G.L.

100 YR - 10 YR. RUNOFF CALCULATIONS
 $Q = K * C * (i100 - i10) * A$
 $K = 1.25$
 $C = 0.51$
 $Q_{OVERFLOW} = Q_{100} - Q_{10}$
 $i10 = 7.35$
 $i100 = 10.32$

MANNINGS "N" = 0.03 FOR SWALES

FOUNDATION INVESTIGATION REQUIRED:
LOTS DESIGNATED F.I.R. MEET THE CHARACTERISTICS IDENTIFIED IN THE CITY OF OVERLAND PARK MINIMUM RESIDENTIAL FOUNDATION STANDARDS AND WILL REQUIRE SPECIAL CONSIDERATION BY AN ARCHITECT OR ENGINEER PRIOR TO ISSUANCE OF A BUILDING PERMIT.

NOTE:
CHANNELS SHALL BE VEGETATED IMMEDIATELY AFTER FINAL GRADES ARE ESTABLISHED.

AS-BUILT
11-13-2020

	NAMES	C	INTENSITY	INTENSITY	ACRES	ADDITIONAL ACRES	Total acres	K (Dimension less Q ₁₀₀)	Q ₁₀₀	Q ₁₀	Q ₁₀₀ - Q ₁₀
	SWALE A	0.51	7.35	10.32	1.42	0	1.42	1.25	6.65	9.34	2.69
	SWALE B	0.51	7.35	10.32	5.23	0	5.23	1.25	24.51	34.41	9.90
	SWALE C	0.51	7.35	10.32	2.03	0	2.03	1.25	9.51	13.36	3.84
	SWALE D	0.51	7.35	10.32	2.76	1.59	4.35	1.25	20.38	28.62	8.24
	SWALE F	0.51	7.35	10.32	3.19	2.03	5.22	1.25	24.46	34.34	9.88
	SWALE G	0.51	7.35	10.32	3.00	1.42	4.42	1.25	20.71	29.08	8.37
	SWALE H	0.51	7.35	10.32	3.11	0	3.11	1.25	14.57	20.46	5.89
	SWALE I	0.51	7.35	10.32	7.75	5.23	12.98	1.25	60.82	85.40	24.58
	SWALE J	0.51	7.35	10.32	1.59	0	1.59	1.25	7.45	10.46	3.01

OLSSON ASSOCIATES
7301 West 133rd Street, Suite 200
Overland Park, KS 66213-4750
TEL 913.381.1170
FAX 913.381.1174
www.olsonassociates.com



REV.	NO.	DATE	DESCRIPTION	BY	C/S	C/S
1	11/13/2020	CITY COMMENTS				
2	12/02/2020	CITY COMMENTS				

GRADING CALCULATIONS
STREET, STORM SEWER, & STREET LIGHTING PLANS
COVENTRY VALLEY, THIRD PLAT - PHASE 2, GRADING AS-BUILTS
183RD STREET AND QUIVIRA ROAD
OVERLAND PARK, KANSAS
2020

drawn by: CJS
checked by: LWM
approved by: SR
QA/QC by: MP
project no.: 016-3640
drawing no.:
date: 09/28/2020

SHEET
C2

DWG: F:\2016\3501-4000\016-3640\40-Design\AutoCAD\Final Plans\LDVP\Phase 2\Street\STREET & STORM\Grading As-Built\C_CRD_63640.dwg
DATE: Dec 02, 2020 11:31am XREFS: C:\BKK_63640 C:\PSURF_63640 C:\PSIRM_63640 C:\LOT_LINES_63640 C:\BASE_63640 USER: cshinwright

Channel Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc.

Wednesday, Sep 23 2020

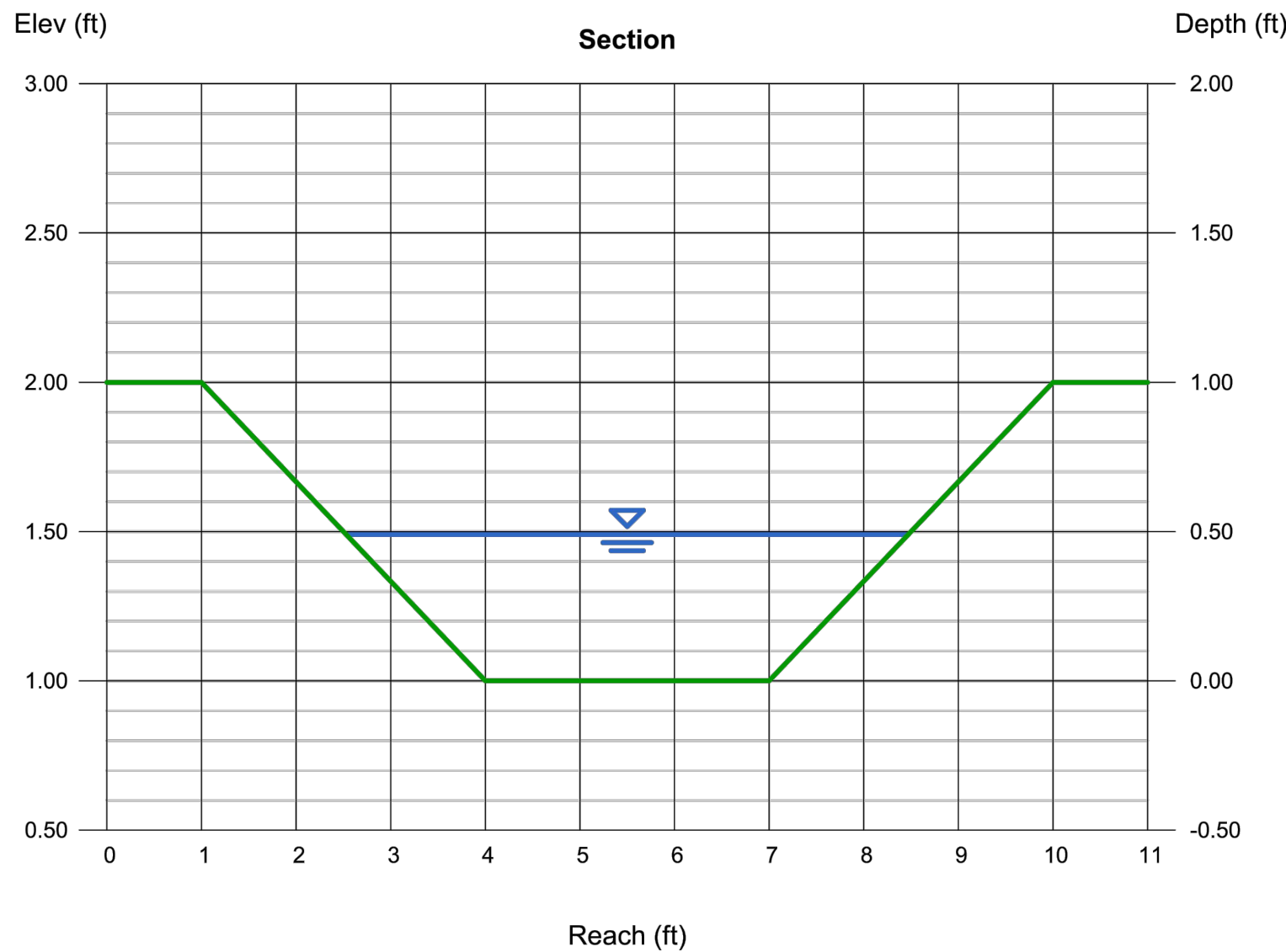
SWALE G

Trapezoidal
Bottom Width (ft) = 3.00
Side Slopes (z:1) = 3.00, 3.00
Total Depth (ft) = 1.00
Invert Elev (ft) = 1.00
Slope (%) = 2.50
N-Value = 0.030

Highlighted
Depth (ft) = 0.49
Q (cfs) = 8.370
Area (sqft) = 2.19
Velocity (ft/s) = 3.82
Wetted Perim (ft) = 6.10
Crit Depth, Yc (ft) = 0.52
Top Width (ft) = 5.94
EGL (ft) = 0.72

Calculations
Compute by: Known Q
Known Q (cfs) = 8.37

Drainage Area=3.00 acres
C=0.51
i 100=10.32 inches/hour
i 10=7.35 inches/hour



Channel Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc.

