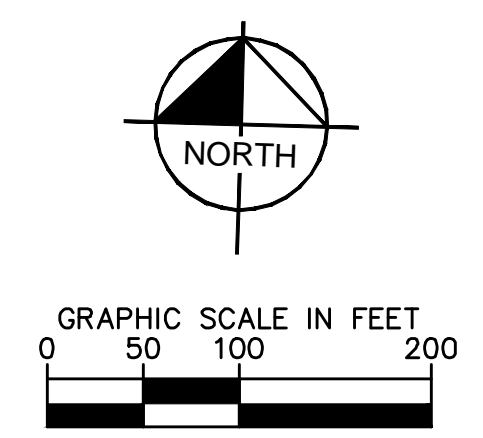
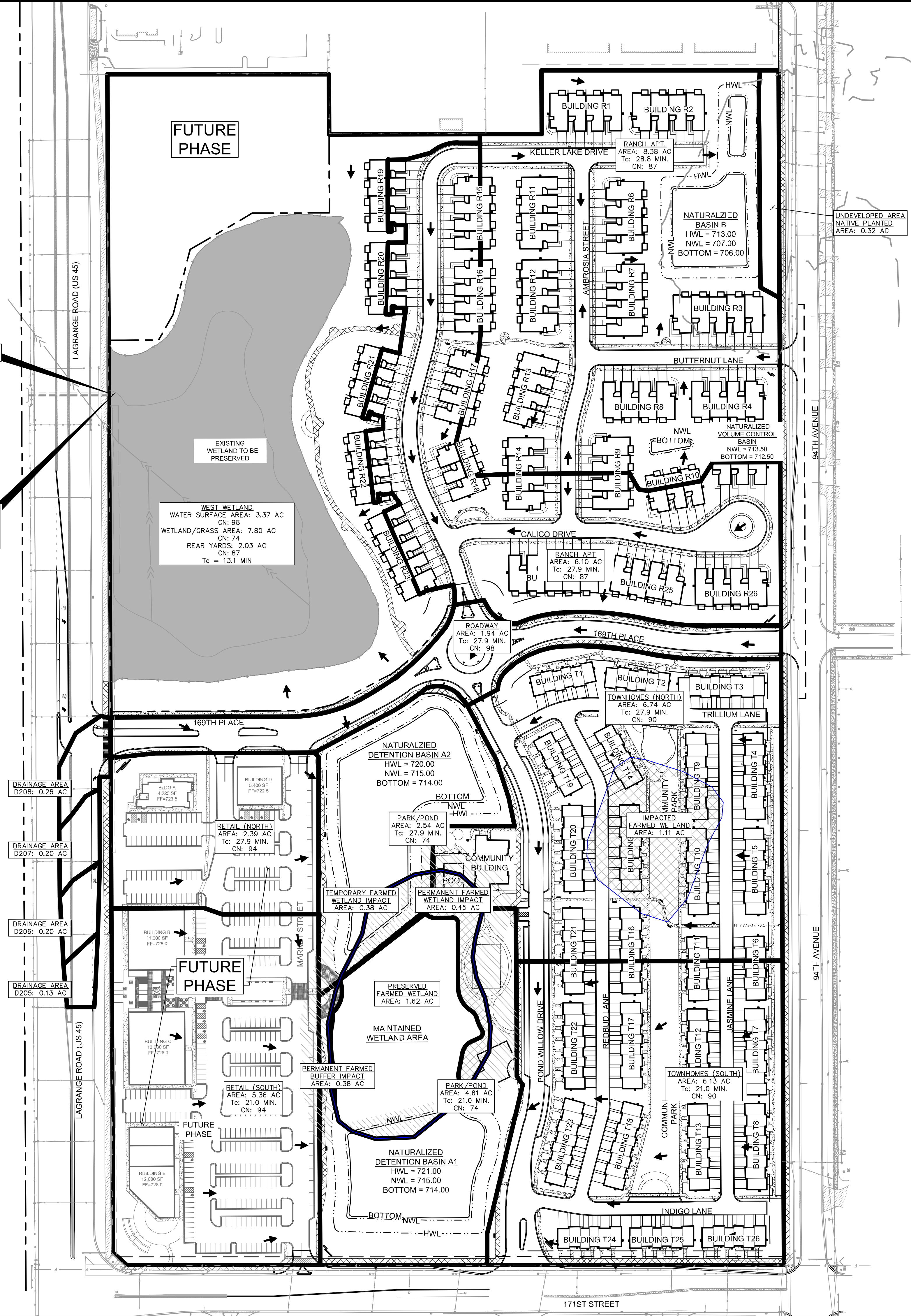


