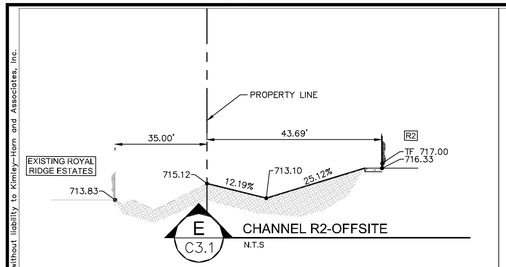

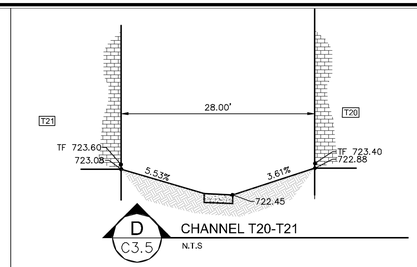

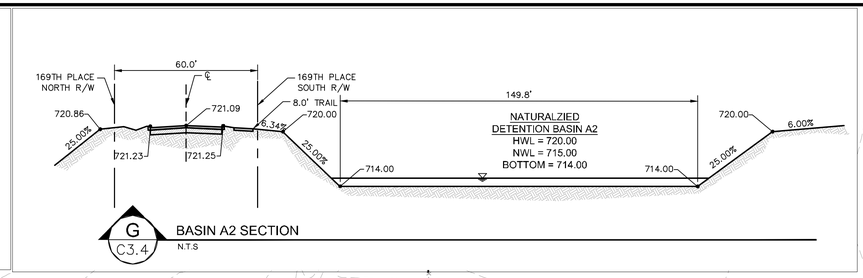

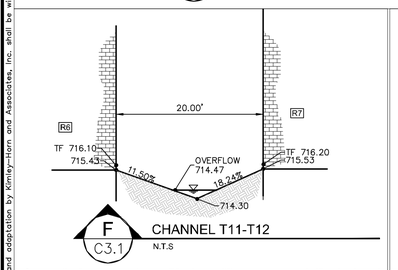

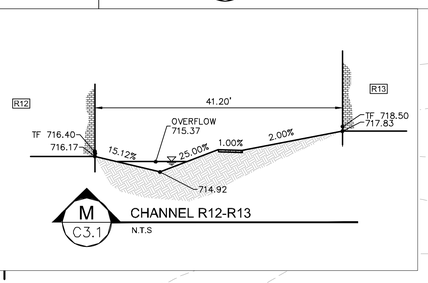

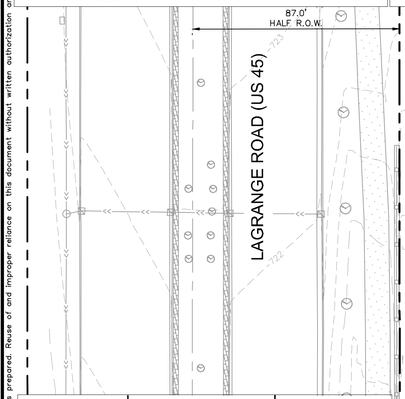

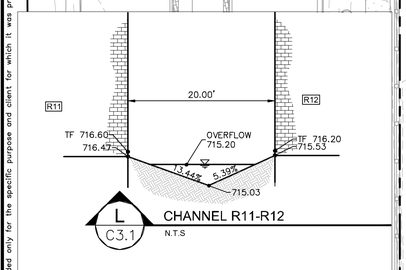

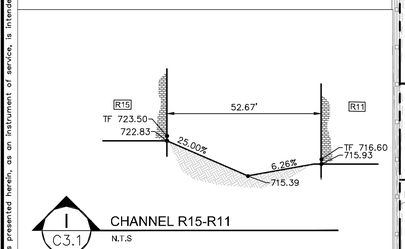

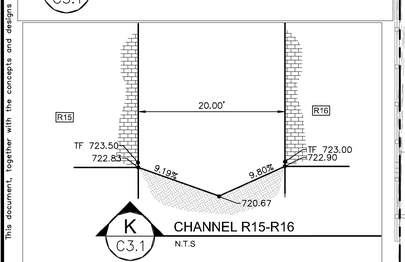

PROPOSED LOT 1 - WILL REQUIRE ITS OWN DETENTION AND RETENTION VOLUMES. NO VOLUMES HAVE BEEN PROVIDED FOR IT WITHIN THE PROPOSED DETENTION BASINS DEPICTED WITHIN THIS PLAN SET.

50' WETLAND BUFFER

WETLAND BOUNDARY

EDGE OF WATER

CONTINUATION - SEE SHEET C3.2

CONTINUATION - SEE SHEET C3.1

ME 720.26
ME 720.01
ME 719.52
ME 718.52
719.21
T/F 723.60
BUILDING R19
T/F 723.60
722.00
T/F 723.00
BUILDING R20
T/F 723.00
T/F 722.70
BUILDING R21
T/F 722.70
KELLER LAKE DRIVE
RIDGE
HP 721.47
HP 721.24
R 721.11
R 720.93
721.53
721.52
720.67
721.54
722.73
720.18
719.75
27 LF OF 12" RCP @ 0.32%
161 LF OF 18" RCP @ 0.30%
27 LF OF 15" RCP @ 0.30%
R 720.72
719.69
719.77
721.30
721.28
R 720.93
718.60
718.14
718.24
REFER TO ADA DETAIL 5 ON SHEET C3.9
27 LF OF 15" RCP @ 0.30%
R 720.82
715.96
D44
D45

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- PROPOSED STORM SEWER LINE

STORM STRUCTURE TABLE	
STRUCTURE NAME:	DETAILS:
D44	4' DIA. MH – OPEN LID RIM: 720.93 INV IN: 716.62 (N) INV IN: 716.87 (E) INV OUT: 716.12 (S)
D45	4' DIA. MH – OPEN LID RIM: 721.11 INV IN: 717.44 (E) INV OUT: 716.94 (S)

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

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NO.	REVISIONS	DATE	BY
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6	REVISED PER CCDOT COMMENTS	11/21/19	WAW
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SCALE: AS NOTED
DESIGNED BY: TRE
DRAWN BY: JDC
CHECKED BY: WAW

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GRADING AND DRAINAGE PLAN

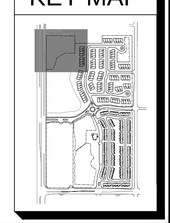
ORLAND RIDGE
LAGRANGE ROAD & 171ST STREET
ORLAND PARK, IL 60487

ORIGINAL ISSUE:
07/17/2019

KHA PROJECT NO.
168626000

SHEET NUMBER
C3.0

KEY MAP



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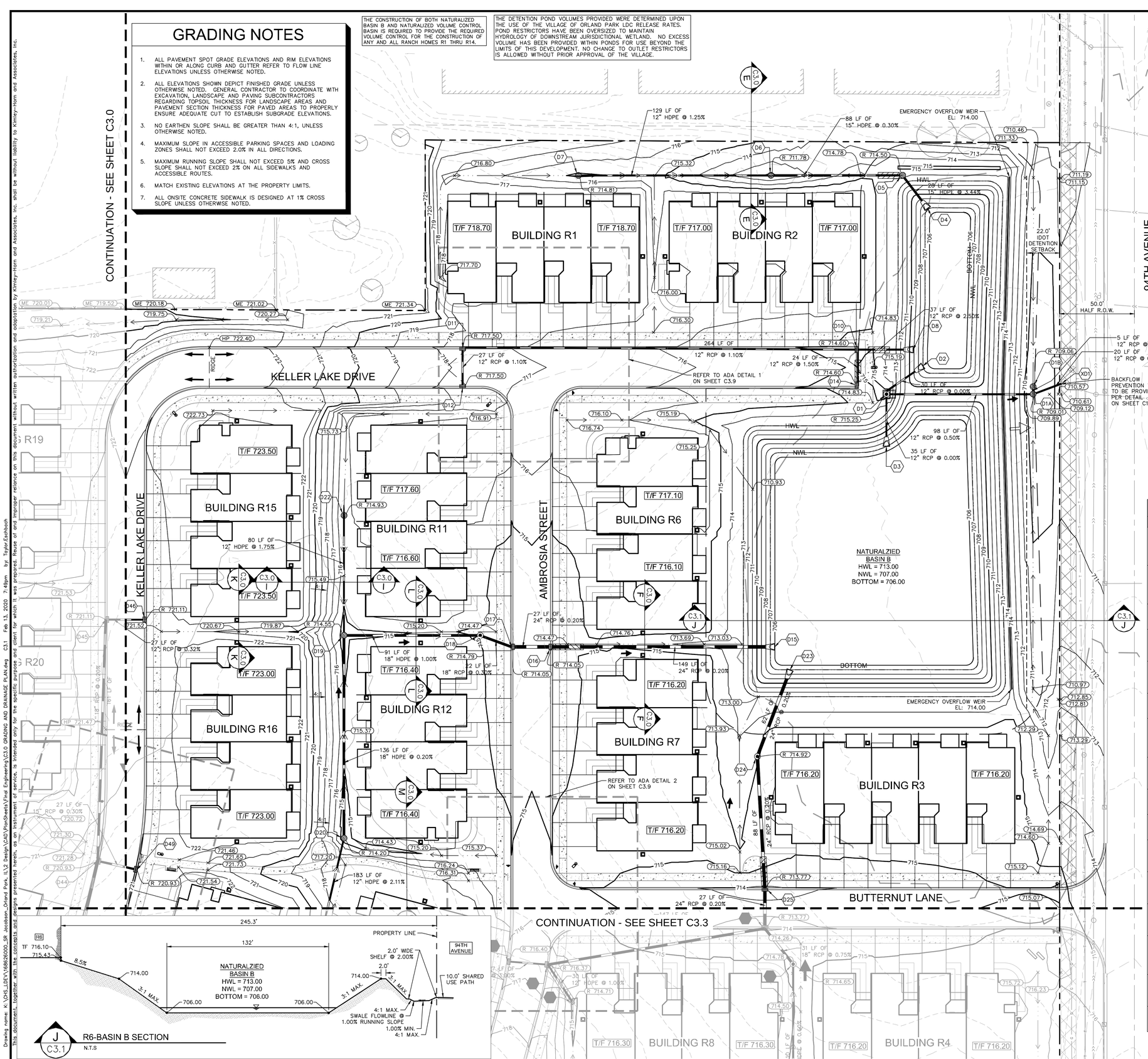
THE DETENTION POND VOLUMES PROVIDED WERE DETERMINED UPON THE USE OF THE VILLAGE OF ORLAND PARK LDC RELEASE RATES. POND RESTRICTORS HAVE BEEN OVERSIZED TO MAINTAIN HYDROLOGY OF DOWNSTREAM JURISDICTIONAL WETLAND. NO EXCESS VOLUME HAS BEEN PROVIDED WITHIN PONDS FOR USE BEYOND THE LIMITS OF THIS DEVELOPMENT. NO CHANGE TO OUTLET RESTRICTORS IS ALLOWED WITHOUT PRIOR APPROVAL OF THE VILLAGE.