Wednesday, Sep 23 2020

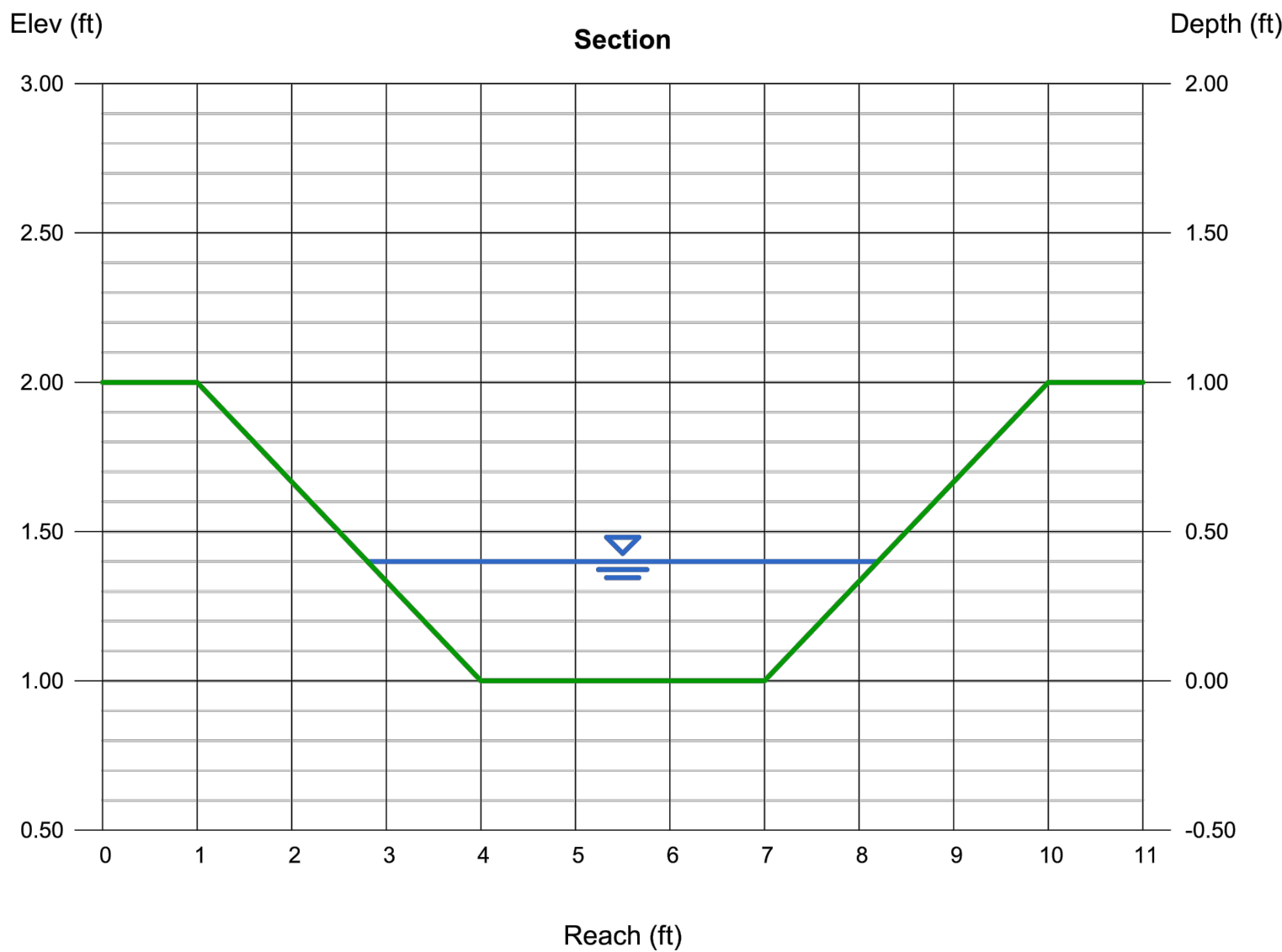
SWALE H

Trapezoidal
Bottom Width (ft) = 3.00
Side Slopes (z:1) = 3.00, 3.00
Total Depth (ft) = 1.00
Invert Elev (ft) = 1.00
Slope (%) = 2.50
N-Value = 0.030

Highlighted
Depth (ft) = 0.40
Q (cfs) = 5.890
Area (sqft) = 1.68
Velocity (ft/s) = 3.51
Wetted Perim (ft) = 5.53
Crit Depth, Yc (ft) = 0.43
Top Width (ft) = 5.40
EGL (ft) = 0.59

Calculations
Compute by: Known Q
Known Q (cfs) = 5.89

Drainage Area=3.11 acres
C=0.51
i 100=10.32 inches/hour
i 10=7.35 inches/hour



Channel Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc.

Wednesday, Sep 23 2020

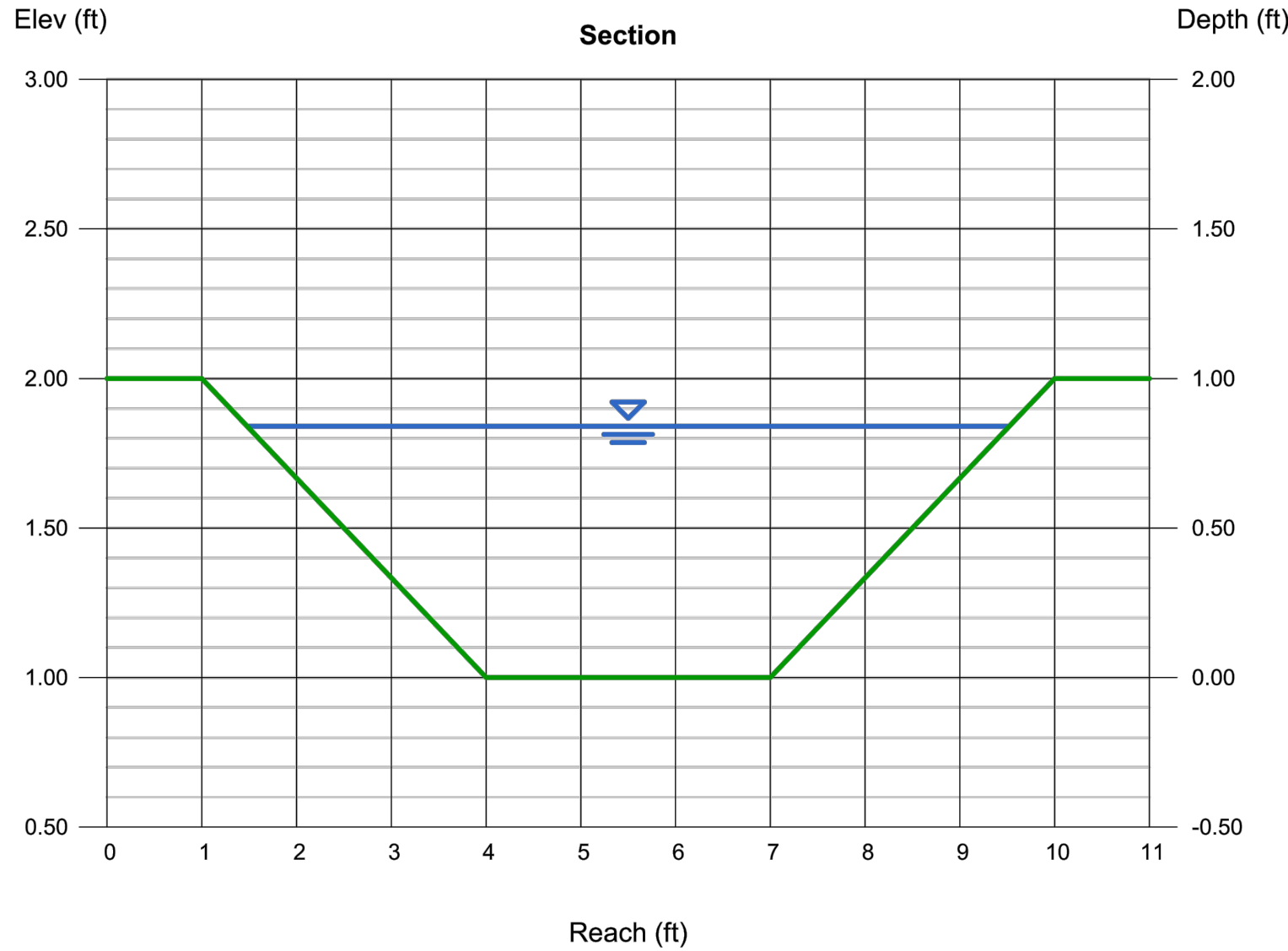
SWALE I

Trapezoidal
Bottom Width (ft) = 3.00
Side Slopes (z:1) = 3.00, 3.00
Total Depth (ft) = 1.00
Invert Elev (ft) = 1.00
Slope (%) = 2.50
N-Value = 0.030