Drawing name: K:\GIS_LDEV\168626000_SR_Jacobson_Orland Ridge_IL_V Design\CAD\Plans\Sheets\Final Engineering\C10.1 - PROPOSED DRAINAGE PLAN.dwg C10.1 Feb 13, 2020 3:00pm by: TaylorEichenbach
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***PROPOSED OUTFLOW (CRITICAL DURATION)**
 2-YR = 9.28 CFS (12-HR)
 10-YR = 14.99 CFS (12-HR)
 50-YR = 23.24 CFS (12-HR)
 100-YR = 27.45 CFS (12-HR)

***NOTE: OUTFLOW BASED ON MODIFIED ON-SITE DETENTION CONDITION IN ORDER TO PRESERVE WETLAND HYDROLOGY.**



Call Before You Dig
1-800-892-0123

LEGEND

- XXX--- EXISTING CONTOUR
- XXX- PROPOSED CONTOUR
- ← FLOW DIRECTION
- ▨ PRESERVED WETLAND FOOTPRINT
- ▩ IMPACTED WETLAND LIMITS

Proposed Tributary	Area
Townhomes (South)	6.13
Retail (South)	5.36
Park/Pond	4.61
Park/Pond	2.54
Townhomes (North)	6.74
Retail (North)	2.39
Roadway	1.94
Ranch Apt	6.10
Ranch Apt	8.38
Undeveloped Area	0.32
West Wetland Water	3.37
West Wetland Grassed Area	7.80
Rear Yards	2.03
Total	57.71

REVISED PER VILLAGE/CCDOT COMMENTS	DATE	BY
ADDENDUM 1 - LANDSCAPE	02/14/20	WAW
REVISED PER IDOT COMMENTS	02/06/20	SKA
LANDSCAPE REV PER VILLAGE COMMENTS	02/05/20	WAW
REVISED PER VILLAGE/MWRD/CCDOT COM.	07/09/20	WAW
REVISED PER CCODT COMMENTS	12/20/19	WAW
REVISED PER VILLAGE/MWRD COMMENTS	11/21/19	WAW
REVISED PER VILLAGE/MWRD COMMENTS	10/15/19	WAW

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 TEL: 630-582-4550
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SCALE: AS NOTED
 DESIGNED BY: TRE
 DRAWN BY: JDC
 CHECKED BY: WAW

SR JACOBSON
 CONSULTING ENGINEERS

PROPOSED DRAINAGE PLAN

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

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

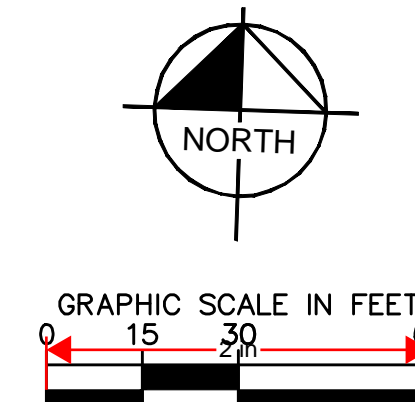
C10.1

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 ON-SITE CONCRETE SIDEWALK IS DESIGNED AT 1% CROSS SLOPE UNLESS OTHERWISE NOTED.

THE CONSTRUCTION OF BOTH NATURALIZED BASIN B AND NATURALIZED VOLUME CONTROL BASIN IS REQUIRED TO PROVIDE THE REQUIRED VOLUME CONTROL FOR THE CONSTRUCTION OF ANY AND ALL RANCH HOMES R1 THRU R14.

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.



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
 - XXX--- RIDGE LINE
 - XXX--- SLOPE AND FLOW DIRECTION
 - XXX--- 100-YEAR OVERLAND OVERFLOW ROUTE
 - XXX--- DETENTION BASIN 100-YEAR EMERGENCY OVERLAND OVERFLOW ROUTE
 - XXX--- PROPOSED SWALE
 - XXX--- PROPOSED RETAINING WALL
 - XXX--- REVERSED PITCH CURB AND GUTTER
 - XXX--- ACCESSIBLE ROUTE
 - XXX--- RIP RAP (SEE DETAILS)
 - XXX--- PROPOSED OPEN LID STORM STRUCTURE (PAVEMENT USE NEENAH R-2540) (GRASS USE NEENAH R-4340-B BEEHIVE)
 - XXX--- PROPOSED CLOSED LID STORM STRUCTURE (PAVEMENT USE NEENAH R-1772) (GRASS USE NEENAH R-1786)
 - XXX--- PROPOSED COMBINATION CURB INLET (88.12 C&G USE NEENAH R-3281-A) (TOP MOUNTABLE CURB USE NEENAH R-2540 REFER TO DETAILS)
 - XXX--- PROPOSED STORM SEWER LINE

