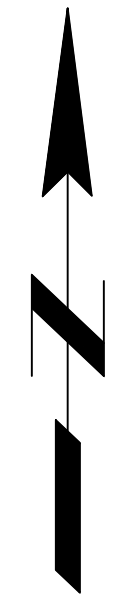
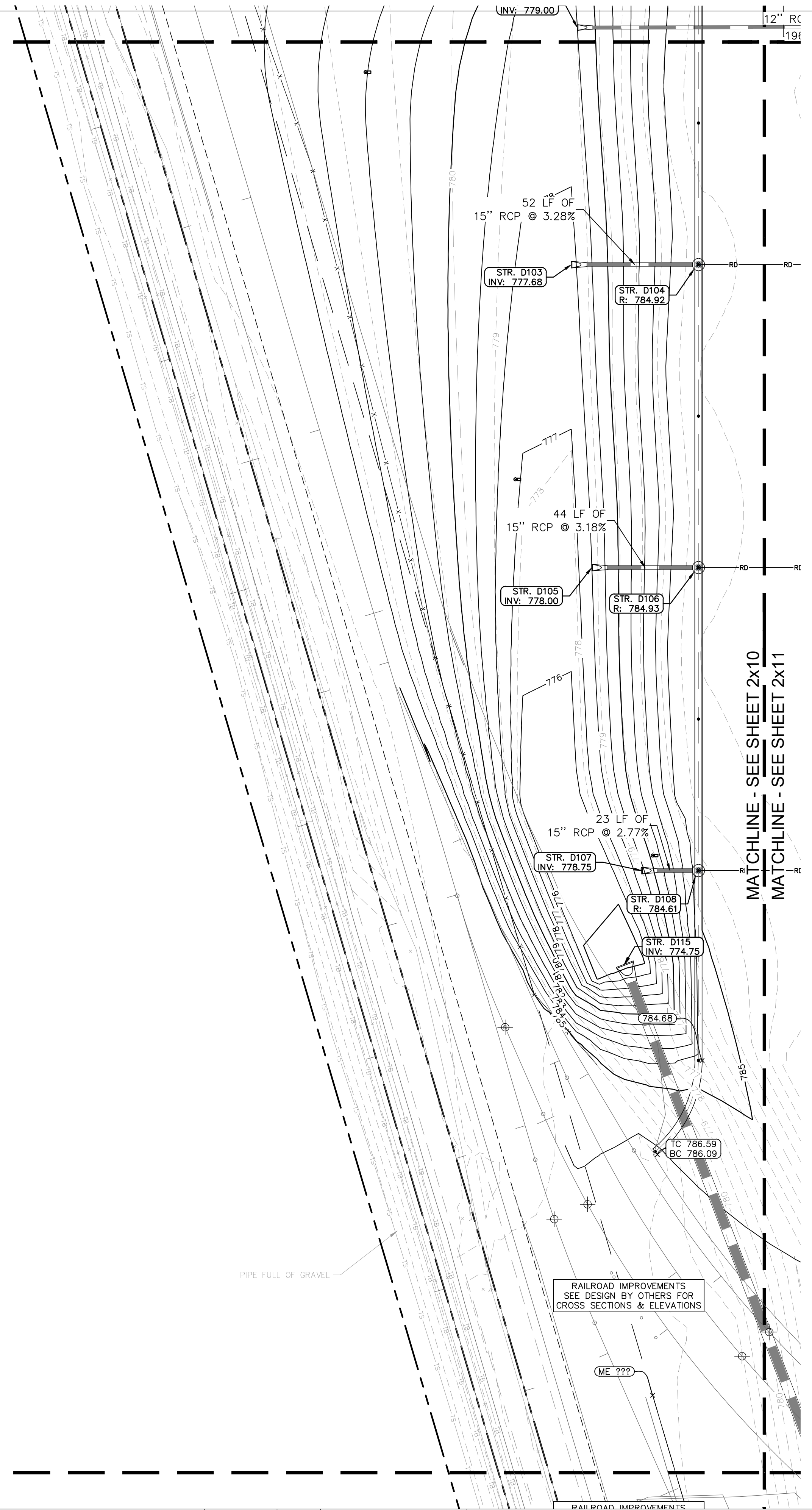


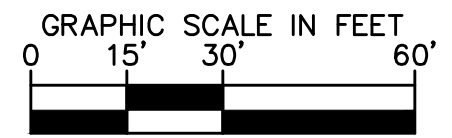
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND\DEV\170509000_Cooper&Associates_Plant\IN\2 Design\CD\03\PlanSheets\03-GRADING AND DRAINAGE PLAN.dwg 2410 OCT 10, 2024 1:41pm By: Anthony Magarity



MATCHLINE - SEE SHEET 2x07
 MATCHLINE - SEE SHEET 2x10



GRADING LEGEND	
	FINISHED GRADE SPOT ELEVATION
	TOP OF CURB / BOTTOM OF CURB SPOT ELEVATION
	FLOW LINE SPOT ELEVATION
	MATCH EXISTING SPOT ELEVATION
	FINISHED FLOOR SPOT ELEVATION
	FINISHED GRADE NEAR BUILDING SPOT ELEVATION
	TOP OF WALL SPOT ELEVATION
	BOTTOM OF WALL SPOT ELEVATION
	RIM ELEVATION
	STRUCTURE ID & RIM ELEVATION
	STRUCTURE ID & INVERT ELEVATION
	PROPOSED CONTOUR
	RIDGE LINE
	SLOPE AND FLOW DIRECTION
	100-YEAR OVERLAND OVERFLOW ROUTE
	DETENTION BASIN 100-YEAR EMERGENCY
	PROPOSED SWALE
	PROPOSED STORM SEWER
	PROPOSED STORM STRUCTURES
	PROPOSED SANITARY MANHOLE
	PROPOSED STORM/SANITARY CLEANOUT
	PROPOSED WATER STRUCTURES
	PROPOSED LIGHT POLES
	PROPOSED TRANSFORMER PAD



MATCHLINE - SEE SHEET 2x10
 MATCHLINE - SEE SHEET 2x13

GENERAL PLAN NOTES
 REFER TO GENERAL NOTES SHEET FOR MORE INFORMATION INCLUDING THE FOLLOWING: (EXISTING LEGEND, BENCHMARK INFORMATION, AND SPECIFIC GENERAL PLAN NOTES.)

Kimley»Horn
 ©2024 KIMLEY-HORN AND ASSOCIATES, INC.
 500 EAST 96TH STREET, SUITE 300,
 INDIANAPOLIS, IN 46240
 PHONE: 317-218-9560
 WWW.KIMLEY-HORN.COM
 KHA PROJECT # 170509000



MALARKEY,IND FRANKLIN,IN

PROJ. NO.
170509000
 DWG. NO.
2410
 SHEET
0
 REV

TITLE - PHASE 2 - FINAL BUILDOUT
 GRADING AND DRAINAGE PLAN



Engineers - Project Managers
 2200 Ellis Road, New Lenox, Illinois, 60451
 Ph. (844) 251-7823 www.quadplus.com

PROFESSIONAL SEAL	NOTICE	REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY	SCALE: AS NOTED		
	THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED. DWG SIZE: 36" X 24"									DRWN.: VG		
											CHKD.: AMM	
												APPD.:
												APPD.:
										DATE : 10/10/24		



GRADING LEGEND

- XXX.XX FINISHED GRADE SPOT ELEVATION
- TC XXX.XX TOP OF CURB / BOTTOM OF CURB SPOT ELEVATION
- BC XXX.XX BOTTOM OF CURB SPOT ELEVATION
- FL XXX.XX FLOW LINE SPOT ELEVATION
- ME XXX.XX MATCH EXISTING SPOT ELEVATION
- FF XXX.XX FINISHED FLOOR SPOT ELEVATION
- FG XXX.XX FINISHED GRADE NEAR BUILDING SPOT ELEVATION
- TW XXX.XX TOP OF WALL SPOT ELEVATION
- BW XXX.XX BOTTOM OF WALL SPOT ELEVATION
- R XXX.XX RIM ELEVATION
- STR XX R XXX.XX STRUCTURE ID & RIM ELEVATION
- STR XX INV XXX.XX STRUCTURE ID & INVERT ELEVATION
- 620 PROPOSED CONTOUR
- RIDGE — RIDGE LINE
- X.XX% SLOPE AND FLOW DIRECTION
- 100-YEAR OVERLAND OVERFLOW ROUTE
- DETENTION BASIN 100-YEAR EMERGENCY
- PROPOSED SWALE
- PROPOSED SEWER
- PROPOSED STORM
- PROPOSED STORM STRUCTURES
- PROPOSED SANITARY MANHOLE
- PROPOSED STORM/SANITARY CLEANOUT
- PROPOSED WATER STRUCTURES
- PROPOSED LIGHT POLES
- PROPOSED TRANSFORMER PAD

GENERAL PLAN NOTES

REFER TO GENERAL NOTES SHEET FOR MORE INFORMATION INCLUDING THE FOLLOWING: EXISTING LEGEND, BENCHMARK INFORMATION, AND SPECIFIC GENERAL PLAN NOTES.



©2024 KIMLEY-HORN AND ASSOCIATES, INC.
 500 EAST 96TH STREET, SUITE 300,
 INDIANAPOLIS, IN 46240
 PHONE: 317-218-9560
 WWW.KIMLEY-HORN.COM
 KHA PROJECT # 170509000



MALARKEY,IND FRANKLIN,IN

PROJ. NO.
170509000

DWG. NO.
2411

SHEET
REV 0

TITLE— PHASE 2 — FINAL BUILDOUT
GRADING AND DRAINAGE PLAN



Engineers — Project Managers
 2200 Ellis Road, New Lenox, Illinois, 60451
 Ph. (844) 251-7823 www.quadplus.com

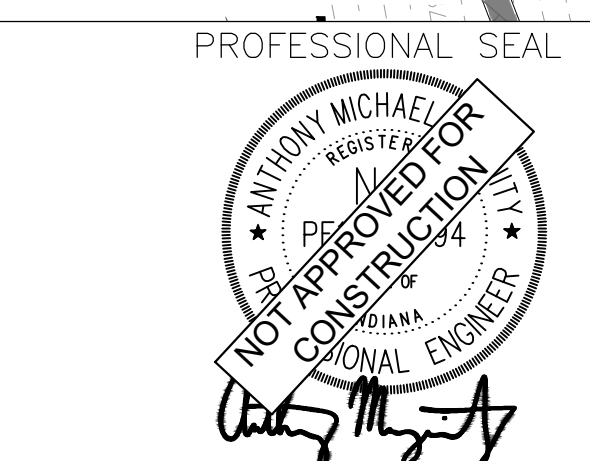
MATCHLINE - SEE SHEET 787.25
 MATCHLINE - SEE SHEET 785.11

MATCHLINE - SEE SHEET 2x11
 MATCHLINE - SEE SHEET 2x14

PROPOSED BUILDING
 357,600 ± SF
 FFE: 787.50 ±

NORTHING: 1559671.23
 EASTING: 215162.85

GRAPHIC SCALE IN FEET
 0 15' 30'



NOTICE
 THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.

DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND_DEV\170509000_Cooper&Associates_Plant\IN\Q Design\CD\PlanSheets\Gr Site Improvements\21-GRADING AND DRAINAGE PLAN.dwg 2411 Oct 10, 2024 1:41pm by AnthonyMagnity



GRADING LEGEND

- XXX.XX FINISHED GRADE SPOT ELEVATION
- TC XXX.XX TOP OF CURB / BOTTOM OF CURB SPOT ELEVATION
- FL XXX.XX FLOW LINE SPOT ELEVATION
- ME XXX.XX MATCH EXISTING SPOT ELEVATION
- FF XXX.XX FINISHED FLOOR SPOT ELEVATION
- FG XXX.XX FINISHED GRADE NEAR BUILDING SPOT ELEVATION
- TW XXX.XX TOP OF WALL SPOT ELEVATION
- BW XXX.XX BOTTOM OF WALL SPOT ELEVATION
- R XXX.XX RIM ELEVATION
- STR XX R XXX.XX STRUCTURE ID & RIM ELEVATION
- STR XX INV XXX.XX STRUCTURE ID & INVERT ELEVATION
- 620 PROPOSED CONTOUR
- RIDGE LINE
- X.XX% SLOPE AND FLOW DIRECTION
- 100-YEAR OVERLAND OVERFLOW ROUTE
- DETENTION BASIN 100-YEAR EMERGENCY
- PROPOSED SWALE
- PROPOSED STORM SEWER
- PROPOSED STORM STRUCTURES
- PROPOSED SANITARY MANHOLE
- PROPOSED STORM/SANITARY CLEANOUT
- PROPOSED WATER STRUCTURES
- PROPOSED LIGHT POLES
- PROPOSED TRANSFORMER PAD

GENERAL PLAN NOTES

REFER TO GENERAL NOTES SHEET FOR MORE INFORMATION INCLUDING THE FOLLOWING: (EXISTING LEGEND, BENCHMARK INFORMATION, AND SPECIFIC GENERAL PLAN NOTES.)

Kimley»Horn

©2024 KIMLEY-HORN AND ASSOCIATES, INC.
 500 EAST 96TH STREET, SUITE 300,
 INDIANAPOLIS, IN 46240
 PHONE: 317-218-9560
 WWW.KIMLEY-HORN.COM
 KHA PROJECT # 170509000



MALARKEY,IND FRANKLIN,IN

PROJ. NO.
170509000

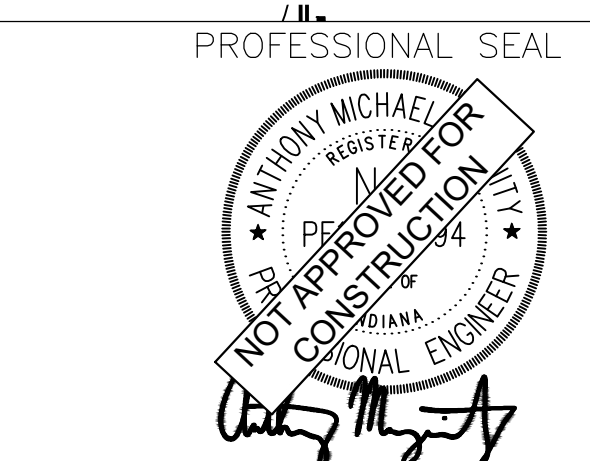
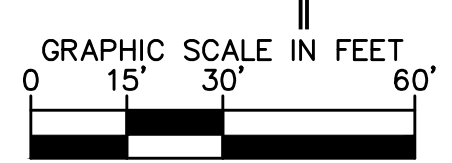
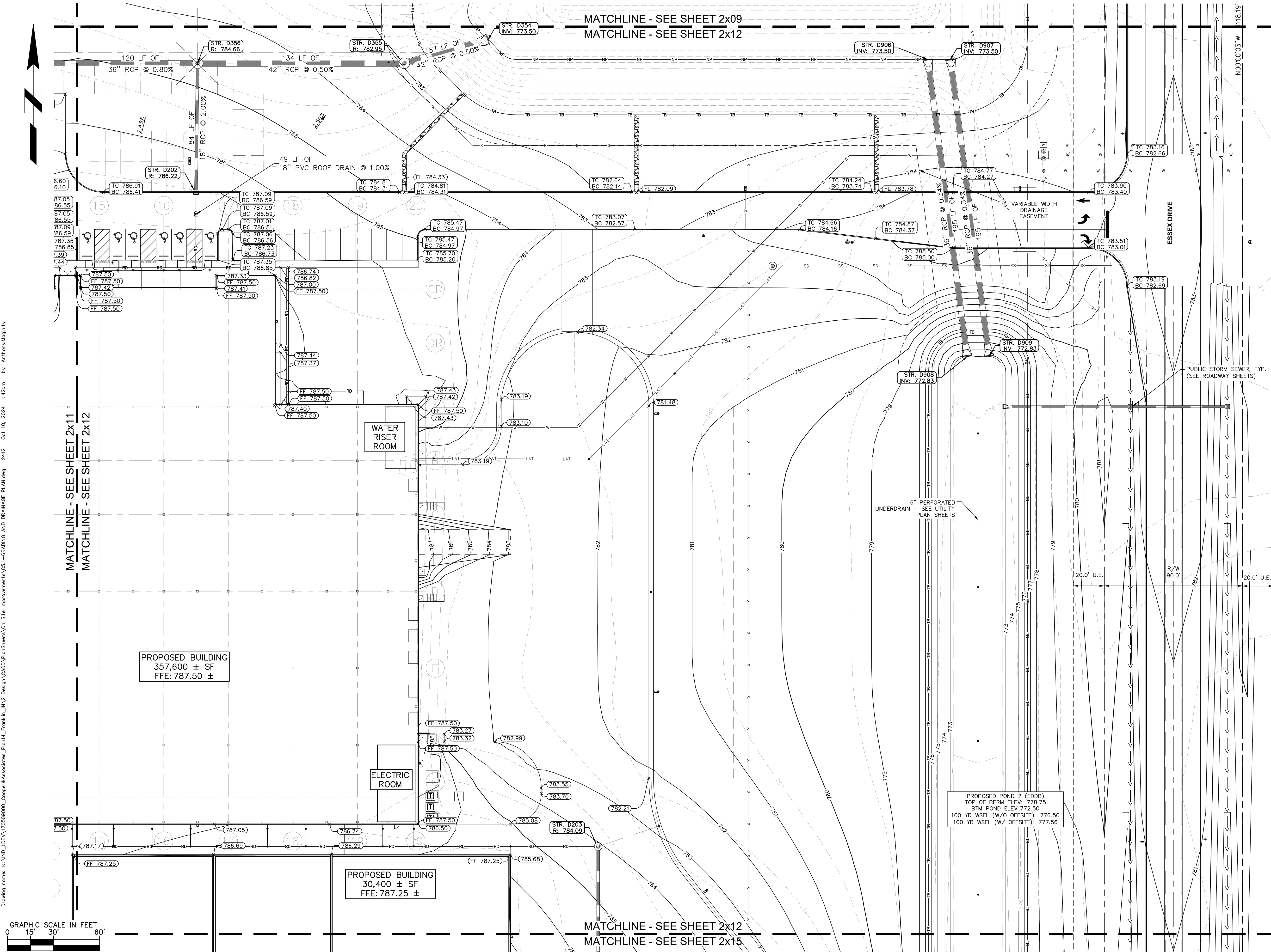
DWG. NO.
2412

SHEET
0

TITLE - PHASE 2 - FINAL BUILDOUT
 GRADING AND DRAINAGE PLAN



Engineers - Project Managers
 2200 Ellis Road, New Lenox, Illinois, 60451
 Ph. (844) 251-7823 www.quadplus.com



NOTICE
 THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.
 DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND\REV\170509000_Cooper&Associates_PlantA_Plan_Sheets\04_Site Improvements\051-GRADING AND DRAINAGE PLANS.dwg 2412 Oct 10, 2024 1:42pm By: AnthonyMagnity



MATCHLINE - SEE SHEET 2x10
 MATCHLINE - SEE SHEET 2x13

RAILROAD IMPROVEMENTS
 SEE DESIGN BY OTHERS FOR
 CROSS SECTIONS & ELEVATIONS

ME ???

MATCHLINE - SEE SHEET 2x13
 MATCHLINE - SEE SHEET 2x14

GRADING LEGEND

- FINISHED GRADE SPOT ELEVATION
- TOP OF CURB / BOTTOM OF CURB SPOT ELEVATION
- FLOW LINE SPOT ELEVATION
- MATCH EXISTING SPOT ELEVATION
- FINISHED FLOOR SPOT ELEVATION
- FINISHED GRADE NEAR BUILDING SPOT ELEVATION
- TOP OF WALL SPOT ELEVATION
- BOTTOM OF WALL SPOT ELEVATION
- RIM ELEVATION
- STRUCTURE ID & RIM ELEVATION
- STRUCTURE ID & INVERT ELEVATION
- PROPOSED CONTOUR
- RIDGE LINE
- SLOPE AND FLOW DIRECTION
- 100-YEAR OVERLAND OVERFLOW ROUTE
- DETENTION BASIN 100-YEAR EMERGENCY
- PROPOSED SWALE
- PROPOSED STORM SEWER
- PROPOSED STORM STRUCTURES
- PROPOSED SANITARY MANHOLE
- PROPOSED STORM/SANITARY CLEANOUT
- PROPOSED WATER STRUCTURES
- PROPOSED LIGHT POLES
- PROPOSED TRANSFORMER PAD

GENERAL PLAN NOTES

REFER TO GENERAL NOTES SHEET FOR MORE INFORMATION INCLUDING THE FOLLOWING: EXISTING LEGEND, BENCHMARK INFORMATION, AND SPECIFIC GENERAL PLAN NOTES.



©2024 KIMLEY-HORN AND ASSOCIATES, INC.
 500 EAST 96TH STREET, SUITE 300,
 INDIANAPOLIS, IN 46240
 PHONE: 317-218-9560
 WWW.KIMLEY-HORN.COM
 KHA PROJECT # 170509000



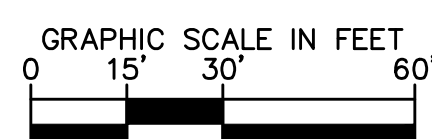
MALARKEY,IND FRANKLIN,IN

PROJ. NO.
170509000

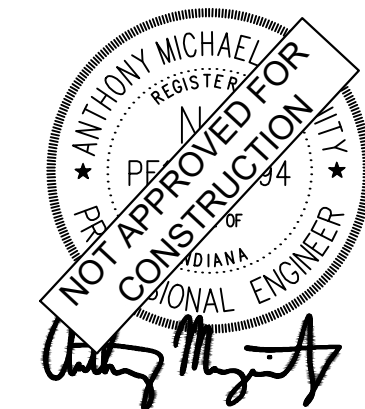
DWG. NO.
2413

TITLE - PHASE 2 - FINAL BUILDOUT
 GRADING AND DRAINAGE PLAN

SHEET
REV 0



PROFESSIONAL SEAL



NOTICE
 THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.

DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

Quad Plus
 Cooper & Associates, LLC

Engineers - Project Managers
 2200 Ellis Road, New Lenox, Illinois, 60451
 Ph. (844) 251-7823 www.quadplus.com

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND\DEV\170509000_Cooper&Associates_PlantA_Plans\IND Design\CD\03\PlanSheets\CD Site Improvements\CD1-GRADING AND DRAINAGE PLAN.dwg 2413 Oct 10, 2024 1:42pm By: Anthony.Maglity



GRADING LEGEND

- XXX.XX FINISHED GRADE SPOT ELEVATION
- TC XXX.XX TOP OF CURB / BOTTOM OF CURB SPOT ELEVATION
- BC XXX.XX BOTTOM OF CURB SPOT ELEVATION
- FL XXX.XX FLOW LINE SPOT ELEVATION
- ME XXX.XX MATCH EXISTING SPOT ELEVATION
- FF XXX.XX FINISHED FLOOR SPOT ELEVATION
- FG XXX.XX FINISHED GRADE NEAR BUILDING SPOT ELEVATION
- TW XXX.XX TOP OF WALL SPOT ELEVATION
- BW XXX.XX BOTTOM OF WALL SPOT ELEVATION
- R XXX.XX RIM ELEVATION
- STR XX R XXX.XX STRUCTURE ID & RIM ELEVATION
- STR XX INV XXX.XX STRUCTURE ID & INVERT ELEVATION
- 620 PROPOSED CONTOUR
- RIDGE — RIDGE LINE
- X-XX% SLOPE AND FLOW DIRECTION
- 100-YEAR OVERLAND OVERFLOW ROUTE
- DETENTION BASIN 100-YEAR EMERGENCY
- PROPOSED SWALE
- PROPOSED SEWER
- PROPOSED STORM STRUCTURES
- PROPOSED SANITARY MANHOLE
- PROPOSED STORM/SANITARY CLEANOUT
- PROPOSED WATER STRUCTURES
- PROPOSED LIGHT POLES
- PROPOSED TRANSFORMER PAD

GENERAL PLAN NOTES

REFER TO GENERAL NOTES SHEET FOR MORE INFORMATION INCLUDING THE FOLLOWING: EXISTING LEGEND, BENCHMARK INFORMATION, AND SPECIFIC GENERAL PLAN NOTES.

Kimley»Horn

©2024 KIMLEY-HORN AND ASSOCIATES, INC.
 500 EAST 96TH STREET, SUITE 300,
 INDIANAPOLIS, IN 46240
 PHONE: 317-218-9560
 WWW.KIMLEY-HORN.COM
 KHA PROJECT # 170509000



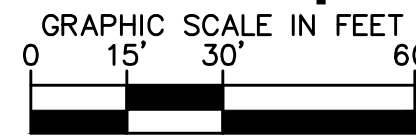
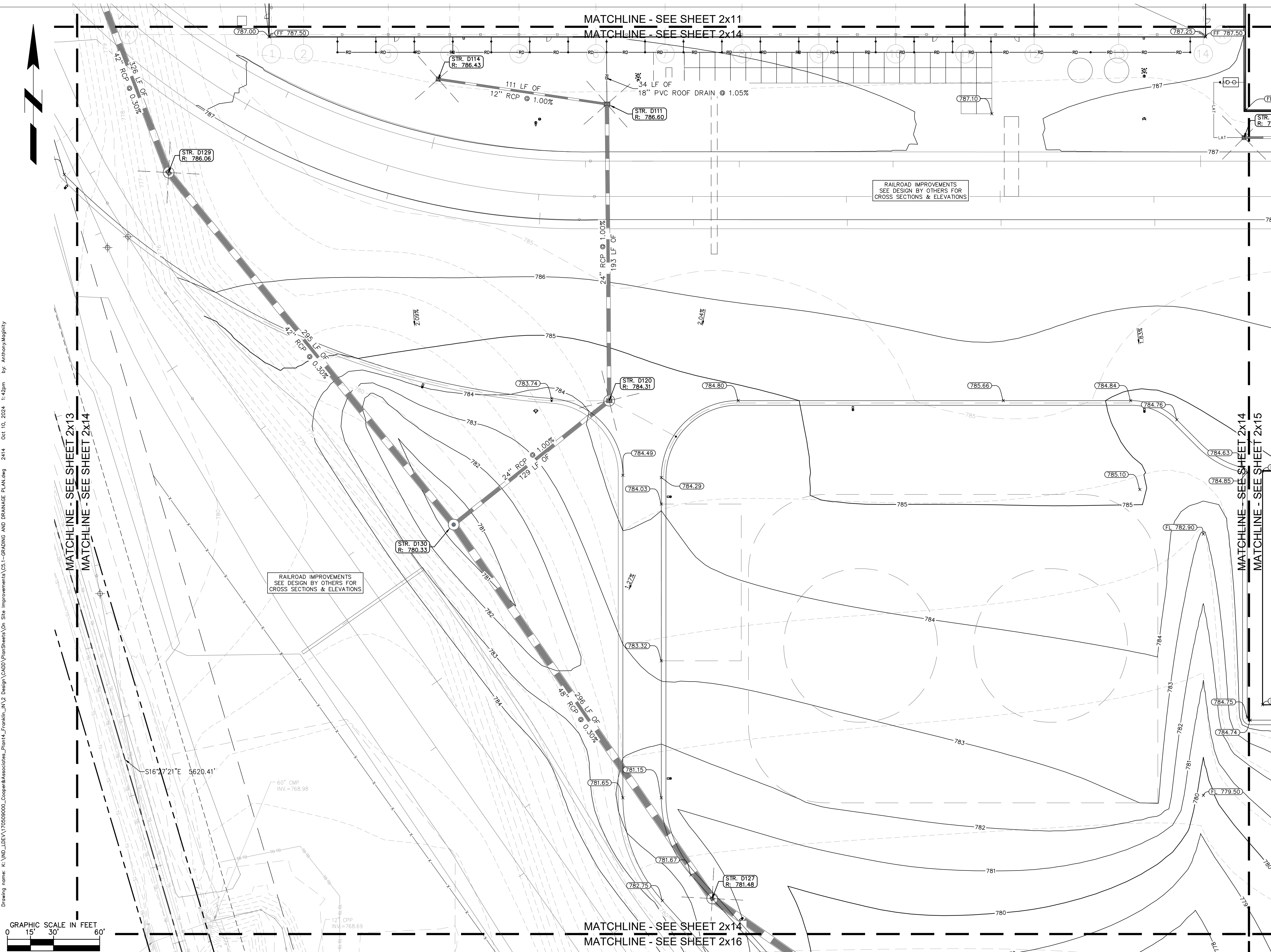
MALARKEY,IND FRANKLIN,IN

TITLE- PHASE 2 - FINAL BUILDOUT
 GRADING AND DRAINAGE PLAN

PROJ. NO.
170509000

DWG. NO.
2414

SHEET
REV 0



PROFESSIONAL SEAL

NOTICE
 THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.
 DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

Quad Plus
 Cooper & Associates, LLC
 Engineers - Project Managers
 2200 Ellis Road, New Lenox, Illinois, 60451
 Ph. (844) 251-7823 www.quadplus.com

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND_DEV\170509000_Cooper&Associates_Plant4\Drawings\Site Improvements\2414 - GRADING AND DRAINAGE PLAN.dwg 2414 Oct 10, 2024 1:42pm By: AnthonyMaglity



GRADING LEGEND

- XXX.XX FINISHED GRADE SPOT ELEVATION
- TC XXX.XX TOP OF CURB / BOTTOM OF CURB SPOT ELEVATION
- FL XXX.XX FLOW LINE SPOT ELEVATION
- ME XXX.XX MATCH EXISTING SPOT ELEVATION
- FF XXX.XX FINISHED FLOOR SPOT ELEVATION
- FG XXX.XX FINISHED GRADE NEAR BUILDING SPOT ELEVATION
- TW XXX.XX TOP OF WALL SPOT ELEVATION
- BW XXX.XX BOTTOM OF WALL SPOT ELEVATION
- R XXX.XX RIM ELEVATION
- STR XX R XXX.XX STRUCTURE ID & RIM ELEVATION
- STR XX INV XXX.XX STRUCTURE ID & INVERT ELEVATION
- 620 PROPOSED CONTOUR
- RIDGE LINE
- X.XX% SLOPE AND FLOW DIRECTION
- 100-YEAR OVERLAND OVERFLOW ROUTE
- DETENTION BASIN 100-YEAR EMERGENCY
- PROPOSED SWALE
- PROPOSED SEWER
- PROPOSED STORM STRUCTURES
- PROPOSED SANITARY MANHOLE
- PROPOSED STORM/SANITARY CLEANOUT
- PROPOSED WATER STRUCTURES
- PROPOSED LIGHT POLES
- PROPOSED TRANSFORMER PAD

GENERAL PLAN NOTES

REFER TO GENERAL NOTES SHEET FOR MORE INFORMATION INCLUDING THE FOLLOWING: (EXISTING LEGEND, BENCHMARK INFORMATION, AND SPECIFIC GENERAL PLAN NOTES.)

Kimley»Horn

©2024 KIMLEY-HORN AND ASSOCIATES, INC.
 500 EAST 96TH STREET, SUITE 300,
 INDIANAPOLIS, IN 46240
 PHONE: 317-218-9560
 WWW.KIMLEY-HORN.COM
 KHA PROJECT # 170509000



MALARKEY,IND FRANKLIN,IN

PROJ. NO.
170509000

DWG. NO.
2415

SHEET
0

TITLE- PHASE 2 - FINAL BUILDOUT
 GRADING AND DRAINAGE PLAN

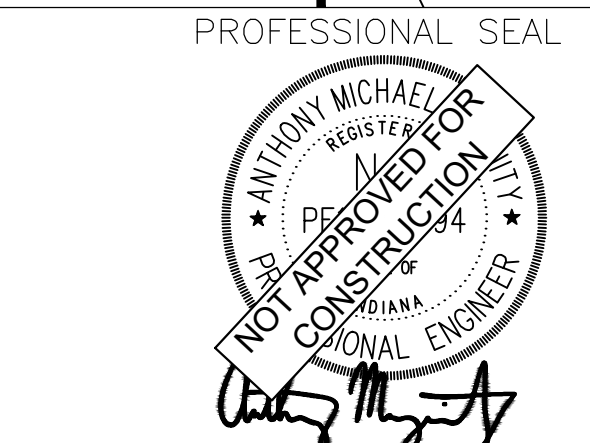
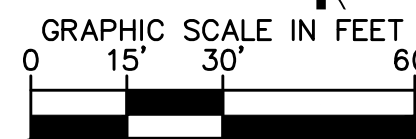


Engineers - Project Managers
 2200 Ellis Road, New Lenox, Illinois, 60451
 Ph. (844) 251-7823 www.quadplus.com

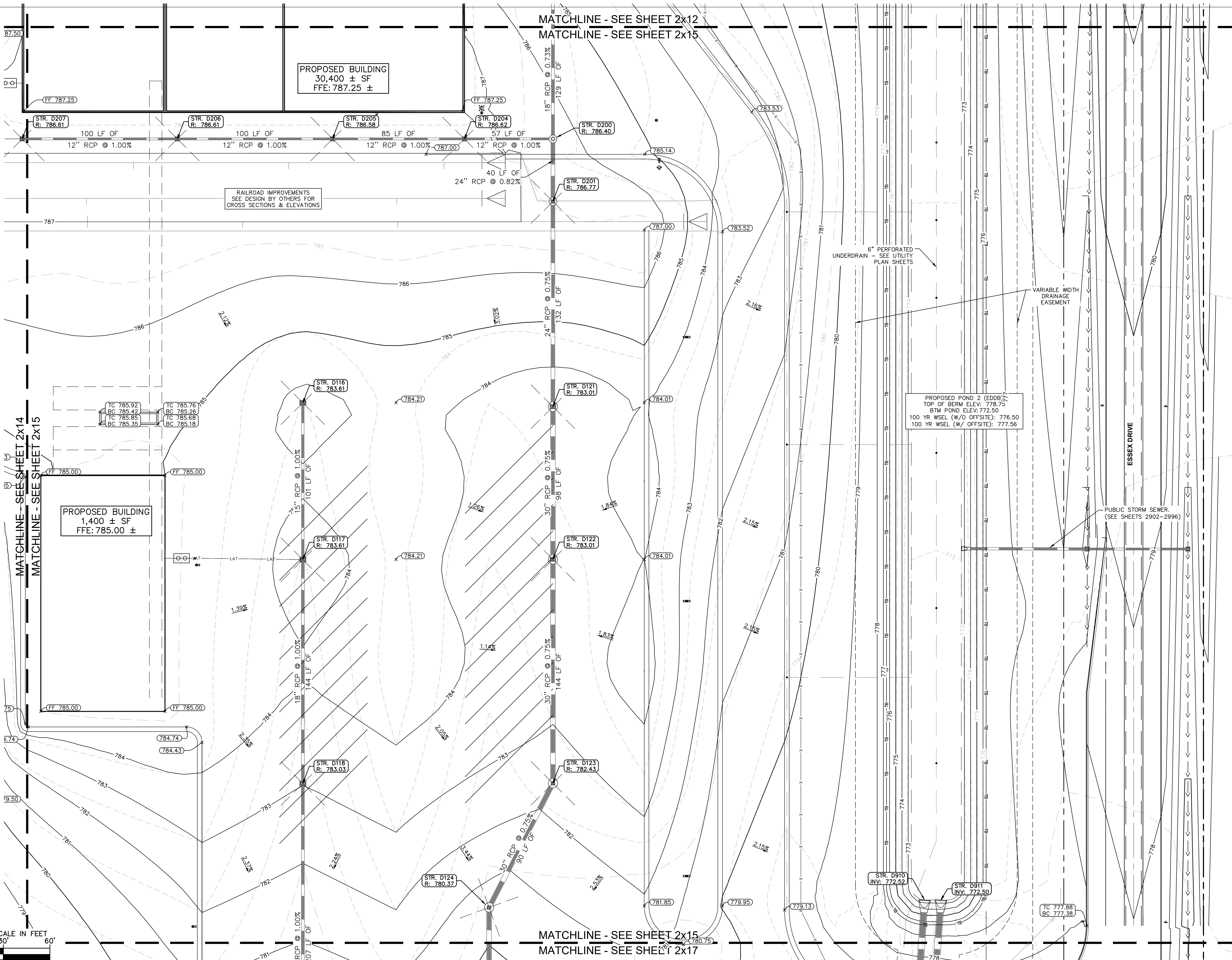
SCALE: AS NOTED
 DRWN.: VG
 CHKD.: AMM
 APPD.:
 APPD.:
 DATE : 10/10/24

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

NOTICE
 THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC
 AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.
 DWG SIZE: 36" X 24"



This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND_DEV\170509000_Cooper&Associates_Plant4_Franklin_IN\2 Design\CD\03\PlanSheets\04 Site Improvements\051-GRADING AND DRAINAGE PLAN.dwg 2415 Oct 10, 2024 11:42pm By: AnthonyMajumdar





GRADING LEGEND

- XXXX.XX FINISHED GRADE SPOT ELEVATION
- TC XXX.XX
BC XXX.XX TOP OF CURB / BOTTOM OF CURB SPOT ELEVATION
- FL XXX.XX FLOW LINE SPOT ELEVATION
- ME XXX.XX MATCH EXISTING SPOT ELEVATION
- FF XXX.XX FINISHED FLOOR SPOT ELEVATION
- FG XXX.XX FINISHED GRADE NEAR BUILDING SPOT ELEVATION
- TW XXX.XX TOP OF WALL SPOT ELEVATION
- BW XXX.XX BOTTOM OF WALL SPOT ELEVATION
- R XXX.XX RIM ELEVATION
- STR XX
R XXX.XX STRUCTURE ID & RIM ELEVATION
- STR XX
INV XXX.XX STRUCTURE ID & INVERT ELEVATION
- 620 PROPOSED CONTOUR
- RIDGE LINE
- XXX% SLOPE AND FLOW DIRECTION
- 100-YEAR OVERLAND OVERFLOW ROUTE
- DETENTION BASIN 100-YEAR EMERGENCY
- PROPOSED SWALE
- PROPOSED STORM SEWER
- PROPOSED STORM STRUCTURES
- PROPOSED SANITARY MANHOLE
- PROPOSED STORM/SANITARY CLEANOUT
- PROPOSED WATER STRUCTURES
- PROPOSED LIGHT POLES
- PROPOSED TRANSFORMER PAD

GENERAL PLAN NOTES

REFER TO GENERAL NOTES SHEET FOR MORE INFORMATION INCLUDING THE FOLLOWING: (EXISTING LEGEND, BENCHMARK INFORMATION, AND SPECIFIC GENERAL PLAN NOTES.)