Highlighted
Depth (ft) = 0.84
Q (cfs) = 24.58
Area (sqft) = 4.64
Velocity (ft/s) = 5.30
Wetted Perim (ft) = 8.31
Crit Depth, Yc (ft) = 0.94
Top Width (ft) = 8.04
EGL (ft) = 1.28

Calculations
Compute by: Known Q
Known Q (cfs) = 24.58

Drainage Area=7.75 acres
C=0.51
i 100=10.32 inches/hour
i 10=7.35 inches/hour



Channel Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc.

Wednesday, Sep 23 2020

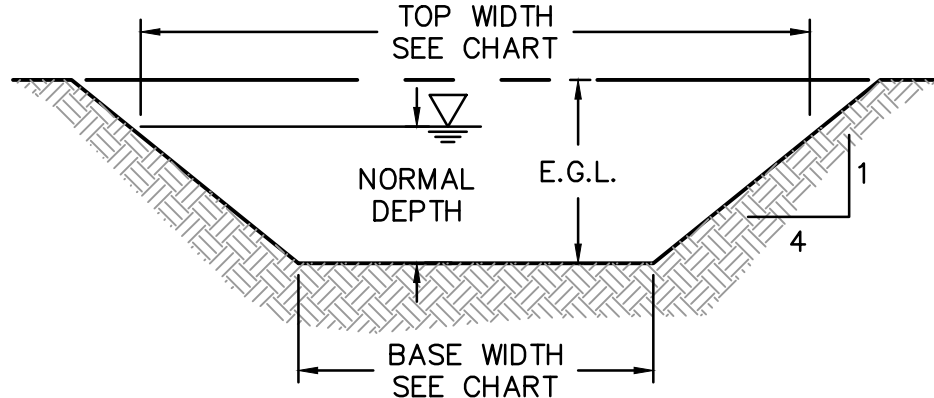
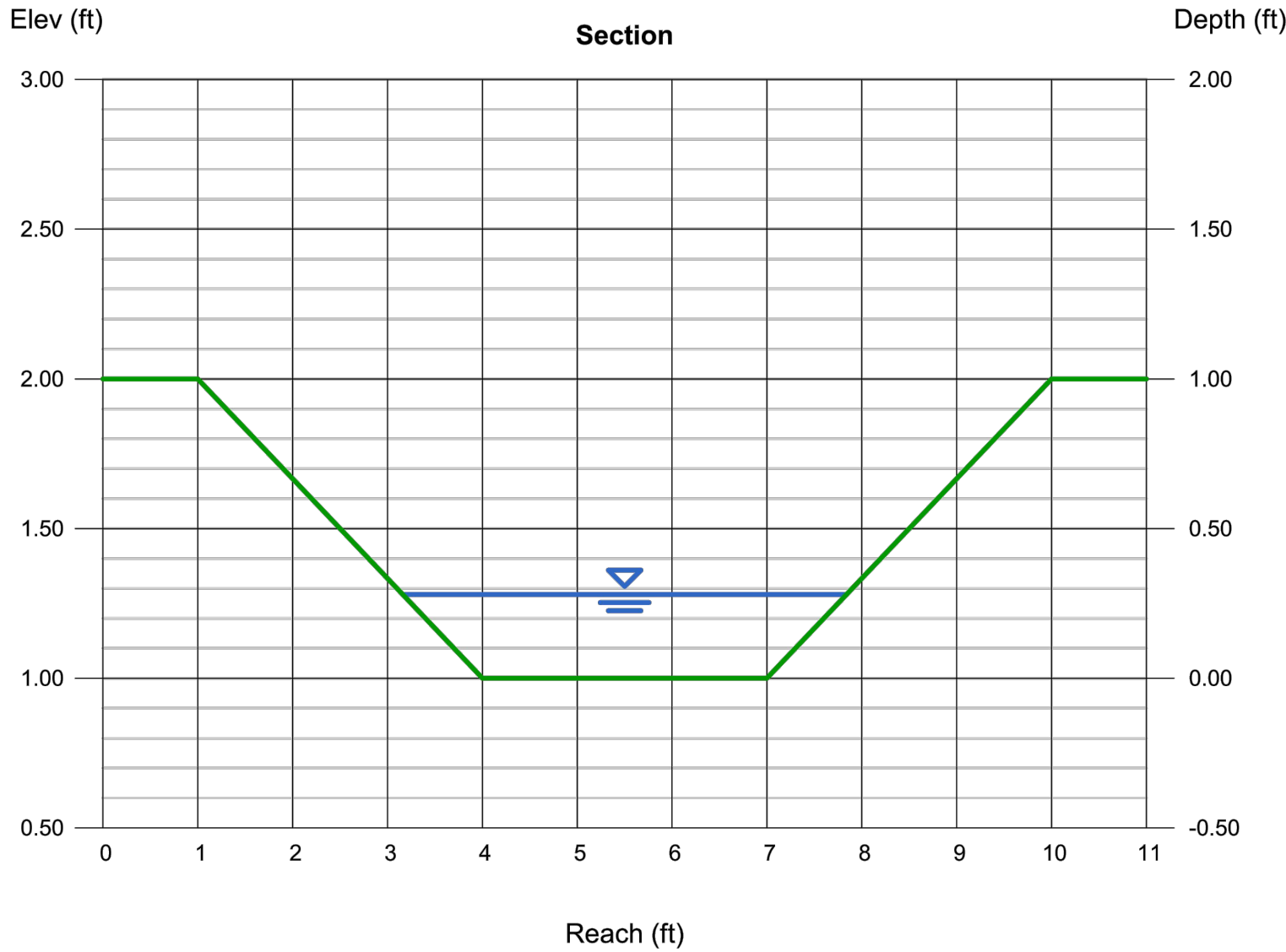
SWALE J

Trapezoidal
Bottom Width (ft) = 3.00
Side Slopes (z:1) = 3.00, 3.00
Total Depth (ft) = 1.00
Invert Elev (ft) = 1.00
Slope (%) = 2.50
N-Value = 0.030

Highlighted
Depth (ft) = 0.28
Q (cfs) = 3.010
Area (sqft) = 1.08
Velocity (ft/s) = 2.80
Wetted Perim (ft) = 4.77
Crit Depth, Yc (ft) = 0.29
Top Width (ft) = 4.68
EGL (ft) = 0.40

Calculations
Compute by: Known Q
Known Q (cfs) = 3.01

Drainage Area=1.59 acres
C=0.51
i 100=10.32 inches/hour
i 10=7.35 inches/hour



100 YR - 10 YR OVERFLOW SWALE SECTIONS A-D

NOT TO SCALE

NOTE:
GRADE SWALES TO E.G.L.

100 YR - 10 YR, RUNOFF CALCULATIONS
 $Q = K * C * (100-110) * A$
 $K = 1.25$
 $C = 0.51$
 $Q_{OVERFLOW} = Q_{100} - Q_{10}$
 $110 = 7.35$
 $1100 = 10.32$

MANNINGS "N" = 0.03 FOR SWALES

FOUNDATION INVESTIGATION REQUIRED:
LOTS DESIGNATED F.I.R. MEET THE CHARACTERISTICS IDENTIFIED IN THE CITY OF OVERLAND PARK MINIMUM RESIDENTIAL FOUNDATION STANDARDS AND WILL REQUIRE SPECIAL CONSIDERATION BY AN ARCHITECT OR ENGINEER PRIOR TO ISSUANCE OF A BUILDING PERMIT.