REVISED PER VILLAGE/CCDOT COMMENTS	DATE	BY
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LANDSCAPE REV PER VILLAGE COMMENTS	02/05/20	WAW
LANDSCAPE PER VILLAGE/MWRD/CCDOT COM.	07/09/20	WAW
REVISED PER CCOT COMMENTS	12/20/19	WAW
REVISED PER VILLAGE/MWRD COMMENTS	11/21/19	WAW
REVISED PER VILLAGE/MWRD COMMENTS	10/15/19	WAW
REVISIONS		

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

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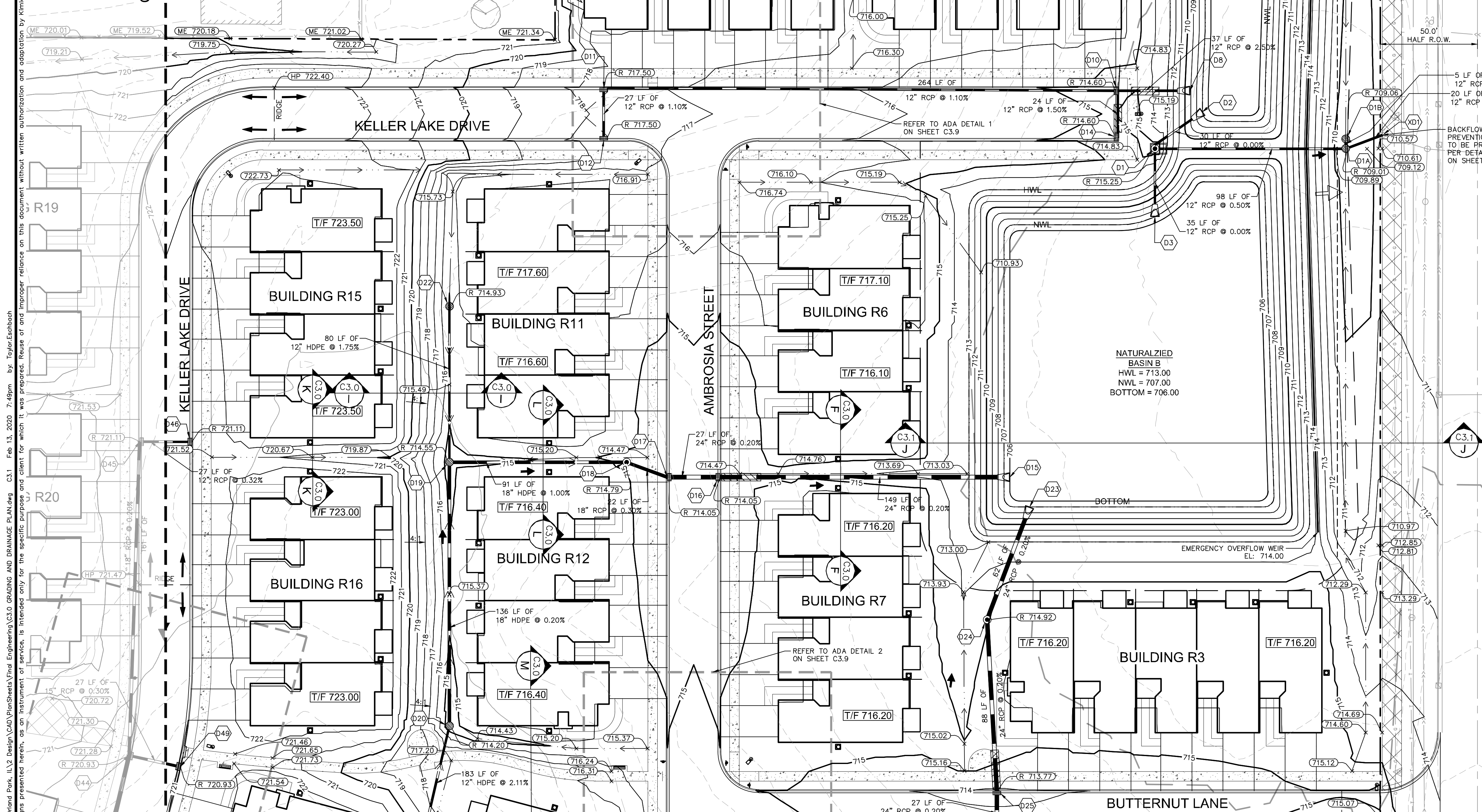
SR.JACOBSON
 CONSULTANTS