Kimley»Horn

©2024 KIMLEY-HORN AND ASSOCIATES, INC.
500 EAST 96TH STREET, SUITE 300,
INDIANAPOLIS, IN 46240
PHONE: 317-218-9560
WWW.KIMLEY-HORN.COM
KHA PROJECT # 170509000



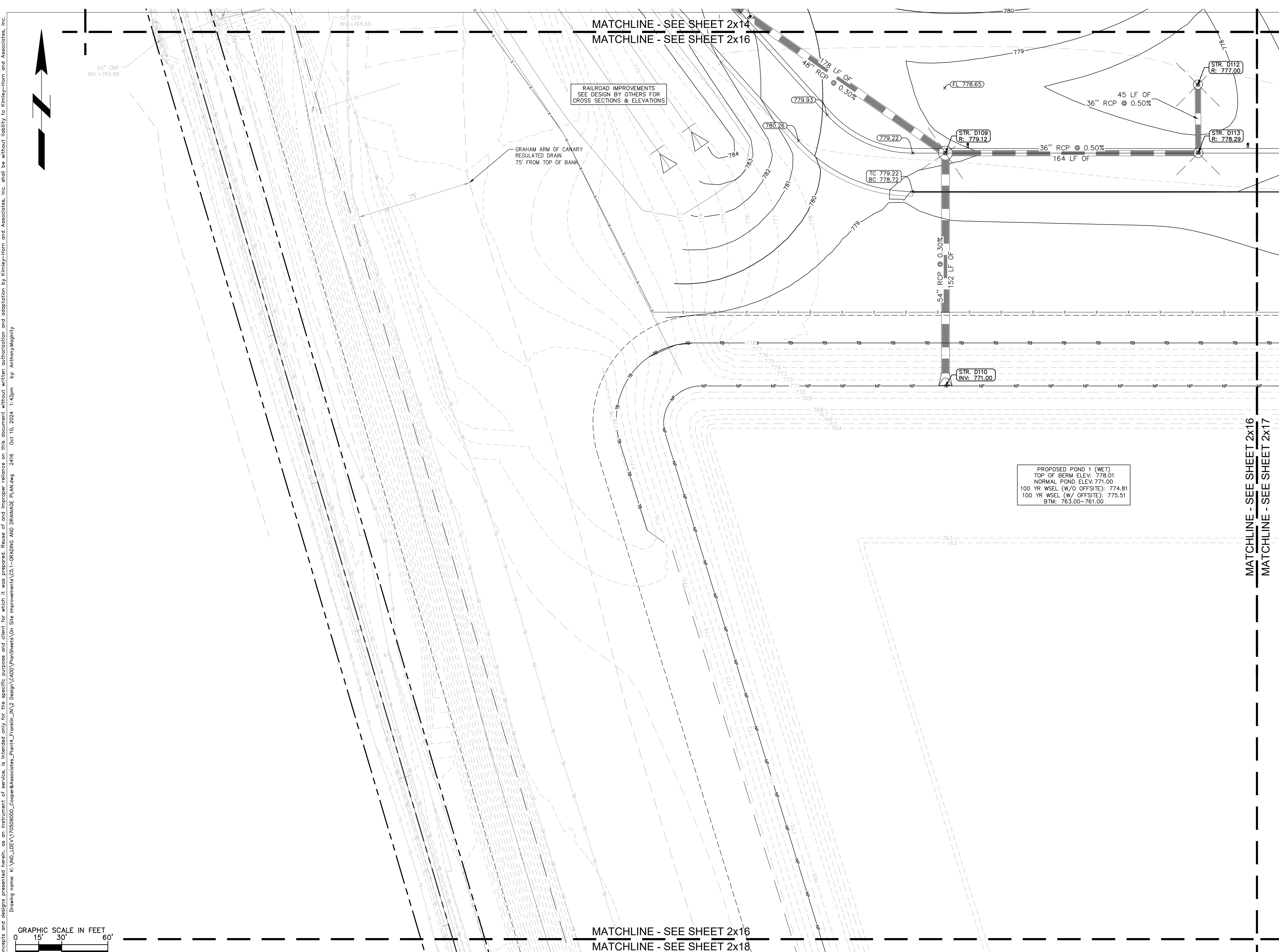
MALARKEY,IND FRANKLIN,IN

PROJ. NO.
170509000

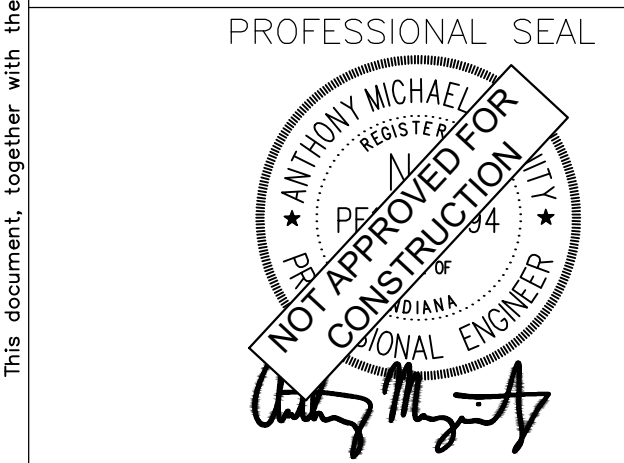
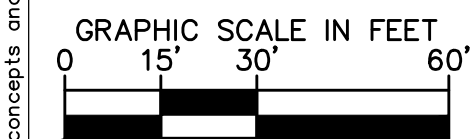
DWG. NO.
2416

TITLE- PHASE 2 - FINAL BUILDOUT
GRADING AND DRAINAGE PLAN

SHEET
REV 0



PROPOSED POND 1 (WET)
TOP OF BERM ELEV: 778.01
NORMAL POND ELEV: 771.00
100 YR WSEL (W/O OFFSITE): 774.81
100 YR WSEL (W/ OFFSITE): 775.51
BTM: 763.00-761.00



NOTICE
THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.

DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

Quad Plus
Cooper & Associates, LLC

Engineers - Project Managers
2200 Ellis Road, New Lenox, Illinois, 60451
Ph. (844) 251-7823 www.quadplus.com

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND_DEV\170509000_Cooper&Associates_PlantA_Sheets\01-GRADING AND DRAINAGE PLANS.dwg 2416 Oct 10, 2024 1:42pm By: AnthonyMajesty



GRADING LEGEND

- XXX.XX FINISHED GRADE SPOT ELEVATION
- TC XXX.XX TOP OF CURB / BOTTOM OF CURB SPOT ELEVATION
- FL XXX.XX FLOW LINE SPOT ELEVATION
- ME XXX.XX MATCH EXISTING SPOT ELEVATION
- FF XXX.XX FINISHED FLOOR SPOT ELEVATION
- FG XXX.XX FINISHED GRADE NEAR BUILDING SPOT ELEVATION
- TW XXX.XX TOP OF WALL SPOT ELEVATION
- BW XXX.XX BOTTOM OF WALL SPOT ELEVATION
- R XXX.XX RIM ELEVATION
- STR XX R XXX.XX STRUCTURE ID & RIM ELEVATION
- STR XX INV XXX.XX STRUCTURE ID & INVERT ELEVATION
- 620 PROPOSED CONTOUR
- RIDGE LINE
- XXX% SLOPE AND FLOW DIRECTION
- 100-YEAR OVERLAND OVERFLOW ROUTE
- DETENTION BASIN 100-YEAR EMERGENCY
- PROPOSED SWALE
- PROPOSED STORM SEWER
- PROPOSED STORM STRUCTURES
- PROPOSED SANITARY MANHOLE
- PROPOSED STORM/SANITARY CLEANOUT
- PROPOSED WATER STRUCTURES
- PROPOSED LIGHT POLES
- PROPOSED TRANSFORMER PAD

GENERAL PLAN NOTES

REFER TO GENERAL NOTES SHEET FOR MORE INFORMATION INCLUDING THE FOLLOWING: (EXISTING LEGEND, BENCHMARK INFORMATION, AND SPECIFIC GENERAL PLAN NOTES.)

Kimley»Horn

©2024 KIMLEY-HORN AND ASSOCIATES, INC.
 500 EAST 96TH STREET, SUITE 300,
 INDIANAPOLIS, IN 46240
 PHONE: 317-218-9560
 WWW.KIMLEY-HORN.COM
 KHA PROJECT # 170509000



MALARKEY,IND FRANKLIN,IN

PROJ. NO.
170509000

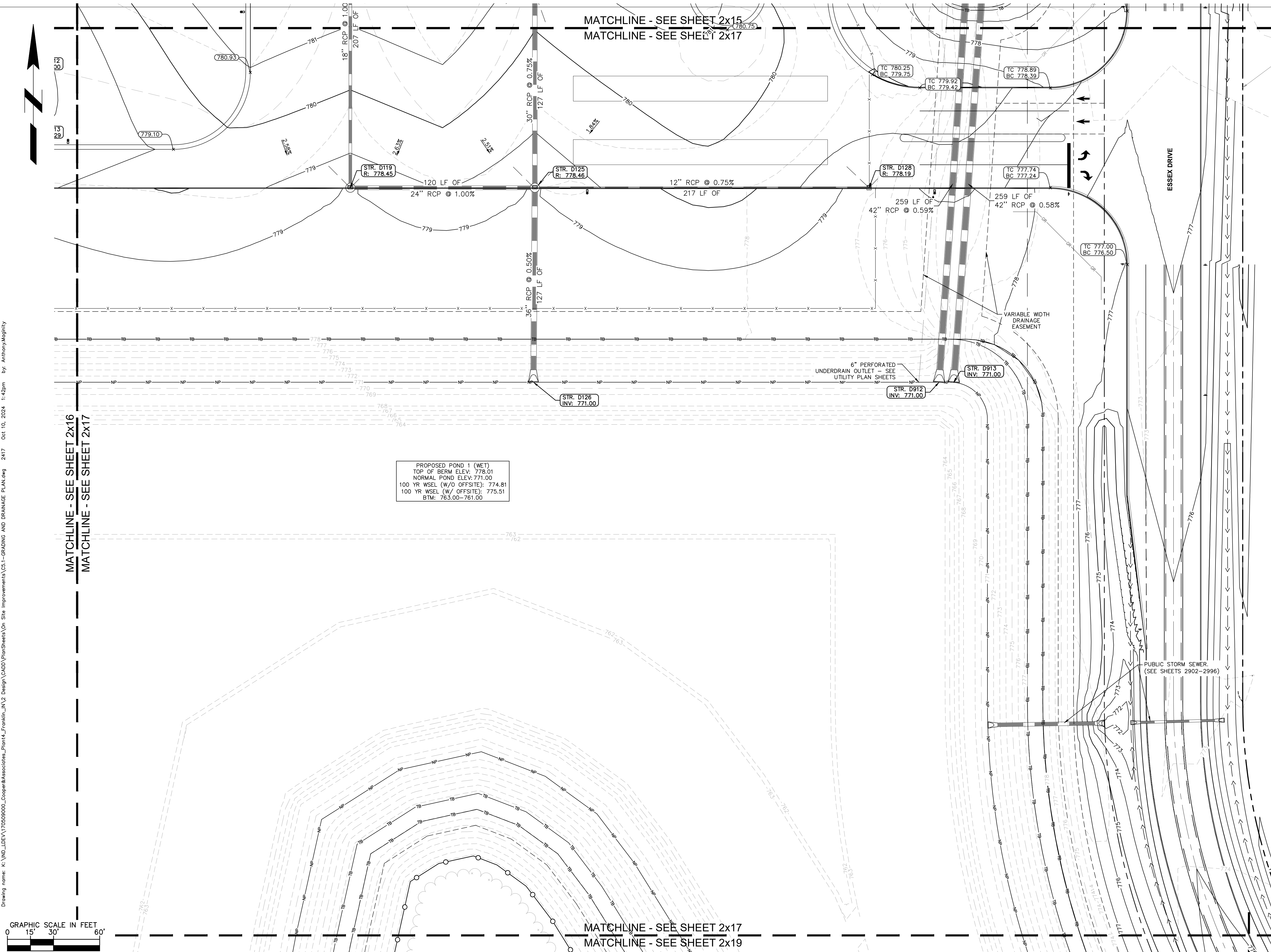
DWG. NO.
2417

SHEET
0

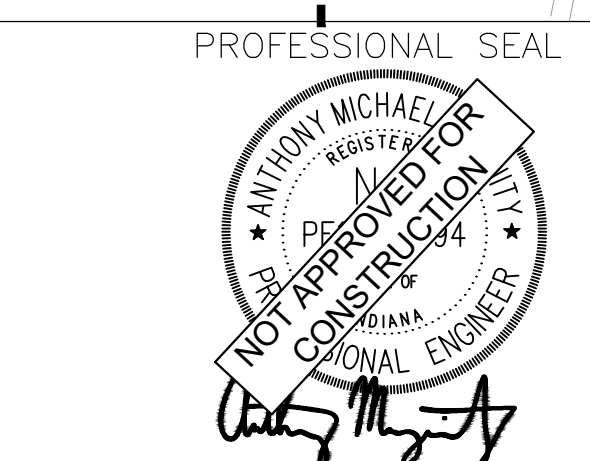
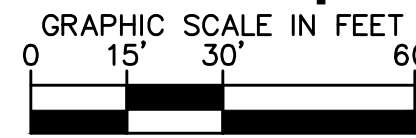
TITLE— PHASE 2 — FINAL BUILDOUT
 GRADING AND DRAINAGE PLAN



Engineers — Project Managers
 2200 Ellis Road, New Lenox, Illinois, 60451
 Ph. (844) 251-7823 www.quadplus.com



PROPOSED POND 1 (WET)
 TOP OF BERM ELEV: 778.01
 NORMAL POND ELEV: 771.00
 100 YR WSEL (W/O OFFSITE): 774.81
 100 YR WSEL (W/ OFFSITE): 775.51
 BTM: 763.00-761.00



NOTICE
 THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.

DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND\DEV\170509000_Cooper&Associates_Plant1_NI_V2_Design\CD\00\PlanSheets\04_Site Improvements\051-GRADING AND DRAINAGE PLANNING_2417 Oct 10, 2024 1:42pm By: AnthonyMagnity



MATCHLINE - SEE SHEET 2x16
 MATCHLINE - SEE SHEET 2x18

PROPOSED POND 1 (WET)
 TOP OF BERM ELEV: 778.01
 NORMAL POND ELEV: 771.00
 100 YR WSEL (W/O OFFSITE): 774.81
 100 YR WSEL (W/ OFFSITE): 775.51
 BTM: 763.00-761.00

OUTFALL PIPE CONSTRUCTED BY
 MASS GRADING PHASE
 CONTRACTOR TO FIELD VERIFY

GRAHAM ARM OF CANARY
 REGULATED DRAIN
 75' FROM TOP OF BANK

APPARENT 20'
 RAILROAD R/W
 PER LOUISVILLE & INDIANA RAILROAD RESEARCH

50.0' SETBACK, TYP.

MATCHLINE - SEE SHEET 2x18
 MATCHLINE - SEE SHEET 2x19

GRADING LEGEND

- FINISHED GRADE SPOT ELEVATION
- TOP OF CURB / BOTTOM OF CURB SPOT ELEVATION
- FLOW LINE SPOT ELEVATION
- MATCH EXISTING SPOT ELEVATION
- FINISHED FLOOR SPOT ELEVATION
- FINISHED GRADE NEAR BUILDING SPOT ELEVATION
- TOP OF WALL SPOT ELEVATION
- BOTTOM OF WALL SPOT ELEVATION
- RIM ELEVATION
- STRUCTURE ID & RIM ELEVATION
- STRUCTURE ID & INVERT ELEVATION
- PROPOSED CONTOUR
- RIDGE LINE
- SLOPE AND FLOW DIRECTION
- 100-YEAR OVERLAND OVERFLOW ROUTE
- DETENTION BASIN 100-YEAR EMERGENCY
- PROPOSED SWALE
- PROPOSED STORM SEWER
- PROPOSED STORM STRUCTURES
- PROPOSED SANITARY MANHOLE
- PROPOSED STORM/SANITARY CLEANOUT
- PROPOSED WATER STRUCTURES
- PROPOSED LIGHT POLES
- PROPOSED TRANSFORMER PAD

GENERAL PLAN NOTES

REFER TO GENERAL NOTES SHEET FOR MORE INFORMATION INCLUDING THE FOLLOWING: (EXISTING LEGEND, BENCHMARK INFORMATION, AND SPECIFIC GENERAL PLAN NOTES.)

Kimley»Horn

©2024 KIMLEY-HORN AND ASSOCIATES, INC.
 500 EAST 96TH STREET, SUITE 300,
 INDIANAPOLIS, IN 46240
 PHONE: 317-218-9560
 WWW.KIMLEY-HORN.COM
 KHA PROJECT # 170509000



MALARKEY,IND FRANKLIN,IN

PROJ. NO.
170509000

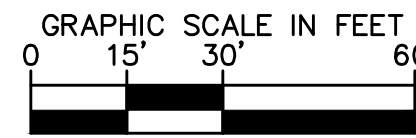
DWG. NO.
2418

TITLE - PHASE 2 - FINAL BUILDOUT
 GRADING AND DRAINAGE PLAN

SHEET
REV 0



Engineers - Project Managers
 2200 Ellis Road, New Lenox, Illinois, 60451
 Ph. (844) 251-7823 www.quadplus.com



PROFESSIONAL SEAL



NOTICE
 THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.

DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

SCALE: AS NOTED
 DRWN.: VG
 CHKD.: AMM
 APPD.:
 APPD.:
 DATE : 10/10/24

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND\DEV\170509000_Cooper&Associates_PlantA_Plans\IND_V2_Design\CADD\PlanSheets\Gr Site Improvements\21-GRADING AND DRAINAGE PLAN.dwg 2418 OCT 10, 2024 1:42pm By: AnthonyMajesty



MATCHLINE - SEE SHEET 2x17
 MATCHLINE - SEE SHEET 2x19

PROPOSED POND 1 (WET)
 TOP OF BERM ELEV: 778.01
 NORMAL POND ELEV: 771.00
 100 YR WSEL (W/O OFFSITE): 774.81
 100 YR WSEL (W/ OFFSITE): 775.51
 RIM: 763.00-761.00

EXISTING WETLANDS TO REMAIN
 UNDISTURBED DURING THE ENTIRE
 DURATION OF THE CONSTRUCTION

UTILITY EASEMENT PER
 INSTRUMENT NO. 2014-000430

EL: 772.82
 N: 1658244.41
 E: 215844.37

N88°40'48"E 1321.63'

200.0' U.E.

MATCHLINE - SEE SHEET 2x18
 MATCHLINE - SEE SHEET 2x19

MATCHLINE - SEE SHEET 2x19
 MATCHLINE - SEE SHEET 2x20

GRADING LEGEND

- XXX.XX FINISHED GRADE SPOT ELEVATION
- TC XXX.XX TOP OF CURB / BOTTOM OF CURB SPOT ELEVATION
- FL XXX.XX FLOW LINE SPOT ELEVATION
- ME XXX.XX MATCH EXISTING SPOT ELEVATION
- FF XXX.XX FINISHED FLOOR SPOT ELEVATION
- FG XXX.XX FINISHED GRADE NEAR BUILDING SPOT ELEVATION
- TW XXX.XX TOP OF WALL SPOT ELEVATION
- BW XXX.XX BOTTOM OF WALL SPOT ELEVATION
- R XXX.XX RIM ELEVATION
- STR XX R XXX.XX STRUCTURE ID & RIM ELEVATION
- STR XX INV XXX.XX STRUCTURE ID & INVERT ELEVATION
- 620 PROPOSED CONTOUR
- RIDGE LINE
- XXX% SLOPE AND FLOW DIRECTION
- 100-YEAR OVERLAND OVERFLOW ROUTE
- DETENTION BASIN 100-YEAR EMERGENCY
- PROPOSED SWALE
- PROPOSED STORM SEWER
- PROPOSED STORM STRUCTURES
- PROPOSED SANITARY MANHOLE
- PROPOSED STORM/SANITARY CLEANOUT
- PROPOSED WATER STRUCTURES
- PROPOSED LIGHT POLES
- PROPOSED TRANSFORMER PAD

GENERAL PLAN NOTES

REFER TO GENERAL NOTES SHEET FOR MORE INFORMATION INCLUDING THE FOLLOWING: (EXISTING LEGEND, BENCHMARK INFORMATION, AND SPECIFIC GENERAL PLAN NOTES.)

Kimley»Horn

©2024 KIMLEY-HORN AND ASSOCIATES, INC.
 500 EAST 96TH STREET, SUITE 300,
 INDIANAPOLIS, IN 46240
 PHONE: 317-218-9560
 WWW.KIMLEY-HORN.COM
 KHA PROJECT # 170509000



MALARKEY,IND FRANKLIN,IN

PROJ. NO.
170509000

DWG. NO.
2419

TITLE - PHASE 2 - FINAL BUILDOUT
 GRADING AND DRAINAGE PLAN

SHEET
REV 0



PROFESSIONAL SEAL



NOTICE
 THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.

DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

Quad Plus
 Cooper & Associates, LLC

Engineers - Project Managers
 2200 Ellis Road, New Lenox, Illinois, 60451
 Ph. (844) 251-7823 www.quadplus.com

SCALE: AS NOTED
 DRWN.: VG
 CHKD.: AMM
 APPD.:
 APPD.:
 DATE : 10/10/24

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND_DEV\170509000_Cooper&Associates_PlantA_Plans\IND Design\CD\03\PlanSheets\04 Site Improvements\051-GRADING AND DRAINAGE PLAN.dwg 2419 Oct 10, 2024 1:42pm By: AnthonyMagnity



GRADING LEGEND	
	FINISHED GRADE SPOT ELEVATION
	TOP OF CURB / BOTTOM OF CURB SPOT ELEVATION
	FLOW LINE SPOT ELEVATION
	MATCH EXISTING SPOT ELEVATION
	FINISHED FLOOR SPOT ELEVATION
	FINISHED GRADE NEAR BUILDING SPOT ELEVATION
	TOP OF WALL SPOT ELEVATION
	BOTTOM OF WALL SPOT ELEVATION
	RIM ELEVATION
	STRUCTURE ID & RIM ELEVATION
	STRUCTURE ID & INVERT ELEVATION
	PROPOSED CONTOUR
	RIDGE LINE
	SLOPE AND FLOW DIRECTION
	100-YEAR OVERLAND OVERFLOW ROUTE
	DETENTION BASIN 100-YEAR EMERGENCY
	PROPOSED SWALE
	PROPOSED STORM SEWER
	PROPOSED STORM STRUCTURES
	PROPOSED SANITARY MANHOLE
	PROPOSED STORM/SANITARY CLEANOUT
	PROPOSED WATER STRUCTURES
	PROPOSED LIGHT POLES
	PROPOSED TRANSFORMER PAD

GENERAL PLAN NOTES
 REFER TO GENERAL NOTES SHEET FOR MORE INFORMATION INCLUDING THE FOLLOWING: EXISTING LEGEND, BENCHMARK INFORMATION, AND SPECIFIC GENERAL PLAN NOTES.)

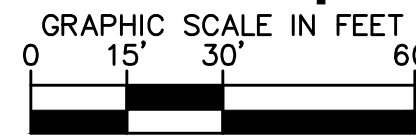
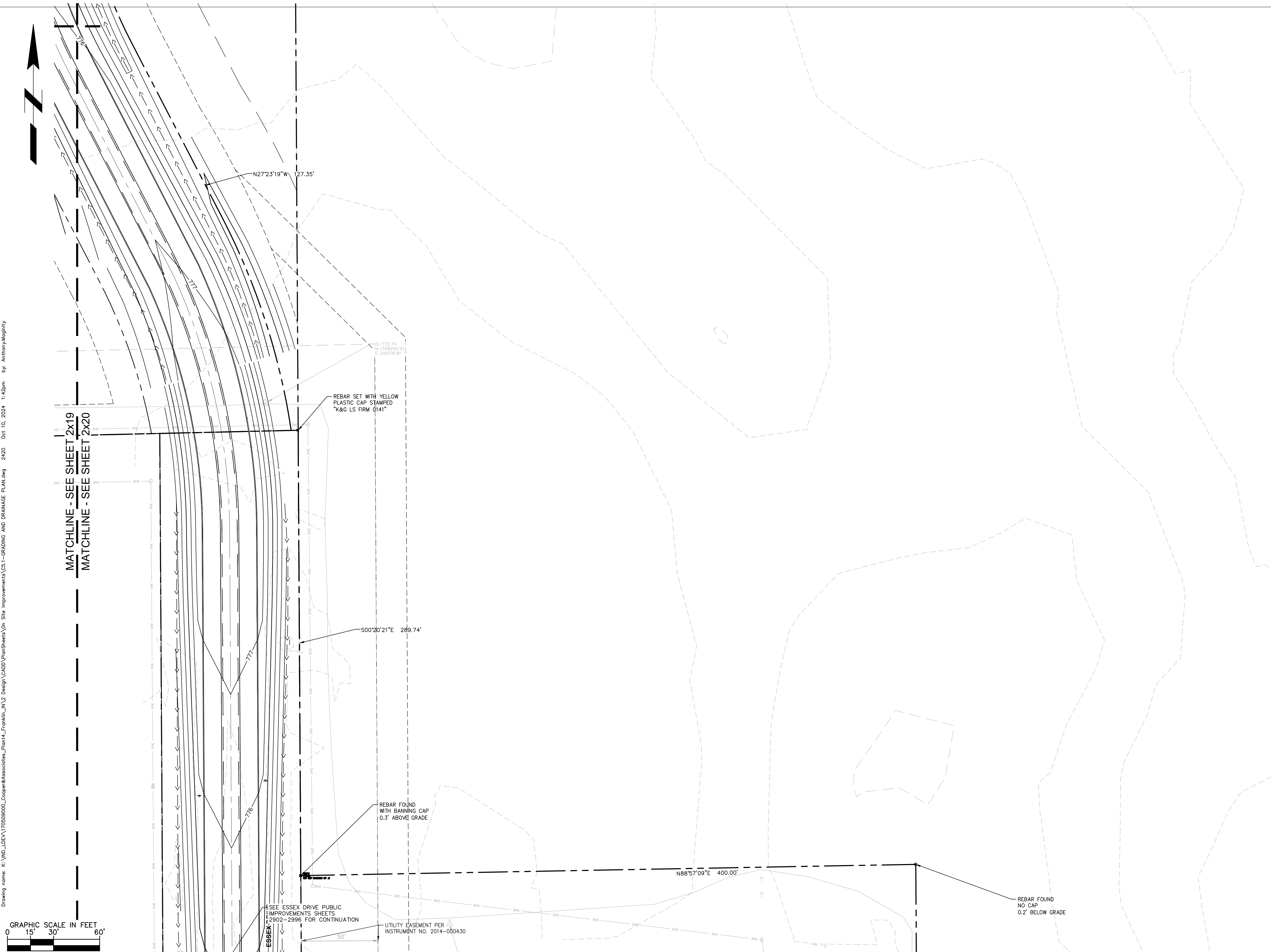
Kimley»Horn
 ©2024 KIMLEY-HORN AND ASSOCIATES, INC.
 500 EAST 96TH STREET, SUITE 300,
 INDIANAPOLIS, IN 46240
 PHONE: 317-218-9560
 WWW.KIMLEY-HORN.COM
 KHA PROJECT # 170509000



MALARKEY,IND	FRANKLIN,IN	PROJ. NO. 170509000
TITLE- PHASE 2 - FINAL BUILDOUT GRADING AND DRAINAGE PLAN		DWG. NO. 2420
SHEET	REV	0



Engineers - Project Managers
 2200 Ellis Road, New Lenox, Illinois, 60451
 Ph. (844) 251-7823 www.quadplus.com



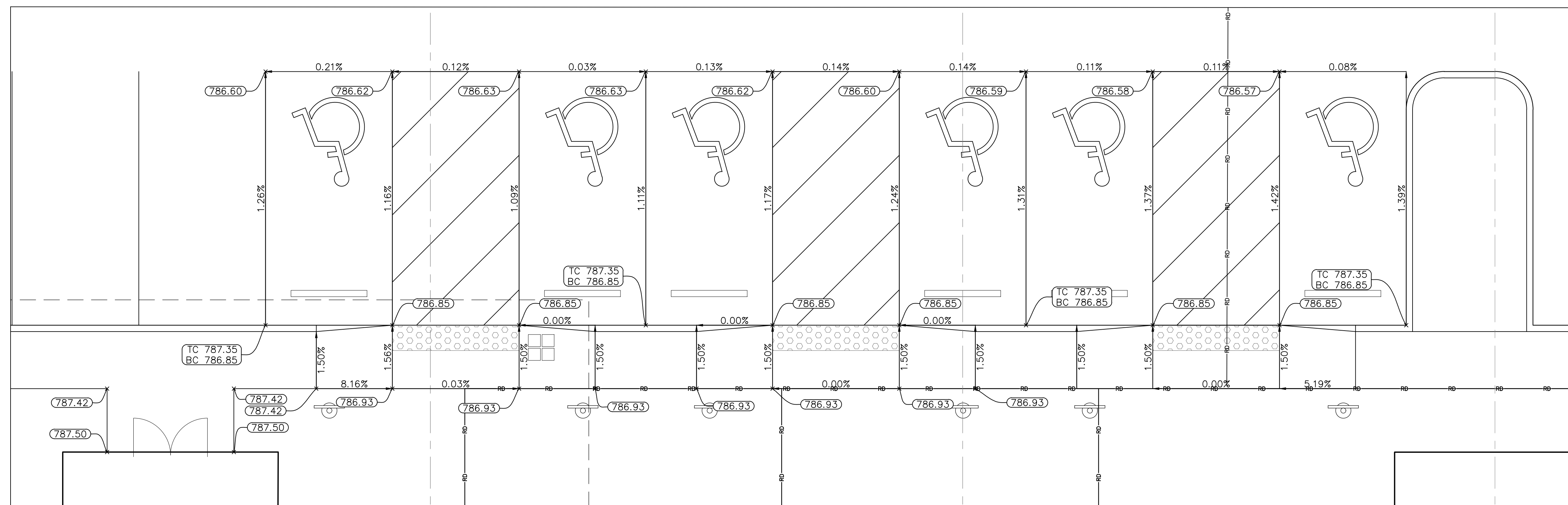
PROFESSIONAL SEAL

NOTICE
 THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.
 DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

SCALE: AS NOTED
 DRWN.: VG
 CHKD.: AMM
 APPD.:
 APPD.:
 DATE : 10/10/24

This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND\DEV\170509000_Cooper&Associates_PlantA_Franklin_IN\2 Design\CAD\DWG\PlanSheets\04 Site Improvements\051-GRADING AND DRAINAGE PLAN.dwg 2420 Oct 10, 2024 1:40pm by: AnthonyMRegister



ADA PARKING AND RAMP 1
1"=5'

GRADING LEGEND	
	FINISHED GRADE SPOT ELEVATION
	TOP OF CURB / BOTTOM OF CURB SPOT ELEVATION
	FLOW LINE SPOT ELEVATION
	MATCH EXISTING SPOT ELEVATION
	FINISHED FLOOR SPOT ELEVATION
	FINISHED GRADE NEAR BUILDING SPOT ELEVATION
	TOP OF WALL SPOT ELEVATION
	BOTTOM OF WALL SPOT ELEVATION
	RIM ELEVATION
	STRUCTURE ID & RIM ELEVATION
	STRUCTURE ID & INVERT ELEVATION
	PROPOSED CONTOUR
	620 RIDGE
	SLOPE AND FLOW DIRECTION
	100-YEAR OVERLAND OVERFLOW ROUTE
	DETENTION BASIN 100-YEAR EMERGENCY
	PROPOSED SWALE
	PROPOSED STORM SEWER
	PROPOSED STORM STRUCTURES
	PROPOSED SANITARY MANHOLE
	PROPOSED STORM/SANITARY CLEANOUT
	PROPOSED WATER STRUCTURES
	PROPOSED LIGHT POLES
	PROPOSED TRANSFORMER PAD

GENERAL PLAN NOTES

REFER TO GENERAL NOTES SHEET FOR MORE INFORMATION INCLUDING THE FOLLOWING: (EXISTING LEGEND, BENCHMARK INFORMATION, AND SPECIFIC GENERAL PLAN NOTES.)

Kimley»Horn

©2024 KIMLEY-HORN AND ASSOCIATES, INC.
500 EAST 96TH STREET, SUITE 300,
INDIANAPOLIS, IN 46240
PHONE: 317-218-9560
WWW.KIMLEY-HORN.COM
KHA PROJECT # 170509000



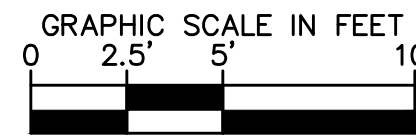
MALARKEY,IND FRANKLIN,IN

PROJ. NO.
170509000

DWG. NO.
2421

TITLE- PHASE 2 - FINAL BUILDOUT
ADA DETAIL GRADING PLAN

SHEET
REV 0



PROFESSIONAL SEAL



NOTICE
THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.
DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

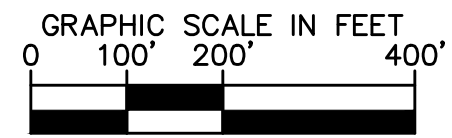
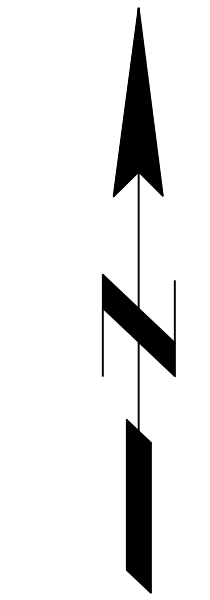
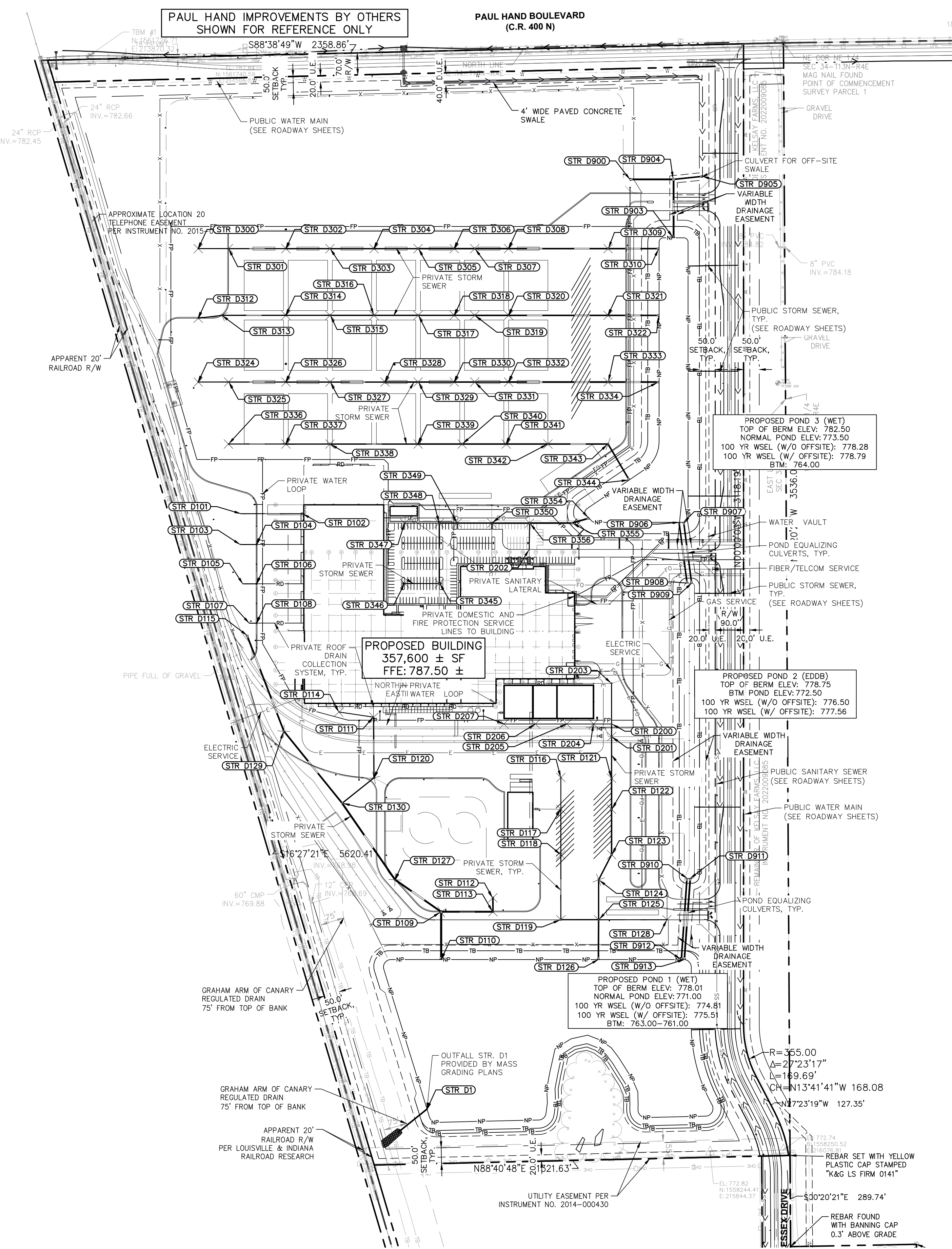
Quad Plus
Cooper & Associates, LLC
Engineers - Project Managers
2200 Ellis Road, New Lenox, Illinois, 60451
Ph. (844) 251-7823 www.quadplus.com

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND\DEV\170509000_Cooper&Associates_PlantA_Framin_IN\2 Design\CADD\PlanSheets\On Site Improvements\31-ADA DETAILS.dwg 2421 Oct 10, 2024 1:43pm By: AnthonyMajumdar



UTILITY LEGEND

- Proposed Underground Electric Line
Proposed Gas Line (By Gas Company)
Proposed Phone Line
Proposed Roof Drain Line
Proposed Underdrain
Proposed Swale
Proposed Storm Sewer Line
Structure ID
Proposed Storm Structures
Proposed Sanitary Sewer Line
Proposed Sanitary Lateral Line
Proposed Sanitary Manhole
Proposed Storm/Sanitary Cleanout
Proposed Water Line
Proposed Fire Protection Line
Proposed Water Valve Box, Piv, Meter, Fire Hydrant, Fire Dept Conn. & Vault
Proposed Water Bends & Tee
Proposed Light Pole
Proposed Transformer Pad (By Others)



GENERAL PLAN NOTES

REFER TO GENERAL NOTES SHEET FOR MORE INFORMATION INCLUDING THE FOLLOWING: (EXISTING LEGEND, BENCHMARK INFORMATION, AND SPECIFIC GENERAL PLAN NOTES.)