NOTE:
CHANNELS SHALL BE VEGETATED IMMEDIATELY AFTER FINAL GRADES ARE ESTABLISHED.

AS-BUILT
11-13-2020

	NAMES	C	INTENSITY	INTENSITY	ACRES	ADDITIONAL ACRES	Total acres	K (Dimension less Q ₁₀₀)	Q ₁₀₀	Q ₁₀	Q ₁₀₀ - Q ₁₀
	SWALE A	0.51	7.35	10.32	1.42	0	1.42	1.25	6.65	9.34	2.69
	SWALE B	0.51	7.35	10.32	5.23	0	5.23	1.25	24.51	34.41	9.90
	SWALE C	0.51	7.35	10.32	2.03	0	2.03	1.25	9.51	13.36	3.84
	SWALE D	0.51	7.35	10.32	2.76	1.59	4.35	1.25	20.38	28.62	8.24
	SWALE F	0.51	7.35	10.32	3.19	2.03	5.22	1.25	24.46	34.34	9.88
	SWALE G	0.51	7.35	10.32	3.00	1.42	4.42	1.25	20.71	29.08	8.37
	SWALE H	0.51	7.35	10.32	3.11	0	3.11	1.25	14.57	20.46	5.89
	SWALE I	0.51	7.35	10.32	7.75	5.23	12.98	1.25	60.82	85.40	24.58
	SWALE J	0.51	7.35	10.32	1.59	0	1.59	1.25	7.45	10.46	3.01

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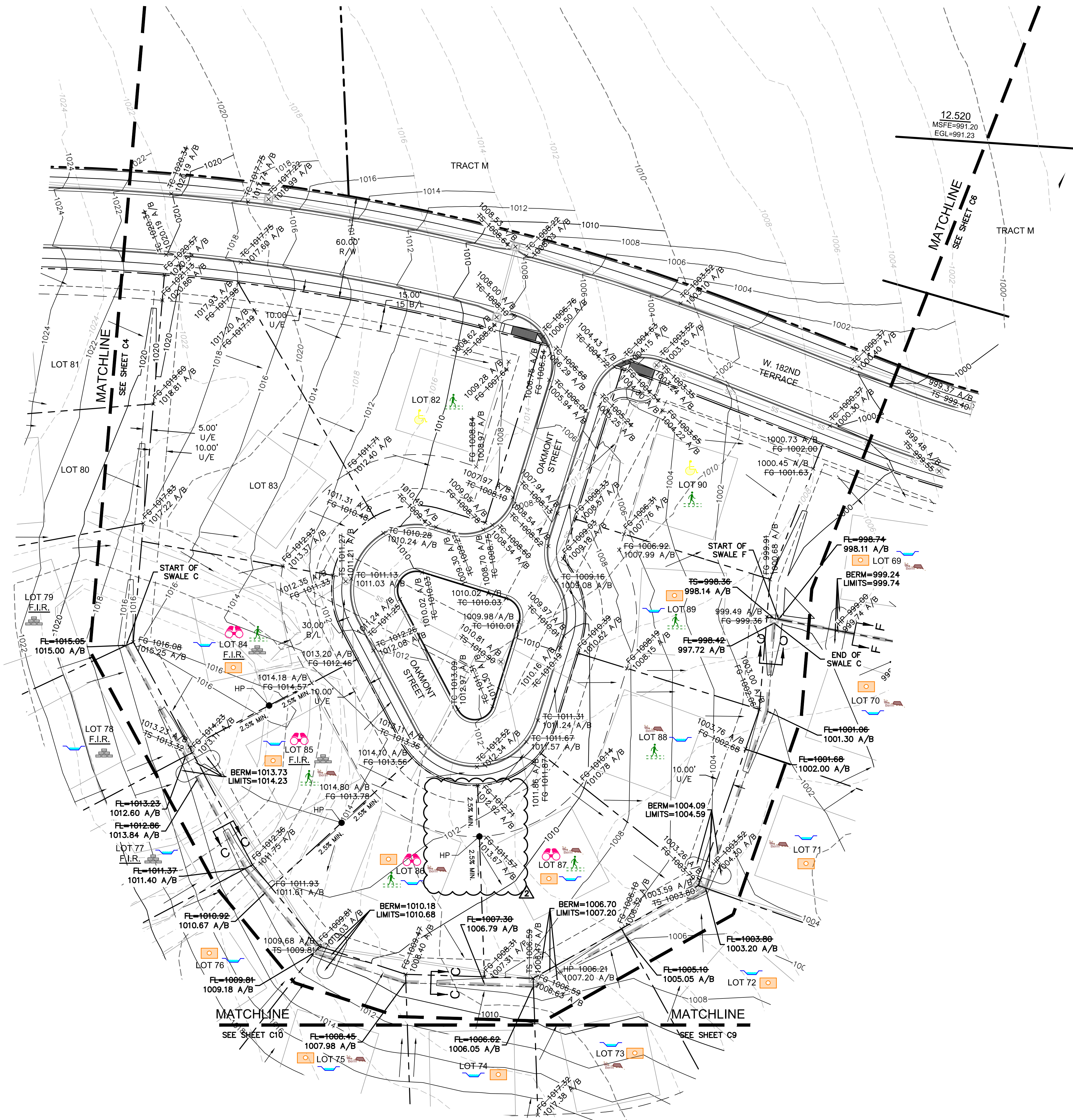
REV.	NO.	DATE	DESCRIPTION	BY	C/S
1	11/13/2020	CITY COMMENTS			
2	12/02/2020	CITY COMMENTS			

GRADING CALCULATIONS
STREET, STORM SEWER, & STREET LIGHTING PLANS
COVENTRY VALLEY, THIRD PLAT - PHASE 2, GRADING AS-BUILTS
183RD STREET AND QUIVIRA ROAD
OVERLAND PARK, KANSAS
2020

drawn by: CJS
checked by: LWM
approved by: SR
QA/QC by: MP
project no.: 016-3640
drawing no.:
date: 09/28/2020

SHEET
C3

DWG: F:\2016\3501-4000\016-3640\40-Design\AutoCAD\Final Plans\LDVP\Phase 2\Storm\Grading As-Built\C_CPD3_63640.dwg USER: cshwright V:\2016\3501-4000\016-3640\40-Design\AutoCAD\Final Plans\LDVP\Phase 2\Storm\Grading As-Built\C_CPD3_63640.dwg V:\2016\3501-4000\016-3640\40-Design\AutoCAD\Final Plans\LDVP\Phase 2\Storm\Grading As-Built\C_CPD3_63640.dwg
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LEGEND

EXISTING GRADE CONTOUR
FINISHED GRADE CONTOUR
ENGINEERED SWALES
LIMITS OF BERM

SPOT ELEVATION LEGEND

ALL SPOT ELEVATIONS ARE AT TOP BACK OF CURB UNLESS NOTED OTHERWISE.

FG= FINISHED GRADE WITHIN GREENSPACE
TP= TOP OF PAVEMENT
TS= TOP OF STRUCTURE
TP=TC= CURB DEPRESSED TO BE FLUSH WITH ADJACENT PAVEMENT
HP= HIGH POINT
LP= LOW POINT
MATCH EX.= MATCH EXISTING
FUTR EL.= FUTURE AND PROPOSED ELEVATION OF EDGE OF FUTURE 183RD STREET
F.I.R.= FOUNDATION INVESTIGATION REQUIRED FOR HOUSE

As-Built Grading Plan Holds Key

Foundation Investigation Required
Minimum Low Opening (MLO) Inspection Required
Elevation Certificate Required
Drainage Swale
Public Sidewalk Required
Public Sidewalk Ramp Required
Engineering Plot Plan Approval Required
Site Grading Inspection Required
Storm Structure on Lot
Not Released for Permits
Berm

AS-BUILT
11-13-2020

0' 15' 30' 60'
SCALE IN FEET

KEY MAP
SCALE: 1" = 500'

KEY MAP showing lots C4, C5, C6, C7, C8, C9, C10.