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- PROPOSED STORM SEWER LINE

STORM STRUCTURE TABLE

STRUCTURE NAME:	DETAILS:
D1	OUTLET CONTROL STRUCTURE RIM: 715.25 INV IN: 707.00 (S) INV IN: 707.00 (NE) INV OUT: 707.00 (E)
D1A	4' DIA. MH – OPEN LID RIM: 709.01 INV IN: 706.51 (W) INV IN: 706.44 (N) INV OUT: 706.45 (E)
D1B	4' DIA. MH – OPEN LID RIM: 709.06 INV OUT: 706.49 (S)
D5	24" NYLOPLAST DRAIN RIM: 714.50 INV IN: 708.18 (W) INV OUT: 707.96 (SE)
D6	24" NYLOPLAST DRAIN RIM: 711.78 INV IN: 708.64 (W) INV OUT: 708.44 (E)
D7	12" NYLOPLAST DRAIN RIM: 714.81 INV OUT: 710.25 (E)
D10	4' DIA. MH – OPEN LID RIM: 714.60 INV IN: 710.08 (W) INV IN: 710.08 (S) INV OUT: 710.08 (E)
D11	4' DIA. MH – OPEN LID RIM: 717.50 INV IN: 712.98 (S) INV OUT: 712.98 (E)
D12	2' INLET RIM: 717.50 INV OUT: 713.28 (N)
D14	2' INLET RIM: 714.60 INV OUT: 710.44 (N)
D16	4' DIA. MH – OPEN LID RIM: 714.05 INV IN: 706.39 (W) INV OUT: 706.29 (E)
D17	4' DIA. MH – OPEN LID RIM: 714.05 INV IN: 706.85 (W) INV OUT: 706.45 (E)
D18	4' DIA. MH – CLOSED LID RIM: 714.79 INV IN: 708.20 (W) INV OUT: 706.91 (E)
D19	4' DIA. MH – OPEN LID RIM: 714.55 INV IN: 709.51 (N) INV IN: 709.11 (S) INV OUT: 709.11 (E)
D20	4' DIA. MH – OPEN LID RIM: 714.20 INV IN: 709.89 (S) INV OUT: 709.39 (N)
D22	24" NYLOPLAST DRAIN RIM: 714.93 INV OUT: 710.92 (S)

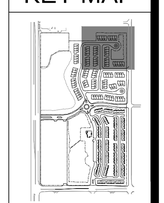
STORM STRUCTURE TABLE

STRUCTURE NAME:	DETAILS:
D24	4' DIA. MH – CLOSED LID RIM: 714.92 INV IN: 707.13 (S) INV OUT: 707.13 (N)
D25	4' DIA. MH – OPEN LID RIM: 713.77 INV IN: 707.30 (S) INV OUT: 707.30 (N)
D46	2' INLET RIM: 721.11 INV OUT: 717.53 (W)
D49	2' INLET RIM: 720.93 INV OUT: 716.95 (W)
XD1	CONNECT TO EX. MANHOLE WITH CORE AND BOOT CONNECTION RIM: 707.58 INV IN: 706.35 (W)

FES TABLE

STRUCTURE NAME:	DETAILS:
D3	12" FES INV OUT: 707.00 (N)
D4	15" FES INV IN: 707.00 (NW)
D8	12" FES INV IN: 709.15 (W)
D15	24" FES INV IN: 706.00 (W)
D23	24" FES INV IN: 707.00 (S)

KEY MAP



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SCALE: AS NOTED
DESIGNED BY: TRE
DRAWN BY: JDC
CHECKED BY: WAW

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SR JACOBSON DEVELOPMENT CORPORATION

ORLAND RIDGE
LAGRANGE ROAD & 171ST STREET
ORLAND PARK, IL 60487

GRADING AND DRAINAGE PLAN

ORIGINAL ISSUE: 07/17/2019
KHA PROJECT NO. 168626000
SHEET NUMBER
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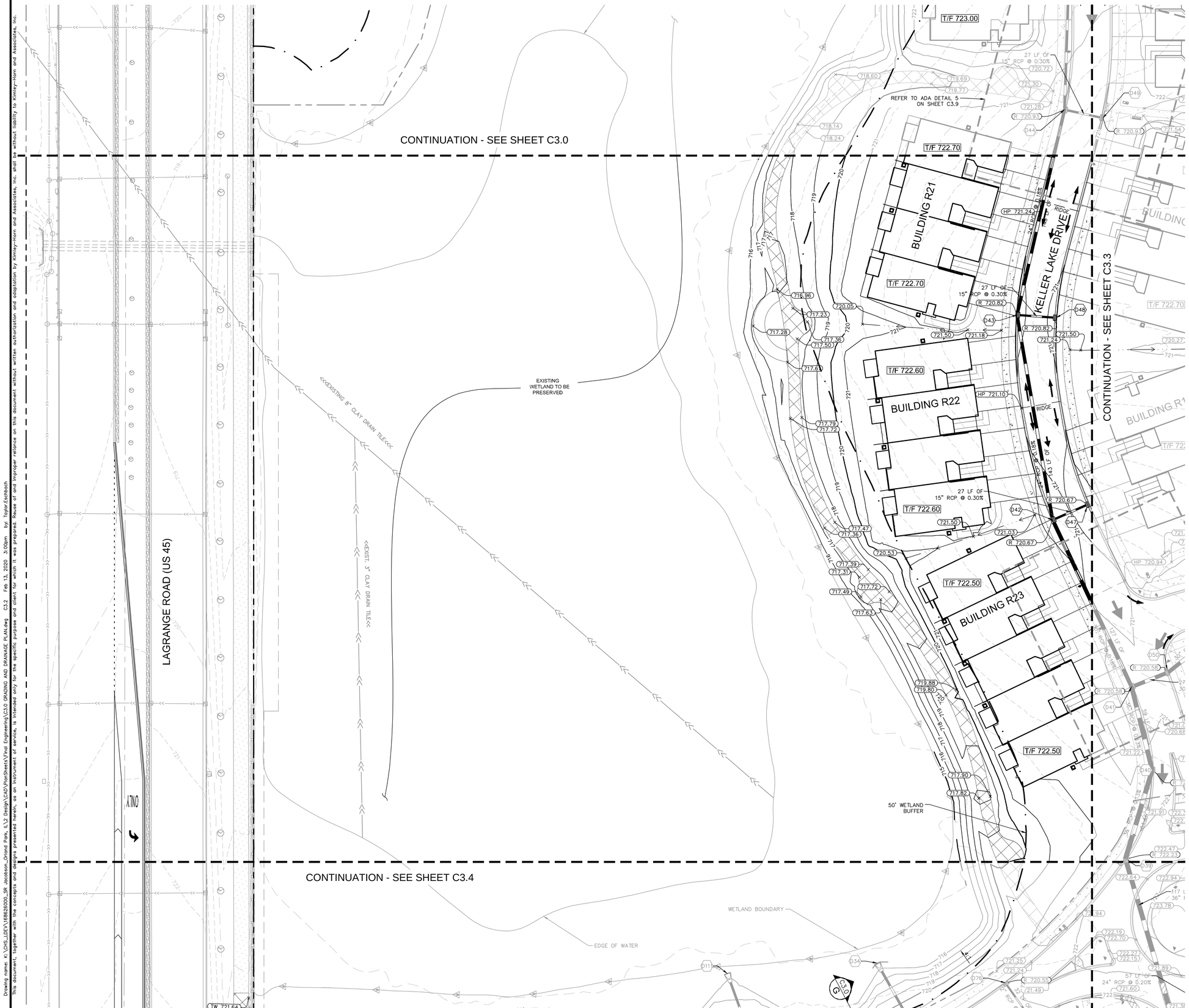

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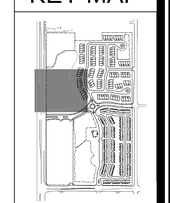
	PROPOSED STORM SEWER LINE

STORM STRUCTURE TABLE

STRUCTURE NAME:	DETAILS:
D42	4' DIA. MH – OPEN LID RIM: 720.67 INV IN: 715.60 (N) INV IN: 716.35 (NE) INV OUT: 715.10 (SE)
D43	4' DIA. MH – OPEN LID RIM: 720.82 INV IN: 716.61 (E) INV IN: 715.86 (N) INV OUT: 715.86 (S)
D47	2' INLET RIM: 720.67 INV OUT: 716.43 (SW)
D48	2' INLET RIM: 720.82 INV OUT: 716.69 (W)

KEY MAP



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GRADING AND DRAINAGE PLAN

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LAGRANGE ROAD & 171ST STREET
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ORIGINAL ISSUE:
07/17/2019

KHA PROJECT NO.
168626000

SHEET NUMBER
C3.2

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STORM STRUCTURE TABLE

STRUCTURE NAME:	DETAILS:
D21	24" NYLOPLAST DRAIN RIM: 718.05 INV OUT: 713.75 (N)
D26	4' DIA. MH – OPEN LID RIM: 713.77 INV IN: 707.56 (W) INV IN: 707.95 (SE) INV OUT: 707.36 (N)
D27	4' DIA. MH – CLOSED LID RIM: 714.65 INV IN: 708.68 (S) INV OUT: 708.18 (NW)
D28	24" NYLOPLAST DRAIN RIM: 713.50 INV OUT: 709.34 (N)
D29	4' DIA. MH – OPEN LID RIM: 716.37 INV IN: 711.48 (W) INV IN: 710.29 (SE) INV OUT: 707.85 (E)
D30	2' INLET RIM: 716.40 INV OUT: 712.29 (E)
D31	12" NYLOPLAST DRAIN RIM: 714.71 INV OUT: 710.59 (NW)
D39	4' DIA. MH – OPEN LID RIM: 722.23 INV IN: 714.21 (N) INV OUT: 714.21 (S)
D40	4' DIA. MH – OPEN LID RIM: 721.45 INV IN: 714.30 (N) INV OUT: 714.30 (S)
D41	5' DIA. MH – OPEN LID RIM: 720.58 INV IN: 714.87 (NE) INV IN: 714.87 (NW) INV OUT: 714.37 (S)
D50	4' DIA. MH – OPEN LID RIM: 720.58 INV IN: 714.91 (NE) INV OUT: 714.91 (SW)
D51	4' DIA. MH – OPEN LID RIM: 720.22 INV IN: 715.48 (E) INV IN: 715.48 (N) INV OUT: 714.98 (SW)
D52	4' DIA. MH – CLOSED LID RIM: 720.89 INV IN: 715.71 (E) INV IN: 716.21 (N) INV OUT: 715.71 (W)
D53	4' DIA. MH – OPEN LID RIM: 720.26 INV IN: 716.39 (N) INV IN: 716.39 (E) INV OUT: 715.89 (W)
D54	4' DIA. MH – OPEN LID RIM: 721.05 INV IN: 716.90 (S) INV OUT: 716.65 (W)
D55	2' INLET RIM: 721.13 INV OUT: 716.99 (N)