Kimley-Horn logo and contact information: 2024 KIMLEY-HORN AND ASSOCIATES, INC. 500 EAST 96TH STREET, SUITE 300, INDIANAPOLIS, IN 46240

PROFESSIONAL SEAL and NOTICE section with text: THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC

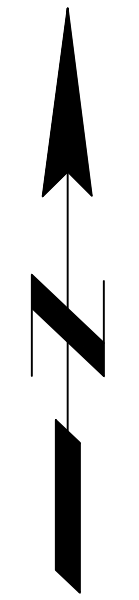
Table with 8 columns: REV, DESCRIPTION, DATE, IS, BY, REV, DESCRIPTION, DATE. Includes a row for SCALE: AS NOTED and DATE: 10/10/24

Quad Plus logo and contact information: Engineers - Project Managers 2200 Ellis Road, New Lenox, Illinois, 60451

Malarkey Roofing Products logo and project information: PROJ. NO. 170509000, DWG. NO. 2500, SHEET 0

Vertical text on the left edge: This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared.

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND_DEV\170509000_Cooper&Associates_Plant\IND_Site_Improvements\81-Utility_Plan.dwg 2501 Oct 10, 2024 1:44pm By: AnthonyMogity



- CITY OF FRANKLIN FIRE DEPARTMENT NOTES:
1. THE FIRE DEPARTMENT CONNECTION (FDC) SHALL BE LOCATED OUTSIDE THE COLLAPSE ZONE.
 2. A SERVING HYDRANT SHALL BE LOCATED WITHIN 20' OF THE FDC AND THE FIRE TRUCK ACCESS.
 3. FDC SHALL HAVE A STORZ CONNECTION WITH A 30' DOWN TURN.
 4. IDENTIFICATION SIGNAGES ARE REQUIRED FOR FDC AND PIV.
 5. ALL HYDRANTS ARE TO BE YELLOW IF PUBLIC, RED IF PRIVATE WITH THE TOP CAP COLOR CODED TO SHOW WATER FLOW. 1500 GPM = BLUE, 1000-1499 GPM = GREEN, 500-999 GPM = ORANGE.



UTILITY LEGEND

	PROPOSED UNDERGROUND ELECTRIC LINE
	PROPOSED GAS LINE (BY GAS COMPANY)
	PROPOSED PHONE LINE
	PROPOSED ROOF DRAIN LINE
	PROPOSED UNDERDRAIN
	PROPOSED SWALE
	PROPOSED STORM SEWER LINE
	STRUCTURE ID
	PROPOSED STORM STRUCTURES
	PROPOSED SANITARY SEWER LINE
	PROPOSED SANITARY LATERAL LINE
	PROPOSED SANITARY MANHOLE
	PROPOSED STORM/SANITARY CLEANOUT
	PROPOSED WATER LINE
	PROPOSED FIRE PROTECTION LINE
	PROPOSED WATER VALVE BOX, PIV, METER FIRE HYDRANT, FIRE DEPT CONN. & VAULT
	PROPOSED WATER BENDS & TEE
	PROPOSED LIGHT POLE
	PROPOSED TRANSFORMER PAD (BY OTHERS)

KEY NOTES

(D) DRAINAGE, STORM, SEWER

- D1. ROOF DRAIN CLEANOUT
- D2. 12" PVC ROOF DRAIN LINE
- D3. CONNECT ROOF DRAIN TO STRUCTURE
- D4. 4" HDPE PERFORATED SPIDER DRAIN (SEE DETAILS)
- D5. 18" PVC ROOF DRAIN LINE
- D6. 8" PVC ROOF DRAIN LINE
- D7. 6" PVC STORM CLEANOUT
- D8. 6" PVC PERFORATED UNDERDRAIN (SEE DETAILS) - RODENT GUARD AT ALL POND OUTLETS

(S) SANITARY SEWER

- S1. SANITARY CLEANOUT
- S2. 6" PVC SDR 26 LATERAL LINE @ MIN. 1.04%
- S3. 8" PVC SDR 26 LATERAL LINE @ MIN. 1.04%
- S4. CONNECT TO PUBLIC SANITARY MAIN (SEE ROADWAY SHEETS)
- S5. OIL SEPARATOR (SEE MEP PLANS FOR MORE DETAILS)

(W) WATER LINE

- W1. FIRE HYDRANT AND VALVE ASSEMBLY ON 6" HYDRANT LEAD
- W2. WATER TEE
- W3. WATER BEND
- W4. WATER VAULT PER INAW REQUIREMENTS (SEE DETAILS)
- W5. DUAL METER PITS PER INAW REQUIREMENTS (SEE DETAILS)
- W6. FIRE DEPT CONNECTION (FDC) WITH 6" LEAD & IDENTIFICATION SIGN
- W7. POST INDICATOR VALVE (PIV) WITH IDENTIFICATION SIGN (INSIDE VAULT)
- W8. CONNECT TO PUBLIC WATER MAIN (LIVE TAP-SEE ROADWAY SHEETS)
- W9. 10" C900 PVC FIRE PROTECTION LINE
- W10. TEMPORARY FIRE HYDRANT
- W11. WATER VALVE
- W12. REDUCER
- W13. 10" C900 PVC WATER MAIN
- W14. 6" C900 PVC DOMESTIC WATER LINE
- W15. 1.5" IRRIGATION SERVICE AND METER

(G) GAS LINE

- G1. GAS SERVICE LINE

(E) ELECTRIC / TELEPHONE / CABLE

- E1. ELECTRIC SERVICE LINE
- E2. ELECTRIC TRANSFORMER
- E3. FIBER/TELECOMMUNICATIONS LINE

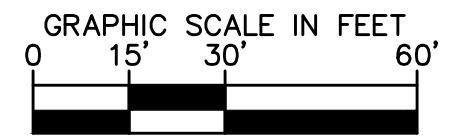
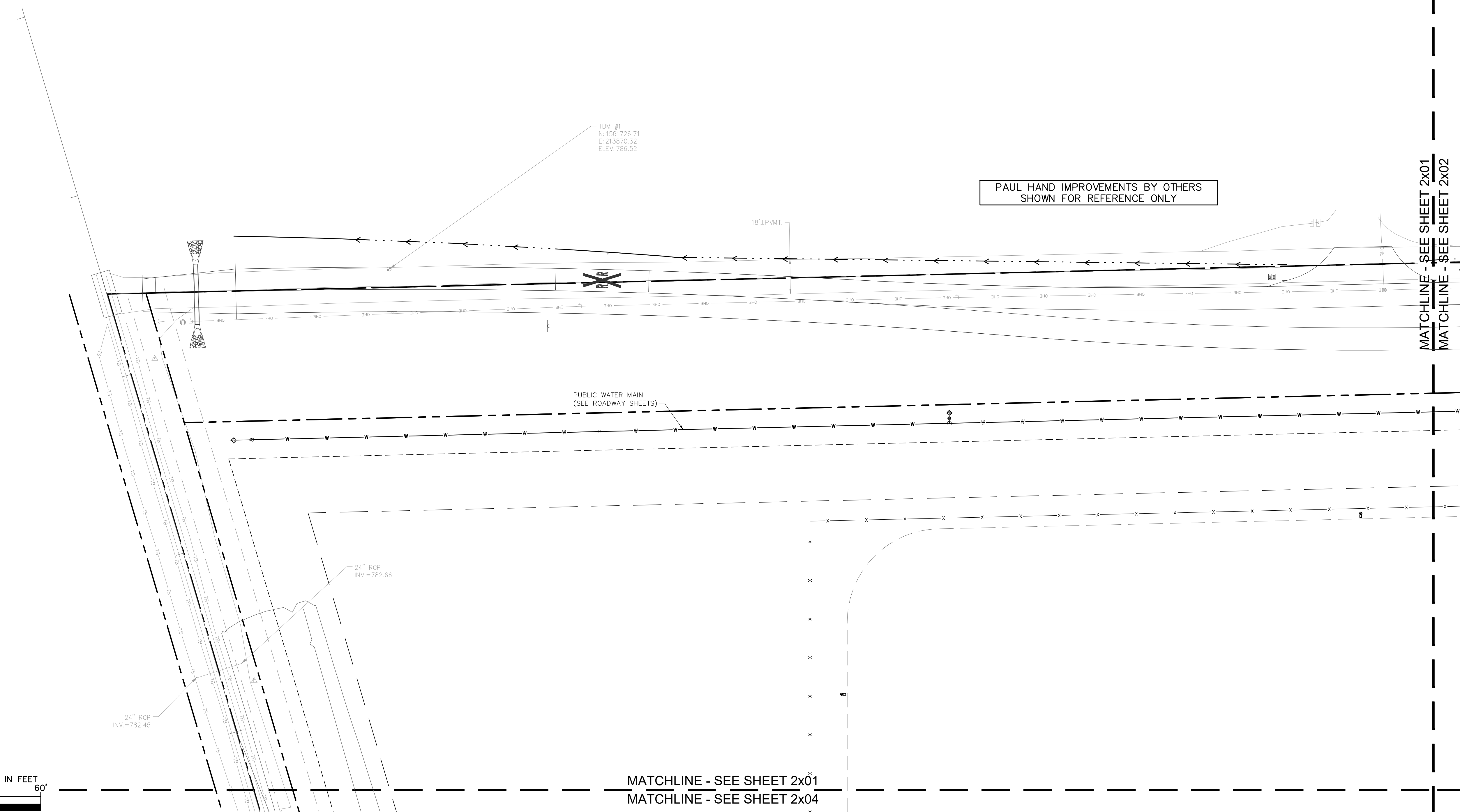
(M) MISCELLANEOUS

- M1. CONTRACTOR TO COORDINATE CONNECTION WITH UTILITY PROVIDER.
- M2. CONTRACTOR TO FIELD VERIFY LOCATION, DEPTH AND SIZE OF EXISTING UTILITY TO ENSURE CONFLICTS DO NOT EXIST WITH PROPOSED UTILITIES.
- M3. POTENTIAL UTILITY CONFLICT. ALL (WATER, SANITARY, DRAINAGE, STORM) CROSSINGS TO HAVE 18" MIN. VERTICAL CLEARANCE. ALL WATER SERVICE LINES TO REMAIN PERPENDICULAR AT CROSSING IN SUCH THAT IT FORMS AN ANGLE BETWEEN 45° AND 90°.

NOTE: CONTRACTOR TO VERIFY WATER, SANITARY, GAS, & ETC LOCATIONS, SIZES AND TYPES WITH MEP PLANS PRIOR TO ORDERING MATERIALS.

GENERAL PLAN NOTES

REFER TO GENERAL NOTES SHEET FOR MORE INFORMATION INCLUDING THE FOLLOWING: EXISTING LEGEND, BENCHMARK INFORMATION, AND SPECIFIC GENERAL PLAN NOTES.



PROFESSIONAL SEAL

NOTICE
 THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.

DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

Quad Plus
 Cooper & Associates, LLC

Engineers - Project Managers
 2200 Ellis Road, New Lenox, Illinois, 60451
 Ph. (844) 251-7823 www.quadplus.com

Kimley-Horn
 2024 KIMLEY-HORN AND ASSOCIATES, INC.
 500 EAST 96TH STREET, SUITE 300,
 INDIANAPOLIS, IN 46240
 PHONE: 317-218-9560
 WWW.KIMLEY-HORN.COM
 KHA PROJECT # 170509000

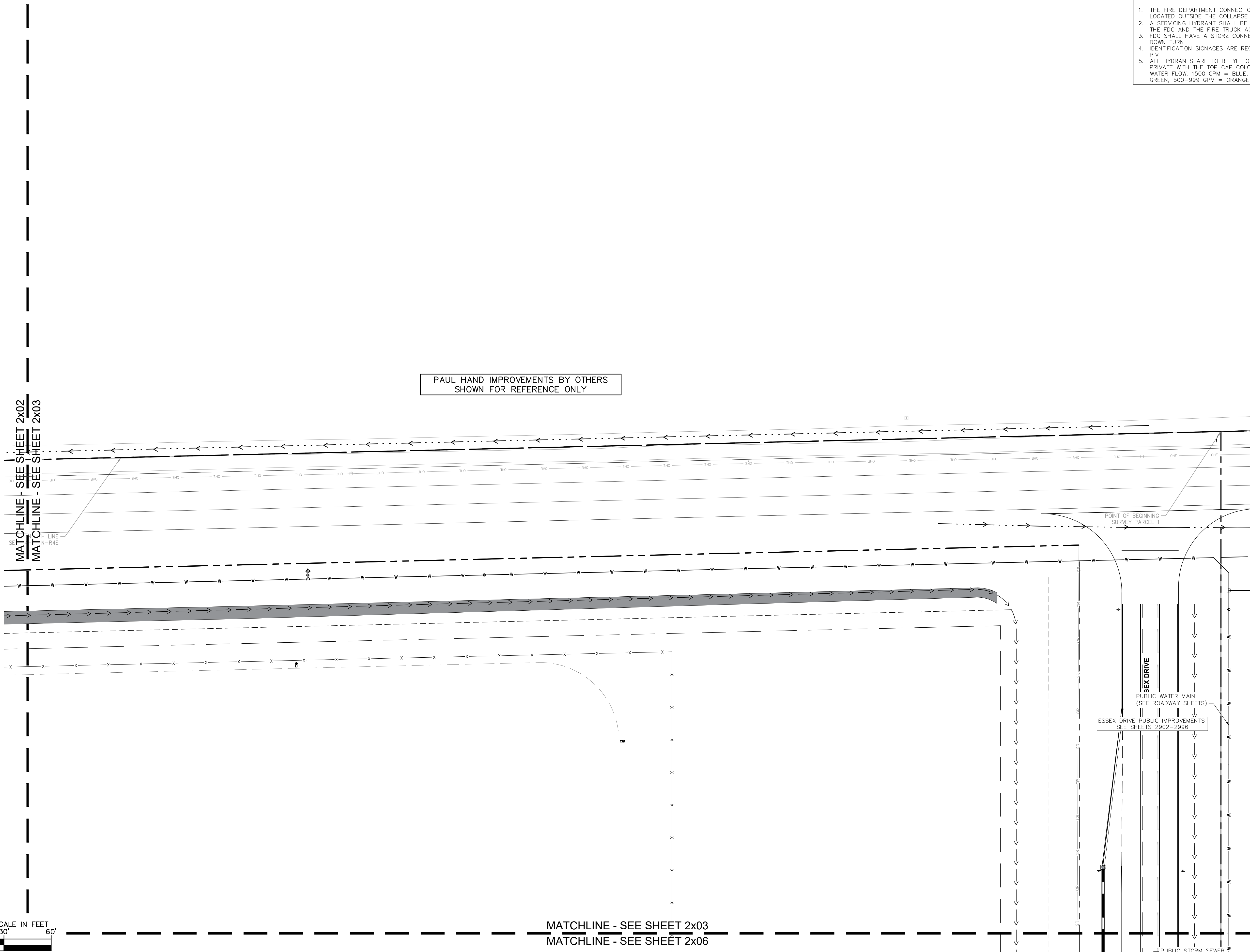
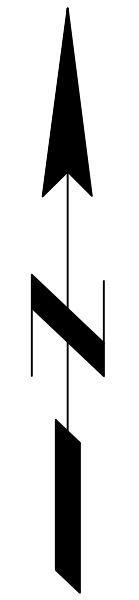
Malarkey Roofing Products

MALARKEY,IND FRANKLIN,IN

PHASE 2 - FINAL BUILDOUT
 UTILITY PLAN

PROJ. NO.	170509000
DWG. NO.	2501
SHEET	0
REV	0

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND_DEV\170509000_Cooper&Associates_Plant_NJ_Site_Improvements\01-UTILITY_Plan.dwg 2503 Oct 10, 2024 1:46pm By: AnthonyMagluta



- CITY OF FRANKLIN FIRE DEPARTMENT NOTES:
1. THE FIRE DEPARTMENT CONNECTION (FDC) SHALL BE LOCATED OUTSIDE THE COLLAPSE ZONE.
 2. A SERVICING HYDRANT SHALL BE LOCATED WITHIN 20' OF THE FDC AND THE FIRE TRUCK ACCESS.
 3. FDC SHALL HAVE A STORZ CONNECTION WITH A 30' DOWN TURN.
 4. IDENTIFICATION SIGNAGES ARE REQUIRED FOR FDC AND PIV.
 5. ALL HYDRANTS ARE TO BE YELLOW IF PUBLIC, RED IF PRIVATE WITH THE TOP CAP COLOR CODED TO SHOW WATER FLOW. 1500 GPM = BLUE, 1000-1499 GPM = GREEN, 500-999 GPM = ORANGE.

Indiana Utilities Protection Service
Call 811
 before you dig

UTILITY LEGEND

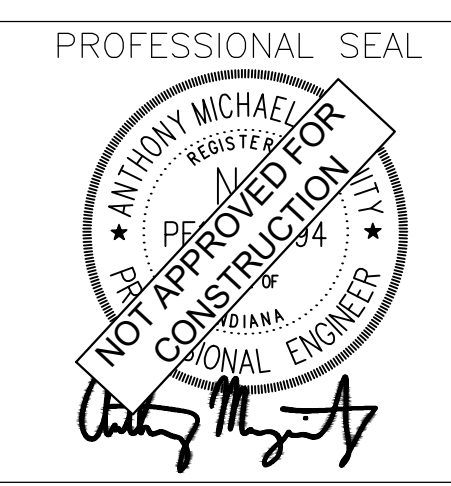
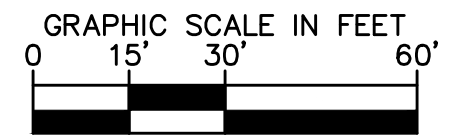
	PROPOSED UNDERGROUND ELECTRIC LINE
	PROPOSED GAS LINE (BY GAS COMPANY)
	PROPOSED PHONE LINE
	PROPOSED ROOF DRAIN LINE
	PROPOSED UNDERDRAIN
	PROPOSED SWALE
	PROPOSED STORM SEWER LINE
	STRUCTURE ID
	PROPOSED STORM STRUCTURES
	PROPOSED SANITARY SEWER LINE
	PROPOSED SANITARY LATERAL LINE
	PROPOSED SANITARY MANHOLE
	PROPOSED STORM/SANITARY CLEANOUT
	PROPOSED WATER LINE
	PROPOSED FIRE PROTECTION LINE
	PROPOSED WATER VALVE BOX, PIV, METER
	PROPOSED FIRE HYDRANT, FIRE DEPT CONN. & VAULT
	PROPOSED WATER BENDS & TEE
	PROPOSED LIGHT POLE
	PROPOSED TRANSFORMER PAD (BY OTHERS)

- ### KEY NOTES
- (D) DRAINAGE, STORM, SEWER
- D1. ROOF DRAIN CLEANOUT
 - D2. 12" PVC ROOF DRAIN LINE
 - D3. CONNECT ROOF DRAIN TO STRUCTURE
 - D4. 4" HDPE PERFORATED SPIDER DRAIN (SEE DETAILS)
 - D5. 18" PVC ROOF DRAIN LINE
 - D6. 8" PVC ROOF DRAIN LINE
 - D7. 6" PVC STORM CLEANOUT
 - D8. 6" PVC PERFORATED UNDERDRAIN (SEE DETAILS) - RODENT GUARD AT ALL POND OUTLETS
- (S) SANITARY SEWER
- S1. SANITARY CLEANOUT
 - S2. 6" PVC SDR 26 LATERAL LINE @ MIN. 1.04%
 - S3. 8" PVC SDR 26 LATERAL LINE @ MIN. 1.04%
 - S4. CONNECT TO PUBLIC SANITARY MAIN (SEE ROADWAY SHEETS)
 - S5. OIL SEPARATOR (SEE MEP PLANS FOR MORE DETAILS)
- (W) WATER LINE
- W1. FIRE HYDRANT AND VALVE ASSEMBLY ON 6" HYDRANT LEAD
 - W2. WATER TEE
 - W3. WATER BEND
 - W4. WATER VAULT PER INAW REQUIREMENTS (SEE DETAILS)
 - W5. DUAL METER PITS PER INAW REQUIREMENTS (SEE DETAILS)
 - W6. FIRE DEPT CONNECTION (FDC) WITH 6" LEAD & IDENTIFICATION SIGN
 - W7. POST INDICATOR VALVE (PIV) WITH IDENTIFICATION SIGN (INSIDE VAULT)
 - W8. CONNECT TO PUBLIC WATER MAIN (LIVE TAP-SEE ROADWAY SHEETS)
 - W9. 10" C900 PVC FIRE PROTECTION LINE
 - W10. TEMPORARY FIRE HYDRANT
 - W11. WATER VALVE
 - W12. REDUCER
 - W13. 10" C900 PVC WATER MAIN
 - W14. 6" C900 PVC DOMESTIC WATER LINE
 - W15. 1.5" IRRIGATION SERVICE AND METER
- (G) GAS LINE
- G1. GAS SERVICE LINE
- (E) ELECTRIC / TELEPHONE / CABLE
- E1. ELECTRIC SERVICE LINE
 - E2. ELECTRIC TRANSFORMER
 - E3. FIBER/TELECOMMUNICATIONS LINE
- (M) MISCELLANEOUS
- M1. CONTRACTOR TO COORDINATE CONNECTION WITH UTILITY PROVIDER.
 - M2. CONTRACTOR TO FIELD VERIFY LOCATION, DEPTH AND SIZE OF EXISTING UTILITY TO ENSURE CONFLICTS DO NOT EXIST WITH PROPOSED UTILITIES.
 - M3. POTENTIAL UTILITY CONFLICT. ALL (WATER, SANITARY, DRAINAGE, STORM) CROSSINGS TO HAVE 18" MIN. VERTICAL CLEARANCE. ALL WATER SERVICE LINES TO REMAIN PERPENDICULAR AT CROSSING IN SUCH THAT IT FORMS AN ANGLE BETWEEN 45° AND 90°.
- NOTE: CONTRACTOR TO VERIFY WATER, SANITARY, GAS, & ETC LOCATIONS, SIZES AND TYPES WITH MEP PLANS PRIOR TO ORDERING MATERIALS.

GENERAL PLAN NOTES

REFER TO GENERAL NOTES SHEET FOR MORE INFORMATION INCLUDING THE FOLLOWING: EXISTING LEGEND, BENCHMARK INFORMATION, AND SPECIFIC GENERAL PLAN NOTES.

Kimley»Horn
 ©2024 KIMLEY-HORN AND ASSOCIATES, INC.
 500 EAST 96TH STREET, SUITE 300,
 INDIANAPOLIS, IN 46240
 PHONE: 317-218-9560
 WWW.KIMLEY-HORN.COM
 KHA PROJECT # 170509000



NOTICE
 THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.

DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

Quad Plus
 Cooper & Associates, LLC
 Engineers - Project Managers
 2200 Ellis Road, New Lenox, Illinois, 60451
 Ph. (844) 251-7823 www.quadplus.com

Malarkey Roofing Products
 MALARKEY,IND FRANKLIN,IN
 PHASE 2 - FINAL BUILDOUT
 UTILITY PLAN

PROJ. NO.	170509000
DWG. NO.	2503
SHEET	0
REV	0

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND_DEV\170509000_Cooper&Associates_Plant_FRANKLIN_IN\2 Design\CD\00\PlanSheets\04_Site Improvements\04-1-UTILITY_Plan.dwg 2505 Oct 10, 2024 11:46am By: AnthonyMagly

MATCHLINE - SEE SHEET 2x02
 MATCHLINE - SEE SHEET 2x05

- CITY OF FRANKLIN FIRE DEPARTMENT NOTES:
1. THE FIRE DEPARTMENT CONNECTION (FDC) SHALL BE LOCATED OUTSIDE THE COLLAPSE ZONE.
 2. A SERVICING HYDRANT SHALL BE LOCATED WITHIN 20' OF THE FDC AND THE FIRE TRUCK ACCESS.
 3. FDC SHALL HAVE A STORZ CONNECTION WITH A 30' DOWN TURN.
 4. IDENTIFICATION SIGNAGES ARE REQUIRED FOR FDC AND PIV.
 5. ALL HYDRANTS ARE TO BE YELLOW IF PUBLIC, RED IF PRIVATE WITH THE TOP CAP COLOR CODED TO SHOW WATER FLOW. 1500 GPM = BLUE, 1000-1499 GPM = GREEN, 500-999 GPM = ORANGE.

Indiana Utilities Protection Service



UTILITY LEGEND

	PROPOSED UNDERGROUND ELECTRIC LINE
	PROPOSED GAS LINE (BY GAS COMPANY)
	PROPOSED PHONE LINE
	PROPOSED ROOF DRAIN LINE
	PROPOSED UNDERDRAIN
	PROPOSED SWALE
	PROPOSED STORM SEWER LINE
	STRUCTURE ID
	PROPOSED STORM STRUCTURES
	PROPOSED SANITARY SEWER LINE
	PROPOSED SANITARY LATERAL LINE
	PROPOSED SANITARY MANHOLE
	PROPOSED STORM/SANITARY CLEANOUT
	PROPOSED WATER LINE
	PROPOSED FIRE PROTECTION LINE
	PROPOSED WATER VALVE BOX, PIV, METER FIRE HYDRANT, FIRE DEPT CONN. & VAULT
	PROPOSED WATER BENDS & TEE
	PROPOSED LIGHT POLE
	PROPOSED TRANSFORMER PAD (BY OTHERS)

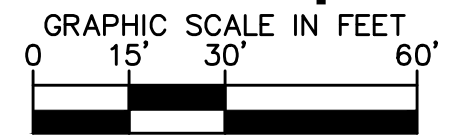
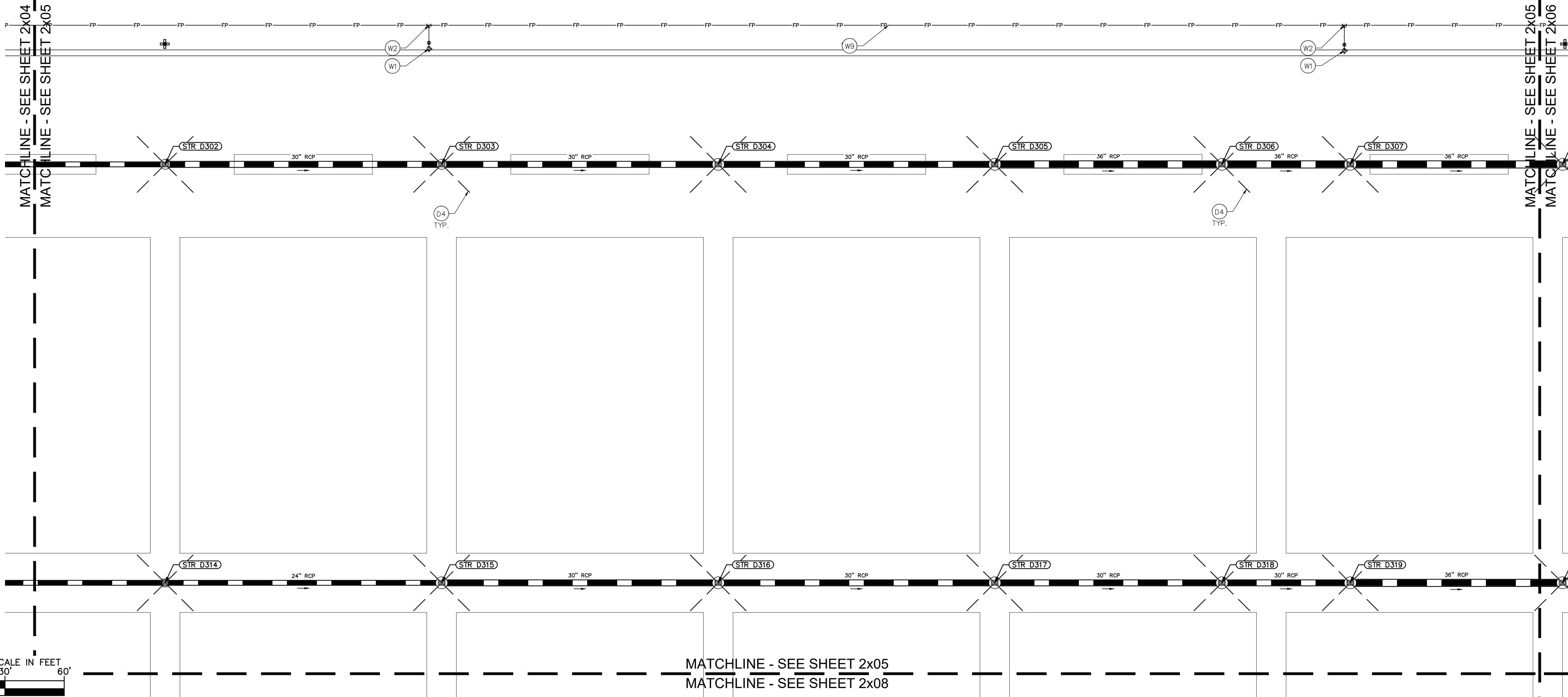
- ### KEY NOTES
- (D) DRAINAGE STORM SEWER
- D1. ROOF DRAIN CLEANOUT
 - D2. 12" PVC ROOF DRAIN LINE
 - D3. CONNECT ROOF DRAIN TO STRUCTURE
 - D4. 4" HDPE PERFORATED SPIDER DRAIN (SEE DETAILS)
 - D5. 18" PVC ROOF DRAIN LINE
 - D6. 8" PVC ROOF DRAIN LINE
 - D7. 6" PVC STORM CLEANOUT
 - D8. 6" PVC PERFORATED UNDERDRAIN (SEE DETAILS) - RODENT GUARD AT ALL POND OUTLETS
- (S) SANITARY SEWER
- S1. SANITARY CLEANOUT
 - S2. 6" PVC SDR 26 LATERAL LINE @ MIN. 1.04%
 - S3. 8" PVC SDR 26 LATERAL LINE @ MIN. 1.04%
 - S4. CONNECT TO PUBLIC SANITARY MAIN (SEE ROADWAY SHEETS)
 - S5. OIL SEPARATOR (SEE MEP PLANS FOR MORE DETAILS)
- (W) WATER LINE
- W1. FIRE HYDRANT AND VALVE ASSEMBLY ON 6" HYDRANT LEAD
 - W2. WATER TEE
 - W3. WATER BEND
 - W4. WATER VAULT PER INAW REQUIREMENTS (SEE DETAILS)
 - W5. DUAL METER PITS PER INAW REQUIREMENTS (SEE DETAILS)
 - W6. FIRE DEPT CONNECTION (FDC) WITH 6" LEAD & IDENTIFICATION SIGN
 - W7. POST INDICATOR VALVE (PIV) WITH IDENTIFICATION SIGN (INSIDE VAULT)
 - W8. CONNECT TO PUBLIC WATER MAIN (LIVE TAP-SEE ROADWAY SHEETS)
 - W9. 10" C900 PVC FIRE PROTECTION LINE
 - W10. TEMPORARY FIRE HYDRANT
 - W11. WATER VALVE
 - W12. REDUCER
 - W13. 10" C900 PVC WATER MAIN
 - W14. 6" C900 PVC DOMESTIC WATER LINE
 - W15. 1.5" IRRIGATION SERVICE AND METER
- (G) GAS LINE
- G1. GAS SERVICE LINE
- (E) ELECTRIC / TELEPHONE / CABLE
- E1. ELECTRIC SERVICE LINE
 - E2. ELECTRIC TRANSFORMER
 - E3. FIBER/TELECOMMUNICATIONS LINE
- (M) MISCELLANEOUS
- M1. CONTRACTOR TO COORDINATE CONNECTION WITH UTILITY PROVIDER.
 - M2. CONTRACTOR TO FIELD VERIFY LOCATION, DEPTH AND SIZE OF EXISTING UTILITY TO ENSURE CONFLICTS DO NOT EXIST WITH PROPOSED UTILITIES.
 - M3. POTENTIAL UTILITY CONFLICT. ALL (WATER, SANITARY, DRAINAGE STORM) CROSSINGS TO HAVE 18" MIN. VERTICAL CLEARANCE. ALL WATER SERVICE LINES TO REMAIN PERPENDICULAR AT CROSSING IN SUCH THAT IT FORMS AN ANGLE BETWEEN 45° AND 90°.
- NOTE: CONTRACTOR TO VERIFY WATER, SANITARY, GAS, & ETC LOCATIONS, SIZES AND TYPES WITH MEP PLANS PRIOR TO ORDERING MATERIALS.

GENERAL PLAN NOTES

REFER TO GENERAL NOTES SHEET FOR MORE INFORMATION INCLUDING THE FOLLOWING: (EXISTING LEGEND, BENCHMARK INFORMATION, AND SPECIFIC GENERAL PLAN NOTES.)