OLSSON ASSOCIATES

7301 West 133rd Street, Suite 200
Overland Park, KS 66213-4750
TEL 913.381.1170
FAX 913.381.1174
www.olsonassociates.com

WITH A PLEAS LICENSED PROFESSIONAL ENGINEER
M.S. P. 20399
12-2-20

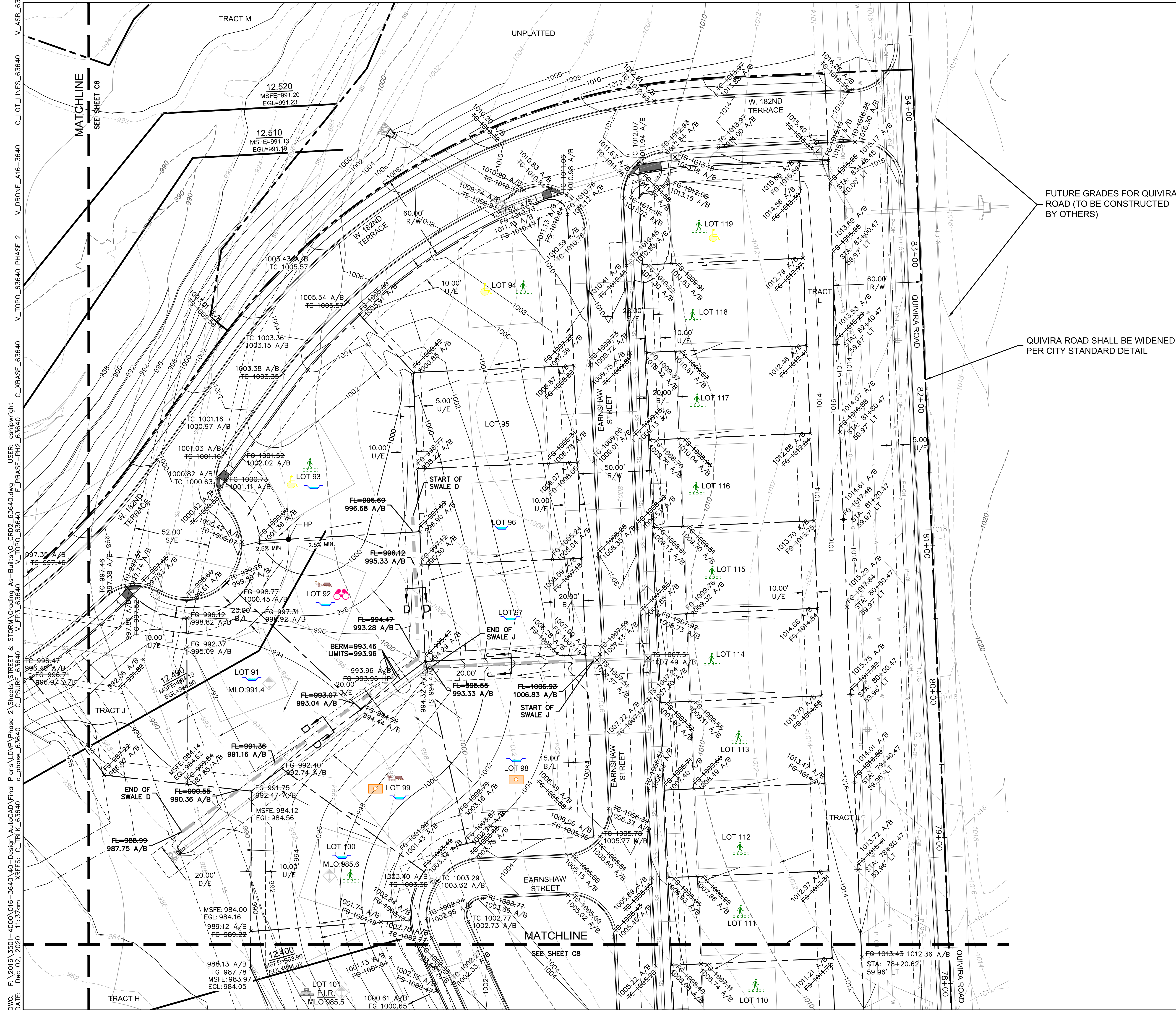
REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	11/13/2020	CITY COMMENTS	C/S
2	12/02/2020	CITY COMMENTS	C/S

GRADING PLAN
STREET, STORM SEWER, & STREET LIGHTING PLANS
COVENTRY VALLEY, THIRD PLAT - PHASE 2, GRADING AS-BUILTS
183RD STREET AND QUIVIRA ROAD
OVERLAND PARK, KANSAS

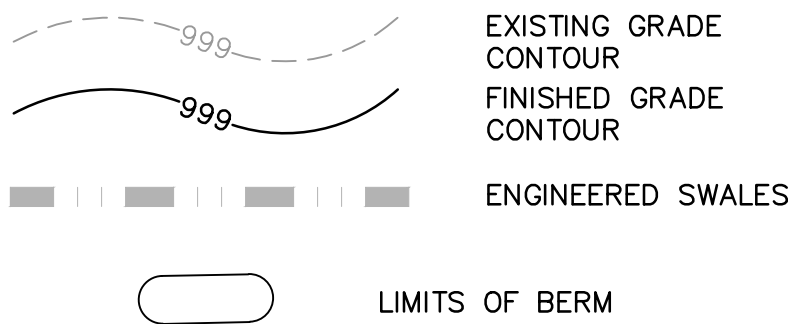
drawn by: C/S
checked by: LWM
approved by: SR
QA/QC by: MP
project no.: 016-3640
drawing no.: 09/28/2020

SHEET C5

SHEET
C6



LEGEND



SPOT ELEVATION LEGEND

ALL SPOT ELEVATIONS ARE AT TOP BACK OF CURB UNLESS NOTED OTHERWISE.

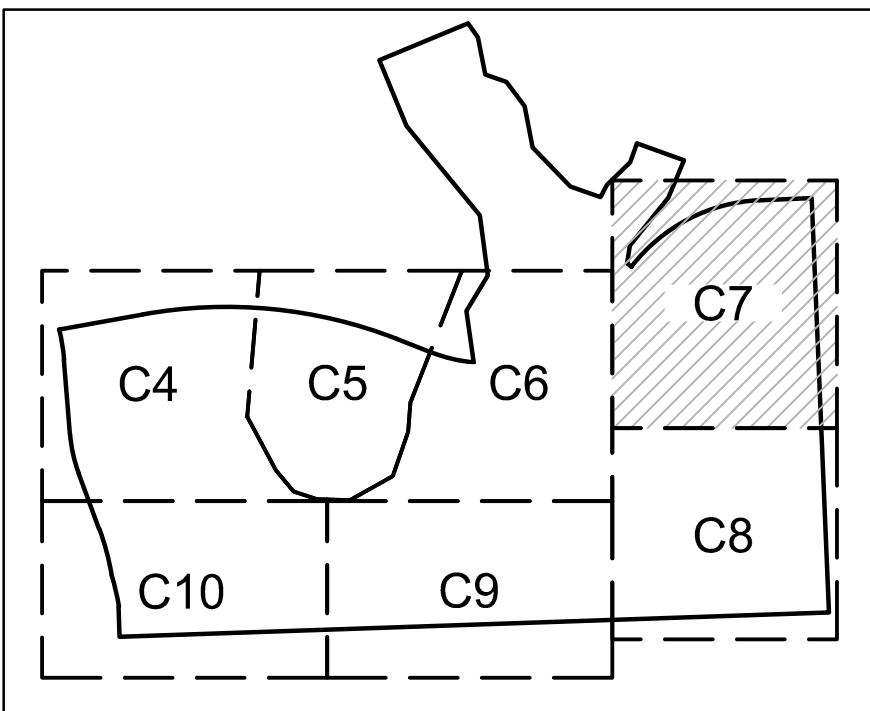
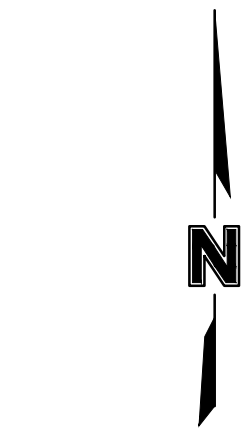
FG=	FINISHED GRADE WITHIN GREENSPACE
TP=	TOP OF PAVEMENT
TS=	TOP OF STRUCTURE
TP=TC=	CURB DERESSED TO BE FLUSH WITH ADJACENT PAVEMENT
HP=	HIGH POINT
LP=	LOW POINT
MATCH EX.=	MATCH EXISTING
FUTR EL=	
PROP EL=	FUTURE AND PROPOSED ELEVATION OF EDGE OF FUTURE 183RD STREET
F.I.R=	FOUNDATION INVESTIGATION REQUIRED FOR HOUSE