ORLAND RIDGE GRADING AND DRAINAGE PLAN
 LAGRANGE ROAD & 171 ST STREET
 ORLAND PARK, IL 60487

ORIGINAL ISSUE: 07/17/2019
 KHA PROJECT NO. 168626000
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C3.1

CONTINUATION - SEE SHEET C3.0

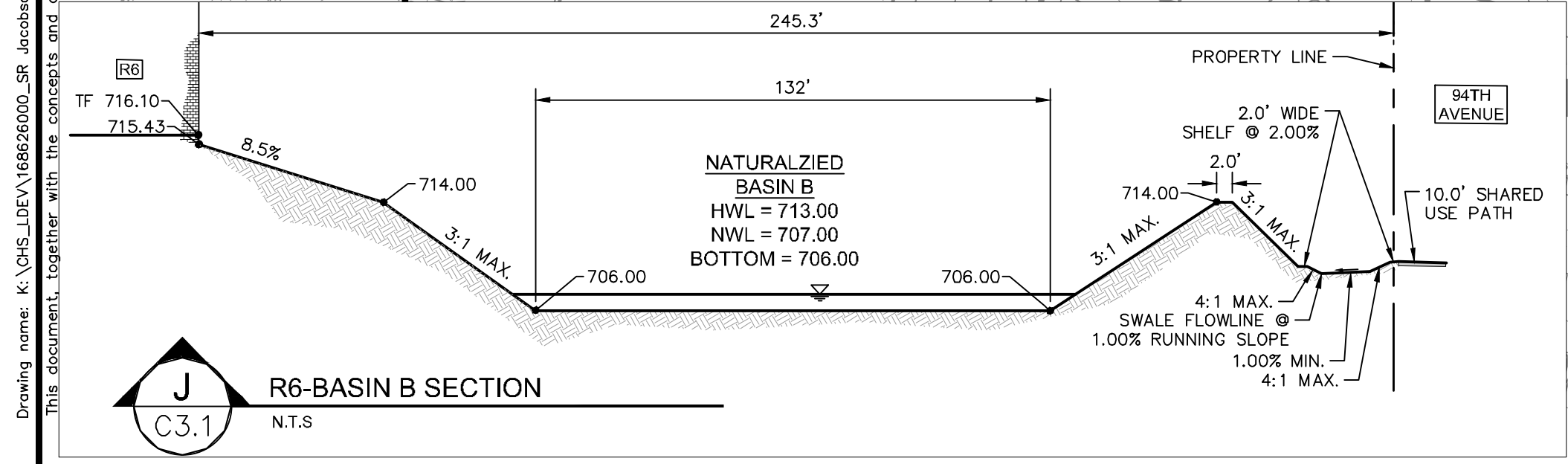
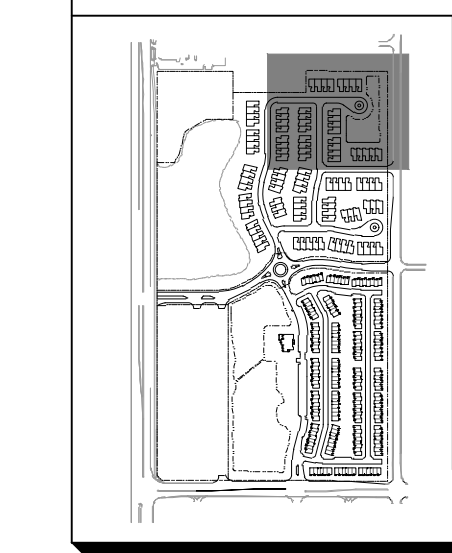