Kimley»Horn
 ©2024 KIMLEY-HORN AND ASSOCIATES, INC.
 500 EAST 96TH STREET, SUITE 300,
 INDIANAPOLIS, IN 46240
 PHONE: 317-218-9560
 WWW.KIMLEY-HORN.COM
 KHA PROJECT # 170509000

Malarkey Roofing Products
 MALARKEY,IND FRANKLIN,IN
 PROJ. NO. 170509000
 DWG. NO. 2505
 SHEET 0
 TITLE- PHASE 2 - FINAL BUILDOUT UTILITY PLAN



MATCHLINE - SEE SHEET 2x05
 MATCHLINE - SEE SHEET 2x08

PROFESSIONAL SEAL	NOTICE	REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY
	THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED. DWG SIZE: 36" X 24"								

Quad Plus
 Cooper & Associates, LLC
 Engineers - Project Managers
 2200 Ellis Road, New Lenox, Illinois, 60451
 Ph. (844) 251-7823 www.quadplus.com

SCALE: AS NOTED	DRWN.: VG	CHKD.: AMM	APPD.:	APPD.:	DATE : 10/10/24
-----------------	-----------	------------	--------	--------	-----------------



UTILITY LEGEND

- PROPOSED UNDERGROUND ELECTRIC LINE
- PROPOSED GAS LINE (BY GAS COMPANY)
- PROPOSED PHONE LINE
- PROPOSED ROOF DRAIN LINE
- PROPOSED UNDERDRAIN
- PROPOSED SWALE
- PROPOSED STORM SEWER LINE
- STRUCTURE ID
- PROPOSED STORM STRUCTURES
- PROPOSED SANITARY SEWER LINE
- PROPOSED SANITARY LATERAL LINE
- PROPOSED SANITARY MANHOLE
- PROPOSED STORM/SANITARY CLEANOUT
- PROPOSED WATER LINE
- PROPOSED FIRE PROTECTION LINE
- PROPOSED WATER VALVE BOX, PIV, METER
- PROPOSED FIRE HYDRANT, FIRE DEPT CONN. & VAULT
- PROPOSED WATER BENDS & TEE
- PROPOSED LIGHT POLE
- PROPOSED TRANSFORMER PAD (BY OTHERS)

KEY NOTES

- (D) DRAINAGE STORM SEWER
 - D1. ROOF DRAIN CLEANOUT
 - D2. 12" PVC ROOF DRAIN LINE
 - D3. CONNECT ROOF DRAIN TO STRUCTURE
 - D4. 4" HDPE PERFORATED SPIDER DRAIN (SEE DETAILS)
 - D5. 18" PVC ROOF DRAIN LINE
 - D6. 8" PVC ROOF DRAIN LINE
 - D7. 6" PVC STORM CLEANOUT
 - D8. 6" PVC PERFORATED UNDERDRAIN (SEE DETAILS) - RODENT GUARD AT ALL POND OUTLETS
 - (S) SANITARY SEWER
 - S1. SANITARY CLEANOUT
 - S2. 6" PVC SDR 26 LATERAL LINE @ MIN. 1.04%
 - S3. 8" PVC SDR 26 LATERAL LINE @ MIN. 1.04%
 - S4. CONNECT TO PUBLIC SANITARY MAIN (SEE ROADWAY SHEETS)
 - S5. OIL SEPARATOR (SEE MEP PLANS FOR MORE DETAILS)
 - (W) WATER LINE
 - W1. FIRE HYDRANT AND VALVE ASSEMBLY ON 6" HYDRANT LEAD
 - W2. WATER TEE
 - W3. WATER BEND
 - W4. WATER VAULT PER INAW REQUIREMENTS (SEE DETAILS)
 - W5. DUAL METER PITS PER INAW REQUIREMENTS (SEE DETAILS)
 - W6. FIRE DEPT CONNECTION (FDC) WITH 6" LEAD & IDENTIFICATION SIGN
 - W7. POST INDICATOR VALVE (PIV) WITH IDENTIFICATION SIGN (INSIDE VAULT)
 - W8. CONNECT TO PUBLIC WATER MAIN (LIVE TAP-SEE ROADWAY SHEETS)
 - W9. 10" C900 PVC FIRE PROTECTION LINE
 - W10. TEMPORARY FIRE HYDRANT
 - W11. WATER VALVE
 - W12. REDUCER
 - W13. 10" C900 PVC WATER MAIN
 - W14. 6" C900 PVC DOMESTIC WATER LINE
 - W15. 1.5" IRRIGATION SERVICE AND METER
 - (G) GAS LINE
 - G1. GAS SERVICE LINE
 - (E) ELECTRIC / TELEPHONE / CABLE
 - E1. ELECTRIC SERVICE LINE
 - E2. ELECTRIC TRANSFORMER
 - E3. FIBER/TELECOMMUNICATIONS LINE
 - (M) MISCELLANEOUS
 - M1. CONTRACTOR TO COORDINATE CONNECTION WITH UTILITY PROVIDER.
 - M2. CONTRACTOR TO FIELD VERIFY LOCATION, DEPTH AND SIZE OF EXISTING UTILITY TO ENSURE CONFLICTS DO NOT EXIST WITH PROPOSED UTILITIES.
 - M3. POTENTIAL UTILITY CONFLICT. ALL (WATER, SANITARY, DRAINAGE STORM) CROSSINGS TO HAVE 18" MIN. VERTICAL CLEARANCE. ALL WATER SERVICE LINES TO REMAIN PERPENDICULAR AT CROSSING IN SUCH THAT IT FORMS AN ANGLE BETWEEN 45° AND 90°.
- NOTE: CONTRACTOR TO VERIFY WATER, SANITARY, GAS, & ETC LOCATIONS, SIZES AND TYPES WITH MEP PLANS PRIOR TO ORDERING MATERIALS.

GENERAL PLAN NOTES

REFER TO GENERAL NOTES SHEET FOR MORE INFORMATION INCLUDING THE FOLLOWING: (EXISTING LEGEND, BENCHMARK INFORMATION, AND SPECIFIC GENERAL PLAN NOTES.)



©2024 KIMLEY-HORN AND ASSOCIATES, INC.
 500 EAST 96TH STREET, SUITE 300,
 INDIANAPOLIS, IN 46240
 PHONE: 317-218-9560
 WWW.KIMLEY-HORN.COM
 KHA PROJECT # 170509000



MALARKEY,IND FRANKLIN,IN

PROJ. NO.
170509000

DWG. NO.
2506

TITLE- PHASE 2 - FINAL BUILDOUT
UTILITY PLAN

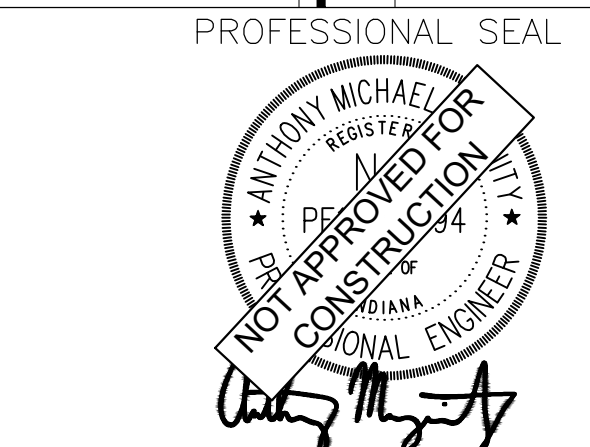
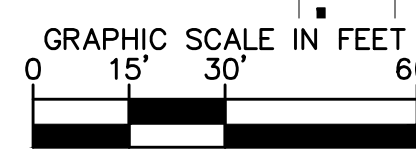
SHEET
REV 0

MATCHLINE - SEE SHEET 2x03
 MATCHLINE - SEE SHEET 2x06

- CITY OF FRANKLIN FIRE DEPARTMENT NOTES:
1. THE FIRE DEPARTMENT CONNECTION (FDC) SHALL BE LOCATED OUTSIDE THE COLLAPSE ZONE.
 2. A SERVICING HYDRANT SHALL BE LOCATED WITHIN 20' OF THE FDC AND THE FIRE TRUCK ACCESS.
 3. FDC SHALL HAVE A STORZ CONNECTION WITH A 30' DOWN TURN.
 4. IDENTIFICATION SIGNAGES ARE REQUIRED FOR FDC AND PIV.
 5. ALL HYDRANTS ARE TO BE YELLOW IF PUBLIC, RED IF PRIVATE WITH THE TOP CAP COLOR CODED TO SHOW WATER FLOW. 1500 GPM = BLUE, 1000-1499 GPM = GREEN, 500-999 GPM = ORANGE

MATCHLINE - SEE SHEET 2x05
 MATCHLINE - SEE SHEET 2x06

MATCHLINE - SEE SHEET 2x06
 MATCHLINE - SEE SHEET 2x09



NOTICE
 THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC
 AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.

DWG SIZE: 36" X 24"

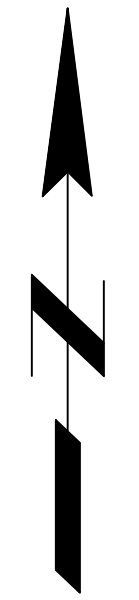
REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

SCALE: AS NOTED
 DRWN.: VG
 CHKD.: AMM
 APPD.:
 APPD.:
 DATE : 10/10/24



Engineers - Project Managers
 2200 Ellis Road, New Lenox, Illinois, 60451
 Ph. (844) 251-7823 www.quadplus.com

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND\DEV\170509000_Cooper&Associates_Plan24_Franklin_IN\2 Design\CD\DWG\PlanSheets\CD_Site Improvements\24-Franklin_IN\24-10-2024_14:46pm_By: Anthony Magarity



MATCHLINE - SEE SHEET 2x04
 MATCHLINE - SEE SHEET 2x07

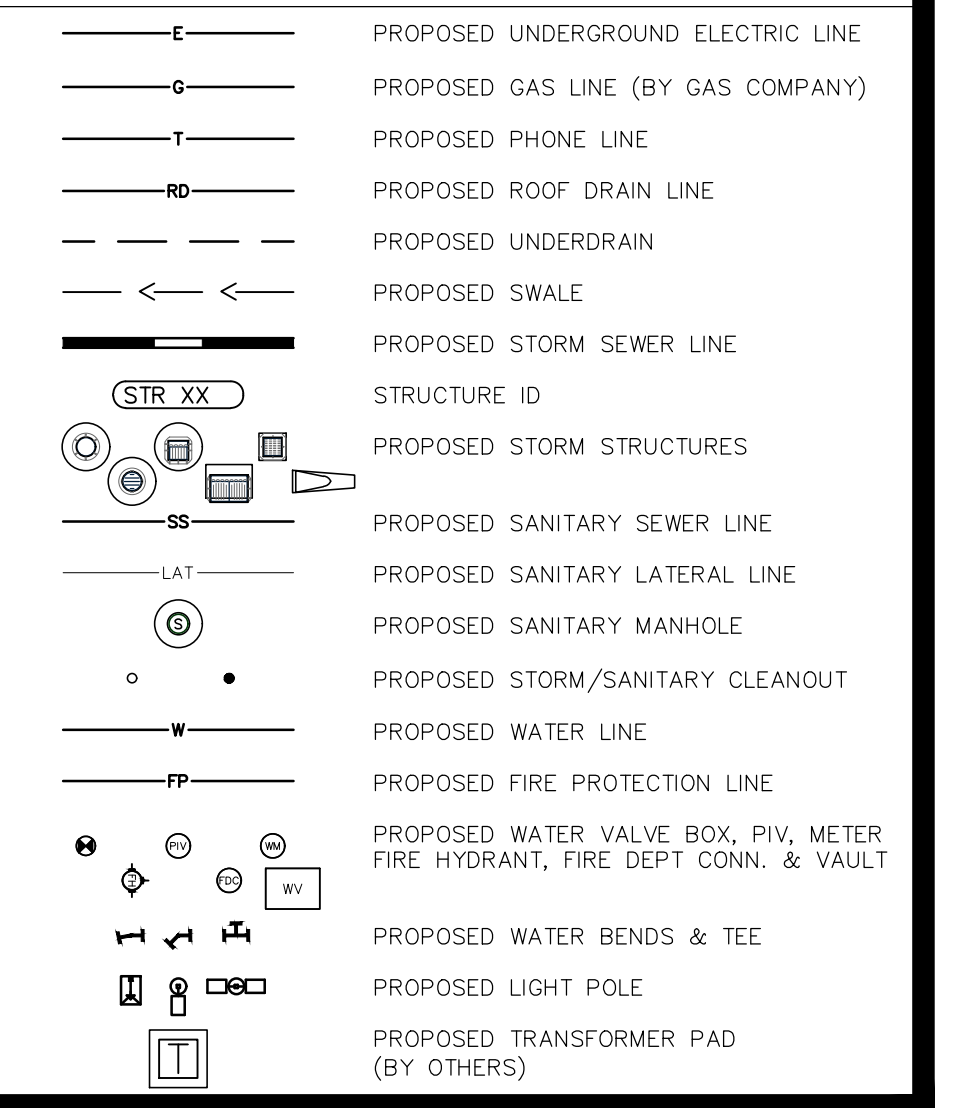
- CITY OF FRANKLIN FIRE DEPARTMENT NOTES:
1. THE FIRE DEPARTMENT CONNECTION (FDC) SHALL BE LOCATED OUTSIDE THE COLLAPSE ZONE.
 2. A SERVICING HYDRANT SHALL BE LOCATED WITHIN 20' OF THE FDC AND THE FIRE TRUCK ACCESS.
 3. FDC SHALL HAVE A STORZ CONNECTION WITH A 30' DOWN TURN.
 4. IDENTIFICATION SIGNAGES ARE REQUIRED FOR FDC AND PIV.
 5. ALL HYDRANTS ARE TO BE YELLOW IF PUBLIC, RED IF PRIVATE WITH THE TOP CAP COLOR CODED TO SHOW WATER FLOW. 1500 GPM = BLUE, 1000-1499 GPM = GREEN, 500-999 GPM = ORANGE.

Indiana Utilities Protection Service



before you dig

UTILITY LEGEND



KEY NOTES

- (D) DRAINAGE / STORM SEWER
 D1. ROOF DRAIN CLEANOUT
 D2. 12" PVC ROOF DRAIN LINE
 D3. CONNECT ROOF DRAIN TO STRUCTURE
 D4. 4" HDPE PERFORATED SPIDER DRAIN (SEE DETAILS)
 D5. 18" PVC ROOF DRAIN LINE
 D6. 8" PVC ROOF DRAIN LINE
 D7. 6" PVC STORM CLEANOUT
 D8. 6" PVC PERFORATED UNDERDRAIN (SEE DETAILS) - RODENT GUARD AT ALL POND OUTLETS
- (S) SANITARY SEWER
 S1. SANITARY CLEANOUT
 S2. 6" PVC SDR 26 LATERAL LINE @ MIN. 1.04%
 S3. 8" PVC SDR 26 LATERAL LINE @ MIN. 1.04%
 S4. CONNECT TO PUBLIC SANITARY MAIN (SEE ROADWAY SHEETS)
 S5. OIL SEPARATOR (SEE MEP PLANS FOR MORE DETAILS)
- (W) WATER LINE
 W1. FIRE HYDRANT AND VALVE ASSEMBLY ON 6" HYDRANT LEAD
 W2. WATER TEE
 W3. WATER BEND
 W4. WATER VAULT PER INAW REQUIREMENTS (SEE DETAILS)
 W5. DUAL METER PITS PER INAW REQUIREMENTS (SEE DETAILS)
 W6. FIRE DEPT CONNECTION (FDC) WITH 6" LEAD & IDENTIFICATION SIGN
 W7. POST INDICATOR VALVE (PIV) WITH IDENTIFICATION SIGN (INSIDE VAULT)
 W8. CONNECT TO PUBLIC WATER MAIN (LIVE TAP-SEE ROADWAY SHEETS)
 W9. 10" C900 PVC FIRE PROTECTION LINE
 W10. TEMPORARY FIRE HYDRANT
 W11. WATER VALVE
 W12. REDUCER
 W13. 10" C900 PVC WATER MAIN
 W14. 6" C900 PVC DOMESTIC WATER LINE
 W15. 1.5" IRRIGATION SERVICE AND METER
- (G) GAS LINE
 G1. GAS SERVICE LINE
- (E) ELECTRIC / TELEPHONE / CABLE
 E1. ELECTRIC SERVICE LINE
 E2. ELECTRIC TRANSFORMER
 E3. FIBER/TELECOMMUNICATIONS LINE
- (M) MISCELLANEOUS
 M1. CONTRACTOR TO COORDINATE CONNECTION WITH UTILITY PROVIDER.
 M2. CONTRACTOR TO FIELD VERIFY LOCATION, DEPTH AND SIZE OF EXISTING UTILITY TO ENSURE CONFLICTS DO NOT EXIST WITH PROPOSED UTILITIES.
 M3. POTENTIAL UTILITY CONFLICT. ALL (WATER, SANITARY, DRAINAGE / STORM) CROSSINGS TO HAVE 18" MIN. VERTICAL CLEARANCE. ALL WATER SERVICE LINES TO REMAIN PERPENDICULAR AT CROSSING IN SUCH THAT IT FORMS AN ANGLE BETWEEN 45° AND 90°.
 NOTE: CONTRACTOR TO VERIFY WATER, SANITARY, GAS, & ETC LOCATIONS, SIZES AND TYPES WITH MEP PLANS PRIOR TO ORDERING MATERIALS.

GENERAL PLAN NOTES

REFER TO GENERAL NOTES SHEET FOR MORE INFORMATION INCLUDING THE FOLLOWING: EXISTING LEGEND, BENCHMARK INFORMATION, AND SPECIFIC GENERAL PLAN NOTES.

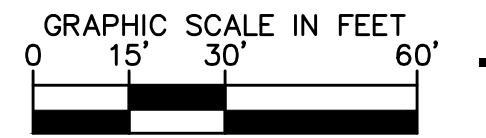


©2024 KIMLEY-HORN AND ASSOCIATES, INC.
 500 EAST 96TH STREET, SUITE 300,
 INDIANAPOLIS, IN 46240
 PHONE: 317-218-9560
 WWW.KIMLEY-HORN.COM
 KHA PROJECT # 170509000



MALARKEY,IND FRANKLIN,IN

PROJ. NO.	170509000
DWG. NO.	2507
SHEET	0
REV	0



MATCHLINE - SEE SHEET 2x07
 MATCHLINE - SEE SHEET 2x10

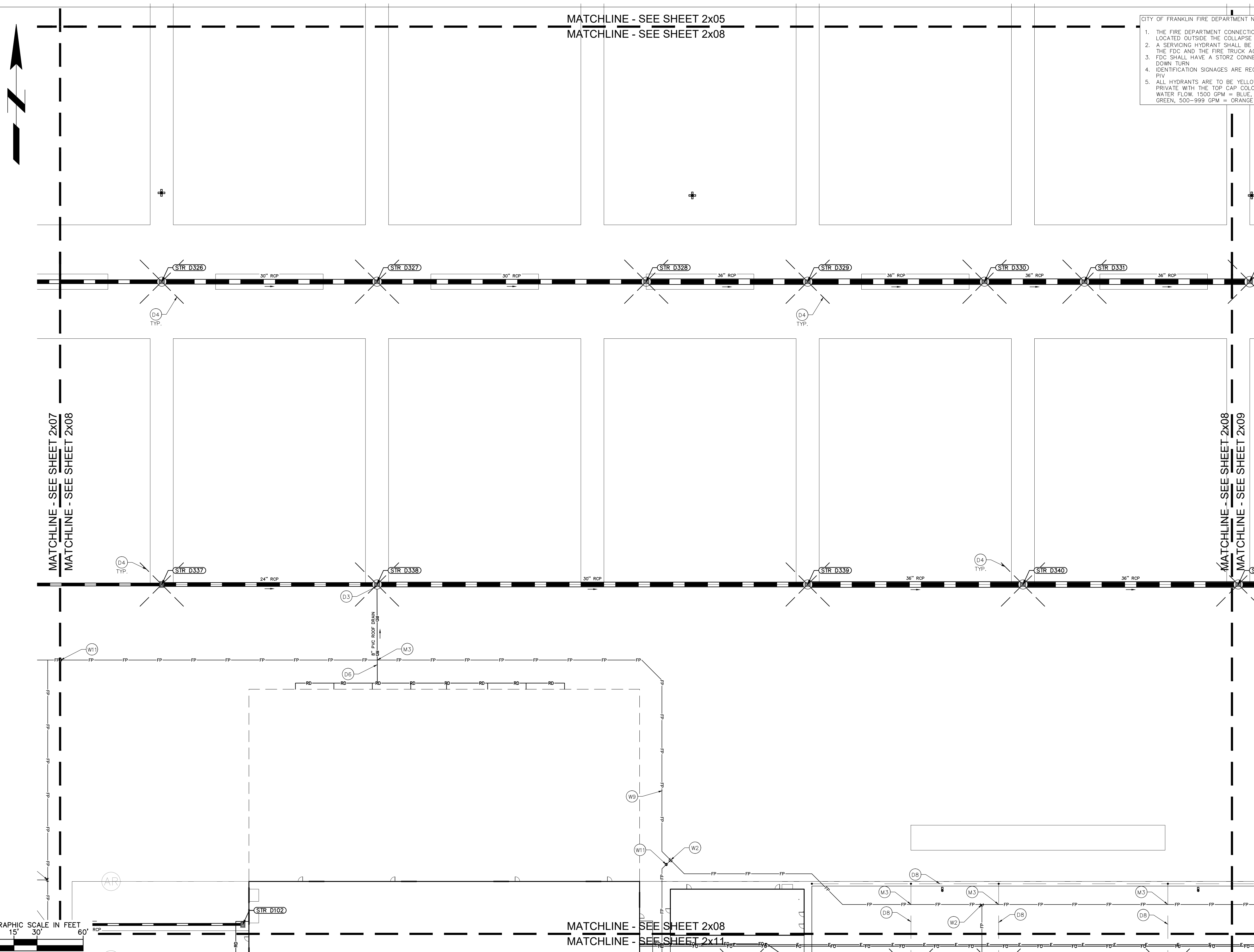
PROFESSIONAL SEAL	NOTICE	REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY
	THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED. DWG SIZE: 36" X 24"								



Engineers - Project Managers
 2200 Ellis Road, New Lenox, Illinois, 60451
 Ph. (844) 251-7823 www.quadplus.com

SCALE: AS NOTED	DRWN.: VG	<p>Engineers - Project Managers 2200 Ellis Road, New Lenox, Illinois, 60451 Ph. (844) 251-7823 www.quadplus.com</p>	PROJ. NO.	170509000
CHKD.: AMM	APPD.:		DWG. NO.	2507
APPD.:	DATE : 10/10/24		TITLE-	PHASE 2 - FINAL BUILDOUT UTILITY PLAN
			SHEET	0

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND_DEV\170509000_Cooper&Associates_PlantA_Franklin_IN\2 Design\CD\03\PlanSheets\04 Site Improvements\04-1-UTILITY PLAN.dwg 2508 Oct 10, 2024 1:46pm By: AnthonyMagluta



CITY OF FRANKLIN FIRE DEPARTMENT NOTES:

1. THE FIRE DEPARTMENT CONNECTION (FDC) SHALL BE LOCATED OUTSIDE THE COLLAPSE ZONE.
2. A SERVICING HYDRANT SHALL BE LOCATED WITHIN 20' OF THE FDC AND THE FIRE TRUCK ACCESS.
3. FDC SHALL HAVE A STORZ CONNECTION WITH A 30' DOWN TURN.
4. IDENTIFICATION SIGNAGES ARE REQUIRED FOR FDC AND PIV.
5. ALL HYDRANTS ARE TO BE YELLOW IF PUBLIC, RED IF PRIVATE WITH THE TOP CAP COLOR CODED TO SHOW WATER FLOW. 1500 GPM = BLUE, 1000-1499 GPM = GREEN, 500-999 GPM = ORANGE.



UTILITY LEGEND

	PROPOSED UNDERGROUND ELECTRIC LINE
	PROPOSED GAS LINE (BY GAS COMPANY)
	PROPOSED PHONE LINE
	PROPOSED ROOF DRAIN LINE
	PROPOSED UNDERDRAIN
	PROPOSED SWALE
	PROPOSED STORM SEWER LINE
	STRUCTURE ID
	PROPOSED STORM STRUCTURES
	PROPOSED SANITARY SEWER LINE
	PROPOSED SANITARY LATERAL LINE
	PROPOSED SANITARY MANHOLE
	PROPOSED STORM/SANITARY CLEANOUT
	PROPOSED WATER LINE
	PROPOSED FIRE PROTECTION LINE
	PROPOSED WATER VALVE BOX, PIV, METER
	PROPOSED FIRE HYDRANT, FIRE DEPT CONN. & VAULT
	PROPOSED WATER BENDS & TEE
	PROPOSED LIGHT POLE
	PROPOSED TRANSFORMER PAD (BY OTHERS)

KEY NOTES

(D) DRAINAGE / STORM SEWER

- D1. ROOF DRAIN CLEANOUT
- D2. 12" PVC ROOF DRAIN LINE
- D3. CONNECT ROOF DRAIN TO STRUCTURE
- D4. 4" HDPE PERFORATED SPIDER DRAIN (SEE DETAILS)
- D5. 18" PVC ROOF DRAIN LINE
- D6. 8" PVC ROOF DRAIN LINE
- D7. 6" PVC STORM CLEANOUT
- D8. 6" PVC PERFORATED UNDERDRAIN (SEE DETAILS) - RODENT GUARD AT ALL POND OUTLETS

(S) SANITARY SEWER

- S1. SANITARY CLEANOUT
- S2. 6" PVC SDR 26 LATERAL LINE @ MIN. 1.04%
- S3. 8" PVC SDR 26 LATERAL LINE @ MIN. 1.04%
- S4. CONNECT TO PUBLIC SANITARY MAIN (SEE ROADWAY SHEETS)
- S5. OIL SEPARATOR (SEE MEP PLANS FOR MORE DETAILS)

(W) WATER LINE

- W1. FIRE HYDRANT AND VALVE ASSEMBLY ON 6" HYDRANT LEAD
- W2. WATER TEE
- W3. WATER BEND
- W4. WATER VAULT PER INAW REQUIREMENTS (SEE DETAILS)
- W5. DUAL METER PITS PER INAW REQUIREMENTS (SEE DETAILS)
- W6. FIRE DEPT CONNECTION (FDC) WITH 6" LEAD & IDENTIFICATION SIGN
- W7. POST INDICATOR VALVE (PIV) WITH IDENTIFICATION SIGN (INSIDE VAULT)
- W8. CONNECT TO PUBLIC WATER MAIN (LIVE TAP-SEE ROADWAY SHEETS)
- W9. 10" C900 PVC FIRE PROTECTION LINE
- W10. TEMPORARY FIRE HYDRANT
- W11. WATER VALVE
- W12. REDUCER
- W13. 10" C900 PVC WATER MAIN
- W14. 6" C900 PVC DOMESTIC WATER LINE
- W15. 1.5" IRRIGATION SERVICE AND METER

(G) GAS LINE

- G1. GAS SERVICE LINE

(E) ELECTRIC / TELEPHONE / CABLE

- E1. ELECTRIC SERVICE LINE
- E2. ELECTRIC TRANSFORMER
- E3. FIBER/TELECOMMUNICATIONS LINE

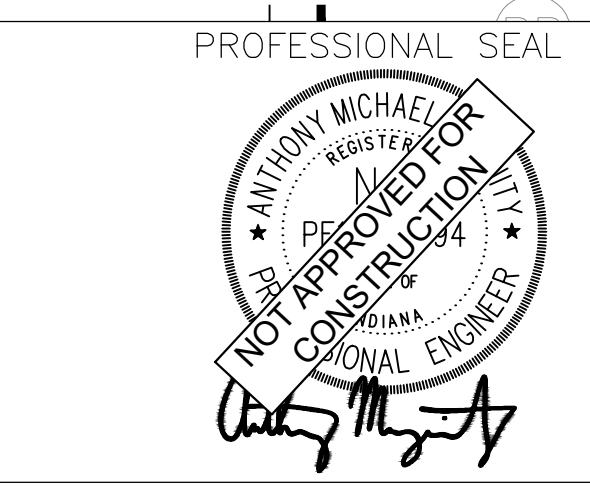
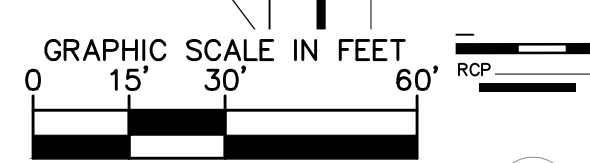
(M) MISCELLANEOUS

- M1. CONTRACTOR TO COORDINATE CONNECTION WITH UTILITY PROVIDER.
- M2. CONTRACTOR TO FIELD VERIFY LOCATION, DEPTH AND SIZE OF EXISTING UTILITY TO ENSURE CONFLICTS DO NOT EXIST WITH PROPOSED UTILITIES.
- M3. POTENTIAL UTILITY CONFLICT. ALL (WATER, SANITARY, DRAINAGE STORM) CROSSINGS TO HAVE 18" MIN. VERTICAL CLEARANCE. ALL WATER SERVICE LINES TO REMAIN PERPENDICULAR AT CROSSING IN SUCH THAT IT FORMS AN ANGLE BETWEEN 45° AND 90°.

NOTE: CONTRACTOR TO VERIFY WATER, SANITARY, GAS, & ETC LOCATIONS, SIZES AND TYPES WITH MEP PLANS PRIOR TO ORDERING MATERIALS.

GENERAL PLAN NOTES

REFER TO GENERAL NOTES SHEET FOR MORE INFORMATION INCLUDING THE FOLLOWING: (EXISTING LEGEND, BENCHMARK INFORMATION, AND SPECIFIC GENERAL PLAN NOTES.)



NOTICE

THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.

DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS BY	REV	DESCRIPTION	DATE	IS BY

Quad Plus
Cooper & Associates, LLC

Engineers - Project Managers
2200 Ellis Road, New Lenox, Illinois, 60451
Ph. (844) 251-7823 www.quadplus.com

SCALE: AS NOTED
DRWN.: VG
CHKD.: AMM
APPD.:
APPD.:
DATE : 10/10/24

Kimley-Horn

©2024 KIMLEY-HORN AND ASSOCIATES, INC.
500 EAST 96TH STREET, SUITE 300,
INDIANAPOLIS, IN 46240
PHONE: 317-218-9560
WWW.KIMLEY-HORN.COM
KHA PROJECT # 170509000

Malarkey Roofing Products

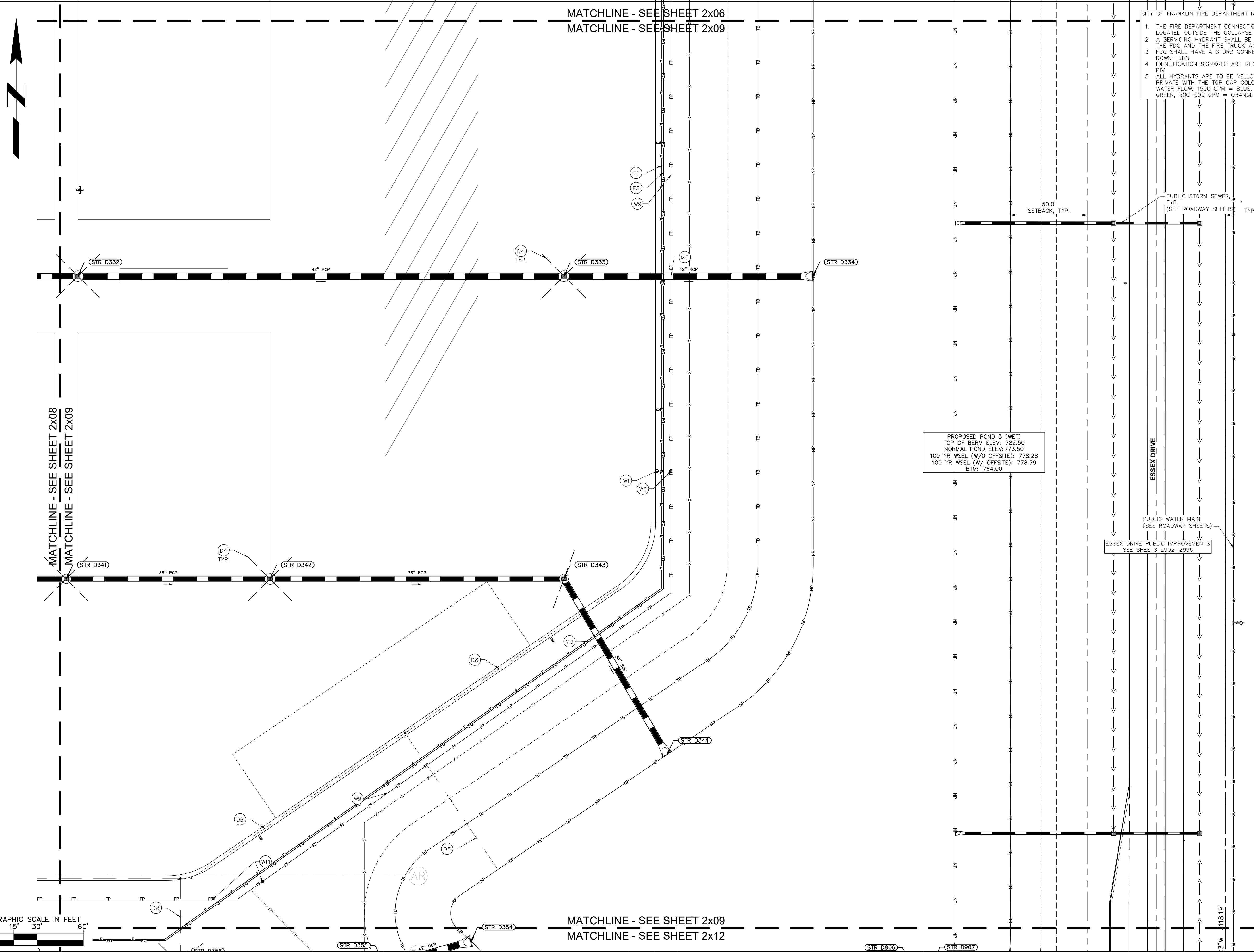
MALARKEY,IND FRANKLIN,IN

PROJ. NO. 170509000
DWG. NO. 2508

TITLE - PHASE 2 - FINAL BUILDOUT UTILITY PLAN

SHEET	0
REV	0

This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND\DEV\170509000_Cooper&Associates_Plant\IND_SiteImprovements\KHA-Utility_Plans.dwg 2509 Oct 10, 2024 1:46pm By: AnthonyMagluta



CITY OF FRANKLIN FIRE DEPARTMENT NOTES:

1. THE FIRE DEPARTMENT CONNECTION (FDC) SHALL BE LOCATED OUTSIDE THE COLLAPSE ZONE.
2. A SERVING HYDRANT SHALL BE LOCATED WITHIN 20' OF THE FDC AND THE FIRE TRUCK ACCESS.
3. FDC SHALL HAVE A STORZ CONNECTION WITH A 30" DOWN TURN.
4. IDENTIFICATION SIGNAGES ARE REQUIRED FOR FDC AND PIV.
5. ALL HYDRANTS ARE TO BE YELLOW IF PUBLIC, RED IF PRIVATE WITH THE TOP CAP COLOR CODED TO SHOW WATER FLOW. 1500 GPM = BLUE, 1000-1499 GPM = GREEN, 500-999 GPM = ORANGE.



UTILITY LEGEND

	PROPOSED UNDERGROUND ELECTRIC LINE
	PROPOSED GAS LINE (BY GAS COMPANY)
	PROPOSED PHONE LINE
	PROPOSED ROOF DRAIN LINE
	PROPOSED UNDERDRAIN
	PROPOSED SWALE
	PROPOSED STORM SEWER LINE
	STRUCTURE ID
	PROPOSED STORM STRUCTURES
	PROPOSED SANITARY SEWER LINE
	PROPOSED SANITARY LATERAL LINE
	PROPOSED SANITARY MANHOLE
	PROPOSED STORM/SANITARY CLEANOUT
	PROPOSED WATER LINE
	PROPOSED FIRE PROTECTION LINE
	PROPOSED WATER VALVE BOX, PIV, METER
	FIRE HYDRANT, FIRE DEPT CONN. & VAULT
	PROPOSED WATER BENDS & TEE
	PROPOSED LIGHT POLE
	PROPOSED TRANSFORMER PAD (BY OTHERS)

KEY NOTES

(D) DRAINAGE STORM SEWER

- D1. ROOF DRAIN CLEANOUT
- D2. 12" PVC ROOF DRAIN LINE
- D3. CONNECT ROOF DRAIN TO STRUCTURE
- D4. 4" HDPE PERFORATED SPIDER DRAIN (SEE DETAILS)
- D5. 18" PVC ROOF DRAIN LINE
- D6. 8" PVC ROOF DRAIN LINE
- D7. 6" PVC STORM CLEANOUT
- D8. 6" PVC PERFORATED UNDERDRAIN (SEE DETAILS) - RODENT GUARD AT ALL POND OUTLETS

(S) SANITARY SEWER

- S1. SANITARY CLEANOUT
- S2. 6" PVC SDR 26 LATERAL LINE @ MIN. 1.04%
- S3. 8" PVC SDR 26 LATERAL LINE @ MIN. 1.04%
- S4. CONNECT TO PUBLIC SANITARY MAIN (SEE ROADWAY SHEETS)
- S5. OIL SEPARATOR (SEE MEP PLANS FOR MORE DETAILS)

(W) WATER LINE

- W1. FIRE HYDRANT AND VALVE ASSEMBLY ON 6" HYDRANT LEAD
- W2. WATER TEE
- W3. WATER BEND
- W4. WATER VAULT PER INAW REQUIREMENTS (SEE DETAILS)
- W5. DUAL METER PITS PER INAW REQUIREMENTS (SEE DETAILS)
- W6. FIRE DEPT CONNECTION (FDC) WITH 6" LEAD & IDENTIFICATION SIGN
- W7. POST INDICATOR VALVE (PIV) WITH IDENTIFICATION SIGN (INSIDE VAULT)
- W8. CONNECT TO PUBLIC WATER MAIN (LIVE TAP-SEE ROADWAY SHEETS)
- W9. 10" C900 PVC FIRE PROTECTION LINE
- W10. TEMPORARY FIRE HYDRANT
- W11. WATER VALVE
- W12. REDUCER
- W13. 10" C900 PVC WATER MAIN
- W14. 6" C900 PVC DOMESTIC WATER LINE
- W15. 1.5" IRRIGATION SERVICE AND METER

(G) GAS LINE

- G1. GAS SERVICE LINE

(E) ELECTRIC / TELEPHONE / CABLE

- E1. ELECTRIC SERVICE LINE
- E2. ELECTRIC TRANSFORMER
- E3. FIBER/TELECOMMUNICATIONS LINE

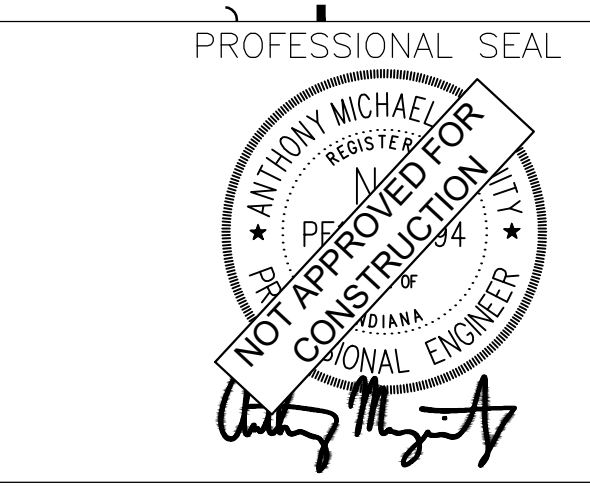
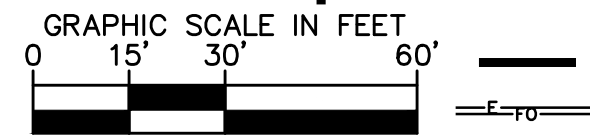
(M) MISCELLANEOUS

- M1. CONTRACTOR TO COORDINATE CONNECTION WITH UTILITY PROVIDER.
- M2. CONTRACTOR TO FIELD VERIFY LOCATION, DEPTH AND SIZE OF EXISTING UTILITY TO ENSURE CONFLICTS DO NOT EXIST WITH PROPOSED UTILITIES.
- M3. POTENTIAL UTILITY CONFLICT. ALL (WATER, SANITARY, DRAINAGE STORM) CROSSINGS TO HAVE 18" MIN. VERTICAL CLEARANCE. ALL WATER SERVICE LINES TO REMAIN PERPENDICULAR AT CROSSING IN SUCH THAT IT FORMS AN ANGLE BETWEEN 45° AND 90°.