As-Built Grading Plan Holds Key



AS-BUILT

11-13-2020



KEY MAP
SCALE: 1" = 500'

[illegible]

GRADING PLAN
SEWER, & STREET LIGHTING PLANS

COVENTRY VALLEY, THIRD PLAT - PHASE 2, GRADING AS-BUILTS
183RD STREET AND QUIVIRA ROAD

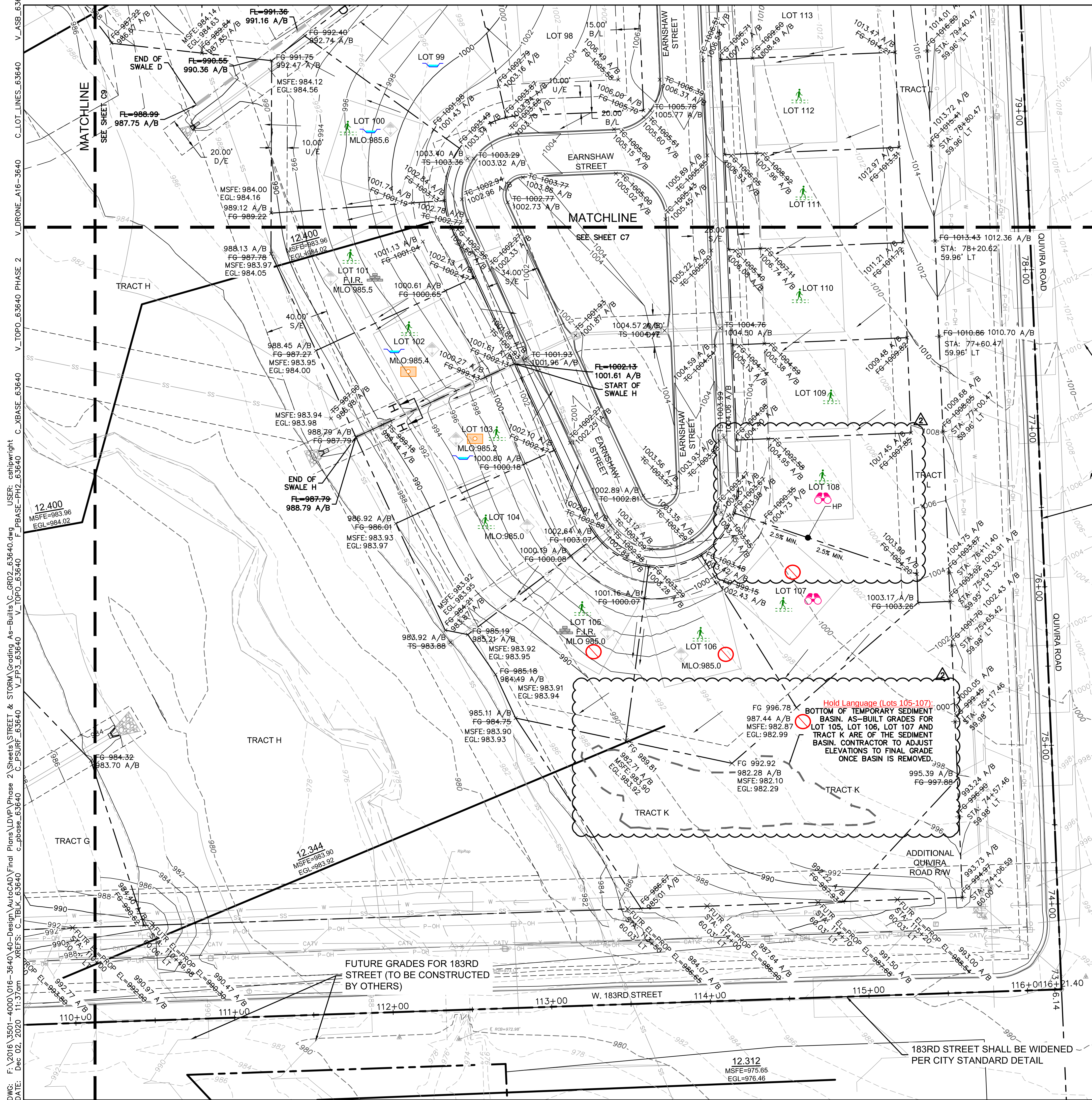
OVERLAND PARK, KANSAS

DEVISONS

2020

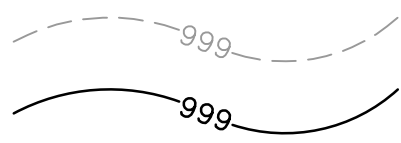
drawn by: _____ CJS
checked by: _____ LWM
approved by: _____ SR
QA/QC by: _____ MP
project no.: _____ 016-3640
drawing no.: _____
date: _____ 09/28/2020

SHEET
C7



DWG: F:\2016\3501-4000\016-3640\40-Design\AutoCAD\Final Plans\LDVP\Phase 2\Sheets\STREET & STORM\Grading As-Builts\C_GRD2_63640.dwg
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 DATE: Dec 02, 2020 11:37am USER: cshipwright

LEGEND



EXISTING GRADE
CONTOUR
FINISHED GRADE
CONTOUR

LIMITS OF BERM

SPOT ELEVATION LEGEND

ALL SPOT ELEVATIONS ARE AT TOP BACK OF CURB UNLESS NOTED OTHERWISE.

FG= FINISHED GRADE WITHIN GREENSPACE
TP= TOP OF PAVEMENT
TS= TOP OF STRUCTURE
TP=TC= CURB DEPRESSED TO BE FLUSH WITH
ADJACENT PAVEMENT
HP= HIGH POINT
LP= LOW POINT
MATCH EX.= MATCH EXISTING
FUTR EL= FUTURE AND PROPOSED ELEVATION OF
PROP EL= EDGE OF FUTURE 183RD STREET
F.I.= FOUNDATION INVESTIGATION REQUIRED
FOR HOUSE

As-Built Grading Plan Holds Key

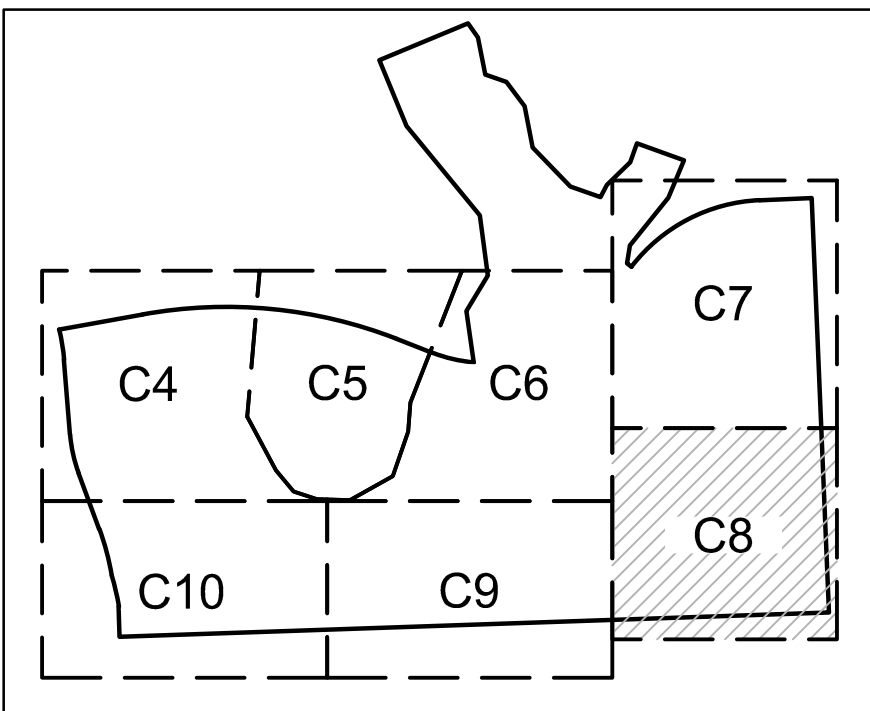
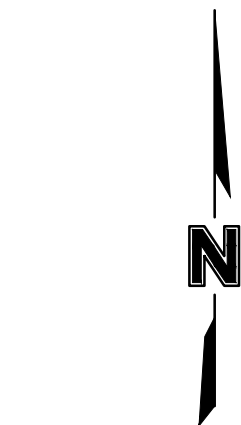