STORM STRUCTURE TABLE	
STRUCTURE NAME:	DETAILS:
D1	OUTLET CONTROL STRUCTURE RIM: 715.25 INV IN: 707.00 (S) INV IN: 707.00 (NE) INV OUT: 707.00 (E)
D1A	4" DIA. MH - OPEN LID RIM: 709.01 INV IN: 706.51 (W) INV IN: 706.44 (N) INV OUT: 706.45 (E)
D1B	4" DIA. MH - OPEN LID RIM: 709.06 INV OUT: 706.49 (S)
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: 714.60 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 (E) 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



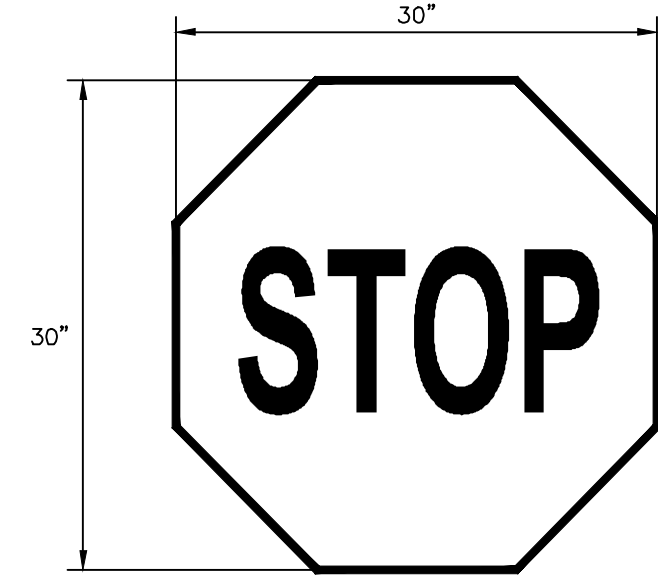
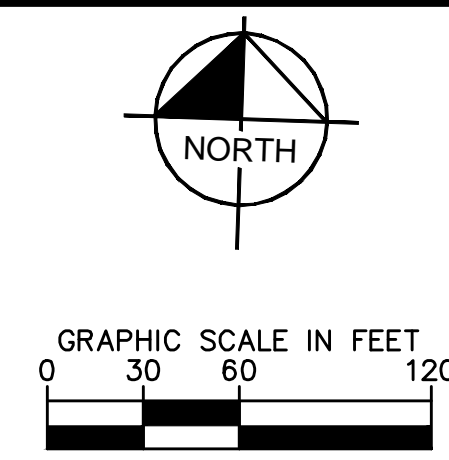
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C3.1
R6-BASIN B SECTION
N.T.S.

Drawing name: K:\CHS_DEVT\168626000_SR_Jacobson_Orland Park, IL\2 Design\CAD\PlanSheets\Final Engineering\C3.0 GRADING AND DRAINAGE PLAN.dwg C3.1 Feb 13, 2020 7:49pm by: TaylorEichhorn
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Drawing name: K:\GIS_LDEV\168626000_SR_Jacobson_Orland Park_IL_V2 Design\CAD\PlanSheets\Final Engineering\C6.0 OVERALL SIGNAGE & MARKING.dwg C6.0 Feb 13, 2020 3:00pm by: TaylorEichbach
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GENERAL NOTES

1. TYPE ZZ SIGN SHEETING AND TELESCOPING STEEL SIGN SUPPORTS SHALL BE USED FOR ALL COOK COUNTY SIGN ASSEMBLIES
2. ALL PAVEMENT MARKINGS ON COOK COUNTY ROADWAYS SHALL BE MODIFIED URETHANE



30" X 30" R1-1
A
STOP SIGN
N.T.S.



B
W11-2
36" X 36"

Keller Lake Dr

C
STREET SIGN
48" X 9"
WHITE/GREEN

Butternut Lane

D
STREET SIGN
48" X 9"
WHITE/GREEN

Ambrosia St

E
STREET SIGN
48" X 9"
WHITE/GREEN

Calico Drive

F
STREET SIGN
48" X 9"
WHITE/GREEN

LEGEND

- 1 4" DOUBLE YELLOW LINE
- 2 24" SOLID WHITE LINE
- 3 SCHOOL CROSSWALK (12" WHITE STRIPE - 2.0' O.C.)

NO.	REVISIONS	DATE	BY
1	REVISED PER VILLAGE/CCDOT COMMENTS	02/14/20	WAW
2	ADDENDUM 1 - LANDSCAPE	02/06/20	SKA
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SCALE: AS NOTED
DESIGNED BY: TIRE
DRAWN BY: JDC
CHECKED BY: WAW



OVERALL SIGNAGE & MARKING

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

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