NOTE: CONTRACTOR TO VERIFY WATER, SANITARY, GAS, & ETC LOCATIONS, SIZES AND TYPES WITH MEP PLANS PRIOR TO ORDERING MATERIALS.

PROPOSED POND 3 (WET)
 TOP OF BERM ELEV: 782.50
 NORMAL POND ELEV: 773.50
 100 YR WSEL (W/O OFFSET): 778.28
 100 YR WSEL (W/ OFFSET): 778.79
 BTM: 764.00

ESSEX DRIVE PUBLIC IMPROVEMENTS
 SEE SHEETS 2902-2996



NOTICE

THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.

DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

Quad Plus
 Cooper & Associates, LLC

Engineers - Project Managers
 2200 Ellis Road, New Lenox, Illinois, 60451
 Ph. (844) 251-7823 www.quadplus.com

Malarkey Roofing Products

©2024 KIMLEY-HORN AND ASSOCIATES, INC.
 500 EAST 96TH STREET, SUITE 300,
 INDIANAPOLIS, IN 46240
 PHONE: 317-218-9560
 WWW.KIMLEY-HORN.COM
 KHA PROJECT # 170509000

PROJ. NO.	170509000
DWG. NO.	2509
SHEET	0
REV	0

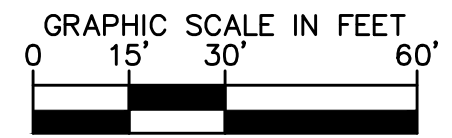
GENERAL PLAN NOTES

REFER TO GENERAL NOTES SHEET FOR MORE INFORMATION INCLUDING THE FOLLOWING: EXISTING LEGEND, BENCHMARK INFORMATION, AND SPECIFIC GENERAL PLAN NOTES.

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND_DEV\170509000_Cooper&Associates_Plant_FRANKLIN_IN\2 Design\CD\03\PlanSheets\03-Site Improvements\03-1-UTILITY PLUMBING 2510 - 04.10.2024 1:44pm By: AnthonyMogity

- CITY OF FRANKLIN FIRE DEPARTMENT NOTES:**
1. THE FIRE DEPARTMENT CONNECTION (FDC) SHALL BE LOCATED OUTSIDE THE COLLAPSE ZONE.
 2. A SERVICING HYDRANT SHALL BE LOCATED WITHIN 20' OF THE FDC AND THE FIRE TRUCK ACCESS.
 3. FDC SHALL HAVE A STORZ CONNECTION WITH A 30" DOWN TURN.
 4. IDENTIFICATION SIGNAGES ARE REQUIRED FOR FDC AND PIV.
 5. ALL HYDRANTS ARE TO BE YELLOW IF PUBLIC, RED IF PRIVATE WITH THE TOP CAP COLOR CODED TO SHOW WATER FLOW. 1500 GPM = BLUE, 1000-1499 GPM = GREEN, 500-999 GPM = ORANGE.

MATCHLINE - SEE SHEET 2x07
 MATCHLINE - SEE SHEET 2x10



MATCHLINE - SEE SHEET 2x10
 MATCHLINE - SEE SHEET 2x13

PROFESSIONAL SEAL	NOTICE	REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY	SCALE: AS NOTED		
	THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.									DRWN.: VG		
											CHKD.: AMM	
												APPD.:
												APPD.:
	DWG SIZE: 36" X 24"									DATE : 10/10/24		

Quad Plus
 Cooper & Associates, LLC
 Engineers - Project Managers
 2200 Ellis Road, New Lenox, Illinois, 60451
 Ph. (844) 251-7823 www.quadplus.com

Malarkey Roofing Products
 MALARKEY,IND FRANKLIN,IN

PROJ. NO. 170509000	DWG. NO. 2510
SHEET	REV
0	0



UTILITY LEGEND

- PROPOSED UNDERGROUND ELECTRIC LINE
- PROPOSED GAS LINE (BY GAS COMPANY)
- PROPOSED PHONE LINE
- PROPOSED ROOF DRAIN LINE
- PROPOSED UNDERDRAIN
- PROPOSED SWALE
- PROPOSED STORM SEWER LINE
- STRUCTURE ID
- PROPOSED STORM STRUCTURES
- PROPOSED SANITARY SEWER LINE
- PROPOSED SANITARY LATERAL LINE
- PROPOSED SANITARY MANHOLE
- PROPOSED STORM/SANITARY CLEANOUT
- PROPOSED WATER LINE
- PROPOSED FIRE PROTECTION LINE
- PROPOSED WATER VALVE BOX, PIV, METER
- FIRE HYDRANT, FIRE DEPT CONN. & VAULT
- PROPOSED WATER BENDS & TEE
- PROPOSED LIGHT POLE
- PROPOSED TRANSFORMER PAD (BY OTHERS)

KEY NOTES

(D) DRAINAGE STORM SEWER
 D1. ROOF DRAIN CLEANOUT
 D2. 12" PVC ROOF DRAIN LINE
 D3. CONNECT ROOF DRAIN TO STRUCTURE
 D4. 4" HDPE PERFORATED SPIDER DRAIN (SEE DETAILS)
 D5. 18" PVC ROOF DRAIN LINE
 D6. 8" PVC ROOF DRAIN LINE
 D7. 6" PVC STORM CLEANOUT
 D8. 6" PVC PERFORATED UNDERDRAIN (SEE DETAILS) - RODENT GUARD AT ALL POND OUTLETS

(S) SANITARY SEWER
 S1. SANITARY CLEANOUT
 S2. 6" PVC SDR 26 LATERAL LINE @ MIN. 1.04%
 S3. 8" PVC SDR 26 LATERAL LINE @ MIN. 1.04%
 S4. CONNECT TO PUBLIC SANITARY MAIN (SEE ROADWAY SHEETS)
 S5. OIL SEPARATOR (SEE MEP PLANS FOR MORE DETAILS)

(W) WATER LINE
 W1. FIRE HYDRANT AND VALVE ASSEMBLY ON 6" HYDRANT LEAD
 W2. WATER TEE
 W3. WATER BEND
 W4. WATER VAULT PER INAW REQUIREMENTS (SEE DETAILS)
 W5. DUAL METER PITS PER INAW REQUIREMENTS (SEE DETAILS)
 W6. FIRE DEPT CONNECTION (FDC) WITH 6" LEAD & IDENTIFICATION SIGN
 W7. POST INDICATOR VALVE (PIV) WITH IDENTIFICATION SIGN (INSIDE VAULT)
 W8. CONNECT TO PUBLIC WATER MAIN (LIVE TAP-SEE ROADWAY SHEETS)
 W9. 10" C900 PVC FIRE PROTECTION LINE
 W10. TEMPORARY FIRE HYDRANT
 W11. WATER VALVE
 W12. REDUCER
 W13. 10" C900 PVC WATER MAIN
 W14. 6" C900 PVC DOMESTIC WATER LINE
 W15. 1.5" IRRIGATION SERVICE AND METER

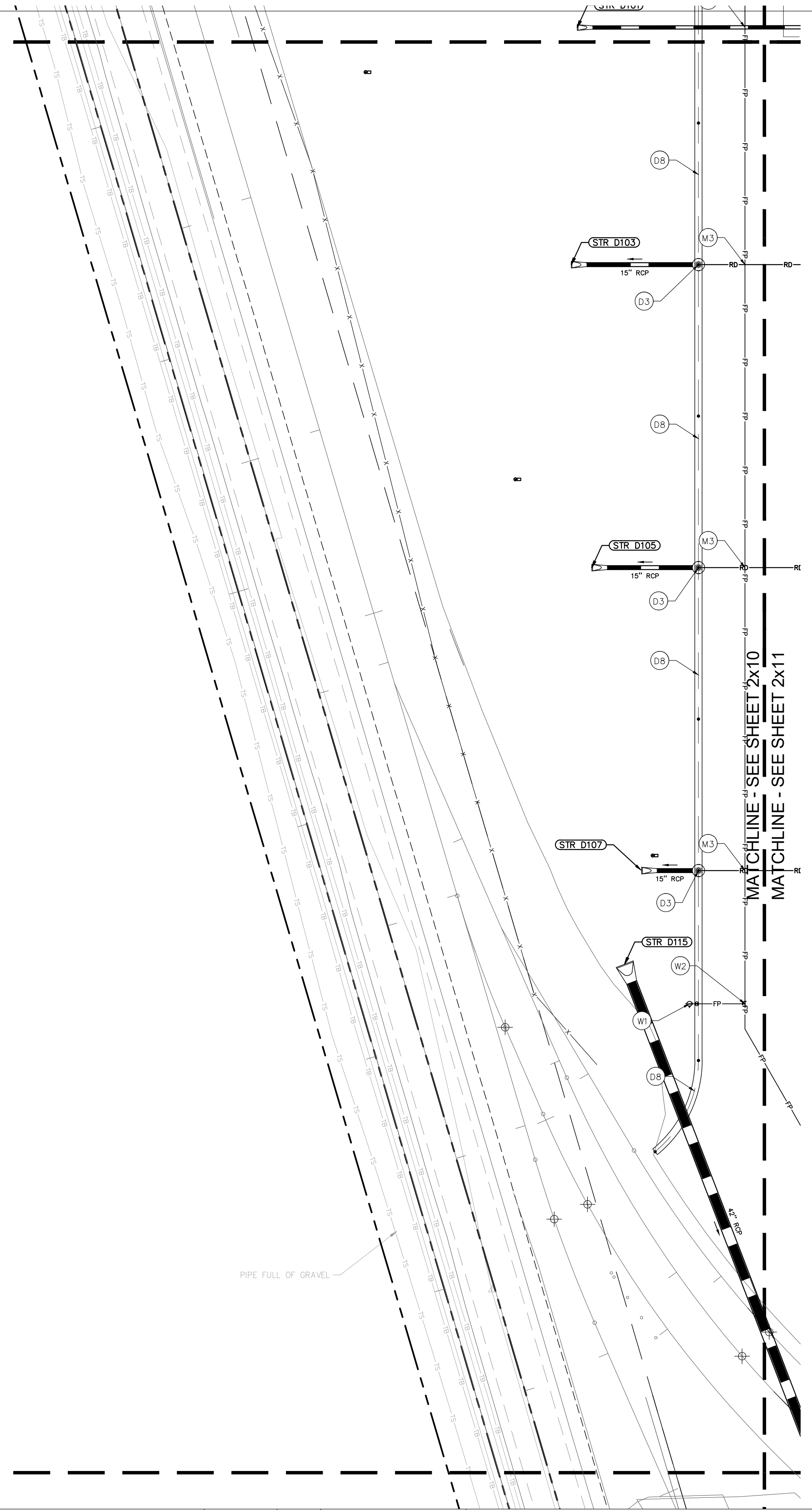
(G) GAS LINE
 G1. GAS SERVICE LINE

(E) ELECTRIC / TELEPHONE / CABLE
 E1. ELECTRIC SERVICE LINE
 E2. ELECTRIC TRANSFORMER
 E3. FIBER/TELECOMMUNICATIONS LINE

(M) MISCELLANEOUS
 M1. CONTRACTOR TO COORDINATE CONNECTION WITH UTILITY PROVIDER.
 M2. CONTRACTOR TO FIELD VERIFY LOCATION, DEPTH AND SIZE OF EXISTING UTILITY TO ENSURE CONFLICTS DO NOT EXIST WITH PROPOSED UTILITIES.
 M3. POTENTIAL UTILITY CONFLICT. ALL (WATER, SANITARY, DRAINAGE STORM) CROSSINGS TO HAVE 18" MIN. VERTICAL CLEARANCE. ALL WATER SERVICE LINES TO REMAIN PERPENDICULAR AT CROSSING IN SUCH THAT IT FORMS AN ANGLE BETWEEN 45° AND 90°.
 NOTE: CONTRACTOR TO VERIFY WATER, SANITARY, GAS, & ETC LOCATIONS, SIZES AND TYPES WITH MEP PLANS PRIOR TO ORDERING MATERIALS.

GENERAL PLAN NOTES
 REFER TO GENERAL NOTES SHEET FOR MORE INFORMATION INCLUDING THE FOLLOWING: (EXISTING LEGEND, BENCHMARK INFORMATION, AND SPECIFIC GENERAL PLAN NOTES.)

Kimley-Horn
 ©2024 KIMLEY-HORN AND ASSOCIATES, INC.
 500 EAST 96TH STREET, SUITE 300,
 INDIANAPOLIS, IN 46240
 PHONE: 317-218-9560
 WWW.KIMLEY-HORN.COM
 KHA PROJECT # 170509000



This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND_DEV\170509000_Cooper&Associates_Plant\IND_SiteImprovements\SI-UTILITY_Plan.dwg 2511 Oct 10, 2024 11:45pm By: Anthony Maglity

Indiana Utilities Protection Service



UTILITY LEGEND

- PROPOSED UNDERGROUND ELECTRIC LINE
- PROPOSED GAS LINE (BY GAS COMPANY)
- PROPOSED PHONE LINE
- PROPOSED ROOF DRAIN LINE
- PROPOSED UNDERDRAIN
- PROPOSED SWALE
- PROPOSED STORM SEWER LINE
- STRUCTURE ID
- PROPOSED STORM STRUCTURES
- PROPOSED SANITARY SEWER LINE
- PROPOSED SANITARY LATERAL LINE
- PROPOSED SANITARY MANHOLE
- PROPOSED STORM/SANITARY CLEANOUT
- PROPOSED WATER LINE
- PROPOSED FIRE PROTECTION LINE
- PROPOSED WATER VALVE BOX, PIV, METER
- PROPOSED FIRE HYDRANT, FIRE DEPT CONN. & VAULT
- PROPOSED WATER BENDS & TEE
- PROPOSED LIGHT POLE
- PROPOSED TRANSFORMER PAD (BY OTHERS)

KEY NOTES

- (D) DRAINAGE STORM SEWER
- D1. ROOF DRAIN CLEANOUT
- D2. 12" PVC ROOF DRAIN LINE
- D3. CONNECT ROOF DRAIN TO STRUCTURE
- D4. 4" HDPE PERFORATED SPIDER DRAIN (SEE DETAILS)
- D5. 18" PVC ROOF DRAIN LINE
- D6. 8" PVC ROOF DRAIN LINE
- D7. 6" PVC STORM CLEANOUT
- D8. 6" PVC PERFORATED UNDERDRAIN (SEE DETAILS) - RODENT GUARD AT ALL POND OUTLETS
- (S) SANITARY SEWER
- S1. SANITARY CLEANOUT
- S2. 6" PVC SDR 26 LATERAL LINE @ MIN. 1.04%
- S3. 8" PVC SDR 26 LATERAL LINE @ MIN. 1.04%
- S4. CONNECT TO PUBLIC SANITARY MAIN (SEE ROADWAY SHEETS)
- S5. OIL SEPARATOR (SEE MEP PLANS FOR MORE DETAILS)
- (W) WATER LINE
- W1. FIRE HYDRANT AND VALVE ASSEMBLY ON 6" HYDRANT LEAD
- W2. WATER TEE
- W3. WATER BEND
- W4. WATER VAULT PER INAW REQUIREMENTS (SEE DETAILS)
- W5. DUAL METER PITS PER INAW REQUIREMENTS (SEE DETAILS)
- W6. FIRE DEPT CONNECTION (FDC) WITH 6" LEAD & IDENTIFICATION SIGN
- W7. POST INDICATOR VALVE (PIV) WITH IDENTIFICATION SIGN (INSIDE VAULT)
- W8. CONNECT TO PUBLIC WATER MAIN (LIVE TAP-SEE ROADWAY SHEETS)
- W9. 10" C900 PVC FIRE PROTECTION LINE
- W10. TEMPORARY FIRE HYDRANT
- W11. WATER VALVE
- W12. REDUCER
- W13. 10" C900 PVC WATER MAIN
- W14. 6" C900 PVC DOMESTIC WATER LINE
- W15. 1.5" IRRIGATION SERVICE AND METER
- (G) GAS LINE
- G1. GAS SERVICE LINE
- (E) ELECTRIC / TELEPHONE / CABLE
- E1. ELECTRIC SERVICE LINE
- E2. ELECTRIC TRANSFORMER
- E3. FIBER/TELECOMMUNICATIONS LINE
- (M) MISCELLANEOUS
- M1. CONTRACTOR TO COORDINATE CONNECTION WITH UTILITY PROVIDER.
- M2. CONTRACTOR TO FIELD VERIFY LOCATION, DEPTH AND SIZE OF EXISTING UTILITY TO ENSURE CONFLICTS DO NOT EXIST WITH PROPOSED UTILITIES.
- M3. POTENTIAL UTILITY CONFLICT. ALL (WATER, SANITARY, DRAINAGE STORM) CROSSINGS TO HAVE 18" MIN. VERTICAL CLEARANCE. ALL WATER SERVICE LINES TO REMAIN PERPENDICULAR AT CROSSING IN SUCH THAT IT FORMS AN ANGLE BETWEEN 45° AND 90°.

GENERAL PLAN NOTES

REFER TO GENERAL NOTES SHEET FOR MORE INFORMATION INCLUDING THE FOLLOWING: EXISTING LEGEND, BENCHMARK INFORMATION, AND SPECIFIC GENERAL PLAN NOTES.



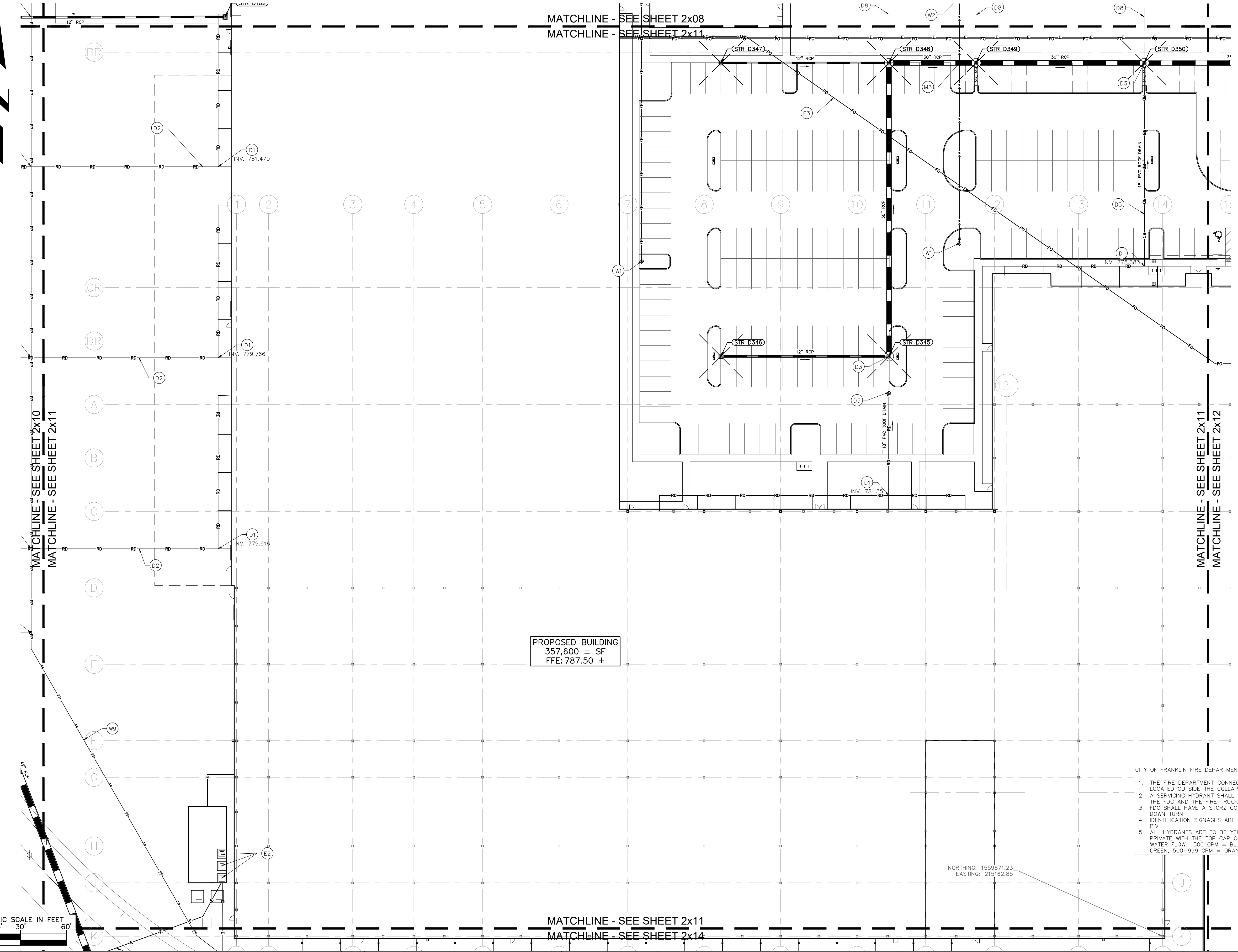
©2024 KIMLEY-HORN AND ASSOCIATES, INC.
 500 EAST 96TH STREET, SUITE 300,
 INDIANAPOLIS, IN 46240
 PHONE: 317-218-9560
 WWW.KIMLEY-HORN.COM
 KHA PROJECT # 170509000



MALARKEY,IND FRANKLIN,IN

TITLE- PHASE 2 - FINAL BUILDOUT
 UTILITY PLAN

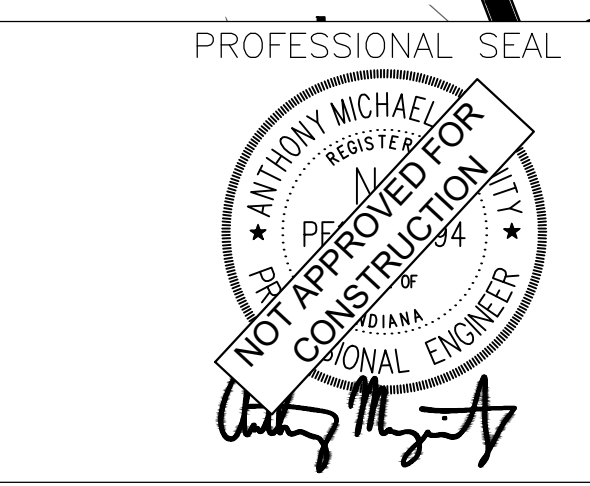
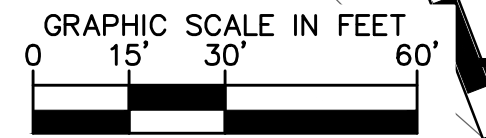
PROJ. NO.	170509000
DWG. NO.	2511
SHEET	0
REV	0



PROPOSED BUILDING
 357,600 ± SF
 FFE: 787.50 ±

CITY OF FRANKLIN FIRE DEPARTMENT NOTES:
 1. THE FIRE DEPARTMENT CONNECTION (FDC) SHALL BE LOCATED OUTSIDE THE COLLAPSE ZONE.
 2. A SERVICING HYDRANT SHALL BE LOCATED WITHIN 20' OF THE FDC AND THE FIRE TRUCK ACCESS.
 3. FDC SHALL HAVE A STORZ CONNECTION WITH A 30" DOWN TURN.
 4. IDENTIFICATION SIGNAGES ARE REQUIRED FOR FDC AND PIV.
 5. ALL HYDRANTS ARE TO BE YELLOW IF PUBLIC, RED IF PRIVATE WITH THE TOP CAP COLOR CODED TO SHOW WATER FLOW. 1500 GPM = BLUE, 1000-1499 GPM = GREEN, 500-999 GPM = ORANGE

NORTHING: 1559671.23
 EASTING: 215162.85



NOTICE
 THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.

DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

SCALE: AS NOTED
 DRWN.: VG
 CHKD.: AMM
 APPD.:
 APPD.:
 DATE : 10/10/24



Engineers - Project Managers
 2200 Ellis Road, New Lenox, Illinois, 60451
 Ph. (844) 251-7823 www.quadplus.com

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND\DEV\170509000_Cooper&Associates_Plant_Franklin_IN\2 Site Improvements\21-UTILITY PLN\DWG 2512 - 04.10.2024 1:49pm By: AnthonyMaglity

Indiana Utilities Protection Service



UTILITY LEGEND

- PROPOSED UNDERGROUND ELECTRIC LINE
- PROPOSED GAS LINE (BY GAS COMPANY)
- PROPOSED PHONE LINE
- PROPOSED ROOF DRAIN LINE
- PROPOSED UNDERDRAIN
- PROPOSED SWALE
- PROPOSED STORM SEWER LINE
- STRUCTURE ID
- PROPOSED STORM STRUCTURES
- PROPOSED SANITARY SEWER LINE
- PROPOSED SANITARY LATERAL LINE
- PROPOSED SANITARY MANHOLE
- PROPOSED STORM/SANITARY CLEANOUT
- PROPOSED WATER LINE
- PROPOSED FIRE PROTECTION LINE
- PROPOSED WATER VALVE BOX, PIV, METER
- PROPOSED FIRE HYDRANT, FIRE DEPT CONN. & VAULT
- PROPOSED WATER BENDS & TEE
- PROPOSED LIGHT POLE
- PROPOSED TRANSFORMER PAD (BY OTHERS)

KEY NOTES

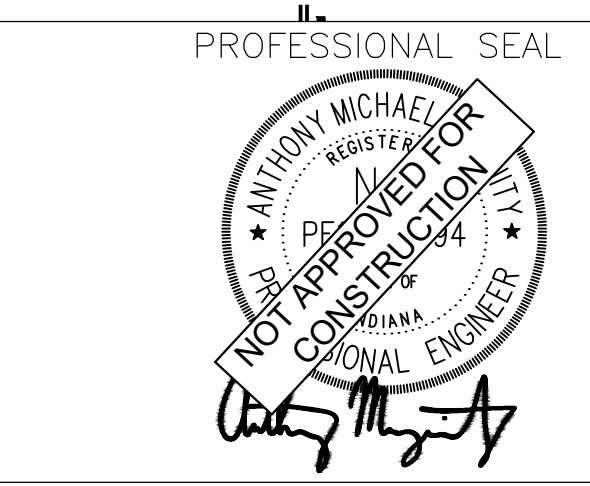
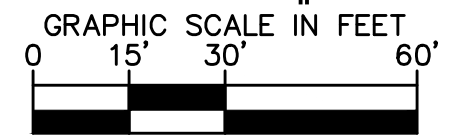
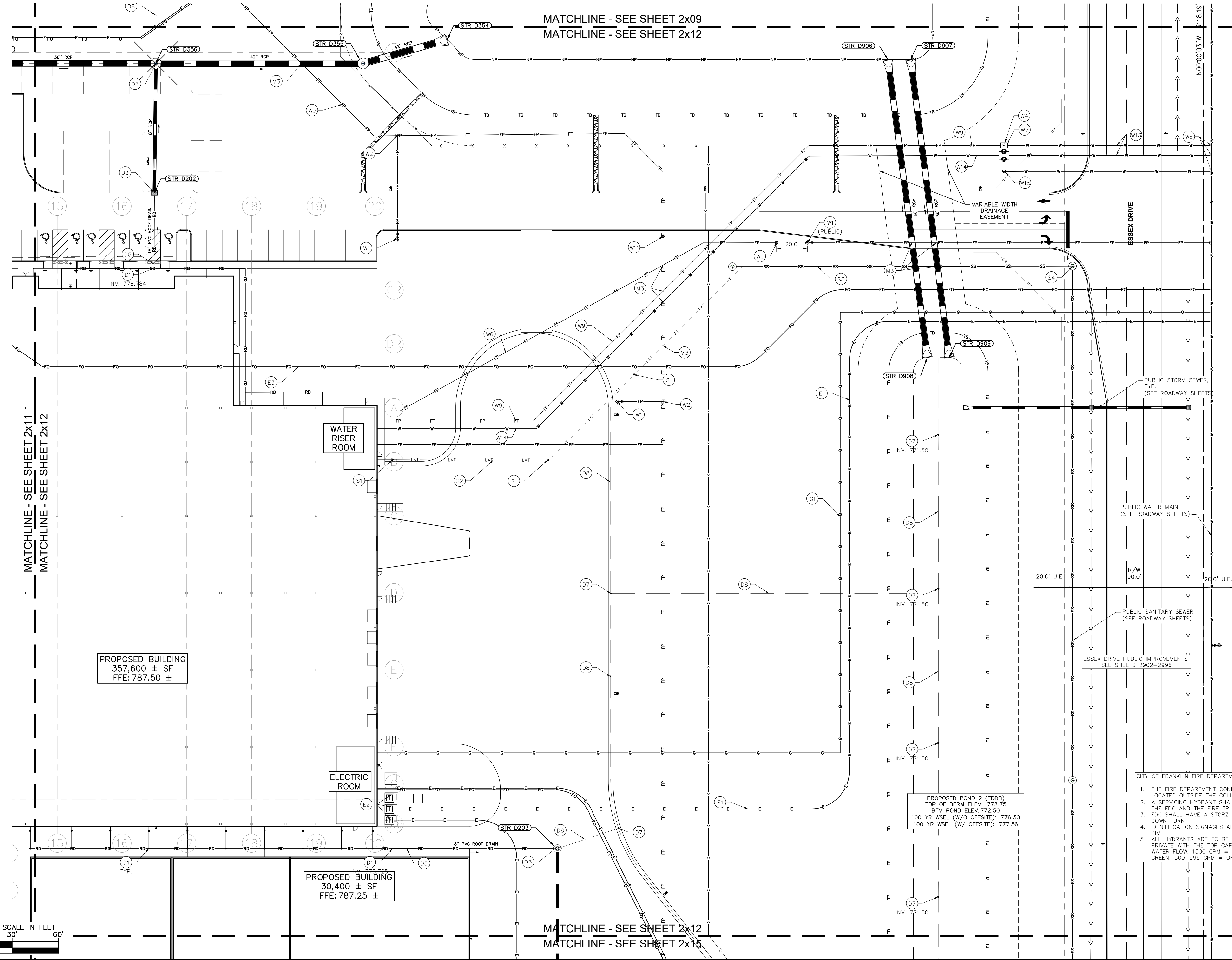
- (D) DRAINAGE, STORM SEWER
- D1. ROOF DRAIN CLEANOUT
 - D2. 12" PVC ROOF DRAIN LINE
 - D3. CONNECT ROOF DRAIN TO STRUCTURE
 - D4. 4" HDPE PERFORATED SPIDER DRAIN (SEE DETAILS)
 - D5. 18" PVC ROOF DRAIN LINE
 - D6. 8" PVC ROOF DRAIN LINE
 - D7. 6" PVC STORM CLEANOUT
 - D8. 6" PVC PERFORATED UNDERDRAIN (SEE DETAILS) - RODENT GUARD AT ALL POND OUTLETS
- (S) SANITARY SEWER
- S1. SANITARY CLEANOUT
 - S2. 6" PVC SDR 26 LATERAL LINE @ MIN. 1.04%
 - S3. 8" PVC SDR 26 LATERAL LINE @ MIN. 1.04%
 - S4. CONNECT TO PUBLIC SANITARY MAIN (SEE ROADWAY SHEETS)
 - S5. OIL SEPARATOR (SEE MEP PLANS FOR MORE DETAILS)
- (W) WATER LINE
- W1. FIRE HYDRANT AND VALVE ASSEMBLY ON 6" HYDRANT LEAD
 - W2. WATER TEE
 - W3. WATER BEND
 - W4. WATER VAULT PER INAW REQUIREMENTS (SEE DETAILS)
 - W5. DUAL METER PITS PER INAW REQUIREMENTS (SEE DETAILS)
 - W6. FIRE DEPT CONNECTION (FDC) WITH 6" LEAD & IDENTIFICATION SIGN
 - W7. POST INDICATOR VALVE (PIV) WITH IDENTIFICATION SIGN (INSIDE VAULT)
 - W8. CONNECT TO PUBLIC WATER MAIN (LIVE TAP-SEE ROADWAY SHEETS)
 - W9. 10" C900 PVC FIRE PROTECTION LINE
 - W10. TEMPORARY FIRE HYDRANT
 - W11. WATER VALVE
 - W12. REDUCER
 - W13. 10" C900 PVC WATER MAIN
 - W14. 6" C900 PVC DOMESTIC WATER LINE
 - W15. 1.5" IRRIGATION SERVICE AND METER
- (G) GAS LINE
- G1. GAS SERVICE LINE
- (E) ELECTRIC / TELEPHONE / CABLE
- E1. ELECTRIC SERVICE LINE
 - E2. ELECTRIC TRANSFORMER
 - E3. FIBER/TELECOMMUNICATIONS LINE
- (M) MISCELLANEOUS
- M1. CONTRACTOR TO COORDINATE CONNECTION WITH UTILITY PROVIDER.
 - M2. CONTRACTOR TO FIELD VERIFY LOCATION, DEPTH AND SIZE OF EXISTING UTILITY TO ENSURE CONFLICTS DO NOT EXIST WITH PROPOSED UTILITIES.
 - M3. POTENTIAL UTILITY CONFLICT. ALL (WATER, SANITARY, DRAINAGE, STORM) CROSSINGS TO HAVE 18" MIN. VERTICAL CLEARANCE. ALL WATER SERVICE LINES TO REMAIN PERPENDICULAR AT CROSSING IN SUCH THAT IT FORMS AN ANGLE BETWEEN 45° AND 90°.
- NOTE: CONTRACTOR TO VERIFY WATER, SANITARY, GAS, & ETC LOCATIONS, SIZES AND TYPES WITH MEP PLANS PRIOR TO ORDERING MATERIALS.

GENERAL PLAN NOTES

REFER TO GENERAL NOTES SHEET FOR MORE INFORMATION INCLUDING THE FOLLOWING: EXISTING LEGEND, BENCHMARK INFORMATION, AND SPECIFIC GENERAL PLAN NOTES.



©2024 KIMLEY-HORN AND ASSOCIATES, INC.
 500 EAST 96TH STREET, SUITE 300,
 INDIANAPOLIS, IN 46240
 PHONE: 317-218-9560
 WWW.KIMLEY-HORN.COM
 KHA PROJECT # 170509000



NOTICE
 THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.

DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

SCALE: AS NOTED
 DRWN.: VG
 CHKD.: AMM
 APPD.:
 APPD.:
 DATE : 10/10/24



Engineers - Project Managers
 2200 Ellis Road, New Lenox, Illinois, 60451
 Ph. (844) 251-7823 www.quadplus.com



MALARKEY,IND FRANKLIN,IN
 PHASE 2 - FINAL BUILDOUT
 UTILITY PLAN

PROJ. NO. 170509000
DWG. NO. 2512
SHEET 0
REV 0



UTILITY LEGEND

	PROPOSED UNDERGROUND ELECTRIC LINE
	PROPOSED GAS LINE (BY GAS COMPANY)
	PROPOSED PHONE LINE
	PROPOSED ROOF DRAIN LINE
	PROPOSED UNDERDRAIN
	PROPOSED SWALE
	PROPOSED STORM SEWER LINE
	STRUCTURE ID
	PROPOSED STORM STRUCTURES
	PROPOSED SANITARY SEWER LINE
	PROPOSED SANITARY LATERAL LINE
	PROPOSED SANITARY MANHOLE
	PROPOSED STORM/SANITARY CLEANOUT
	PROPOSED WATER LINE
	PROPOSED FIRE PROTECTION LINE
	PROPOSED WATER VALVE BOX, PIV, METER FIRE HYDRANT, FIRE DEPT CONN. & VAULT
	PROPOSED WATER BENDS & TEE
	PROPOSED LIGHT POLE
	PROPOSED TRANSFORMER PAD (BY OTHERS)

KEY NOTES

- (D) DRAINAGE STORM SEWER
- D1. ROOF DRAIN CLEANOUT
 - D2. 12" PVC ROOF DRAIN LINE
 - D3. CONNECT ROOF DRAIN TO STRUCTURE
 - D4. 4" HDPE PERFORATED SPIDER DRAIN (SEE DETAILS)
 - D5. 18" PVC ROOF DRAIN LINE
 - D6. 8" PVC ROOF DRAIN LINE
 - D7. 6" PVC STORM CLEANOUT
 - D8. 6" PVC PERFORATED UNDERDRAIN (SEE DETAILS) - RODENT GUARD AT ALL POND OUTLETS
- (S) SANITARY SEWER
- S1. SANITARY CLEANOUT
 - S2. 6" PVC SDR 26 LATERAL LINE @ MIN. 1.04%
 - S3. 8" PVC SDR 26 LATERAL LINE @ MIN. 1.04%
 - S4. CONNECT TO PUBLIC SANITARY MAIN (SEE ROADWAY SHEETS)
 - S5. OIL SEPARATOR (SEE MEP PLANS FOR MORE DETAILS)
- (W) WATER LINE
- W1. FIRE HYDRANT AND VALVE ASSEMBLY ON 6" HYDRANT LEAD
 - W2. WATER TEE
 - W3. WATER BEND
 - W4. WATER VAULT PER INAW REQUIREMENTS (SEE DETAILS)
 - W5. DUAL METER PITS PER INAW REQUIREMENTS (SEE DETAILS)
 - W6. FIRE DEPT CONNECTION (FDC) WITH 6" LEAD & IDENTIFICATION SIGN
 - W7. POST INDICATOR VALVE (PIV) WITH IDENTIFICATION SIGN (INSIDE VAULT)
 - W8. CONNECT TO PUBLIC WATER MAIN (LIVE TAP-SEE ROADWAY SHEETS)
 - W9. 10" C900 PVC FIRE PROTECTION LINE
 - W10. TEMPORARY FIRE HYDRANT
 - W11. WATER VALVE
 - W12. REDUCER
 - W13. 10" C900 PVC WATER MAIN
 - W14. 6" C900 PVC DOMESTIC WATER LINE
 - W15. 1.5" IRRIGATION SERVICE AND METER
- (G) GAS LINE
- G1. GAS SERVICE LINE
- (E) ELECTRIC / TELEPHONE / CABLE
- E1. ELECTRIC SERVICE LINE
 - E2. ELECTRIC TRANSFORMER
 - E3. FIBER/TELECOMMUNICATIONS LINE
- (M) MISCELLANEOUS
- M1. CONTRACTOR TO COORDINATE CONNECTION WITH UTILITY PROVIDER.
 - M2. CONTRACTOR TO FIELD VERIFY LOCATION, DEPTH AND SIZE OF EXISTING UTILITY TO ENSURE CONFLICTS DO NOT EXIST WITH PROPOSED UTILITIES.
 - M3. POTENTIAL UTILITY CONFLICT. ALL (WATER, SANITARY, DRAINAGE STORM) CROSSINGS TO HAVE 18" MIN. VERTICAL CLEARANCE. ALL WATER SERVICE LINES TO REMAIN PERPENDICULAR AT CROSSING IN SUCH THAT IT FORMS AN ANGLE BETWEEN 45° AND 90°.
- NOTE: CONTRACTOR TO VERIFY WATER, SANITARY, GAS, & ETC LOCATIONS, SIZES AND TYPES WITH MEP PLANS PRIOR TO ORDERING MATERIALS.

- CITY OF FRANKLIN FIRE DEPARTMENT NOTES:
1. THE FIRE DEPARTMENT CONNECTION (FDC) SHALL BE LOCATED OUTSIDE THE COLLAPSE ZONE.
 2. A SERVICING HYDRANT SHALL BE LOCATED WITHIN 20' OF THE FDC AND THE FIRE TRUCK ACCESS.
 3. FDC SHALL HAVE A STORZ CONNECTION WITH A 30' DOWN TURN.
 4. IDENTIFICATION SIGNAGES ARE REQUIRED FOR FDC AND PIV.
 5. ALL HYDRANTS ARE TO BE YELLOW IF PUBLIC, RED IF PRIVATE WITH THE TOP CAP COLOR CODED TO SHOW WATER FLOW. 1500 GPM = BLUE, 1000-1499 GPM = GREEN, 500-999 GPM = ORANGE

GENERAL PLAN NOTES

REFER TO GENERAL NOTES SHEET FOR MORE INFORMATION INCLUDING THE FOLLOWING: EXISTING LEGEND, BENCHMARK INFORMATION, AND SPECIFIC GENERAL PLAN NOTES.



©2024 KIMLEY-HORN AND ASSOCIATES, INC.
500 EAST 96TH STREET, SUITE 300,
INDIANAPOLIS, IN 46240
PHONE: 317-218-9560
WWW.KIMLEY-HORN.COM
KHA PROJECT # 170509000



MALARKEY,IND FRANKLIN,IN

TITLE- PHASE 2 - FINAL BUILDOUT
UTILITY PLAN

PROJ. NO.
170509000

DWG. NO.
2513

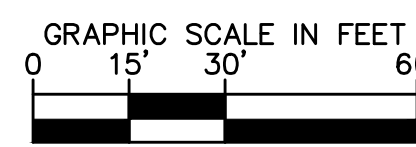
SHEET
REV 0



Engineers - Project Managers
2200 Ellis Road, New Lenox, Illinois, 60451
Ph. (844) 251-7823 www.quadplus.com

MATCHLINE - SEE SHEET 2x10
MATCHLINE - SEE SHEET 2x13

MATCHLINE - SEE SHEET 2x13
MATCHLINE - SEE SHEET 2x14



	<p>PROFESSIONAL SEAL</p>
	<p>NOTICE</p> <p>THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC</p> <p>AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.</p> <p>DWG SIZE: 36" X 24"</p>

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

SCALE: AS NOTED
DRWN.: VG
CHKD.: AMM
APPD.:
APPD.:
DATE : 10/10/24

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND\DEV\170509000_Cooper&Associates_Plant_Franklin_IN\2 Design\CD\PlanSheets\CD Site Improvements\81-UTILITY PLUMBING 2513 - 04.10.2024 1:48pm By: AnthonyMogality



before you dig

UTILITY LEGEND

- PROPOSED UNDERGROUND ELECTRIC LINE
- PROPOSED GAS LINE (BY GAS COMPANY)
- PROPOSED PHONE LINE
- PROPOSED ROOF DRAIN LINE
- PROPOSED UNDERDRAIN
- PROPOSED SWALE
- PROPOSED STORM SEWER LINE
- STRUCTURE ID
- PROPOSED STORM STRUCTURES
- PROPOSED SANITARY SEWER LINE
- PROPOSED SANITARY LATERAL LINE
- PROPOSED SANITARY MANHOLE
- PROPOSED STORM/SANITARY CLEANOUT
- PROPOSED WATER LINE
- PROPOSED FIRE PROTECTION LINE
- PROPOSED WATER VALVE BOX, PIV, METER, FIRE HYDRANT, FIRE DEPT CONN. & VAULT
- PROPOSED WATER BENDS & TEE
- PROPOSED LIGHT POLE
- PROPOSED TRANSFORMER PAD (BY OTHERS)

KEY NOTES

- (D) DRAINAGE, STORM SEWER
- D1. ROOF DRAIN CLEANOUT
 - D2. 12" PVC ROOF DRAIN LINE
 - D3. CONNECT ROOF DRAIN TO STRUCTURE
 - D4. 4" HDPE PERFORATED SPIDER DRAIN (SEE DETAILS)
 - D5. 18" PVC ROOF DRAIN LINE
 - D6. 8" PVC ROOF DRAIN LINE
 - D7. 6" PVC STORM CLEANOUT
 - D8. 6" PVC PERFORATED UNDERDRAIN (SEE DETAILS) - RODENT GUARD AT ALL POND OUTLETS
- (S) SANITARY SEWER
- S1. SANITARY CLEANOUT
 - S2. 6" PVC SDR 26 LATERAL LINE @ MIN. 1.04%
 - S3. 8" PVC SDR 26 LATERAL LINE @ MIN. 1.04%
 - S4. CONNECT TO PUBLIC SANITARY MAIN (SEE ROADWAY SHEETS)
 - S5. OIL SEPARATOR (SEE MEP PLANS FOR MORE DETAILS)
- (W) WATER LINE
- W1. FIRE HYDRANT AND VALVE ASSEMBLY ON 6" HYDRANT LEAD
 - W2. WATER TEE
 - W3. WATER BEND
 - W4. WATER VAULT PER INAW REQUIREMENTS (SEE DETAILS)
 - W5. DUAL METER PITS PER INAW REQUIREMENTS (SEE DETAILS)
 - W6. FIRE DEPT CONNECTION (FDC) WITH 6" LEAD & IDENTIFICATION SIGN
 - W7. POST INDICATOR VALVE (PIV) WITH IDENTIFICATION SIGN (INSIDE VAULT)
 - W8. CONNECT TO PUBLIC WATER MAIN (LIVE TAP-SEE ROADWAY SHEETS)
 - W9. 10" C900 PVC FIRE PROTECTION LINE
 - W10. TEMPORARY FIRE HYDRANT
 - W11. WATER VALVE
 - W12. REDUCER
 - W13. 10" C900 PVC WATER MAIN
 - W14. 6" C900 PVC DOMESTIC WATER LINE
 - W15. 1.5" IRRIGATION SERVICE AND METER
- (G) GAS LINE
- G1. GAS SERVICE LINE
- (E) ELECTRIC / TELEPHONE / CABLE
- E1. ELECTRIC SERVICE LINE
 - E2. ELECTRIC TRANSFORMER
 - E3. FIBER/TELECOMMUNICATIONS LINE
- (M) MISCELLANEOUS
- M1. CONTRACTOR TO COORDINATE CONNECTION WITH UTILITY PROVIDER.
 - M2. CONTRACTOR TO FIELD VERIFY LOCATION, DEPTH AND SIZE OF EXISTING UTILITY TO ENSURE CONFLICTS DO NOT EXIST WITH PROPOSED UTILITIES.
 - M3. POTENTIAL UTILITY CONFLICT. ALL (WATER, SANITARY, DRAINAGE, STORM) CROSSINGS TO HAVE 18" MIN. VERTICAL CLEARANCE. ALL WATER SERVICE LINES TO REMAIN PERPENDICULAR AT CROSSING IN SUCH THAT IT FORMS AN ANGLE BETWEEN 45° AND 90°.
- NOTE: CONTRACTOR TO VERIFY WATER, SANITARY, GAS, & ETC LOCATIONS, SIZES AND TYPES WITH MEP PLANS PRIOR TO ORDERING MATERIALS.

- CITY OF FRANKLIN FIRE DEPARTMENT NOTES:
1. THE FIRE DEPARTMENT CONNECTION (FDC) SHALL BE LOCATED OUTSIDE THE COLLAPSE ZONE.
 2. A SERVING HYDRANT SHALL BE LOCATED WITHIN 20' OF THE FDC AND THE FIRE TRUCK ACCESS.
 3. FDC SHALL HAVE A STORZ CONNECTION WITH A 30° DOWN TURN.
 4. IDENTIFICATION SIGNAGES ARE REQUIRED FOR FDC AND PIV.
 5. ALL HYDRANTS ARE TO BE YELLOW IF PUBLIC, RED IF PRIVATE WITH THE TOP CAP COLOR CODED TO SHOW WATER FLOW. 1500 GPM = BLUE, 1000-1499 GPM = GREEN, 500-999 GPM = ORANGE.

GENERAL PLAN NOTES

REFER TO GENERAL NOTES SHEET FOR MORE INFORMATION INCLUDING THE FOLLOWING: EXISTING LEGEND, BENCHMARK INFORMATION, AND SPECIFIC GENERAL PLAN NOTES.

Kimley»Horn

500 EAST 96TH STREET, SUITE 300,
INDIANAPOLIS, IN 46240
PHONE: 317-218-9560
WWW.KIMLEY-HORN.COM
KHA PROJECT # 170509000



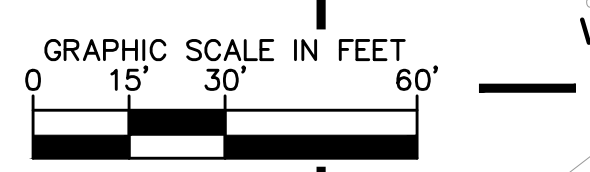
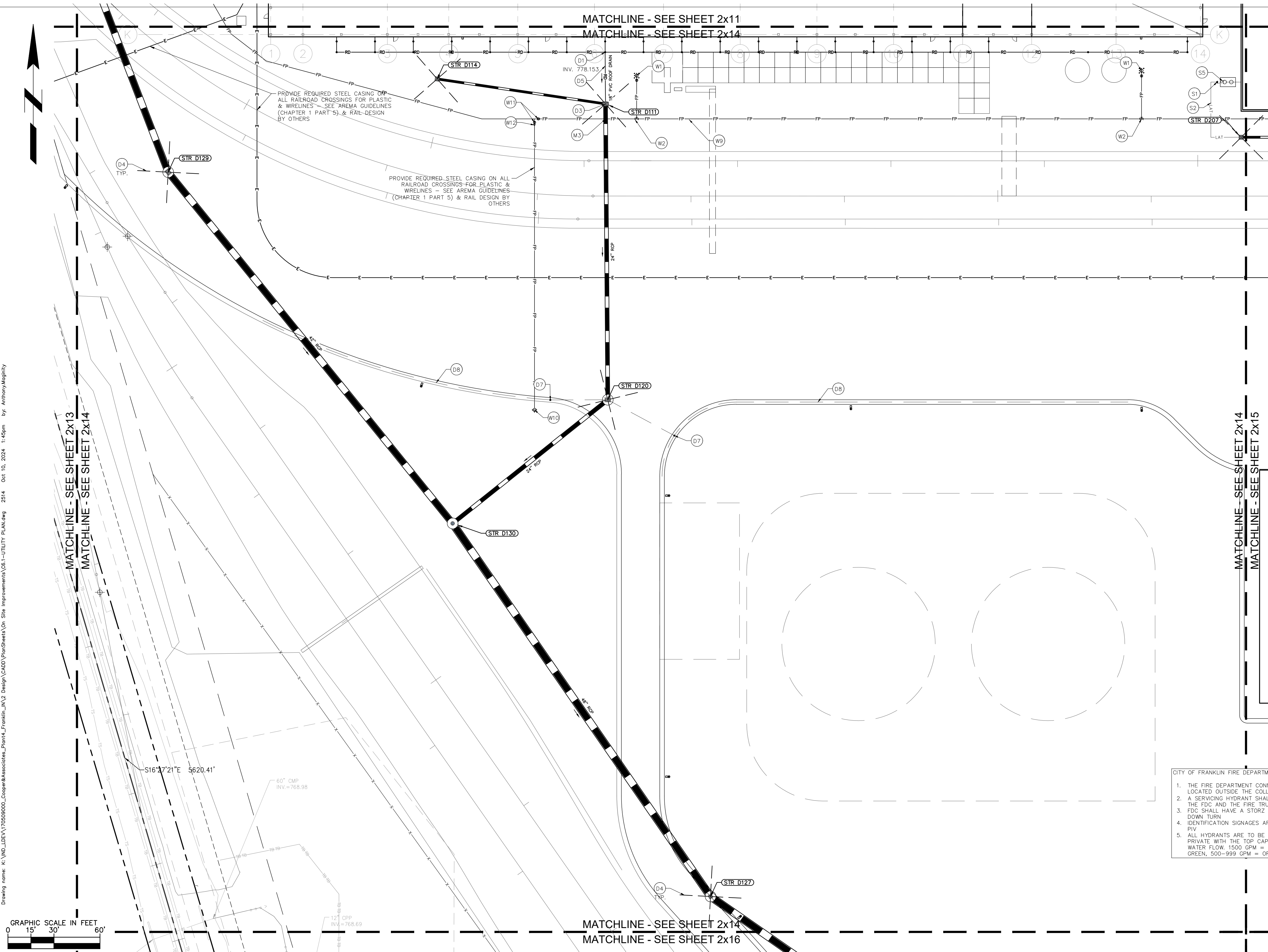
MALARKEY,IND FRANKLIN,IN

PROJ. NO.
170509000
DWG. NO.
2514
SHEET
REV 0

TITLE - PHASE 2 - FINAL BUILDOUT
UTILITY PLAN



Engineers - Project Managers
2200 Ellis Road, New Lenox, Illinois, 60451
Ph. (844) 251-7823 www.quadplus.com



PROFESSIONAL SEAL
ANTHONY MICHAEL REGISTERED PROFESSIONAL ENGINEER
NOT FOR CONSTRUCTION
INDIANA
10/10/24

NOTICE
THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.
DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

SCALE: AS NOTED
DRWN.: VG
CHKD.: AMM
APPD.:
APPD.:
DATE : 10/10/24



UTILITY LEGEND

- PROPOSED UNDERGROUND ELECTRIC LINE
- PROPOSED GAS LINE (BY GAS COMPANY)
- PROPOSED PHONE LINE
- PROPOSED ROOF DRAIN LINE
- PROPOSED UNDERDRAIN
- PROPOSED SWALE
- PROPOSED STORM SEWER LINE
- STRUCTURE ID
- PROPOSED STORM STRUCTURES
- PROPOSED SANITARY SEWER LINE
- PROPOSED SANITARY LATERAL LINE
- PROPOSED SANITARY MANHOLE
- PROPOSED STORM/SANITARY CLEANOUT
- PROPOSED WATER LINE
- PROPOSED FIRE PROTECTION LINE
- PROPOSED WATER VALVE BOX, PIV, METER, FIRE HYDRANT, FIRE DEPT CONN. & VAULT
- PROPOSED WATER BENDS & TEE
- PROPOSED LIGHT POLE
- PROPOSED TRANSFORMER PAD (BY OTHERS)

KEY NOTES

- (D) DRAINAGE, STORM, SEWER
- D1. ROOF DRAIN CLEANOUT
 - D2. 12" PVC ROOF DRAIN LINE
 - D3. CONNECT ROOF DRAIN TO STRUCTURE
 - D4. 4" HDPE PERFORATED SPIDER DRAIN (SEE DETAILS)
 - D5. 18" PVC ROOF DRAIN LINE
 - D6. 8" PVC ROOF DRAIN LINE
 - D7. 6" PVC STORM CLEANOUT
 - D8. 6" PVC PERFORATED UNDERDRAIN (SEE DETAILS) - RODENT GUARD AT ALL POND OUTLETS
- (S) SANITARY SEWER
- S1. SANITARY CLEANOUT
 - S2. 6" PVC SDR 26 LATERAL LINE @ MIN. 1.04%
 - S3. 8" PVC SDR 26 LATERAL LINE @ MIN. 1.04%
 - S4. CONNECT TO PUBLIC SANITARY MAIN (SEE ROADWAY SHEETS)
 - S5. OIL SEPARATOR (SEE MEP PLANS FOR MORE DETAILS)
- (W) WATER LINE
- W1. FIRE HYDRANT AND VALVE ASSEMBLY ON 6" HYDRANT LEAD
 - W2. WATER TEE
 - W3. WATER BEND
 - W4. WATER VAULT PER INAW REQUIREMENTS (SEE DETAILS)
 - W5. DUAL METER PITS PER INAW REQUIREMENTS (SEE DETAILS)
 - W6. FIRE DEPT CONNECTION (FDC) WITH 6" LEAD & IDENTIFICATION SIGN
 - W7. POST INDICATOR VALVE (PIV) WITH IDENTIFICATION SIGN (INSIDE VAULT)
 - W8. CONNECT TO PUBLIC WATER MAIN (LIVE TAP-SEE ROADWAY SHEETS)
 - W9. 10" C900 PVC FIRE PROTECTION LINE
 - W10. TEMPORARY FIRE HYDRANT
 - W11. WATER VALVE
 - W12. REDUCER
 - W13. 10" C900 PVC WATER MAIN
 - W14. 6" C900 PVC DOMESTIC WATER LINE
 - W15. 1.5" IRRIGATION SERVICE AND METER
- (G) GAS LINE
- G1. GAS SERVICE LINE
- (E) ELECTRIC / TELEPHONE / CABLE
- E1. ELECTRIC SERVICE LINE
 - E2. ELECTRIC TRANSFORMER
 - E3. FIBER/TELECOMMUNICATIONS LINE
- (M) MISCELLANEOUS
- M1. CONTRACTOR TO COORDINATE CONNECTION WITH UTILITY PROVIDER.
 - M2. CONTRACTOR TO FIELD VERIFY LOCATION, DEPTH AND SIZE OF EXISTING UTILITY TO ENSURE CONFLICTS DO NOT EXIST WITH PROPOSED UTILITIES.
 - M3. POTENTIAL UTILITY CONFLICT. ALL (WATER, SANITARY, DRAINAGE, STORM) CROSSINGS TO HAVE 18" MIN. VERTICAL CLEARANCE. ALL WATER SERVICE LINES TO REMAIN PERPENDICULAR AT CROSSING IN SUCH THAT IT FORMS AN ANGLE BETWEEN 45° AND 90°.
- NOTE: CONTRACTOR TO VERIFY WATER, SANITARY, GAS, & ETC LOCATIONS, SIZES AND TYPES WITH MEP PLANS PRIOR TO ORDERING MATERIALS.

GENERAL PLAN NOTES

REFER TO GENERAL NOTES SHEET FOR MORE INFORMATION INCLUDING THE FOLLOWING: EXISTING LEGEND, BENCHMARK INFORMATION, AND SPECIFIC GENERAL PLAN NOTES.



©2024 KIMLEY-HORN AND ASSOCIATES, INC.
 500 EAST 96TH STREET, SUITE 300,
 INDIANAPOLIS, IN 46240
 PHONE: 317-218-9560
 WWW.KIMLEY-HORN.COM
 KHA PROJECT # 170509000



MALARKEY,IND FRANKLIN,IN

TITLE - PHASE 2 - FINAL BUILDOUT
 UTILITY PLAN

PROJ. NO.
170509000
 DWG. NO.
2515
 SHEET
0
 REV

MATCHLINE - SEE SHEET 2x12
 MATCHLINE - SEE SHEET 2x15

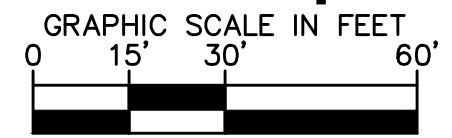
PROPOSED BUILDING
 30,400 ± SF
 FFE: 787.25 ±

PROPOSED BUILDING
 1,400 ± SF
 FFE: 785.00 ±

PROPOSED POND 2 (EDDB)
 TOP OF BERM ELEV: 778.75
 STM POND ELEV: 772.50
 100 YR WSEL (W/O OFFSITE): 776.50
 100 YR WSEL (W/ OFFSITE): 777.56

CITY OF FRANKLIN FIRE DEPARTMENT NOTES:

1. THE FIRE DEPARTMENT CONNECTION (FDC) SHALL BE LOCATED OUTSIDE THE COLLAPSE ZONE.
2. A SERVICING HYDRANT SHALL BE LOCATED WITHIN 20' OF THE FDC AND THE FIRE TRUCK ACCESS.
3. FDC SHALL HAVE A STORZ CONNECTION WITH A 30° DOWN TURN.
4. IDENTIFICATION SIGNAGES ARE REQUIRED FOR FDC AND PIV.
5. ALL HYDRANTS ARE TO BE YELLOW IF PUBLIC, RED IF PRIVATE WITH THE TOP CAP COLOR CODED TO SHOW WATER FLOW: 1500 GPM = BLUE, 1000-1499 GPM = GREEN, 500-999 GPM = ORANGE



PROFESSIONAL SEAL

NOTICE
 THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC
 AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.
 DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

SCALE: AS NOTED

DRWN.: VG
 CHKD.: AMM
 APPD.:
 APPD.:
 DATE : 10/10/24

Cooper & Associates, LLC

Engineers - Project Managers
 2200 Ellis Road, New Lenox, Illinois, 60451
 Ph. (844) 251-7823 www.quadplus.com

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND\DEV\170509000_Cooper&Associates_Plant2_Franklin_IN\2 Design\CD\03\PlanSheets\04 Site Improvements\04-1-Utility\PLN\DWG 2515 - 04.10.2024 11:49am By: AnthonyMaglity



UTILITY LEGEND

- PROPOSED UNDERGROUND ELECTRIC LINE
- PROPOSED GAS LINE (BY GAS COMPANY)
- PROPOSED PHONE LINE
- PROPOSED ROOF DRAIN LINE
- PROPOSED UNDERDRAIN
- PROPOSED SWALE
- PROPOSED STORM SEWER LINE
- STRUCTURE ID
- PROPOSED STORM STRUCTURES
- PROPOSED SANITARY SEWER LINE
- PROPOSED SANITARY LATERAL LINE
- PROPOSED SANITARY MANHOLE
- PROPOSED STORM/SANITARY CLEANOUT
- PROPOSED WATER LINE
- PROPOSED FIRE PROTECTION LINE
- PROPOSED WATER VALVE BOX, PIV, METER, FIRE HYDRANT, FIRE DEPT CONN. & VAULT
- PROPOSED WATER BENDS & TEE
- PROPOSED LIGHT POLE
- PROPOSED TRANSFORMER PAD (BY OTHERS)

KEY NOTES

- (D) DRAINAGE STORM SEWER
- D1. ROOF DRAIN CLEANOUT
 - D2. 12" PVC ROOF DRAIN LINE
 - D3. CONNECT ROOF DRAIN TO STRUCTURE
 - D4. 4" HDPE PERFORATED SPIDER DRAIN (SEE DETAILS)
 - D5. 18" PVC ROOF DRAIN LINE
 - D6. 8" PVC ROOF DRAIN LINE
 - D7. 6" PVC STORM CLEANOUT
 - D8. 6" PVC PERFORATED UNDERDRAIN (SEE DETAILS) - RODENT GUARD AT ALL POND OUTLETS
- (S) SANITARY SEWER
- S1. SANITARY CLEANOUT
 - S2. 6" PVC SDR 26 LATERAL LINE @ MIN. 1.04%
 - S3. 8" PVC SDR 26 LATERAL LINE @ MIN. 1.04%
 - S4. CONNECT TO PUBLIC SANITARY MAIN (SEE ROADWAY SHEETS)
 - S5. OIL SEPARATOR (SEE MEP PLANS FOR MORE DETAILS)
- (W) WATER LINE
- W1. FIRE HYDRANT AND VALVE ASSEMBLY ON 6" HYDRANT LEAD
 - W2. WATER TEE
 - W3. WATER BEND
 - W4. WATER VAULT PER INAW REQUIREMENTS (SEE DETAILS)
 - W5. DUAL METER PITS PER INAW REQUIREMENTS (SEE DETAILS)
 - W6. FIRE DEPT CONNECTION (FDC) WITH 6" LEAD & IDENTIFICATION SIGN
 - W7. POST INDICATOR VALVE (PIV) WITH IDENTIFICATION SIGN (INSIDE VAULT)
 - W8. CONNECT TO PUBLIC WATER MAIN (LIVE TAP-SEE ROADWAY SHEETS)
 - W9. 10" C900 PVC FIRE PROTECTION LINE
 - W10. TEMPORARY FIRE HYDRANT
 - W11. WATER VALVE
 - W12. REDUCER
 - W13. 10" C900 PVC WATER MAIN
 - W14. 6" C900 PVC DOMESTIC WATER LINE
 - W15. 1.5" IRRIGATION SERVICE AND METER
- (G) GAS LINE
- G1. GAS SERVICE LINE
- (E) ELECTRIC / TELEPHONE / CABLE
- E1. ELECTRIC SERVICE LINE
 - E2. ELECTRIC TRANSFORMER
 - E3. FIBER/TELECOMMUNICATIONS LINE
- (M) MISCELLANEOUS
- M1. CONTRACTOR TO COORDINATE CONNECTION WITH UTILITY PROVIDER.
 - M2. CONTRACTOR TO FIELD VERIFY LOCATION, DEPTH AND SIZE OF EXISTING UTILITY TO ENSURE CONFLICTS DO NOT EXIST WITH PROPOSED UTILITIES.
 - M3. POTENTIAL UTILITY CONFLICT. ALL (WATER, SANITARY, DRAINAGE STORM) CROSSINGS TO HAVE 18" MIN. VERTICAL CLEARANCE. ALL WATER SERVICE LINES TO REMAIN PERPENDICULAR AT CROSSING IN SUCH THAT IT FORMS AN ANGLE BETWEEN 45° AND 90°.
- NOTE: CONTRACTOR TO VERIFY WATER, SANITARY, GAS, & ETC LOCATIONS, SIZES AND TYPES WITH MEP PLANS PRIOR TO ORDERING MATERIALS.

- CITY OF FRANKLIN FIRE DEPARTMENT NOTES:
1. THE FIRE DEPARTMENT CONNECTION (FDC) SHALL BE LOCATED OUTSIDE THE COLLAPSE ZONE.
 2. A SERVICING HYDRANT SHALL BE LOCATED WITHIN 20' OF THE FDC AND THE FIRE TRUCK ACCESS.
 3. FDC SHALL HAVE A STORZ CONNECTION WITH A 30' DOWN TURN.
 4. IDENTIFICATION SIGNAGES ARE REQUIRED FOR FDC AND PIV.
 5. ALL HYDRANTS ARE TO BE YELLOW IF PUBLIC, RED IF PRIVATE WITH THE TOP CAP COLOR CODED TO SHOW WATER FLOW. 1500 GPM = BLUE, 1000-1499 GPM = GREEN, 500-999 GPM = ORANGE.

GENERAL PLAN NOTES

REFER TO GENERAL NOTES SHEET FOR MORE INFORMATION INCLUDING THE FOLLOWING: EXISTING LEGEND, BENCHMARK INFORMATION, AND SPECIFIC GENERAL PLAN NOTES.



©2024 KIMLEY-HORN AND ASSOCIATES, INC.
 500 EAST 96TH STREET, SUITE 300,
 INDIANAPOLIS, IN 46240
 PHONE: 317-218-9560
 WWW.KIMLEY-HORN.COM
 KHA PROJECT # 170509000



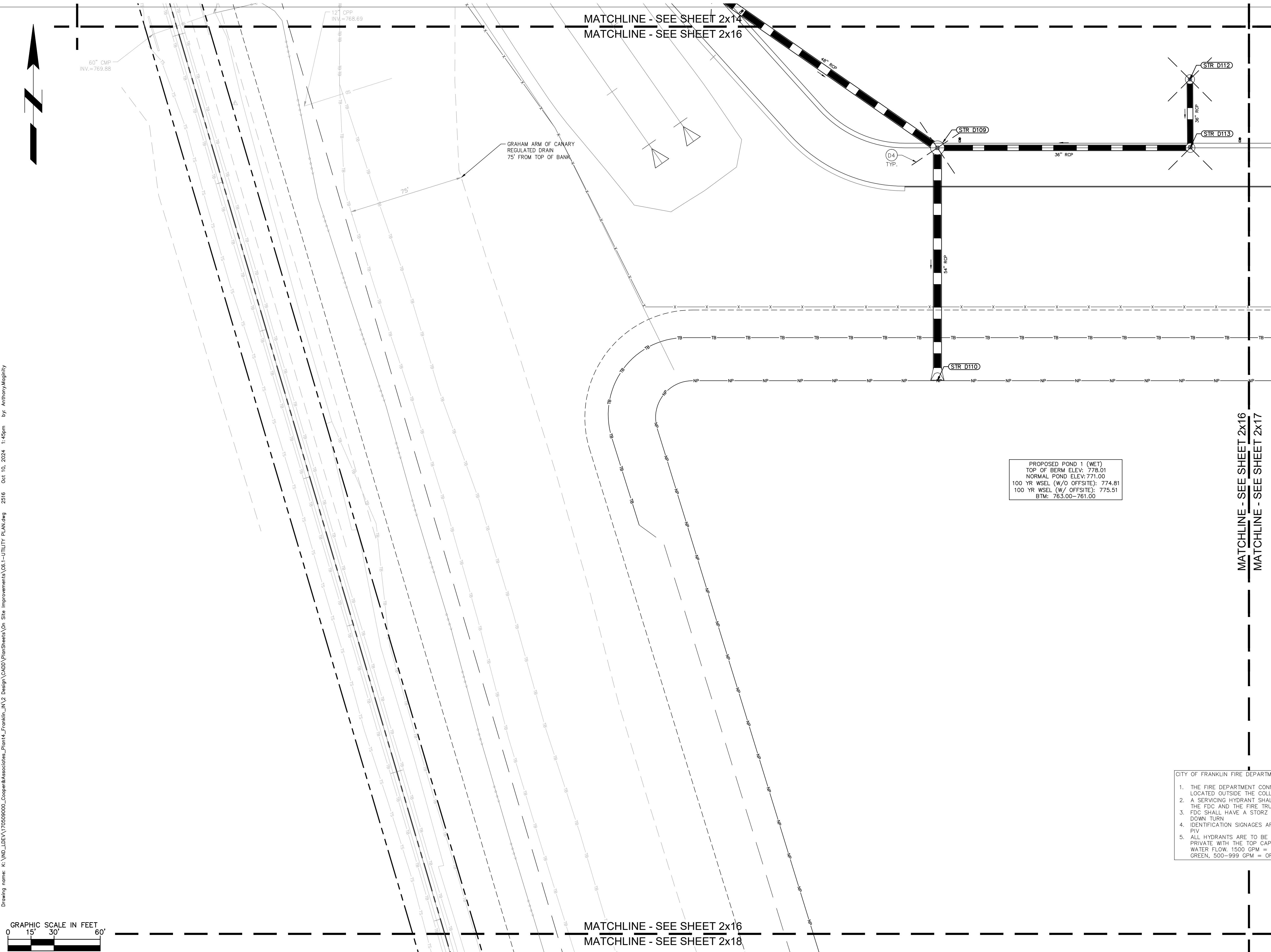
MALARKEY,IND FRANKLIN,IN

TITLE- PHASE 2 - FINAL BUILDOUT
 UTILITY PLAN

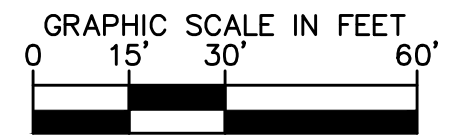
PROJ. NO.
170509000
 DWG. NO.
2516
 SHEET
0
 REV



Engineers - Project Managers
 2200 Ellis Road, New Lenox, Illinois, 60451
 Ph. (844) 251-7823 www.quadplus.com



PROPOSED POND 1 (WET)
 TOP OF BERM ELEV: 778.01
 NORMAL POND ELEV: 771.00
 100 YR WSEL (W/O OFFSITE): 774.81
 100 YR WSEL (W/ OFFSITE): 775.51
 BTM: 763.00-761.00



PROFESSIONAL SEAL

NOTICE
 THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.

DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

SCALE: AS NOTED
 DRWN.: VG
 CHKD.: AMM
 APPD.:
 APPD.:
 DATE : 10/10/24



UTILITY LEGEND

- PROPOSED UNDERGROUND ELECTRIC LINE
- PROPOSED GAS LINE (BY GAS COMPANY)
- PROPOSED PHONE LINE
- PROPOSED ROOF DRAIN LINE
- PROPOSED UNDERDRAIN
- PROPOSED SWALE
- PROPOSED STORM SEWER LINE
- STRUCTURE ID
- PROPOSED STORM STRUCTURES
- PROPOSED SANITARY SEWER LINE
- PROPOSED SANITARY LATERAL LINE
- PROPOSED SANITARY MANHOLE
- PROPOSED STORM/SANITARY CLEANOUT
- PROPOSED WATER LINE
- PROPOSED FIRE PROTECTION LINE
- PROPOSED WATER VALVE BOX, PIV, METER, FIRE HYDRANT, FIRE DEPT CONN. & VAULT
- PROPOSED WATER BENDS & TEE
- PROPOSED LIGHT POLE
- PROPOSED TRANSFORMER PAD (BY OTHERS)

KEY NOTES

- (D) DRAINAGE, STORM, SEWER
- D1. ROOF DRAIN CLEANOUT
 - D2. 12" PVC ROOF DRAIN LINE
 - D3. CONNECT ROOF DRAIN TO STRUCTURE
 - D4. 4" HDPE PERFORATED SPIDER DRAIN (SEE DETAILS)
 - D5. 18" PVC ROOF DRAIN LINE
 - D6. 8" PVC ROOF DRAIN LINE
 - D7. 6" PVC STORM CLEANOUT
 - D8. 6" PVC PERFORATED UNDERDRAIN (SEE DETAILS) - RODENT GUARD AT ALL POND OUTLETS
- (S) SANITARY SEWER
- S1. SANITARY CLEANOUT
 - S2. 6" PVC SDR 26 LATERAL LINE @ MIN. 1.04%
 - S3. 8" PVC SDR 26 LATERAL LINE @ MIN. 1.04%
 - S4. CONNECT TO PUBLIC SANITARY MAIN (SEE ROADWAY SHEETS)
 - S5. OIL SEPARATOR (SEE MEP PLANS FOR MORE DETAILS)
- (W) WATER LINE
- W1. FIRE HYDRANT AND VALVE ASSEMBLY ON 6" HYDRANT LEAD
 - W2. WATER TEE
 - W3. WATER BEND
 - W4. WATER VAULT PER INAW REQUIREMENTS (SEE DETAILS)
 - W5. DUAL METER PITS PER INAW REQUIREMENTS (SEE DETAILS)
 - W6. FIRE DEPT CONNECTION (FDC) WITH 6" LEAD & IDENTIFICATION SIGN
 - W7. POST INDICATOR VALVE (PIV) WITH IDENTIFICATION SIGN (INSIDE VAULT)
 - W8. CONNECT TO PUBLIC WATER MAIN (LIVE TAP-SEE ROADWAY SHEETS)
 - W9. 10" C900 PVC FIRE PROTECTION LINE
 - W10. TEMPORARY FIRE HYDRANT
 - W11. WATER VALVE
 - W12. REDUCER
 - W13. 10" C900 PVC WATER MAIN
 - W14. 6" C900 PVC DOMESTIC WATER LINE
 - W15. 1.5" IRRIGATION SERVICE AND METER
- (G) GAS LINE
- G1. GAS SERVICE LINE
- (E) ELECTRIC / TELEPHONE / CABLE
- E1. ELECTRIC SERVICE LINE
 - E2. ELECTRIC TRANSFORMER
 - E3. FIBER/TELECOMMUNICATIONS LINE
- (M) MISCELLANEOUS
- M1. CONTRACTOR TO COORDINATE CONNECTION WITH UTILITY PROVIDER.
 - M2. CONTRACTOR TO FIELD VERIFY LOCATION, DEPTH AND SIZE OF EXISTING UTILITY TO ENSURE CONFLICTS DO NOT EXIST WITH PROPOSED UTILITIES.
 - M3. POTENTIAL UTILITY CONFLICT. ALL (WATER, SANITARY, DRAINAGE, STORM) CROSSINGS TO HAVE 18" MIN. VERTICAL CLEARANCE. ALL WATER SERVICE LINES TO REMAIN PERPENDICULAR AT CROSSING IN SUCH THAT IT FORMS AN ANGLE BETWEEN 45° AND 90°.
- NOTE: CONTRACTOR TO VERIFY WATER, SANITARY, GAS, & ETC LOCATIONS, SIZES AND TYPES WITH MEP PLANS PRIOR TO ORDERING MATERIALS.

GENERAL PLAN NOTES

REFER TO GENERAL NOTES SHEET FOR MORE INFORMATION INCLUDING THE FOLLOWING: EXISTING LEGEND, BENCHMARK INFORMATION, AND SPECIFIC GENERAL PLAN NOTES.



©2024 KIMLEY-HORN AND ASSOCIATES, INC.
 500 EAST 96TH STREET, SUITE 300,
 INDIANAPOLIS, IN 46240
 PHONE: 317-218-9560
 WWW.KIMLEY-HORN.COM
 KHA PROJECT # 170509000



MALARKEY,IND FRANKLIN,IN

PROJ. NO.
170509000

DWG. NO.
2517

SHEET
REV 0

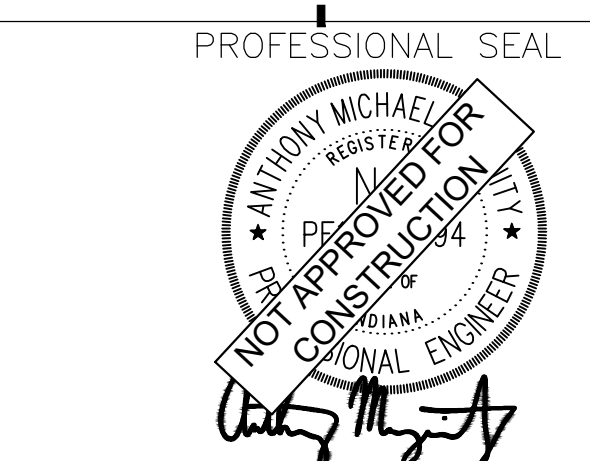
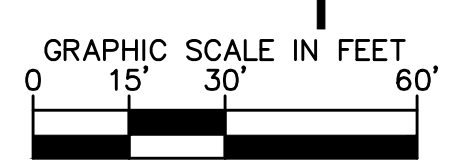
TITLE- PHASE 2 - FINAL BUILDOUT
UTILITY PLAN



Engineers - Project Managers
 2200 Ellis Road, New Lenox, Illinois, 60451
 Ph. (844) 251-7823 www.quadplus.com

- CITY OF FRANKLIN FIRE DEPARTMENT NOTES:
1. THE FIRE DEPARTMENT CONNECTION (FDC) SHALL BE LOCATED OUTSIDE THE COLLAPSE ZONE.
 2. A SERVICING HYDRANT SHALL BE LOCATED WITHIN 20' OF THE FDC AND THE FIRE TRUCK ACCESS.
 3. FDC SHALL HAVE A STORZ CONNECTION WITH A 30' DOWN TURN.
 4. IDENTIFICATION SIGNAGES ARE REQUIRED FOR FDC AND PIV.
 5. ALL HYDRANTS ARE TO BE YELLOW IF PUBLIC, RED IF PRIVATE WITH THE TOP CAP COLOR CODED TO SHOW WATER FLOW. 1500 GPM = BLUE, 1000-1499 GPM = GREEN, 500-999 GPM = ORANGE.

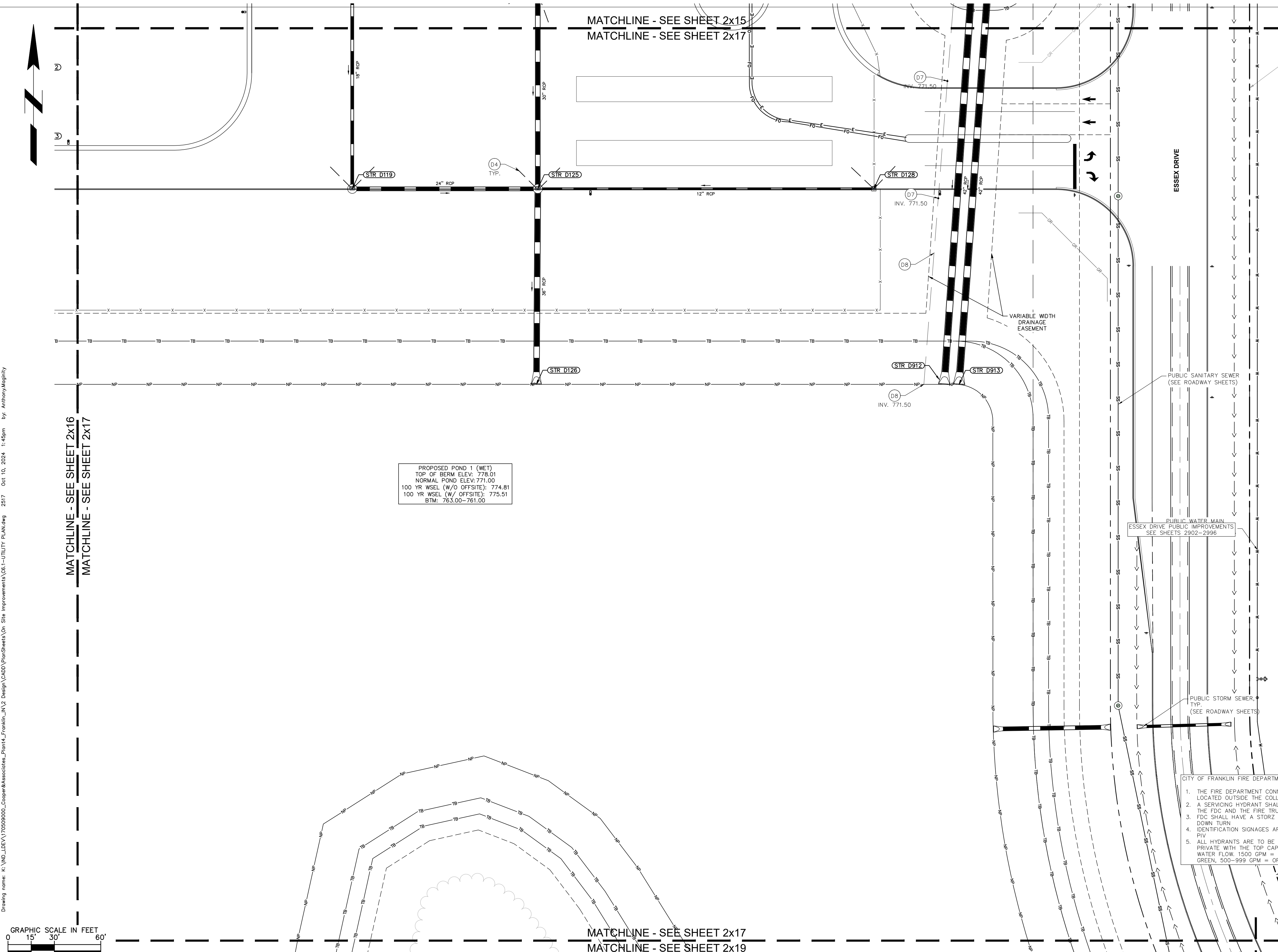
PROPOSED POND 1 (WET)
 TOP OF BERM ELEV: 778.01
 NORMAL POND ELEV: 771.00
 100 YR WSEL (W/O OFFSITE): 774.81
 100 YR WSEL (W/ OFFSITE): 775.51
 BTM: 763.00-761.00



NOTICE
 THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.

DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY



This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND\DEV\170509000_Cooper&Associates_Plant1a_FRANKLIN_IN\2_Site Improvements\251-Utility_Plan.dwg 2517 Oct 10, 2024 1:49pm By: AnthonyMaglity



UTILITY LEGEND

	PROPOSED UNDERGROUND ELECTRIC LINE
	PROPOSED GAS LINE (BY GAS COMPANY)
	PROPOSED PHONE LINE
	PROPOSED ROOF DRAIN LINE
	PROPOSED UNDERDRAIN
	PROPOSED SWALE
	PROPOSED STORM SEWER LINE
	STRUCTURE ID
	PROPOSED STORM STRUCTURES
	PROPOSED SANITARY SEWER LINE
	PROPOSED SANITARY LATERAL LINE
	PROPOSED SANITARY MANHOLE
	PROPOSED STORM/SANITARY CLEANOUT
	PROPOSED WATER LINE
	PROPOSED FIRE PROTECTION LINE
	PROPOSED WATER VALVE BOX, PIV, METER FIRE HYDRANT, FIRE DEPT CONN. & VAULT
	PROPOSED WATER BENDS & TEE
	PROPOSED LIGHT POLE
	PROPOSED TRANSFORMER PAD (BY OTHERS)

KEY NOTES

- (D) DRAINAGE STORM SEWER
- D1. ROOF DRAIN CLEANOUT
 - D2. 12" PVC ROOF DRAIN LINE
 - D3. CONNECT ROOF DRAIN TO STRUCTURE
 - D4. 4" HDPE PERFORATED SPIDER DRAIN (SEE DETAILS)
 - D5. 18" PVC ROOF DRAIN LINE
 - D6. 8" PVC ROOF DRAIN LINE
 - D7. 6" PVC STORM CLEANOUT
 - D8. 6" PVC PERFORATED UNDERDRAIN (SEE DETAILS) - RODENT GUARD AT ALL POND OUTLETS
- (S) SANITARY SEWER
- S1. SANITARY CLEANOUT
 - S2. 6" PVC SDR 26 LATERAL LINE @ MIN. 1.04%
 - S3. 8" PVC SDR 26 LATERAL LINE @ MIN. 1.04%
 - S4. CONNECT TO PUBLIC SANITARY MAIN (SEE ROADWAY SHEETS)
 - S5. OIL SEPARATOR (SEE MEP PLANS FOR MORE DETAILS)
- (W) WATER LINE
- W1. FIRE HYDRANT AND VALVE ASSEMBLY ON 6" HYDRANT LEAD
 - W2. WATER TEE
 - W3. WATER BEND
 - W4. WATER VAULT PER INAW REQUIREMENTS (SEE DETAILS)
 - W5. DUAL METER PITS PER INAW REQUIREMENTS (SEE DETAILS)
 - W6. FIRE DEPT CONNECTION (FDC) WITH 6" LEAD & IDENTIFICATION SIGN
 - W7. POST INDICATOR VALVE (PIV) WITH IDENTIFICATION SIGN (INSIDE VAULT)
 - W8. CONNECT TO PUBLIC WATER MAIN (LIVE TAP-SEE ROADWAY SHEETS)
 - W9. 10" C900 PVC FIRE PROTECTION LINE
 - W10. TEMPORARY FIRE HYDRANT
 - W11. WATER VALVE
 - W12. REDUCER
 - W13. 10" C900 PVC WATER MAIN
 - W14. 6" C900 PVC DOMESTIC WATER LINE
 - W15. 1.5" IRRIGATION SERVICE AND METER
- (G) GAS LINE
- G1. GAS SERVICE LINE
- (E) ELECTRIC / TELEPHONE / CABLE
- E1. ELECTRIC SERVICE LINE
 - E2. ELECTRIC TRANSFORMER
 - E3. FIBER/TELECOMMUNICATIONS LINE
- (M) MISCELLANEOUS
- M1. CONTRACTOR TO COORDINATE CONNECTION WITH UTILITY PROVIDER.
 - M2. CONTRACTOR TO FIELD VERIFY LOCATION, DEPTH AND SIZE OF EXISTING UTILITY TO ENSURE CONFLICTS DO NOT EXIST WITH PROPOSED UTILITIES.
 - M3. POTENTIAL UTILITY CONFLICT. ALL (WATER, SANITARY, DRAINAGE STORM) CROSSINGS TO HAVE 18" MIN. VERTICAL CLEARANCE. ALL WATER SERVICE LINES TO REMAIN PERPENDICULAR AT CROSSING IN SUCH THAT IT FORMS AN ANGLE BETWEEN 45° AND 90°.
- NOTE: CONTRACTOR TO VERIFY WATER, SANITARY, GAS, & ETC LOCATIONS, SIZES AND TYPES WITH MEP PLANS PRIOR TO ORDERING MATERIALS.

- CITY OF FRANKLIN FIRE DEPARTMENT NOTES:
1. THE FIRE DEPARTMENT CONNECTION (FDC) SHALL BE LOCATED OUTSIDE THE COLLAPSE ZONE.
 2. A SERVICING HYDRANT SHALL BE LOCATED WITHIN 20' OF THE FDC AND THE FIRE TRUCK ACCESS.
 3. FDC SHALL HAVE A STORZ CONNECTION WITH A 30' DOWN TURN.
 4. IDENTIFICATION SIGNAGES ARE REQUIRED FOR FDC AND PIV.
 5. ALL HYDRANTS ARE TO BE YELLOW IF PUBLIC, RED IF PRIVATE WITH THE TOP CAP COLOR CODED TO SHOW WATER FLOW. 1500 GPM = BLUE, 1000-1499 GPM = GREEN, 500-999 GPM = ORANGE

GENERAL PLAN NOTES

REFER TO GENERAL NOTES SHEET FOR MORE INFORMATION INCLUDING THE FOLLOWING: EXISTING LEGEND, BENCHMARK INFORMATION, AND SPECIFIC GENERAL PLAN NOTES.



©2024 KIMLEY-HORN AND ASSOCIATES, INC.
500 EAST 96TH STREET, SUITE 300,
INDIANAPOLIS, IN 46240
PHONE: 317-218-9560
WWW.KIMLEY-HORN.COM
KHA PROJECT # 170509000



MALARKEY,IND FRANKLIN,IN

TITLE- PHASE 2 - FINAL BUILDOUT
UTILITY PLAN

PROJ. NO.
170509000

DWG. NO.
2518

SHEET
REV 0



Engineers - Project Managers
2200 Ellis Road, New Lenox, Illinois, 60451
Ph. (844) 251-7823 www.quadplus.com

MATCHLINE - SEE SHEET 2x16
MATCHLINE - SEE SHEET 2x18

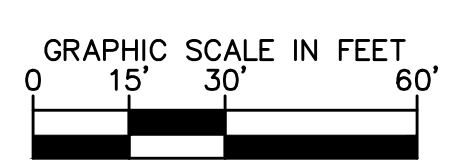
PROPOSED POND 1 (WET)
TOP OF BERM ELEV: 778.01
NORMAL POND ELEV: 771.00
100 YR WSEL (W/O OFFSITE): 774.81
100 YR WSEL (W/ OFFSITE): 775.51
BTM: 763.00-761.00

GRAHAM ARM OF CANARY
REGULATED DRAIN
75' FROM TOP OF BANK

APPARENT 20'
RAILROAD R/W
PER LOUISVILLE & INDIANA RAILROAD RESEARCH

50.0' SETBACK, TYP.

MATCHLINE - SEE SHEET 2x18
MATCHLINE - SEE SHEET 2x19



PROFESSIONAL SEAL

NOTICE
THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.

DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

SCALE: AS NOTED
DRWN.: VG
CHKD.: AMM
APPD.:
APPD.:
DATE : 10/10/24

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND\DEV\170509000_Cooper&Associates_Plant1a_Franklin_IN\2 Design\CD\03\PlanSheets\03a Site Improvements\03a1-UTILITY PLUMBING 2518 - 04.10.2024 11:49pm By: AnthonyMogilya



UTILITY LEGEND

- PROPOSED UNDERGROUND ELECTRIC LINE
- PROPOSED GAS LINE (BY GAS COMPANY)
- PROPOSED PHONE LINE
- PROPOSED ROOF DRAIN LINE
- PROPOSED UNDERDRAIN
- PROPOSED SWALE
- PROPOSED STORM SEWER LINE
- STRUCTURE ID
- PROPOSED STORM STRUCTURES
- PROPOSED SANITARY SEWER LINE
- PROPOSED SANITARY LATERAL LINE
- PROPOSED SANITARY MANHOLE
- PROPOSED STORM/SANITARY CLEANOUT
- PROPOSED WATER LINE
- PROPOSED FIRE PROTECTION LINE
- PROPOSED WATER VALVE BOX, PIV, METER, FIRE HYDRANT, FIRE DEPT CONN. & VAULT
- PROPOSED WATER BENDS & TEE
- PROPOSED LIGHT POLE
- PROPOSED TRANSFORMER PAD (BY OTHERS)

KEY NOTES

- (D) DRAINAGE, STORM SEWER
- D1. ROOF DRAIN CLEANOUT
 - D2. 12" PVC ROOF DRAIN LINE
 - D3. CONNECT ROOF DRAIN TO STRUCTURE
 - D4. 4" HDPE PERFORATED SPIDER DRAIN (SEE DETAILS)
 - D5. 18" PVC ROOF DRAIN LINE
 - D6. 8" PVC ROOF DRAIN LINE
 - D7. 6" PVC STORM CLEANOUT
 - D8. 6" PVC PERFORATED UNDERDRAIN (SEE DETAILS) - RODENT GUARD AT ALL POND OUTLETS
- (S) SANITARY SEWER
- S1. SANITARY CLEANOUT
 - S2. 6" PVC SDR 26 LATERAL LINE @ MIN. 1.04%
 - S3. 8" PVC SDR 26 LATERAL LINE @ MIN. 1.04%
 - S4. CONNECT TO PUBLIC SANITARY MAIN (SEE ROADWAY SHEETS)
 - S5. OIL SEPARATOR (SEE MEP PLANS FOR MORE DETAILS)
- (W) WATER LINE
- W1. FIRE HYDRANT AND VALVE ASSEMBLY ON 6" HYDRANT LEAD
 - W2. WATER TEE
 - W3. WATER BEND
 - W4. WATER VAULT PER INAW REQUIREMENTS (SEE DETAILS)
 - W5. DUAL METER PITS PER INAW REQUIREMENTS (SEE DETAILS)
 - W6. FIRE DEPT CONNECTION (FDC) WITH 6" LEAD & IDENTIFICATION SIGN
 - W7. POST INDICATOR VALVE (PIV) WITH IDENTIFICATION SIGN (INSIDE VAULT)
 - W8. CONNECT TO PUBLIC WATER MAIN (LIVE TAP-SEE ROADWAY SHEETS)
 - W9. 10" C900 PVC FIRE PROTECTION LINE
 - W10. TEMPORARY FIRE HYDRANT
 - W11. WATER VALVE
 - W12. REDUCER
 - W13. 10" C900 PVC WATER MAIN
 - W14. 6" C900 PVC DOMESTIC WATER LINE
 - W15. 1.5" IRRIGATION SERVICE AND METER
- (G) GAS LINE
- G1. GAS SERVICE LINE
- (E) ELECTRIC / TELEPHONE / CABLE
- E1. ELECTRIC SERVICE LINE
 - E2. ELECTRIC TRANSFORMER
 - E3. FIBER/TELECOMMUNICATIONS LINE
- (M) MISCELLANEOUS
- M1. CONTRACTOR TO COORDINATE CONNECTION WITH UTILITY PROVIDER.
 - M2. CONTRACTOR TO FIELD VERIFY LOCATION, DEPTH AND SIZE OF EXISTING UTILITY TO ENSURE CONFLICTS DO NOT EXIST WITH PROPOSED UTILITIES.
 - M3. POTENTIAL UTILITY CONFLICT. ALL (WATER, SANITARY, DRAINAGE STORM) CROSSINGS TO HAVE 18" MIN. VERTICAL CLEARANCE. ALL WATER SERVICE LINES TO REMAIN PERPENDICULAR AT CROSSING IN SUCH THAT IT FORMS AN ANGLE BETWEEN 45° AND 90°.
- NOTE: CONTRACTOR TO VERIFY WATER, SANITARY, GAS, & ETC LOCATIONS, SIZES AND TYPES WITH MEP PLANS PRIOR TO ORDERING MATERIALS.

GENERAL PLAN NOTES

REFER TO GENERAL NOTES SHEET FOR MORE INFORMATION INCLUDING THE FOLLOWING: EXISTING LEGEND, BENCHMARK INFORMATION, AND SPECIFIC GENERAL PLAN NOTES.



©2024 KIMLEY-HORN AND ASSOCIATES, INC.
 504 EAST 96TH STREET, SUITE 300,
 INDIANAPOLIS, IN 46240
 PHONE: 317-218-9560
 WWW.KIMLEY-HORN.COM
 KHA PROJECT # 170509000



MALARKEY,IND FRANKLIN,IN

TITLE- PHASE 2 - FINAL BUILDOUT
 UTILITY PLAN

PROJ. NO.
170509000
 DWG. NO.
2519
 SHEET
0
 REV



Engineers - Project Managers
 2200 Ellis Road, New Lenox, Illinois, 60451
 Ph. (844) 251-7823 www.quadplus.com

MATCHLINE - SEE SHEET 2x17
 MATCHLINE - SEE SHEET 2x19

PROPOSED POND 1 (WET)
 TOP OF BERM ELEV: 778.01
 NORMAL POND ELEV: 771.00
 100 YR WSEL (W/O OFFSITE): 774.81
 100 YR WSEL (W/ OFFSITE): 775.51
 BTM: 763.00-761.00

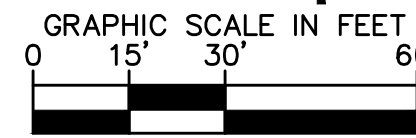
ESSEX DRIVE PUBLIC IMPROVEMENTS
 SEE SHEETS 2902-2996

PUBLIC SANITARY SEWER
 (SEE ROADWAY SHEETS)

UTILITY EASEMENT PER
 INSTRUMENT NO. 2014-000430

N88°40'48"E 1321.63'

20.0' U.E.



PROFESSIONAL SEAL

NOTICE
 THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.

DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

SCALE: AS NOTED
 DRWN.: VG
 CHKD.: AMM
 APPD.:
 APPD.:
 DATE : 10/10/24

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND\DEV\170509000_Cooper&Associates_Plant1a_Franklin_IN\2 Design\CD\01\PlanSheets\01 Site Improvements\01-UTILITY PLUMBING 2519 - 04.10.2024 11:49pm By: AnthonyMaglity



UTILITY LEGEND

- PROPOSED UNDERGROUND ELECTRIC LINE
- PROPOSED GAS LINE (BY GAS COMPANY)
- PROPOSED PHONE LINE
- PROPOSED ROOF DRAIN LINE
- PROPOSED UNDERDRAIN
- PROPOSED SWALE
- PROPOSED STORM SEWER LINE
- STRUCTURE ID
- PROPOSED STORM STRUCTURES
- PROPOSED SANITARY SEWER LINE
- PROPOSED SANITARY LATERAL LINE
- PROPOSED SANITARY MANHOLE
- PROPOSED STORM/SANITARY CLEANOUT
- PROPOSED WATER LINE
- PROPOSED FIRE PROTECTION LINE
- PROPOSED WATER VALVE BOX, PIV, METER, FIRE HYDRANT, FIRE DEPT CONN. & VAULT
- PROPOSED WATER BENDS & TEE
- PROPOSED LIGHT POLE
- PROPOSED TRANSFORMER PAD (BY OTHERS)

KEY NOTES

- (D) DRAINAGE / STORM SEWER
- D1. ROOF DRAIN CLEANOUT
 - D2. 12" PVC ROOF DRAIN LINE
 - D3. CONNECT ROOF DRAIN TO STRUCTURE
 - D4. 4" HDPE PERFORATED SPIDER DRAIN (SEE DETAILS)
 - D5. 18" PVC ROOF DRAIN LINE
 - D6. 8" PVC ROOF DRAIN LINE
 - D7. 6" PVC STORM CLEANOUT
 - D8. 6" PVC PERFORATED UNDERDRAIN (SEE DETAILS) - RODENT GUARD AT ALL POND OUTLETS
- (S) SANITARY SEWER
- S1. SANITARY CLEANOUT
 - S2. 6" PVC SDR 26 LATERAL LINE @ MIN. 1.04%
 - S3. 8" PVC SDR 26 LATERAL LINE @ MIN. 1.04%
 - S4. CONNECT TO PUBLIC SANITARY MAIN (SEE ROADWAY SHEETS)
 - S5. OIL SEPARATOR (SEE MEP PLANS FOR MORE DETAILS)
- (W) WATER LINE
- W1. FIRE HYDRANT AND VALVE ASSEMBLY ON 6" HYDRANT LEAD
 - W2. WATER TEE
 - W3. WATER BEND
 - W4. WATER VAULT PER INAW REQUIREMENTS (SEE DETAILS)
 - W5. DUAL METER PITS PER INAW REQUIREMENTS (SEE DETAILS)
 - W6. FIRE DEPT CONNECTION (FDC) WITH 6" LEAD & IDENTIFICATION SIGN
 - W7. POST INDICATOR VALVE (PIV) WITH IDENTIFICATION SIGN (INSIDE VAULT)
 - W8. CONNECT TO PUBLIC WATER MAIN (LIVE TAP-SEE ROADWAY SHEETS)
 - W9. 10" C900 PVC FIRE PROTECTION LINE
 - W10. TEMPORARY FIRE HYDRANT
 - W11. WATER VALVE
 - W12. REDUCER
 - W13. 10" C900 PVC WATER MAIN
 - W14. 6" C900 PVC DOMESTIC WATER LINE
 - W15. 1.5" IRRIGATION SERVICE AND METER
- (G) GAS LINE
- G1. GAS SERVICE LINE
- (E) ELECTRIC / TELEPHONE / CABLE
- E1. ELECTRIC SERVICE LINE
 - E2. ELECTRIC TRANSFORMER
 - E3. FIBER/TELECOMMUNICATIONS LINE
- (M) MISCELLANEOUS
- M1. CONTRACTOR TO COORDINATE CONNECTION WITH UTILITY PROVIDER.
 - M2. CONTRACTOR TO FIELD VERIFY LOCATION, DEPTH AND SIZE OF EXISTING UTILITY TO ENSURE CONFLICTS DO NOT EXIST WITH PROPOSED UTILITIES.
 - M3. POTENTIAL UTILITY CONFLICT. ALL (WATER, SANITARY, DRAINAGE STORM) CROSSINGS TO HAVE 18" MIN. VERTICAL CLEARANCE. ALL WATER SERVICE LINES TO REMAIN PERPENDICULAR AT CROSSING IN SUCH THAT IT FORMS AN ANGLE BETWEEN 45° AND 90°.
- NOTE: CONTRACTOR TO VERIFY WATER, SANITARY, GAS, & ETC LOCATIONS, SIZES AND TYPES WITH MEP PLANS PRIOR TO ORDERING MATERIALS.

- CITY OF FRANKLIN FIRE DEPARTMENT NOTES:
1. THE FIRE DEPARTMENT CONNECTION (FDC) SHALL BE LOCATED OUTSIDE THE COLLAPSE ZONE.
 2. A SERVICING HYDRANT SHALL BE LOCATED WITHIN 20' OF THE FDC AND THE FIRE TRUCK ACCESS.
 3. FDC SHALL HAVE A STORZ CONNECTION WITH A 30' DOWN TURN.
 4. IDENTIFICATION SIGNAGES ARE REQUIRED FOR FDC AND PIV.
 5. ALL HYDRANTS ARE TO BE YELLOW IF PUBLIC, RED IF PRIVATE WITH THE TOP CAP COLOR CODED TO SHOW WATER FLOW. 1500 GPM = BLUE, 1000-1499 GPM = GREEN, 500-999 GPM = ORANGE.

GENERAL PLAN NOTES

REFER TO GENERAL NOTES SHEET FOR MORE INFORMATION INCLUDING THE FOLLOWING: EXISTING LEGEND, BENCHMARK INFORMATION, AND SPECIFIC GENERAL PLAN NOTES.



©2024 KIMLEY-HORN AND ASSOCIATES, INC.
 500 EAST 96TH STREET, SUITE 300,
 INDIANAPOLIS, IN 46240
 PHONE: 317-218-9560
 WWW.KIMLEY-HORN.COM
 KHA PROJECT # 170509000



MALARKEY,IND FRANKLIN,IN

PROJ. NO.
170509000

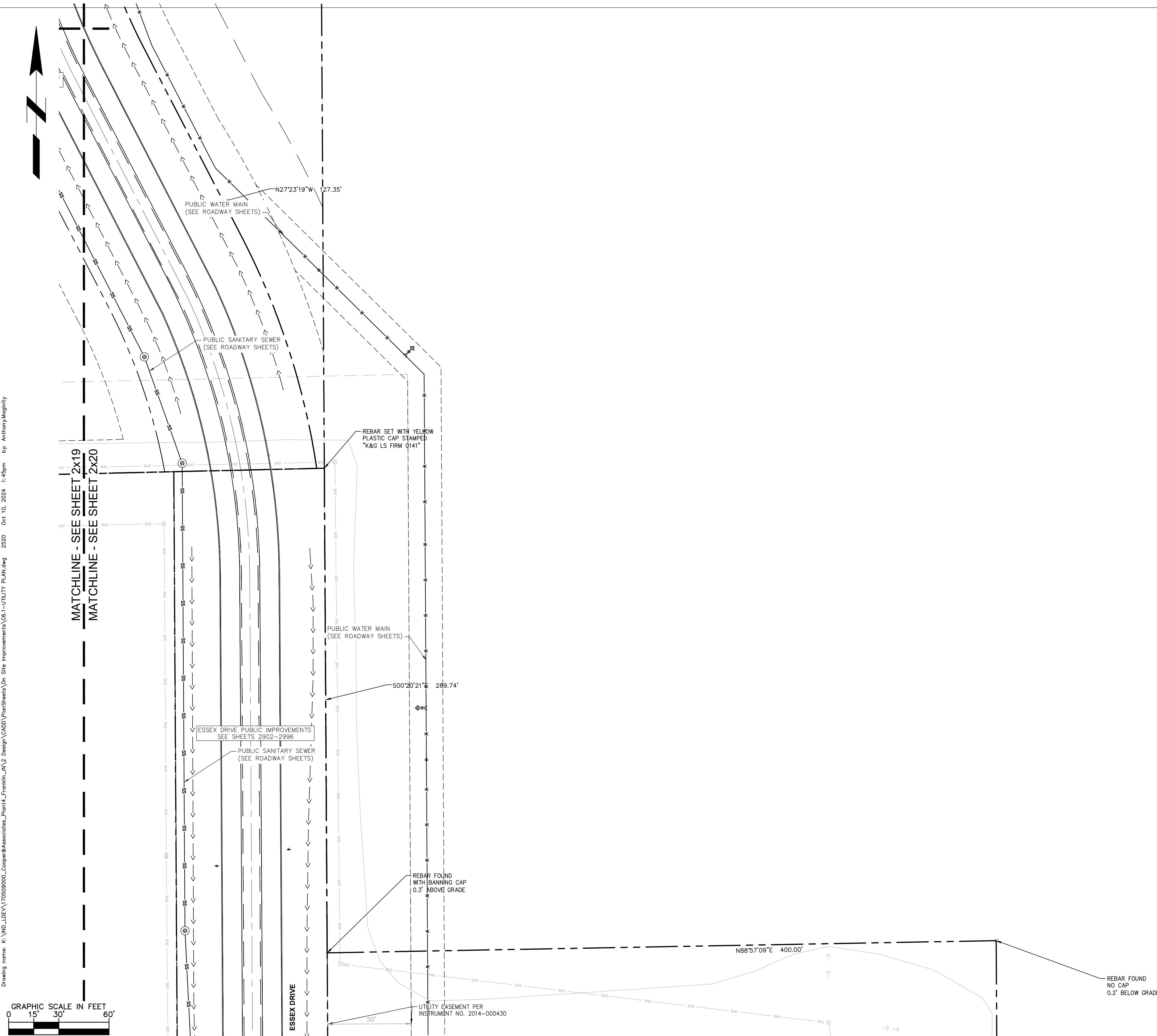
DWG. NO.
2520

TITLE- PHASE 2 - FINAL BUILDOUT
UTILITY PLAN

SHEET
REV 0



Engineers - Project Managers
 2200 Ellis Road, New Lenox, Illinois, 60451
 Ph. (844) 251-7823 www.quadplus.com



PROFESSIONAL SEAL

NOTICE
 THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.