FUTURE GRADES FOR QUIVIRA
ROAD (TO BE CONSTRUCTED
BY OTHERS)

QUIVIRA ROAD SHALL BE WIDENED
PER CITY STANDARD DETAIL

AS-BUILT

11-13-2020



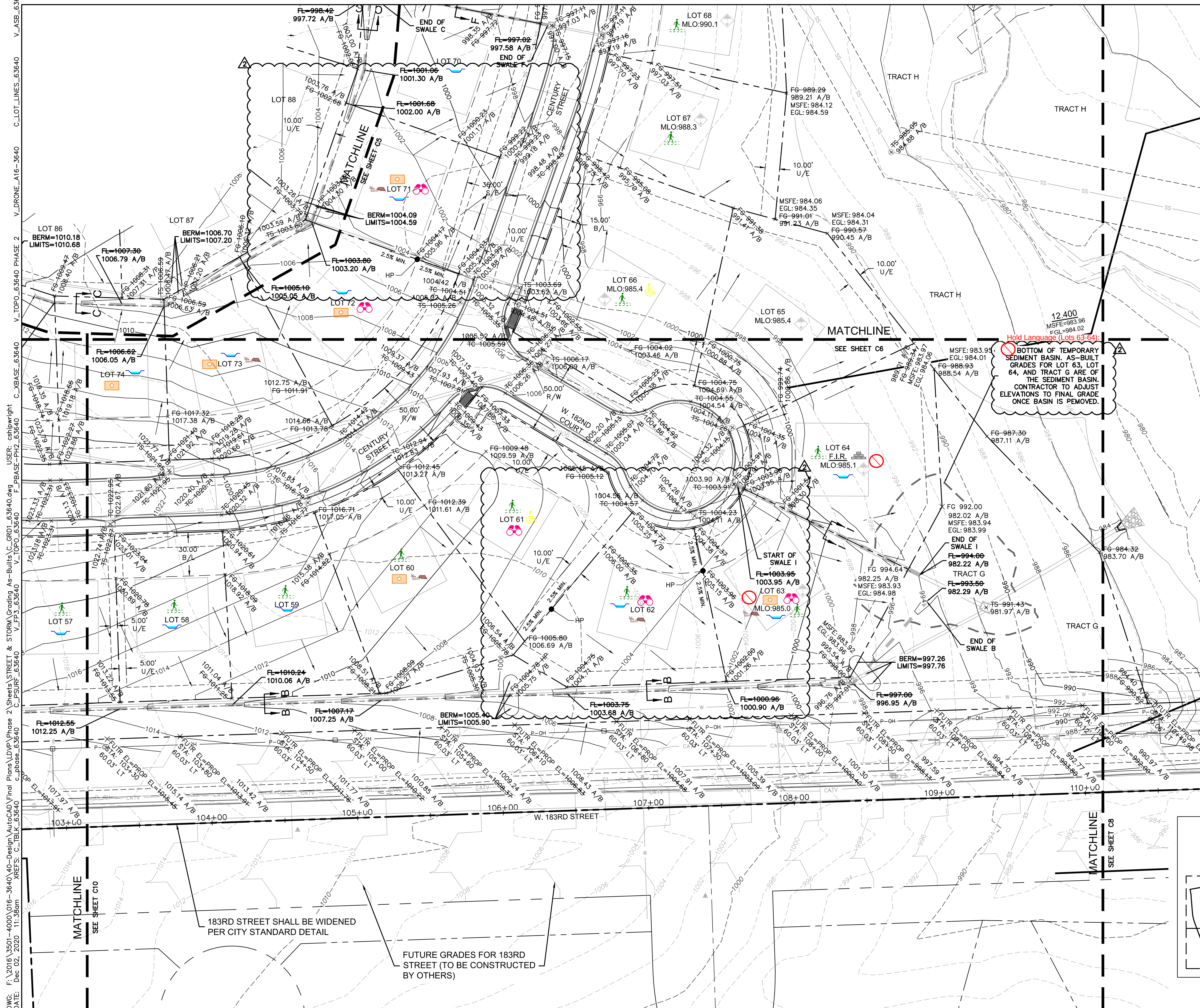
KEY MAP
SCALE: 1" = 500'

[illegible]

GRADING PLAN
STREET, STORM SEWER, & STREET LIGHTING PLANS
COVENTRY VALLEY, THIRD PLAT - PHASE 2, GRADING AS-BUILT
183RD STREET AND QUIVIRA ROAD

drawn by: _____ CJS
checked by: _____ LWM
approved by: _____ SP
QA/QC by: _____ MF
project no.: _____ 016-364
drawing no.: _____
date: _____ 09/28/2020

SHEET 2
C8



LEGEND

EXISTING GRADE CONTOUR

FINISHED GRADE CONTOUR

ENGINEERED SWALES

LIMITS OF BERM

SPOT ELEVATION LEGEND

ALL SPOT ELEVATIONS ARE AT TOP BACK OF CURB UNLESS NOTED OTHERWISE.

FG= FINISHED GRADE WITHIN GREENSPACE

TP= TOP OF PAVEMENT

TS= TOP OF STRUCTURE

TP=TC= CURB DERESSED TO BE FLUSH WITH ADJACENT PAVEMENT

HP= HIGH POINT

LP= LOW POINT

MATCH EX.= MATCH EXISTING

FUTR EL= FUTURE AND PROPOSED ELEVATION OF EDGE OF FUTURE 183RD STREET

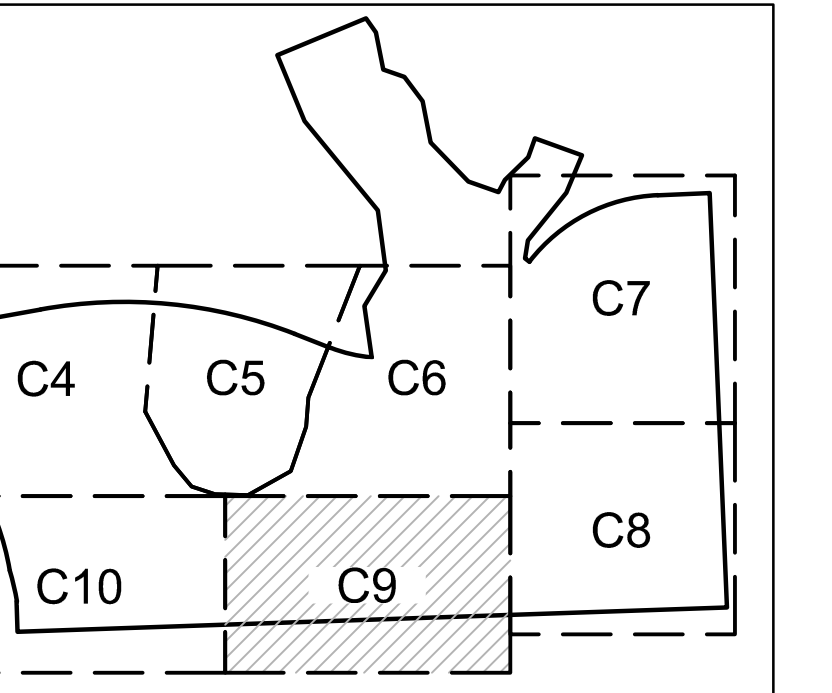
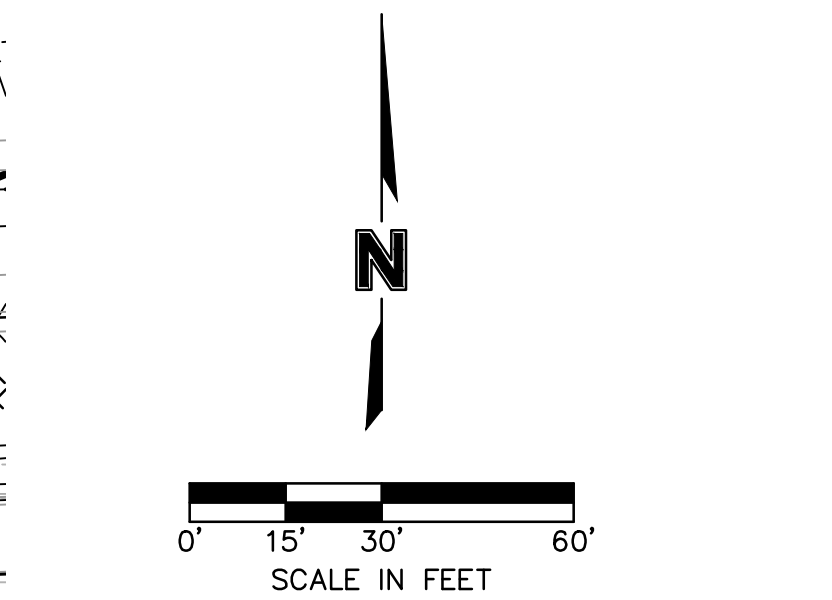
PROP EL= FUTURE AND PROPOSED ELEVATION OF HOUSE FOUNDATION