STORM STRUCTURE TABLE

STRUCTURE NAME:	DETAILS:
D56	4' DIA. MH – OPEN LID RIM: 720.22 INV IN: 716.52 (NE) INV OUT: 715.52 (S)
D57	12" NYLOPLAST DRAIN RIM: 719.46 INV OUT: 716.69 (SW)
D58	2' INLET RIM: 720.58 INV OUT: 716.30 (S)
D59	2' INLET RIM: 720.26 INV OUT: 716.44 (S)
D64	2' INLET RIM: 721.64 INV OUT: 717.47 (S)
D65	4' DIA. MH – OPEN LID RIM: 720.96 INV IN: 715.97 (N) INV OUT: 715.97 (S)
D66	12" NYLOPLAST DRAIN RIM: 719.71 INV IN: 716.51 (E) INV OUT: 716.01 (S)
D67	12" NYLOPLAST DRAIN RIM: 719.54 INV OUT: 716.77 (W)
D69	4' DIA. MH – OPEN LID RIM: 721.37 INV IN: 716.51 (N) INV OUT: 716.51 (S)
D70	12" NYLOPLAST DRAIN RIM: 720.00 INV IN: 716.58 (E) INV OUT: 716.58 (S)
D71	12" NYLOPLAST DRAIN RIM: 719.50 INV OUT: 716.84 (W)

THE DETENTION POND VOLUMES PROVIDED WERE DETERMINED UPON THE USE OF THE VILLAGE OF ORLAND PARK LDC RELEASE RATES. POND RESTRICTORS HAVE BEEN OVERSIZED TO MAINTAIN HYDROLOGY OF DOWNSTREAM JURISDICTIONAL WETLAND. NO EXCESS VOLUME HAS BEEN PROVIDED WITHIN PONDS FOR USE BEYOND THE LIMITS OF THIS DEVELOPMENT. NO CHANGE TO OUTLET RESTRICTORS IS ALLOWED WITHOUT PRIOR APPROVAL OF THE VILLAGE.

KEY MAP

NO.	REVISIONS	DATE	BY
1	REVISED PER VILLAGE/CCDOT COMMENTS	02/14/20	WAW
2	ADDENDUM 1 – LANDSCAPE	02/06/20	SKA
3	REVISED PER IDOT COMMENTS	02/05/20	WAW
4	LANDSCAPE REV PER VILLAGE COMMENTS	01/09/20	WAW
5	REVISED PER VILLAGE/MWRD/CCDOT COM.	12/20/19	WAW
6	REVISED PER CCDOT COMMENTS	11/21/19	WAW
7	REVISED PER VILLAGE/MWRD COMMENTS	10/15/19	WAW

SCALE: AS NOTED
DESIGNED BY: TRE
DRAWN BY: JDC
CHECKED BY: WAW

Kimley»Horn
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500 N. MAIN STREET, SUITE 500,
LISLE, IL 60532
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WWW.KIMLEY-HORN.COM

S.R. JACOBSON DEVELOPMENT CORPORATION

ORLAND RIDGE
LAGRANGE ROAD & 171ST STREET
ORLAND PARK, IL 60487

GRADING AND DRAINAGE PLAN

ORIGINAL ISSUE: 07/17/2019
KHA PROJECT NO. 168626000
SHEET NUMBER
C3.3

CONTINUATION - SEE SHEET C3.2

CONTINUATION - SEE SHEET C3.5

CONTINUATION - SEE SHEET C3.6

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

Call Before You Dig
JULIE
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WETLAND BOUNDARY
EDGE OF WATER
50' WETLAND BUFFER
50' WETLAND BUFFER

169TH PLACE

LAGRANGE ROAD (US 45)

FUTURE PHASE

ONLY
ONLY
ONLY

90.0'
HALF R.O.W.

TW 721.64
TW 722.10

163 LF OF
18" RCP @ 0.00%

40 LF OF
12" RCP @ 0.32%

133 LF OF
18" RCP @ 0.07%

317 LF OF
18" HDPE @ 0.00%

46 LF OF
12" HDPE @ 5.44%

20 LF OF
12" HDPE @ 1.00%

61 LF OF
HDPE @ 1.00%

48 LF OF
36" RCP @ 0.11%

57 LF OF
24" RCP @ 0.20%

117 LF OF
36" RCP

BASIN A2 EMERGENCY
OVERFLOW WEIR
EL: 721.31

BASIN A1 EMERGENCY
OVERFLOW WEIR
EL: 721.00

NATURALZIED
DETENTION BASIN A2
HWL = 720.00
NWL = 715.00
BOTTOM = 714.00

REFER TO ADA DETAIL ON SHEET C3.5

POOL

BOTTOM
NW
HWL
HWL

GRADING NOTES

1. ALL PAVEMENT SPOT GRADE ELEVATIONS AND RIM ELEVATIONS WITHIN OR ALONG CURB AND GUTTER REFER TO FLOW LINE ELEVATIONS UNLESS OTHERWISE NOTED.
2. ALL ELEVATIONS SHOWN DEPICT FINISHED GRADE UNLESS OTHERWISE NOTED. GENERAL CONTRACTOR TO COORDINATE WITH EXCAVATION, LANDSCAPE AND PAVING SUBCONTRACTORS REGARDING TOPSOIL THICKNESS FOR LANDSCAPE AREAS AND PAVEMENT SECTION THICKNESS FOR PAVED AREAS TO PROPERLY ENSURE ADEQUATE CUT TO ESTABLISH SUBGRADE ELEVATIONS.
3. NO EARTHEN SLOPE SHALL BE GREATER THAN 4:1, UNLESS OTHERWISE NOTED.
4. MAXIMUM SLOPE IN ACCESSIBLE PARKING SPACES AND LOADING ZONES SHALL NOT EXCEED 2.0% IN ALL DIRECTIONS.
5. MAXIMUM RUNNING SLOPE SHALL NOT EXCEED 5% AND CROSS SLOPE SHALL NOT EXCEED 2% ON ALL SIDEWALKS AND ACCESSIBLE ROUTES.
6. MATCH EXISTING ELEVATIONS AT THE PROPERTY LIMITS.
7. ALL ONSITE CONCRETE SIDEWALK IS DESIGNED AT 1% CROSS SLOPE UNLESS OTHERWISE NOTED.

GRADING LEGEND

	FL = FLOW LINE
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	ME = MATCH ELEVATION
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	BS = BOTTOM OF STAIRS
XXX	PROPOSED CONTOUR
XXX	EXISTING CONTOUR
RIDGE	RIDGE LINE
X.XX%	SLOPE AND FLOW DIRECTION
	100-YEAR OVERLAND OVERFLOW ROUTE
	DETENTION BASIN 100-YEAR EMERGENCY OVERLAND OVERFLOW ROUTE
	PROPOSED SWALE
	PROPOSED RETAINING WALL
	REVERSED PITCH CURB AND GUTTER
AR	ACCESSIBLE ROUTE
	RIP RAP (SEE DETAILS)
	PROPOSED OPEN LID STORM STRUCTURE (PAVEMENT USE NEENAH R-2540) (GRASS USE NEENAH R-4340-B BEEHIVE)
	PROPOSED CLOSED LID STORM STRUCTURE (PAVEMENT USE NEENAH R-1772) (GRASS USE NEENAH R-1786)
	PROPOSED COMBINATION CURB INLET (B6.12 C&G USE NEENAH R-3281-A) (FOR MOUNTABLE CURB USE NEENAH R-2540 REFER TO DETAILS)
	PROPOSED STORM SEWER LINE

STORM STRUCTURE TABLE

STRUCTURE NAME:	DETAILS:
D75	4' DIA. MH – OPEN LID RIM: 720.58 INV IN: 715.83 (NW) INV OUT: 715.83 (SE)
D76	2' INLET RIM: 720.55 INV OUT: 716.46 (SE)
D78	4' DIA. MH – OPEN LID RIM: 720.47 INV IN: 716.12 (NW) INV OUT: 715.63 (SE)
D79	2' INLET RIM: 720.33 INV OUT: 716.25 (SE)
D112	4' DIA. MH – CLOSED LID RIM: 721.00 INV IN: 715.00 (S) INV OUT: 715.00 (N)
D113	4' DIA. MH – CLOSED LID RIM: 724.52 INV IN: 715.00 (S) INV OUT: 715.00 (N)

FES TABLE

STRUCTURE NAME:	DETAILS:
D34	18" FES INV IN: 714.90 (SE)
D36	18" FES INV OUT: 715.00 (NW)
D74	12" FES INV IN: 715.00 (NW)
D77	18" FES INV IN: 715.21 (NW)
D111	18" FES INV IN: 715.00 (S)
D164	12" FES INV IN: 716.00 (E)

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6	REVISED PER CCDOT COMMENTS	11/21/19	MAW
7	REVISED PER VILLAGE/MWRD COMMENTS	10/15/19	MAW

SCALE: AS NOTED
DESIGNED BY: TRE
DRAWN BY: JDC
CHECKED BY: MAW

Kimley»Horn
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WWW.KIMLEY-HORN.COM

S.R. JACOBSON DEVELOPMENT CORPORATION

GRADING AND DRAINAGE PLAN

ORLAND RIDGE
LAGRANGE ROAD & 171ST STREET
ORLAND PARK, IL 60487

ORIGINAL ISSUE: 07/17/2019
KHA PROJECT NO. 168626000
SHEET NUMBER
C3.4

THE DETENTION POND VOLUMES PROVIDED WERE DETERMINED UPON THE USE OF THE VILLAGE OF ORLAND PARK LDC RELEASE RATES. POND RESTRICTORS HAVE BEEN OVERSIZED TO MAINTAIN HYDROLOGY OF DOWNSTREAM JURISDICTIONAL WETLAND. NO EXCESS VOLUME HAS BEEN PROVIDED WITHIN PONDS FOR USE BEYOND THE LIMITS OF THIS DEVELOPMENT. NO CHANGE TO OUTLET RESTRICTORS IS ALLOWED WITHOUT PRIOR APPROVAL OF THE VILLAGE.