As-Built Grading Plan Holds Key

-  Foundation Investigation Required
-  Minimum Low Opening (MLO) Inspection Required
-  Elevation Certificate Required
-  Drainage Swale
-  Public Sidewalk Required
-  Public Sidewalk Ramp Required
-  Engineering Plot Plan Approval Required
-  Site Grading Inspection Required
-  Storm Structure on Lot
-  Not Released for Permits
-  Berm

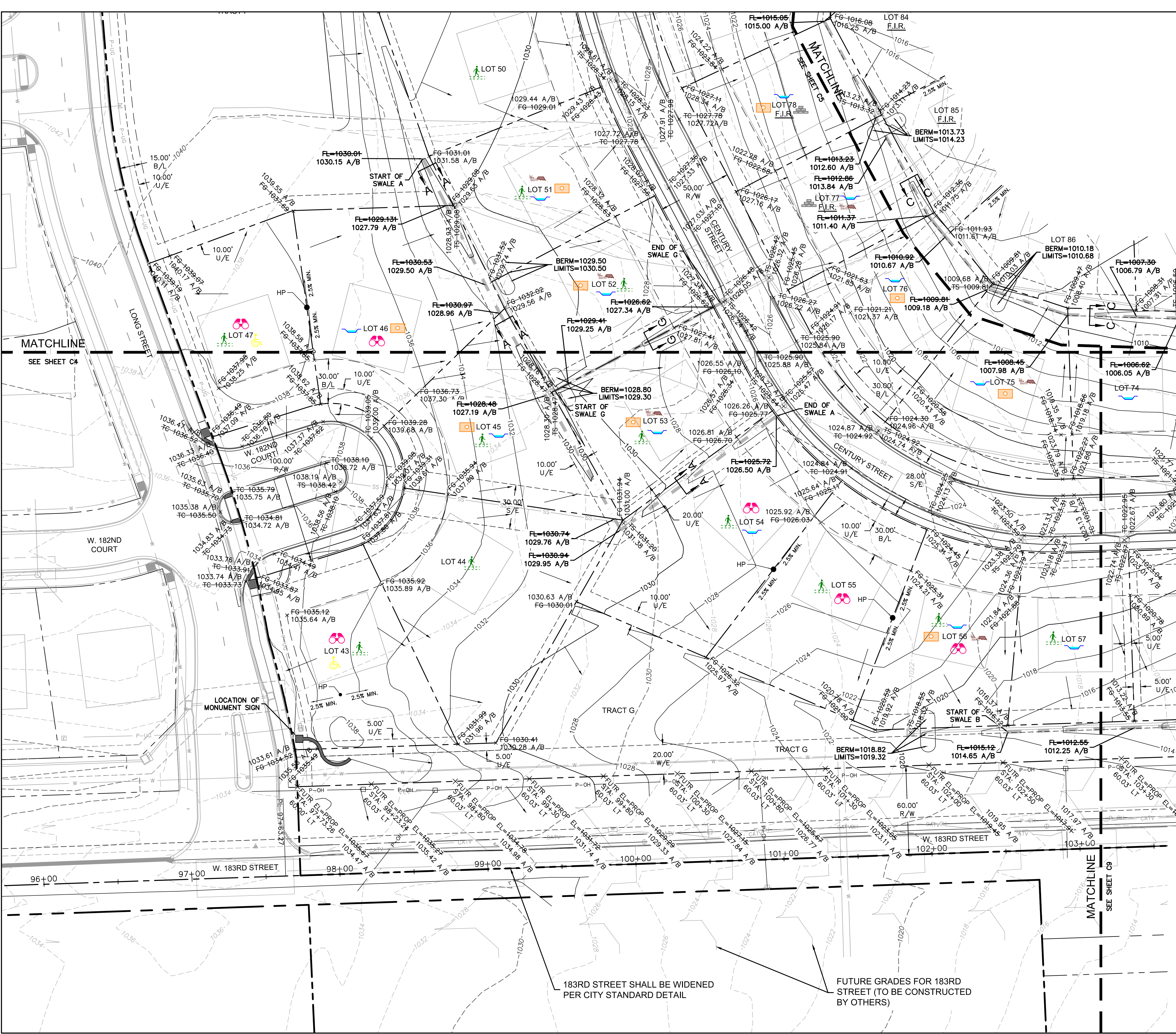
AS-BUILT

11-13-2020



KEY MAP
SCALE: 1" = 500'

DWG: F:\2016\3501-4000\016-3640\40-Design\AutoCAD\Final Plans\LDVP\Phase 2\Streets\STREET & STORM\Grading As-Built\A-CR01_63640.dwg USER: esthwright
DATE: Dec 02, 2020 11:39am XREFS: C:\BULK_63640 C:\BASE-PH2_63640 V:\TOPO_63640 V:\DRONE_A16-3640 C:\LOT_LINES_63640 V_ASB_63640



LEGEND

EXISTING GRADE CONTOUR
FINISHED GRADE CONTOUR
ENGINEERED SWALES
LIMITS OF BERM

SPOT ELEVATION LEGEND

ALL SPOT ELEVATIONS ARE AT TOP BACK OF CURB UNLESS NOTED OTHERWISE.

FG= FINISHED GRADE WITHIN GREENSPACE
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TP=TC= CURB DEPRESSED TO BE FLUSH WITH ADJACENT PAVEMENT
HP= HIGH POINT
LP= LOW POINT
MATCH EX.= MATCH EXISTING
FUTR EL.= FUTURE AND PROPOSED ELEVATION OF EDGE OF FUTURE 183RD STREET
FOUNDATION INVESTIGATION REQUIRED FOR HOUSE
F.I.R.=

As-Built Grading Plan Holds Key

Foundation Investigation Required
Minimum Low Opening (MLO) Inspection Required
Elevation Certificate Required
Drainage Swale
Public Sidewalk Required
Public Sidewalk Ramp Required
Engineering Plot Plan Approval Required
Site Grading Inspection Required
Storm Structure on Lot
Not Released for Permits
Berm

AS-BUILT
11-13-2020

0' 15' 30' 60'
SCALE IN FEET

KEY MAP
SCALE: 1" = 500'

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WITH A PLEASANT
2020
PROFESSIONAL ENGINEER

REV.	NO.	DATE	REVISIONS DESCRIPTION	BY	C/S
1	11/13/2020		CITY COMMENTS		
2	12/02/2020		CITY COMMENTS		

GRADING PLAN
STREET, STORM SEWER, & STREET LIGHTING PLANS
COVENTRY VALLEY, THIRD PLAT - PHASE 2, GRADING AS-BUILTS
183RD STREET AND QUIVIRA ROAD
OVERLAND PARK, KANSAS

drawn by: CJS
checked by: LWM
approved by: SR
QA/QC by: MP
project no.: 016-3640
drawing no.:
date: 09/28/2020

SHEET
C10

REVISIONS
2020