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

Call Before You Dig
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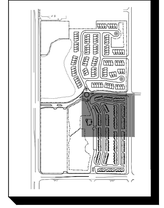
1-800-892-0123

KEY MAP



GRADING NOTES

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GRADING LEGEND

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- ME = MATCH ELEVATION
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- R = RIM ELEVATION
- FG = FINISHED GRADE
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- BS = BOTTOM OF STAIRS
- XXX — PROPOSED CONTOUR
- XXX — EXISTING CONTOUR
- RIDGE — RIDGE LINE
- XXX — SLOPE AND FLOW DIRECTION
- 100-YEAR OVERLAND OVERFLOW ROUTE
- DETENTION BASIN 100-YEAR EMERGENCY OVERLAND OVERFLOW ROUTE
- PROPOSED SWALE
- PROPOSED RETAINING WALL
- REVERSED PITCH CURB AND GUTTER
- AR — ACCESSIBLE ROUTE
- RIP RAP (SEE DETAILS)
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- PROPOSED COMBINATION CURB INLET (B6.12 C&G USE NEENAH R-3281-A) (FOR MOUNTABLE CURB USE NEENAH R-2540 REFER TO DETAILS)
- PROPOSED STORM SEWER LINE

STORM STRUCTURE TABLE

STRUCTURE NAME:	DETAILS:
D38	5' DIA. MH – OPEN LID RIM: 721.10 INV IN: 715.06 (NE) INV IN: 714.06 (N) INV OUT: 714.06 (SW)
D60	4' DIA. MH – OPEN LID RIM: 721.10 INV IN: 715.18 (NE) INV OUT: 715.18 (SW)
D61	4' DIA. MH – OPEN LID RIM: 720.91 INV IN: 715.40 (E) INV IN: 715.90 (N) INV IN: 716.15 (S) INV OUT: 715.40 (SW)
D62	4' DIA. MH – OPEN LID RIM: 721.37 INV IN: 716.42 (E) INV IN: 716.42 (N) INV IN: 716.42 (S) INV OUT: 715.67 (W)
D63	4' DIA. MH – OPEN LID RIM: 721.64 INV IN: 717.34 (N) INV IN: 717.34 (SE) INV OUT: 717.09 (W)
D68	2' INLET RIM: 722.34 INV OUT: 717.02 (N)
D72	2' INLET RIM: 721.71 INV OUT: 717.01 (N)
D73	2' INLET RIM: 721.84 INV OUT: 717.81 (NW)
D81	4' DIA. MH – OPEN LID RIM: 722.07 INV IN: 715.05 (NE) INV OUT: 715.05 (SW)
D82	4' DIA. MH – CLOSED LID RIM: 723.42 INV IN: 716.20 (E) INV IN: 716.20 (S) INV OUT: 715.20 (SW)
D83	4' DIA. MH – OPEN LID RIM: 722.90 INV IN: 716.30 (E) INV IN: 717.30 (N) INV OUT: 716.30 (W)
D84	4' DIA. MH – CLOSED LID RIM: 723.39 INV IN: 716.41 (E) INV IN: 717.41 (S) INV OUT: 716.41 (W)
D85	4' DIA. MH – OPEN LID RIM: 723.29 INV IN: 717.16 (SE) INV IN: 717.41 (E) INV IN: 717.66 (N) INV OUT: 716.66 (W)
D86	4' DIA. MH – OPEN LID RIM: 723.37 INV IN: 717.20 (S) INV IN: 717.70 (E) INV OUT: 717.20 (NW)
D87	4' DIA. MH – OPEN LID RIM: 722.72 INV IN: 717.79 (S) INV IN: 718.04 (E) INV OUT: 717.54 (N)

STORM STRUCTURE TABLE

STRUCTURE NAME:	DETAILS:
D88	4' DIA. MH – OPEN LID RIM: 722.14 INV IN: 718.56 (E) INV OUT: 718.31 (N)
D89	4' DIA. MH – OPEN LID RIM: 722.14 INV IN: 718.64 (E) INV OUT: 718.64 (W)
D90	2' INLET RIM: 721.13 INV OUT: 718.90 (W)
D91	2' INLET RIM: 722.90 INV OUT: 718.14 (S)
D92	2' INLET RIM: 723.29 INV OUT: 718.50 (S)
D93	4' DIA. MH – OPEN LID RIM: 723.59 INV IN: 717.78 (S) INV OUT: 717.78 (W)
D94	12" NYLOPLAST DRAIN RIM: 723.92 INV IN: 718.15 (S) INV OUT: 717.90 (N)
D95	12" NYLOPLAST DRAIN RIM: 723.25 INV IN: 718.35 (S) INV OUT: 718.35 (N)
D96	12" NYLOPLAST DRAIN RIM: 722.22 INV IN: 718.61 (S) INV OUT: 718.61 (N)
D97	12" NYLOPLAST DRAIN RIM: 721.79 INV OUT: 718.98 (N)
D98	2' INLET RIM: 723.37 INV OUT: 718.54 (W)
D99	2' INLET RIM: 722.72 INV OUT: 718.64 (W)
D100	12" NYLOPLAST DRAIN RIM: 722.50 INV OUT: 718.35 (N)
D101	4' DIA. MH – OPEN LID RIM: 721.80 INV IN: 716.49 (S) INV IN: 717.00 (E) INV IN: 717.50 (W) INV OUT: 716.49 (N)
D102	4' DIA. MH – OPEN LID RIM: 721.24 INV IN: 717.30 (E) INV IN: 717.30 (W) INV OUT: 716.80 (N)

STORM STRUCTURE TABLE

STRUCTURE NAME:	DETAILS:
D103	4' DIA. MH – OPEN LID RIM: 721.48 INV IN: 717.74 (W) INV OUT: 717.49 (E)
D104	2' INLET RIM: 721.48 INV OUT: 717.82 (E)
D105	12" NYLOPLAST DRAIN RIM: 722.05 INV OUT: 718.44 (E)
D106	4' DIA. MH – OPEN LID RIM: 721.80 INV IN: 717.62 (E) INV OUT: 717.12 (W)
D107	4' DIA. MH – OPEN LID RIM: 721.44 INV IN: 718.05 (S) INV OUT: 718.05 (W)
D108	12" NYLOPLAST DRAIN RIM: 721.45 INV IN: 718.47 (S) INV OUT: 718.47 (N)
D109	12" NYLOPLAST DRAIN RIM: 721.45 INV OUT: 718.83 (N)
D110	2' INLET RIM: 721.24 INV OUT: 717.35 (W)
D147	12" NYLOPLAST DRAIN RIM: 720.79 INV OUT: 718.87 (S)
D165	12" NYLOPLAST DRAIN RIM: 722.77 INV IN: 718.51 (NE) INV OUT: 718.50 (W)
D166	12" NYLOPLAST DRAIN RIM: 722.52 INV IN: 719.12 (E) INV OUT: 719.12 (SW)
D167	12" NYLOPLAST DRAIN RIM: 722.70 INV IN: 719.32 (E) INV OUT: 719.32 (W)
D168	12" NYLOPLAST DRAIN RIM: 722.85 INV OUT: 719.80 (W)

FES TABLE

STRUCTURE NAME:	DETAILS:
D37	36" FES INV IN: 714.00 (NE)
D80	36" FES INV IN: 715.00 (NE)

NO.	REVISIONS	DATE	BY
1	REVISED PER VILLAGE/CCDOT COMMENTS	02/14/20	MAW
2	ADDENDUM 1 – LANDSCAPE	02/06/20	SKA
3	REVISED PER IDOT COMMENTS	02/05/20	MAW
4	LANDSCAPE REV PER VILLAGE COMMENTS	01/09/20	MAW
5	REVISED PER VILLAGE/MWRD/CCDOT COM.	12/20/19	MAW
6	REVISED PER CCDOT COMMENTS	11/21/19	MAW
7	REVISED PER VILLAGE/MWRD COMMENTS	10/15/19	MAW

SCALE: AS NOTED
DESIGNED BY: TRE
DRAWN BY: JDC
CHECKED BY: MAW

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LAGRANGE ROAD & 171ST STREET
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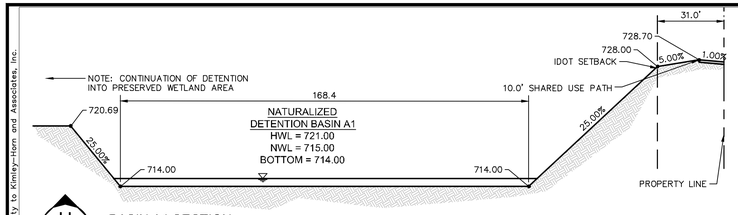
GRADING AND DRAINAGE PLAN

ORIGINAL ISSUE: 07/17/2019
KHA PROJECT NO. 168626000
SHEET NUMBER
C3.5



H C3.6 BASIN A1 SECTION

N.T.S

CONTINUATION - SEE SHEET C3.4

CONTINUATION - SEE SHEET C3.7

LAGRANGE ROAD (US 45)

FUTURE PHASE

171ST STREET

MAINTAINED WETLAND AREA

BASIN A1 EMERGENCY OVERFLOW WEIR EL: 721.00

315 LF OF 18" HDPE @ 0.00%

50 LF OF 18" HDPE @ 0.00%

R 724.52

R 723.57

NATURALIZED DETENTION BASIN A1
HWL = 721.00
NWL = 715.00
BOTTOM = 714.00

IDOT SETBACK

DETENTION SLOPE

REFER TO ADA ON SI

721.53

721.39

721.25

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

Call Before You Dig
JULIE
1-800-892-0123

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XXX	EXISTING CONTOUR
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	DETENTION BASIN 100-YEAR EMERGENCY OVERLAND OVERFLOW ROUTE
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	PROPOSED RETAINING WALL
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STORM STRUCTURE TABLE

STRUCTURE NAME:	DETAILS:
D114	4' DIA. MH - CLOSED LID RIM: 723.57 INV IN: 715.00 (SE) INV OUT: 715.00 (N)

FES TABLE

STRUCTURE NAME:	DETAILS:
D115	18" FES INV OUT: 715.00 (NW)

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KEY MAP

NO.	REVISIONS	DATE	BY
1	REVISED PER VILLAGE/CCDOT COMMENTS	02/14/20	MAW
2	ADDENDUM 1 - LANDSCAPE	02/06/20	SKA
3	REVISED PER IDOT COMMENTS	02/05/20	MAW
4	LANDSCAPE REV PER VILLAGE COMMENTS	01/09/20	MAW
5	REVISED PER VILLAGE/MWRD/CCDOT COM.	12/20/19	MAW
6	REVISED PER CCDOT COMMENTS	11/21/19	MAW
7	REVISED PER VILLAGE/MWRD COMMENTS	10/15/19	MAW

SCALE: AS NOTED
DESIGNED BY: TRE
DRAWN BY: JDC
CHECKED BY: MAW

Kimley»Horn
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LISLE, IL 60532
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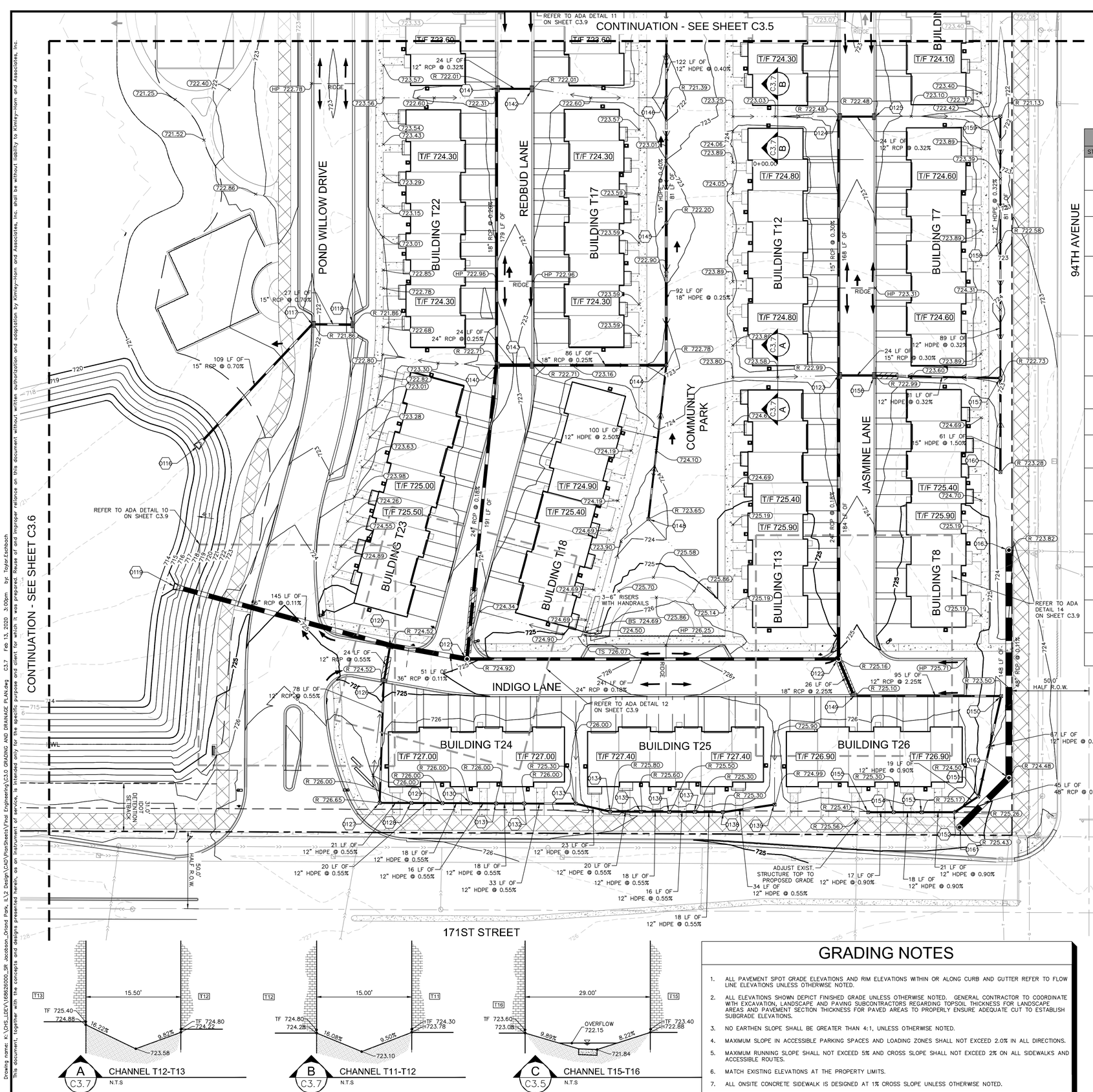
S.R. JACOBSON DEVELOPMENT CORPORATION

GRADING AND DRAINAGE PLAN

ORLAND RIDGE
LAGRANGE ROAD & 171ST STREET
ORLAND PARK, IL 60487

ORIGINAL ISSUE: 07/17/2019
KHA PROJECT NO. 168626000
SHEET NUMBER C3.6



GRADING NOTES

1. ALL PAVEMENT SPOT GRADE ELEVATIONS AND RIM ELEVATIONS WITHIN OR ALONG CURB AND GUTTER REFER TO FLOW LINE ELEVATIONS UNLESS OTHERWISE NOTED.
2. ALL ELEVATIONS SHOWN DEPICT FINISHED GRADE UNLESS OTHERWISE NOTED. GENERAL CONTRACTOR TO COORDINATE WITH EXCAVATION, LANDSCAPE AND PAVING SUBCONTRACTORS REGARDING TOPSOIL THICKNESS FOR LANDSCAPE AREAS AND PAVEMENT SECTION THICKNESS FOR PAVED AREAS TO PROPERLY ENSURE ADEQUATE CUT TO ESTABLISH SUBGRADE ELEVATIONS.
3. NO EARTHEN SLOPE SHALL BE GREATER THAN 4:1, UNLESS OTHERWISE NOTED.
4. MAXIMUM SLOPE IN ACCESSIBLE PARKING SPACES AND LOADING ZONES SHALL NOT EXCEED 2.0% IN ALL DIRECTIONS.
5. MAXIMUM RUNNING SLOPE SHALL NOT EXCEED 5% AND CROSS SLOPE SHALL NOT EXCEED 2% ON ALL SIDEWALKS AND ACCESSIBLE ROUTES.
6. MATCH EXISTING ELEVATIONS AT THE PROPERTY LIMITS.
7. ALL ONSITE CONCRETE SIDEWALK IS DESIGNED AT 1% CROSS SLOPE UNLESS OTHERWISE NOTED.

GRADING LEGEND

- FL = FLOW LINE
- TC = TOP OF CURB
- ME = MATCH ELEVATION
- TF = TOP OF FOUNDATION
- R = RIM ELEVATION
- FG = FINISHED GRADE
- TS = TOP OF STAIRS
- BS = BOTTOM OF STAIRS
- XXX — PROPOSED CONTOUR
- XXX — EXISTING CONTOUR
- RIDGE — RIDGE LINE
- X.XX% — SLOPE AND FLOW DIRECTION
- 100-YEAR OVERLAND OVERFLOW ROUTE
- DETENTION BASIN 100-YEAR EMERGENCY OVERLAND OVERFLOW ROUTE
- PROPOSED SWALE
- PROPOSED RETAINING WALL
- REVERSED PITCH CURB AND GUTTER
- AR — ACCESSIBLE ROUTE
- RIP RAP (SEE DETAILS)
- PROPOSED OPEN LID STORM STRUCTURE (PAVEMENT USE NEENAH R-2540) (GRASS USE NEENAH R-4340-B BEEHIVE)
- PROPOSED CLOSED LID STORM STRUCTURE (PAVEMENT USE NEENAH R-1772) (GRASS USE NEENAH R-1786)
- PROPOSED COMBINATION CURB INLET (B6.12 C&G USE NEENAH R-3281-A) (FOR MOUNTABLE CURB USE NEENAH R-2540 REFER TO DETAILS)
- PROPOSED STORM SEWER LINE

STORM STRUCTURE TABLE	
STRUCTURE NAME:	DETAILS:
D117	4' DIA. MH – OPEN LID RIM: 721.86 INV IN: 717.02 (E) INV OUT: 717.02 (SW)
D118	2' INLET RIM: 721.86 INV OUT: 717.21 (W)
D120	5' DIA. MH – OPEN LID RIM: 724.52 INV IN: 720.02 (S) INV IN: 715.15 (E) INV OUT: 715.15 (W)
D121	5' DIA. MH – CLOSED LID RIM: 724.92 INV IN: 716.21 (N) INV IN: 716.21 (E) INV OUT: 715.21 (W)
D122	4' DIA. MH – CLOSED LID RIM: 725.16 INV IN: 716.64 (N) INV IN: 717.14 (SE) INV OUT: 716.64 (W)
D123	4' DIA. MH – OPEN LID RIM: 722.99 INV IN: 717.72 (E) INV IN: 717.72 (N) INV OUT: 716.97 (S)
D124	4' DIA. MH – OPEN LID RIM: 722.48 INV IN: 718.48 (E) INV OUT: 718.23 (S)
D125	2' INLET RIM: 722.48 INV OUT: 718.55 (W)
D126	4' DIA. MH – OPEN LID RIM: 724.52 INV IN: 720.15 (S) INV OUT: 720.15 (N)
D127	12" NYLOPLAST DRAIN RIM: 726.65 INV IN: 720.58 (E) INV OUT: 720.58 (N)
D128	6" NYLOPLAST DRAIN RIM: 726.00 INV IN: 720.70 (E) INV OUT: 720.70 (W)
D129	6" NYLOPLAST DRAIN RIM: 726.00 INV IN: 720.81 (E) INV OUT: 720.81 (W)
D130	6" NYLOPLAST DRAIN RIM: 726.00 INV IN: 720.91 (E) INV OUT: 720.91 (W)
D131	6" NYLOPLAST DRAIN RIM: 726.00 INV IN: 721.00 (E) INV OUT: 721.00 (W)
D132	6" NYLOPLAST DRAIN RIM: 726.00 INV IN: 721.10 (E) INV OUT: 721.10 (W)

STORM STRUCTURE TABLE	
STRUCTURE NAME:	DETAILS:
D133	6" NYLOPLAST DRAIN RIM: 725.30 INV IN: 721.28 (E) INV OUT: 721.28 (W)
D134	6" NYLOPLAST DRAIN RIM: 725.80 INV IN: 721.41 (E) INV OUT: 721.41 (W)
D135	6" NYLOPLAST DRAIN RIM: 725.60 INV IN: 721.52 (E) INV OUT: 721.52 (W)
D136	6" NYLOPLAST DRAIN RIM: 725.50 INV IN: 721.62 (E) INV OUT: 721.62 (W)
D137	6" NYLOPLAST DRAIN RIM: 725.30 INV IN: 721.71 (E) INV OUT: 721.71 (W)
D138	6" NYLOPLAST DRAIN RIM: 725.30 INV IN: 721.81 (E) INV OUT: 721.81 (W)
D139	6" NYLOPLAST DRAIN RIM: 724.99 INV OUT: 722.00 (W)
D140	4' DIA. MH – OPEN LID RIM: 722.71 INV IN: 717.05 (N) INV IN: 716.55 (E) INV OUT: 716.55 (S)
D141	4' DIA. MH – OPEN LID RIM: 722.01 INV IN: 717.91 (E) INV OUT: 717.41 (S)
D142	2' INLET RIM: 722.01 INV OUT: 717.99 (W)
D143	4' DIA. MH – OPEN LID RIM: 722.71 INV IN: 717.11 (E) INV OUT: 716.61 (W)
D144	12" NYLOPLAST DRAIN RIM: 722.78 INV IN: 717.33 (N) INV IN: 717.83 (S) INV OUT: 717.33 (W)
D145	12" NYLOPLAST DRAIN RIM: 722.20 INV IN: 717.81 (N) INV OUT: 717.56 (S)
D146	12" NYLOPLAST DRAIN RIM: 721.39 INV IN: 718.38 (N) INV OUT: 718.13 (S)
D148	12" NYLOPLAST DRAIN RIM: 723.65 INV OUT: 720.34 (N)

STORM STRUCTURE TABLE	
STRUCTURE NAME:	DETAILS:
D149	4' DIA. MH – OPEN LID RIM: 725.10 INV IN: 718.23 (E) INV OUT: 717.73 (NW)
D150	12" NYLOPLAST DRAIN RIM: 723.50 INV IN: 720.38 (S) INV OUT: 720.38 (W)
D151	6" NYLOPLAST DRAIN RIM: 724.50 INV IN: 720.98 (SW) INV OUT: 720.98 (N)
D152	6" NYLOPLAST DRAIN RIM: 725.26 INV IN: 721.14 (W) INV OUT: 721.14 (NE)
D153	6" NYLOPLAST DRAIN RIM: 725.17 INV IN: 721.33 (W) INV OUT: 721.33 (E)
D154	6" NYLOPLAST DRAIN RIM: 725.30 INV IN: 721.50 (W) INV OUT: 721.50 (E)
D155	6" NYLOPLAST DRAIN RIM: 725.41 INV OUT: 721.65 (E)
D156	4' DIA. MH – OPEN LID RIM: 722.99 INV IN: 718.05 (E) INV OUT: 717.80 (W)
D157	12" NYLOPLAST DRAIN RIM: 722.73 INV IN: 718.30 (N) INV IN: 718.05 (S) INV OUT: 718.30 (W)
D158	12" NYLOPLAST DRAIN RIM: 722.58 INV IN: 718.59 (N) INV OUT: 718.59 (S)
D159	12" NYLOPLAST DRAIN RIM: 721.13 INV OUT: 718.85 (S)
D160	12" NYLOPLAST DRAIN RIM: 723.28 INV OUT: 718.97 (N)
D161	6' DIA. MH – CLOSED LID GROUT IN EX. PIPE RIM: 725.43 INV OUT: 714.33 (NE)
D162	6' DIA. MH – CLOSED LID RIM: 724.48 INV IN: 714.28 (SW) INV OUT: 714.18 (N)
D163	6' DIA. DOGHOUSE MH – CLOSED LID RIM: 723.82 INV IN: 714.01 (S)

FES TABLE	
STRUCTURE NAME:	DETAILS:
D116	15" FES INV IN: 716.25 (NE)
D119	36" FES INV IN: 715.00 (E)

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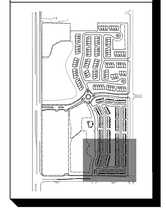
KEY MAP



NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

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KHA PROJECT NO. 168626000
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C3.7

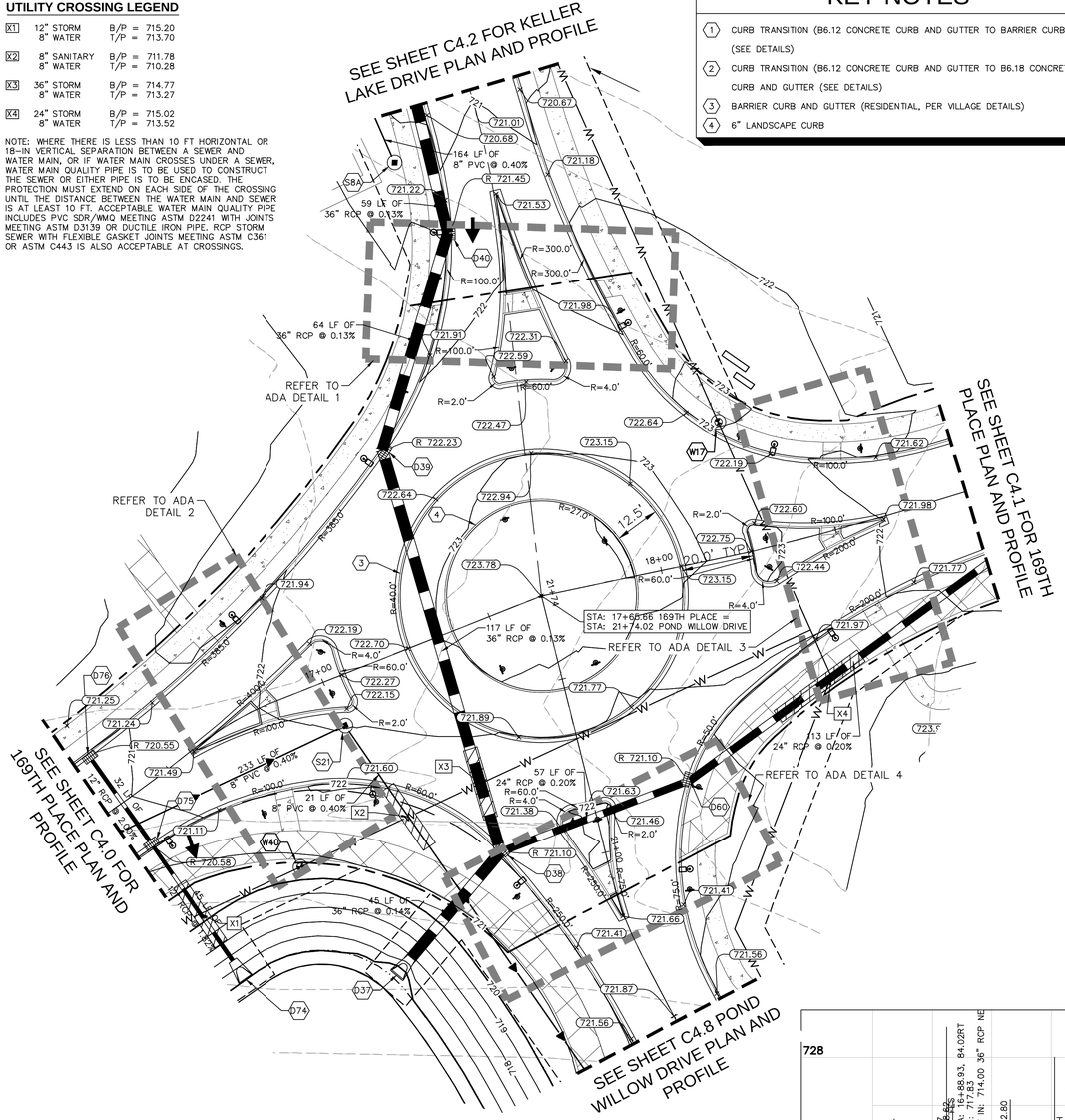
UTILITY CROSSING LEGEND

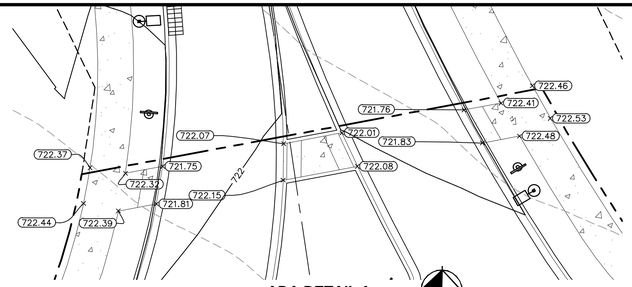
X1	12" STORM	B/P = 715.20
	8" WATER	T/P = 713.70
X2	8" SANITARY	B/P = 711.78
	8" WATER	T/P = 710.28
X3	36" STORM	B/P = 714.77
	8" WATER	T/P = 713.27
X4	24" STORM	B/P = 715.02
	8" WATER	T/P = 713.52

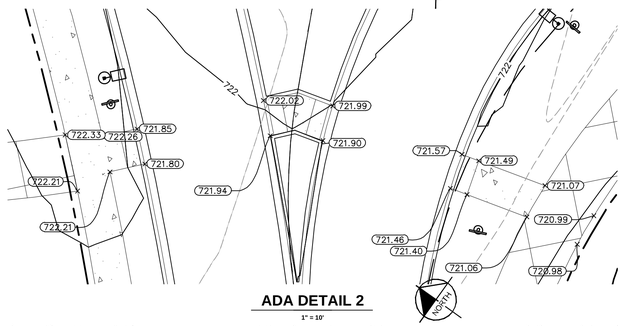
NOTE: WHERE THERE IS LESS THAN 10 FT HORIZONTAL OR 18–IN VERTICAL SEPARATION BETWEEN A SEWER AND WATER MAIN, OR IF WATER MAIN CROSSES UNDER A SEWER, WATER MAIN QUALITY PIPE IS TO BE USED TO CONSTRUCT THE SEWER OR EITHER PIPE IS TO BE ENCASED. THE PROTECTION MUST EXTEND ON EACH SIDE OF THE CROSSING UNTIL THE DISTANCE BETWEEN THE WATER MAIN AND SEWER IS AT LEAST 10 FT. ACCEPTABLE WATER MAIN QUALITY PIPE INCLUDES PVC SDR/WMQ MEETING ASTM D2241 WITH JOINTS MEETING ASTM D3139 OR DUCTILE IRON PIPE. RCP STORM SEWER WITH FLEXIBLE GASKET JOINTS MEETING ASTM C361 OR ASTM C443 IS ALSO ACCEPTABLE AT CROSSINGS.

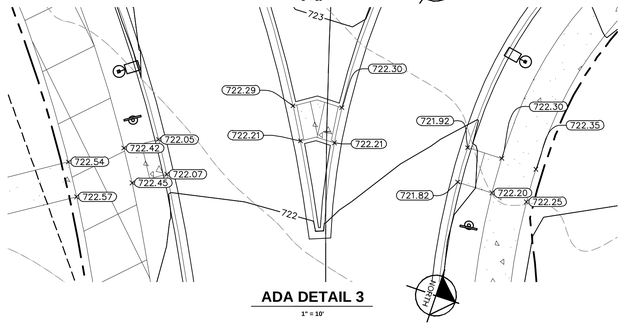
KEY NOTES

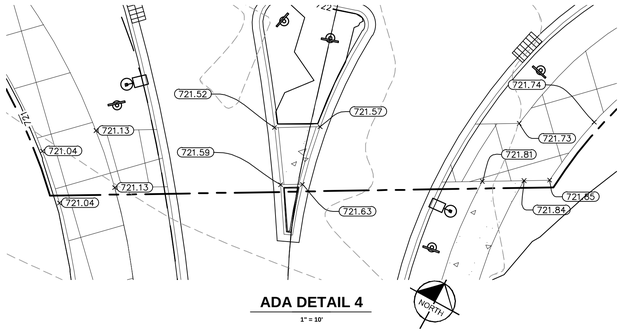
1. CURB TRANSITION (B6.12 CONCRETE CURB AND GUTTER TO BARRIER CURB (SEE DETAILS)
2. CURB TRANSITION (B6.12 CONCRETE CURB AND GUTTER TO B6.18 CONCRETE CURB AND GUTTER (SEE DETAILS)
3. BARRIER CURB AND GUTTER (RESIDENTIAL, PER VILLAGE DETAILS)
4. 6" LANDSCAPE CURB





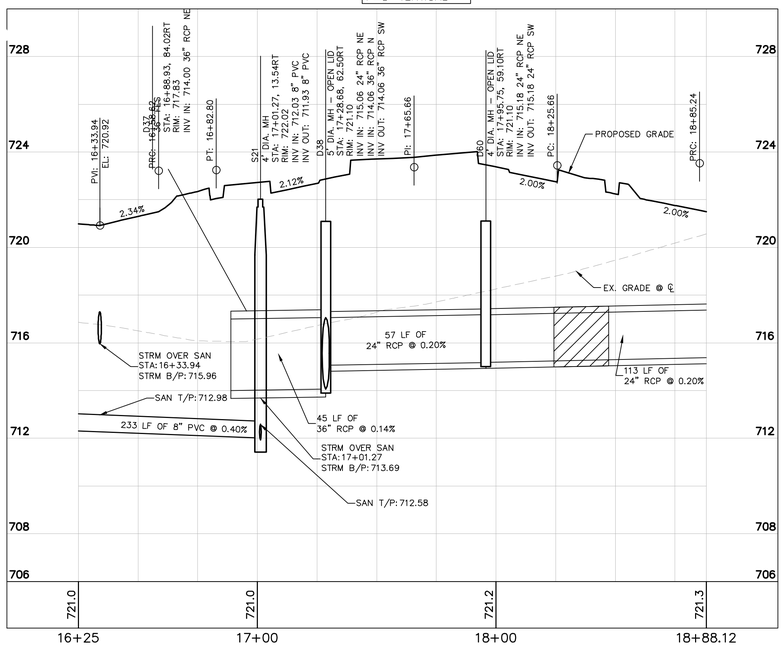


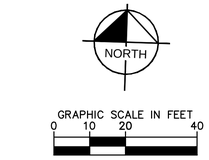




ROUNDABOUT PROFILE

1"=30' HORIZONTAL
1"=3' VERTICAL





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- PROPOSED COMBINATION CURB INLET (B6.12 C&G USE NEENAH R–3281–A) (FOR MOUNTABLE CURB USE NEENAH R–2540 REFER TO DETAILS)
- PROPOSED STORM SEWER LINE

LEGEND

- STANDARD PITCH CONCRETE CURB AND GUTTER
- REVERSE PITCH CONCRETE CURB AND GUTTER
- * DENOTES ADA RAMP. CONTRACTOR TO INSTALL SPECIAL DEPRESSED CURB FOR RAMP CONSTRUCTION
- CONCRETE SIDEWALK (SEE GRADING PLANS FOR DETAILED ELEVATIONS)
- ASPHALT TRAIL (SEE GRADING PLANS FOR DETAILED ELEVATIONS)
- GRANULAR TRENCH BACKFILL (SEE DETAILS)
- SEWER PIPE WITHIN 10' OF WATERMAIN HORIZONTAL OR 18" VERTICAL DISTANCE TO BE PROTECTED PER UTILITY CROSSING LEGEND NOTE

WATER STRUCTURE TABLE	
STRUCTURE NAME:	DETAILS:
W17	8" VALVE IN VAULT FG ELEV: 723.03
W40	8" VALVE IN VAULT FG ELEV: 703.55

FES TABLE	
STRUCTURE NAME:	DETAILS:
D37	36" FES INV IN: 714.00 (NE)
D74	12" FES INV IN: 715.00 (NW)

STORM STRUCTURE TABLE	
STRUCTURE NAME:	DETAILS:
D38	5' DIA. MH – OPEN LID RIM: 721.10 INV IN: 715.06 (NE) INV IN: 714.06 (N) INV OUT: 714.06 (SW)
D39	4' DIA. MH – OPEN LID RIM: 722.23 INV IN: 714.21 (N) INV OUT: 714.21 (S)
D40	4' DIA. MH – OPEN LID RIM: 721.45 INV IN: 714.30 (N) INV OUT: 714.30 (S)
D60	4' DIA. MH – OPEN LID RIM: 721.10 INV IN: 715.18 (NE) INV OUT: 715.18 (SW)
D75	4' DIA. MH – OPEN LID RIM: 720.58 INV IN: 715.83 (NW) INV OUT: 715.83 (SE)
D76	2' INLET RIM: 720.55 INV OUT: 716.46 (SE)

SANITARY STRUCTURE TABLE	
STRUCTURE NAME:	DETAILS:
S8A	4' DIA. MH RIM: 721.42 INV OUT: 712.75 (NW)
S21	4' DIA. MH RIM: 722.02 INV IN: 712.03 (SW) INV OUT: 711.93 (SE)

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ROUNDABOUT GRADING AND UTILITY PLAN

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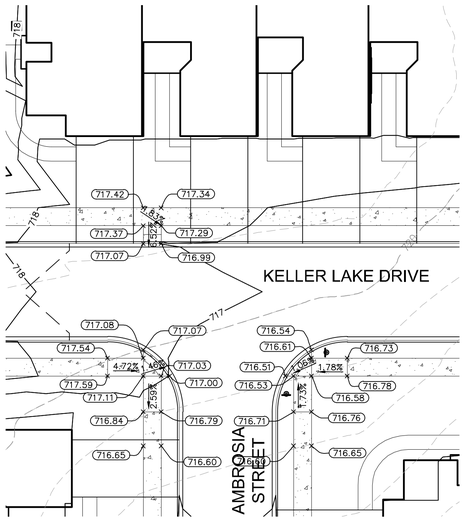
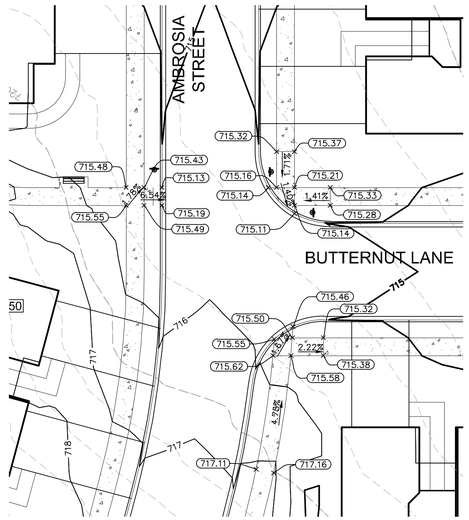


ADA DETAIL 1
1" = 20'



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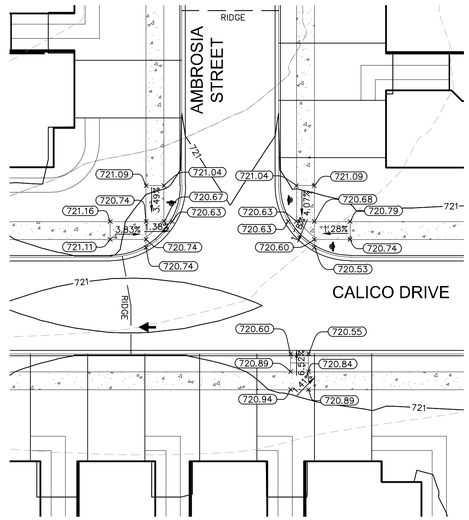

ADA DETAIL 3
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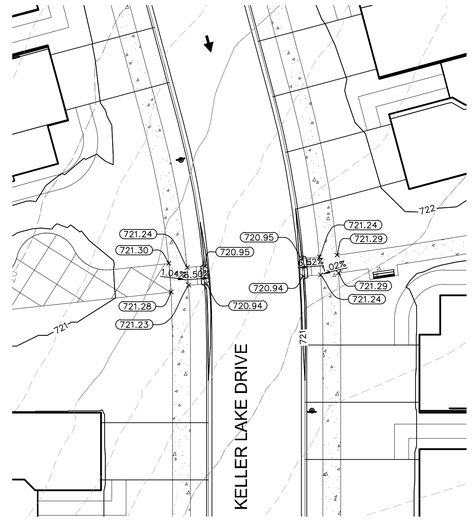

ADA DETAIL 4
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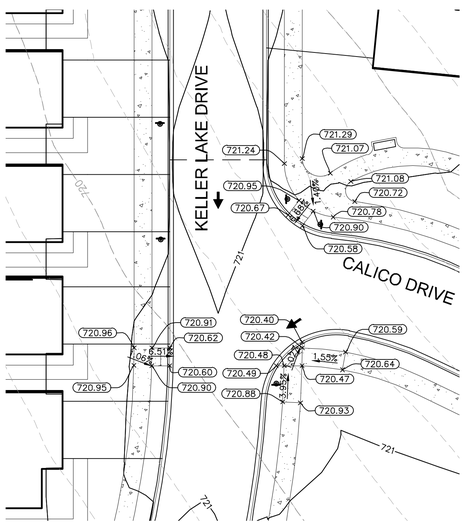
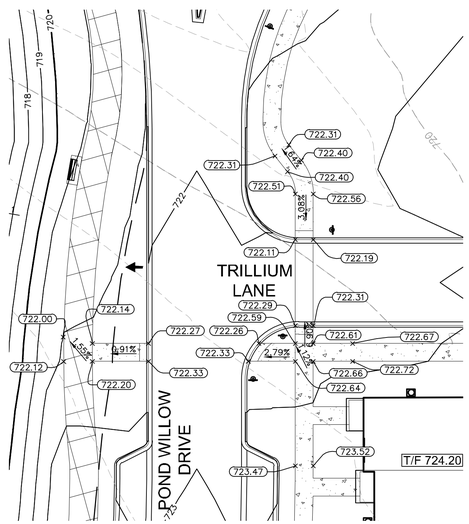
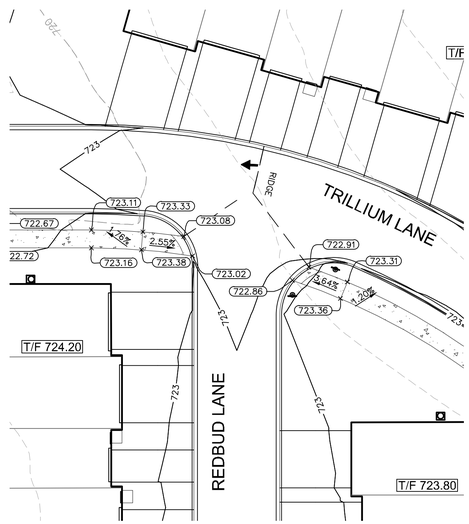


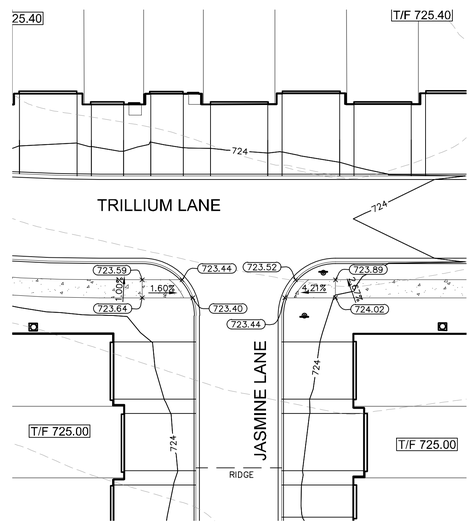
ADA DETAIL 5
1" = 20'



ADA DETAIL 6
1" = 20'



ADA DETAIL 7
1" = 20'



ADA DETAIL 8
1" = 20'

NO.	REVISIONS	DATE	BY
1	REVISED PER VILLAGE/CCDOT COMMENTS	02/14/20	MAW
2	ADDENDUM 1 – LANDSCAPE	02/06/20	SKA
3	REVISED PER IDOT COMMENTS	02/05/20	MAW
4	LANDSCAPE REV PER VILLAGE COMMENTS	01/09/20	MAW
5	REVISED PER VILLAGE/MWRD/CCDOT COM.	12/20/19	MAW
6	REVISED PER CCDOT COMMENTS	11/21/19	MAW
7	REVISED PER VILLAGE/MWRD COMMENTS	10/15/19	MAW

SCALE: AS NOTED
DESIGNED BY: TRE
DRAWN BY: JDC
CHECKED BY: MAW

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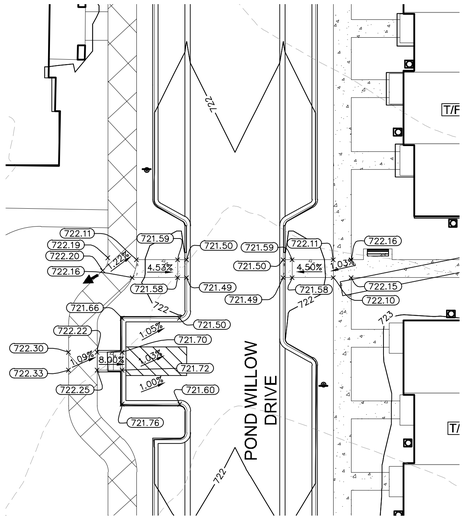
ORLAND PARK, IL 60487

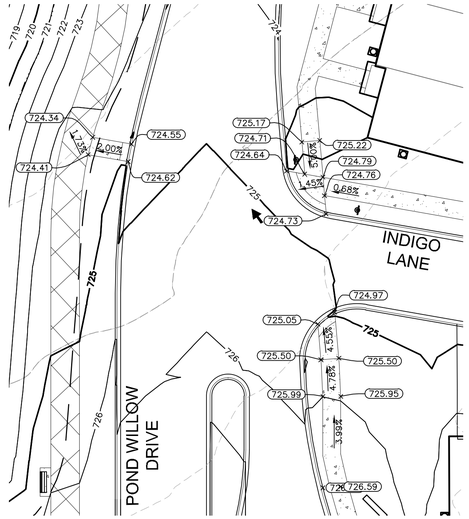
ORIGINAL ISSUE:
07/17/2019

KHA PROJECT NO.
168626000

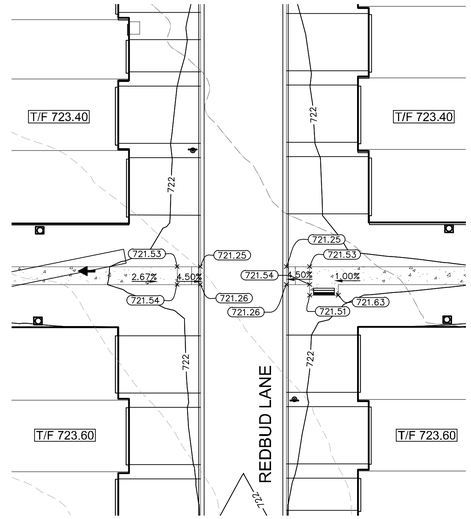
SHEET NUMBER
C3.9



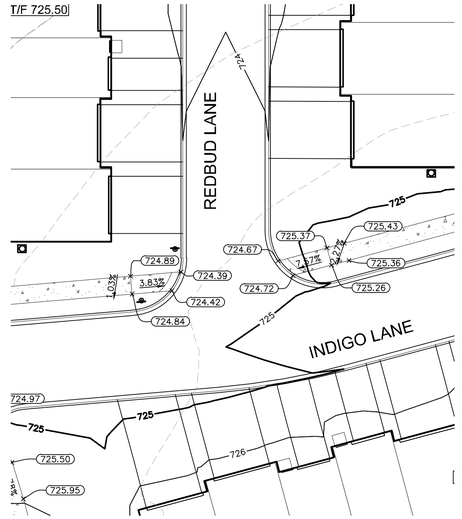
ADA DETAIL 9
1" = 20'



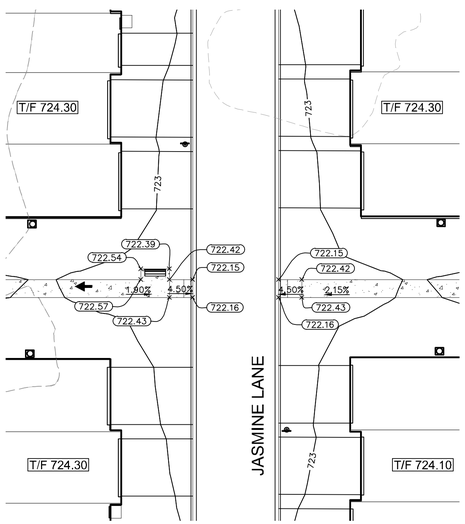
ADA DETAIL 10
1" = 20'



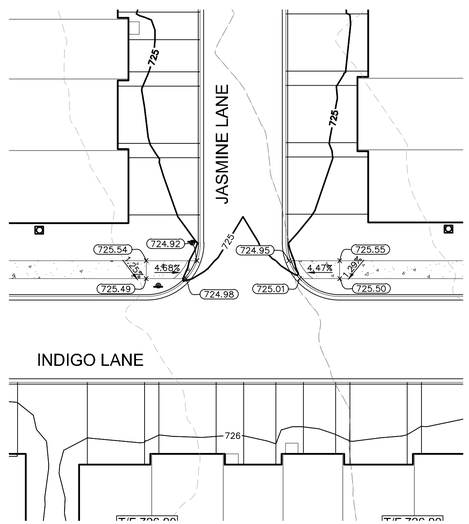
ADA DETAIL 11
1" = 20'



ADA DETAIL 12
1" = 20'



ADA DETAIL 13
1" = 20'



ADA DETAIL 14
1" = 20'

Call Before You Dig
JULIE
1-800-892-0123

NO.	REVISIONS	DATE	BY
1	REVISED PER VILLAGE/CCDOT COMMENTS	02/14/20	MAW
2	ADDENDUM 1 – LANDSCAPE	02/06/20	SKA
3	REVISED PER IDOT COMMENTS	02/05/20	MAW
4	LANDSCAPE REV PER VILLAGE COMMENTS	01/09/20	MAW
1	REVISED PER VILLAGE/MMRD/CCDOT COM.	12/20/19	MAW
2	REVISED PER CCDOT COMMENTS	11/21/19	MAW
3	REVISED PER VILLAGE/MMRD COMMENTS	10/15/19	MAW

SCALE: AS NOTED
DESIGNED BY: TRE
DRAWN BY: JDC
CHECKED BY: MAW

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ORIGINAL ISSUE: 07/17/2019
KHA PROJECT NO. 168626000
SHEET NUMBER
C3.10