DWG SIZE: 36" X 24"

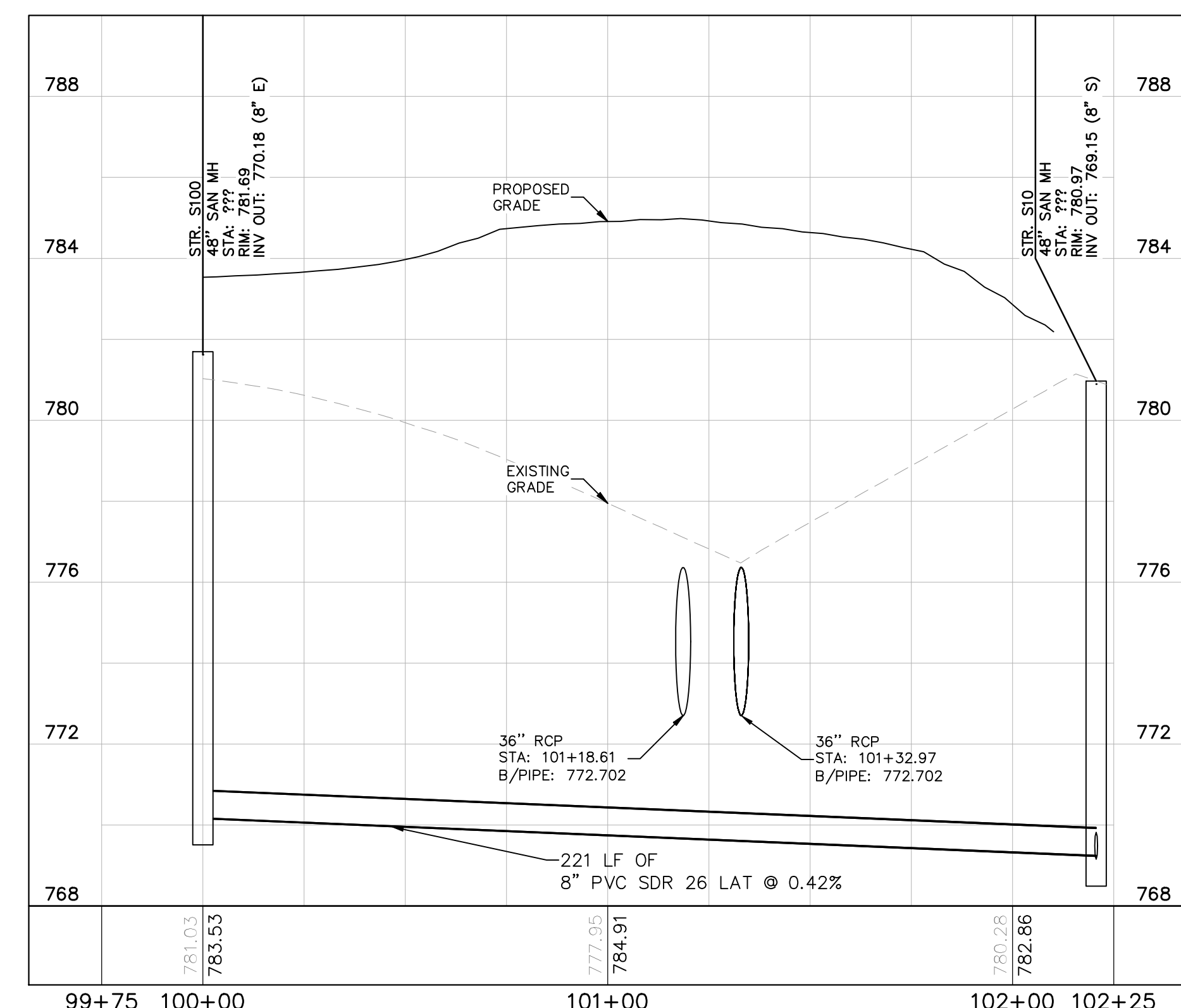
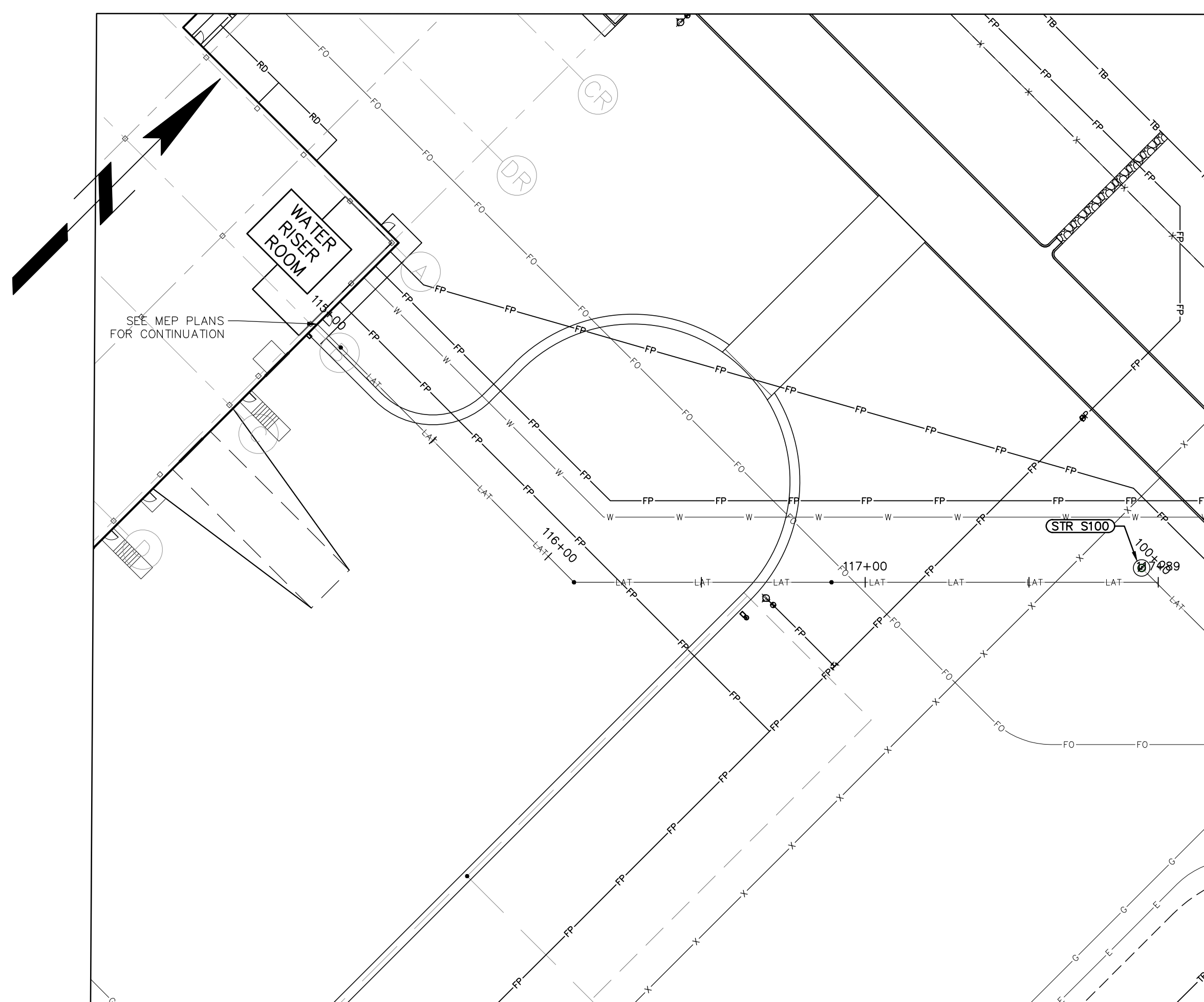
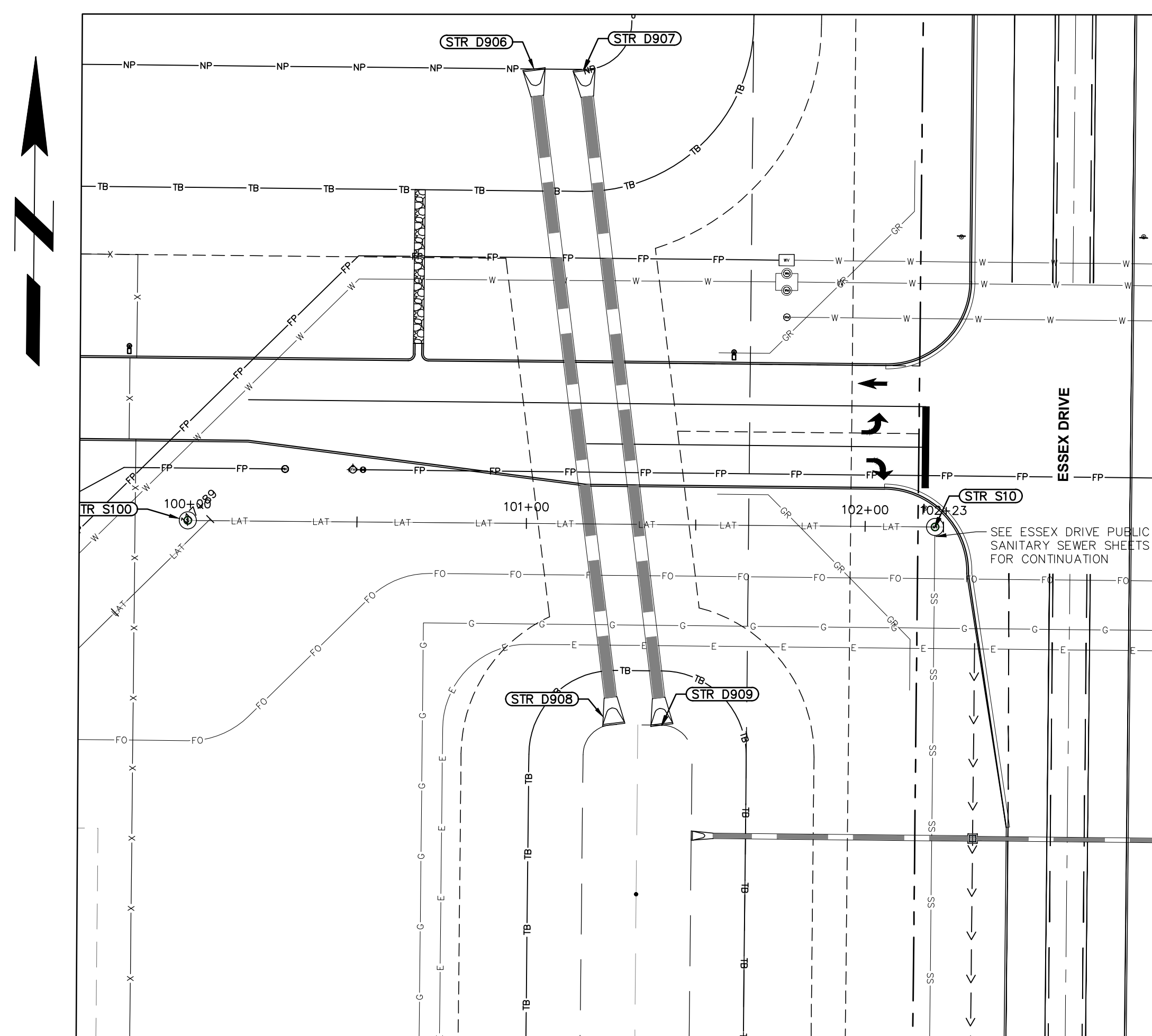
REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

SCALE: AS NOTED
 DRWN.: VG
 CHKD.: AMM
 APPD.:
 APPD.:
 DATE : 10/10/24

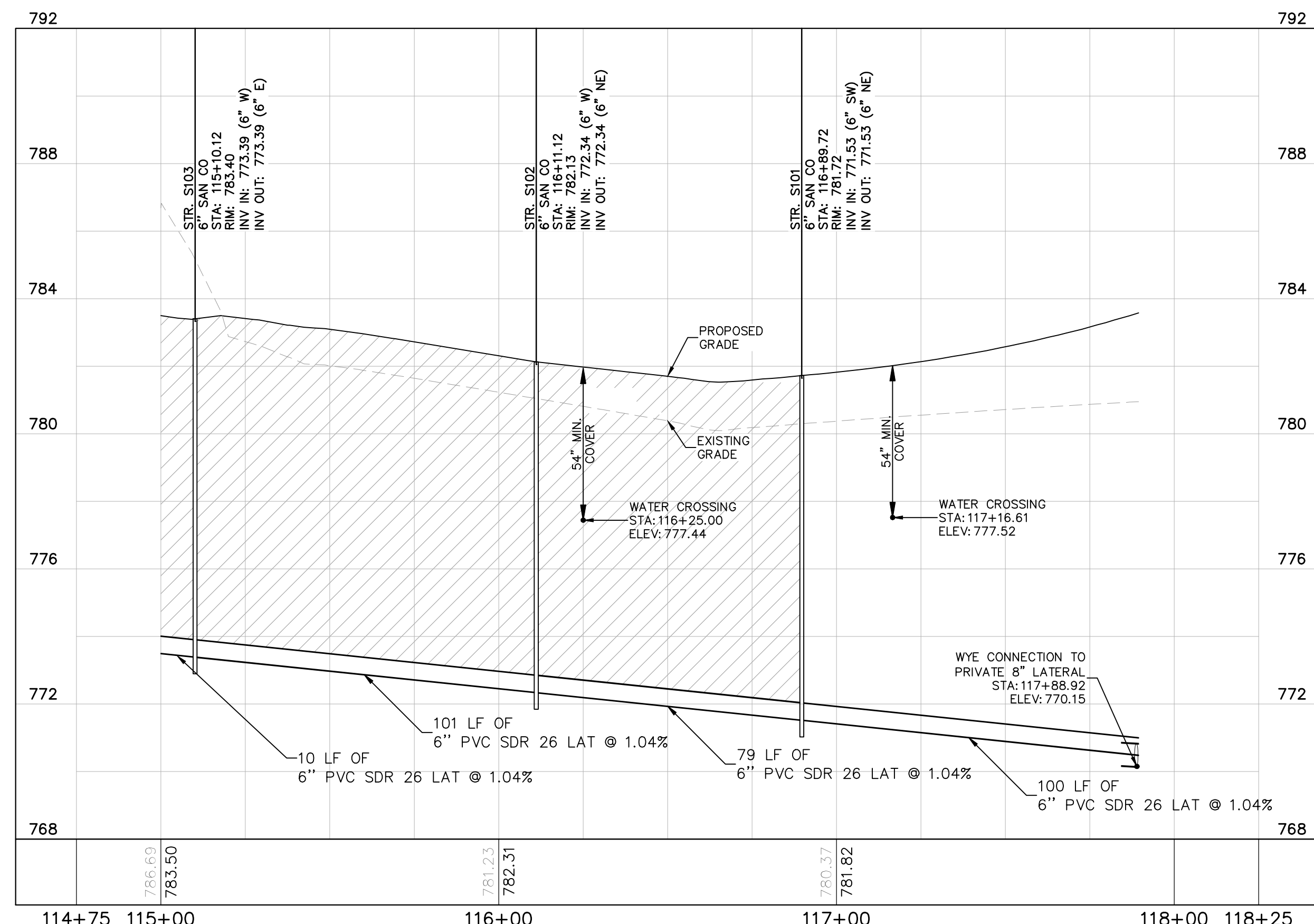
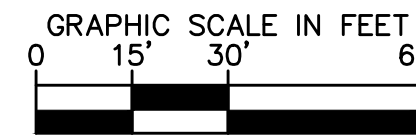
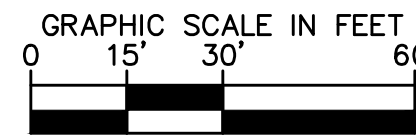


PROFILE LEGEND

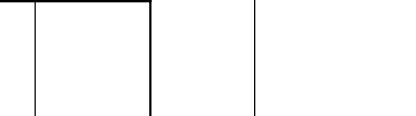
- FULL DEPTH GRANULAR BACKFILL REQUIRED (PROFILE VIEW)
- EXISTING PROFILE GRADE
- PROPOSED PROFILE GRADE



PROPOSED SANITARY ON SITE 1
H: 1"=30 | V: 1"=3



PROPOSED SANITARY ON SITE 1A
H: 1"=30 | V: 1"=3



PROFESSIONAL SEAL



NOTICE
THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.

DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

Quad Plus
Cooper & Associates, LLC

Engineers - Project Managers
2200 Ellis Road, New Lenox, Illinois, 60451
Ph. (844) 251-7823 www.quadplus.com

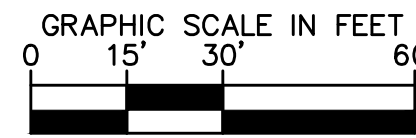
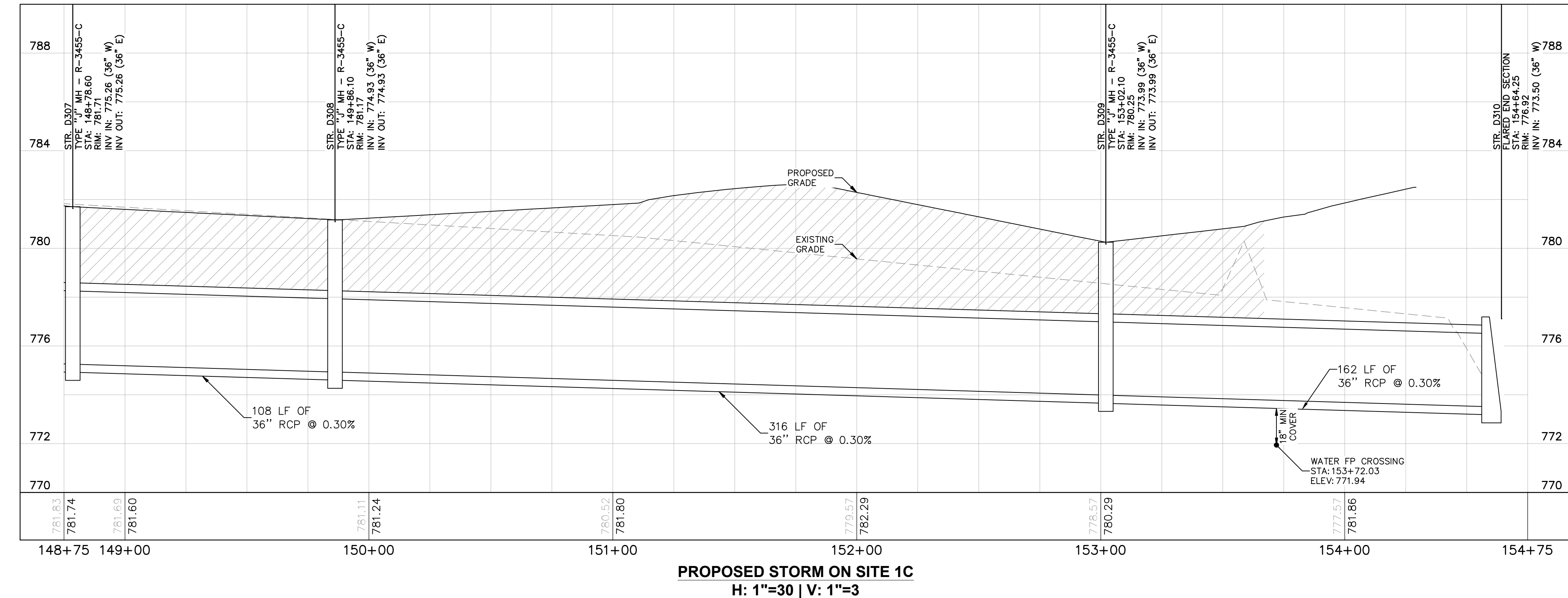
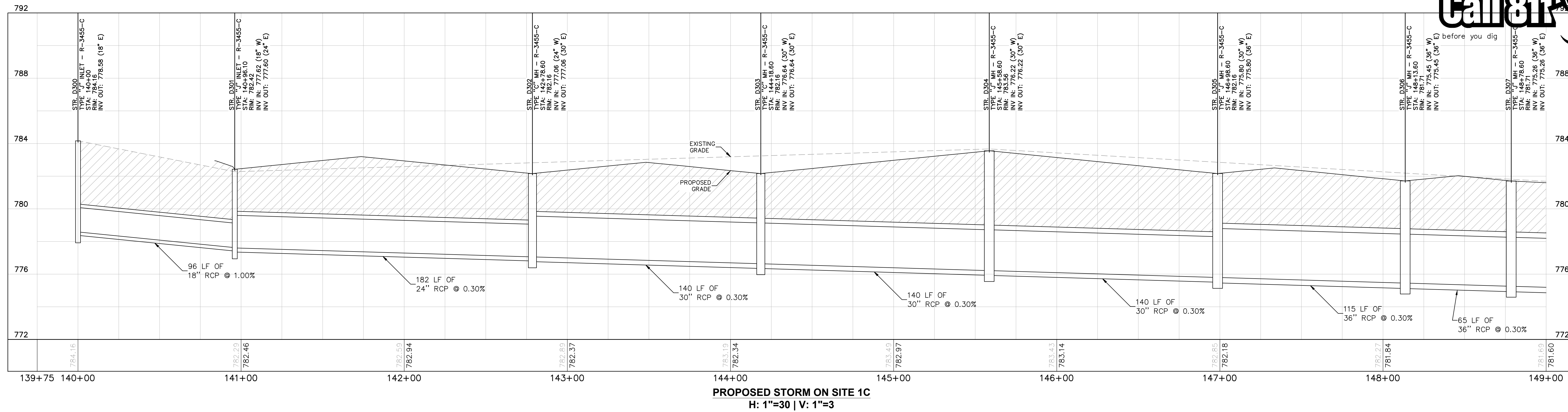
Kimley»Horn
©2024 KIMLEY-HORN AND ASSOCIATES, INC.
500 EAST 96TH STREET, SUITE 300,
INDIANAPOLIS, IN 46240
PHONE: 317-218-9560
WWW.KIMLEY-HORN.COM
KHA PROJECT # 170509000

Malarkey Roofing Products

PROJ. NO. 170509000
DWG. NO. 2600
SHEET 0

PHASE 2 - FINAL BUILDOUT
SANITARY PLAN AND PROFILE

This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND\DEV\170509000_Cooper&Associates_Plant1_N12_Sanitary_Plan_Profile.dwg 2800 Oct 10, 2024 1:46pm by AnthonyMagnifico



PLAN & PROFILE LEGEND

- FULL DEPTH GRANULAR BACKFILL REQUIRED (PROFILE VIEW)
- EXISTING PROFILE GRADE
- PROPOSED PROFILE GRADE

PROFESSIONAL SEAL

NOTICE
THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.

DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

SCALE: AS NOTED

DRWN.: VG
CHKD.: AMM
APPD.:
APPD.:
DATE : 10/10/24

Cooper & Associates, LLC
Engineers - Project Managers
2200 Ellis Road, New Lenox, Illinois, 60451
Ph. (844) 251-7823 www.quadplus.com

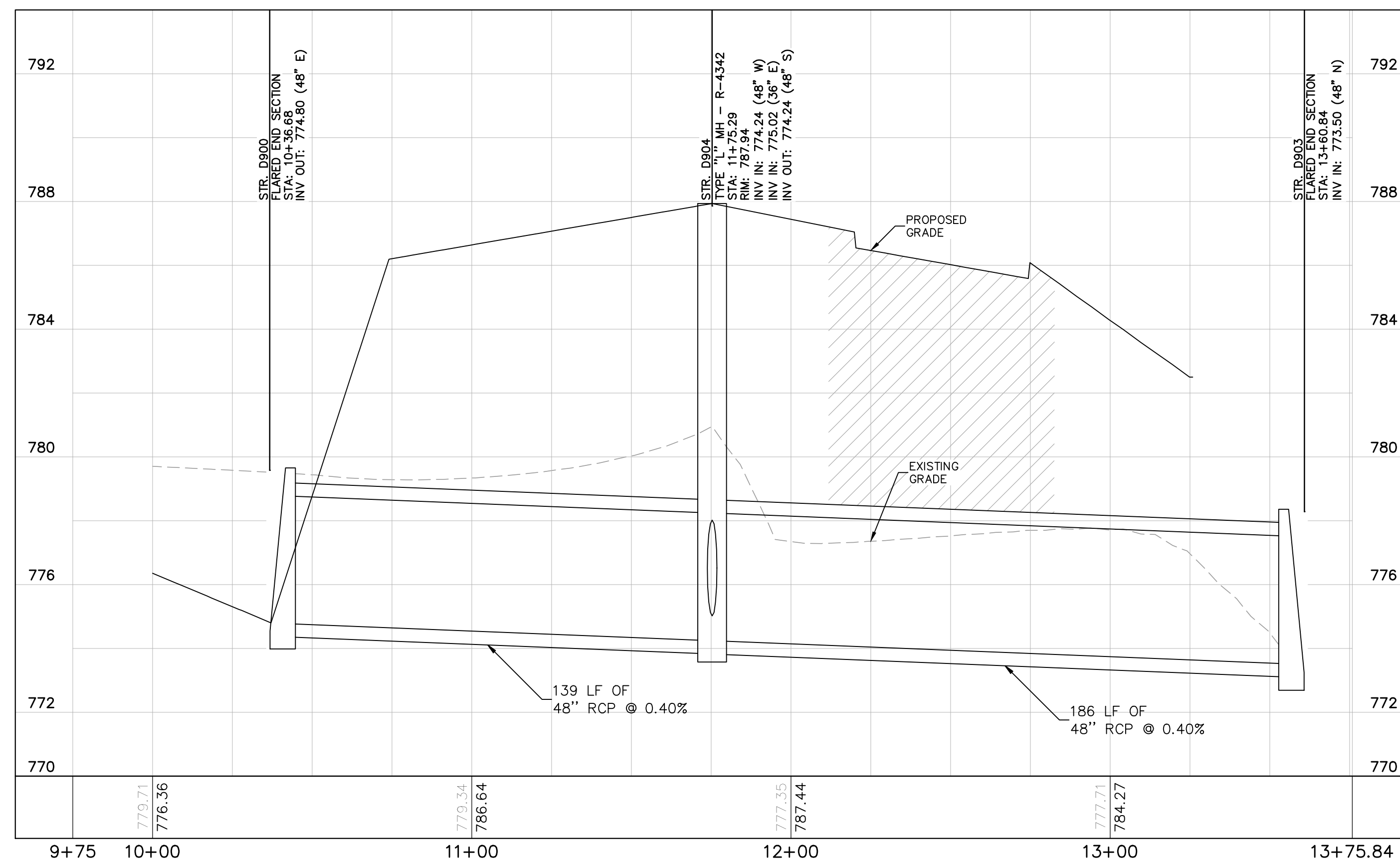
Kimley»Horn
©2024 KIMLEY-HORN AND ASSOCIATES, INC.
500 EAST 96TH STREET, SUITE 300,
INDIANAPOLIS, IN 46240
PHONE: 317-218-9560
WWW.KIMLEY-HORN.COM
KHA PROJECT # 170509000

MALARKEY,IND FRANKLIN,IN

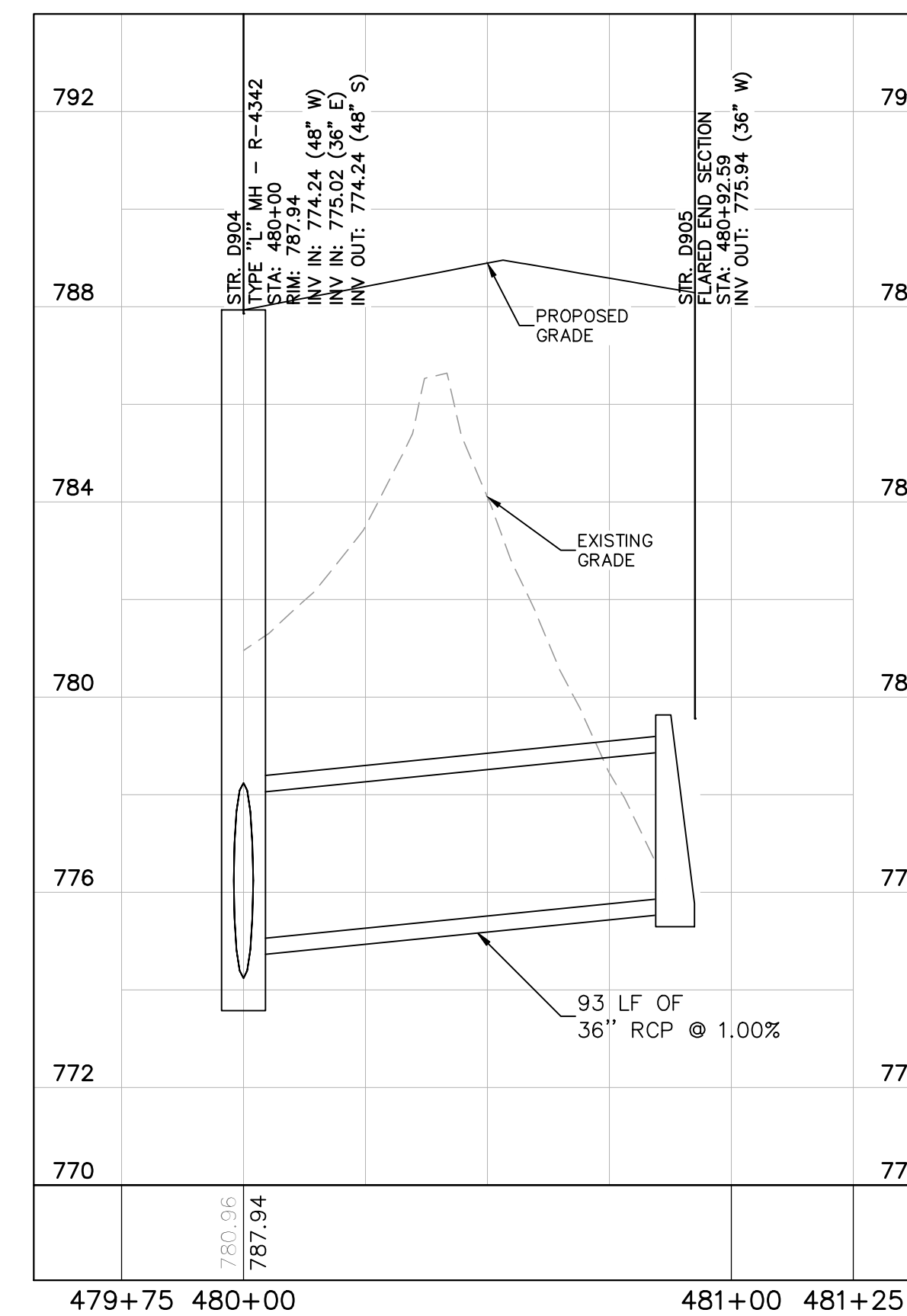
PROJ. NO. 170509000
DWG. NO. 2601
SHEET 0
REV 0

PHASE 2 - FINAL BUILDOUT
STORM PLAN AND PROFILE

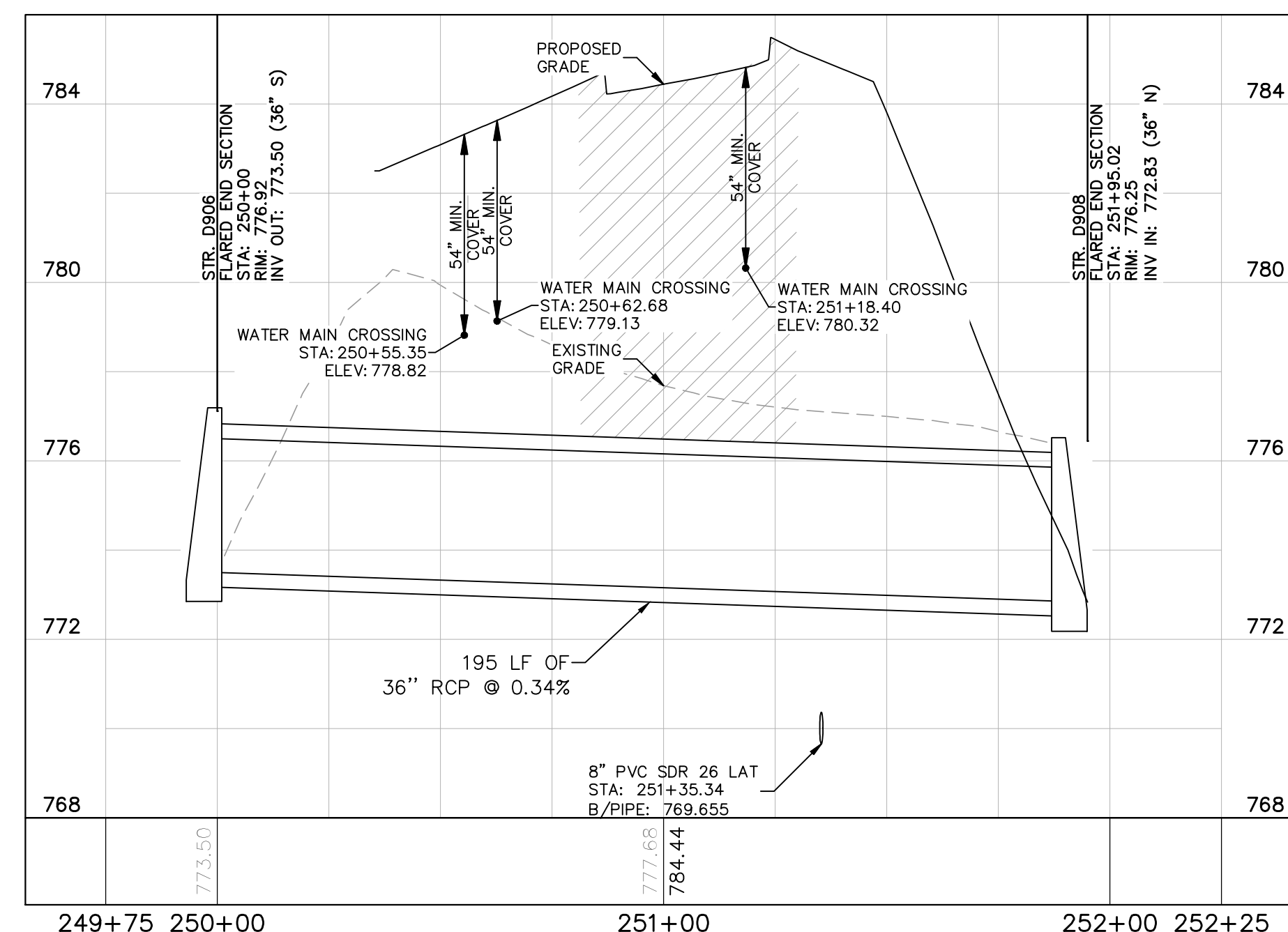
This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND\DEV\170509000_Cooper&Associates_Plant1A_Plan1A_V2_Design\CD\PlanSheets\On Site Improvements\802 - Storm Plan and Profile.dwg 2601 Oct 10, 2024 11:38am by AnthonyMagnity



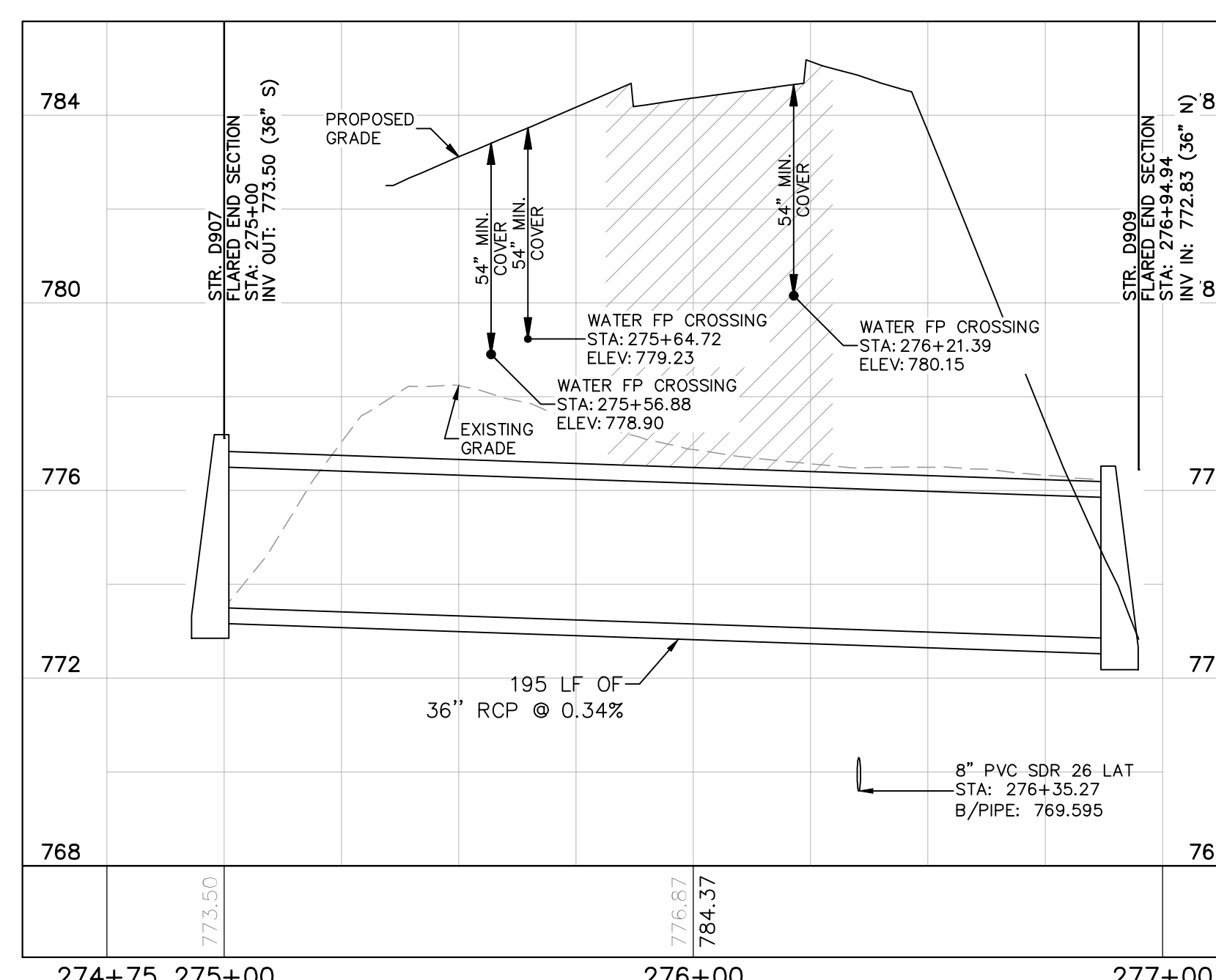
PROPOSED STORM ON SITE 1A
H: 1"=30 | V: 1"=3



PROPOSED STORM ON SITE 1B
H: 1"=30 | V: 1"=3

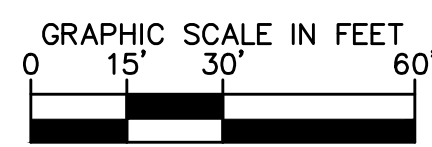


PROPOSED STORM ON SITE 2A
H: 1"=30 | V: 1"=3



PROPOSED STORM ON SITE 2B
H: 1"=30 | V: 1"=3

(POND 3 TO POND 2 CULVERTS)



PLAN & PROFILE LEGEND

- FULL DEPTH GRANULAR BACKFILL REQUIRED (PROFILE VIEW)
- EXISTING PROFILE GRADE
- PROPOSED PROFILE GRADE

PROFESSIONAL SEAL

NOTICE
THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.

DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

Quad Plus
Cooper & Associates, LLC

Engineers - Project Managers
2200 Ellis Road, New Lenox, Illinois, 60451
Ph. (844) 251-7823 www.quadplus.com

SCALE: AS NOTED
DRWN.: VG
CHKD.: AMM
APPD.:
APPD.:
DATE : 10/10/24

Kimley»Horn
©2024 KIMLEY-HORN AND ASSOCIATES, INC.
500 EAST 96TH STREET, SUITE 300,
INDIANAPOLIS, IN 46240
PHONE: 317-218-9560
WWW.KIMLEY-HORN.COM
KHA PROJECT # 170509000

Malarkey Roofing Products

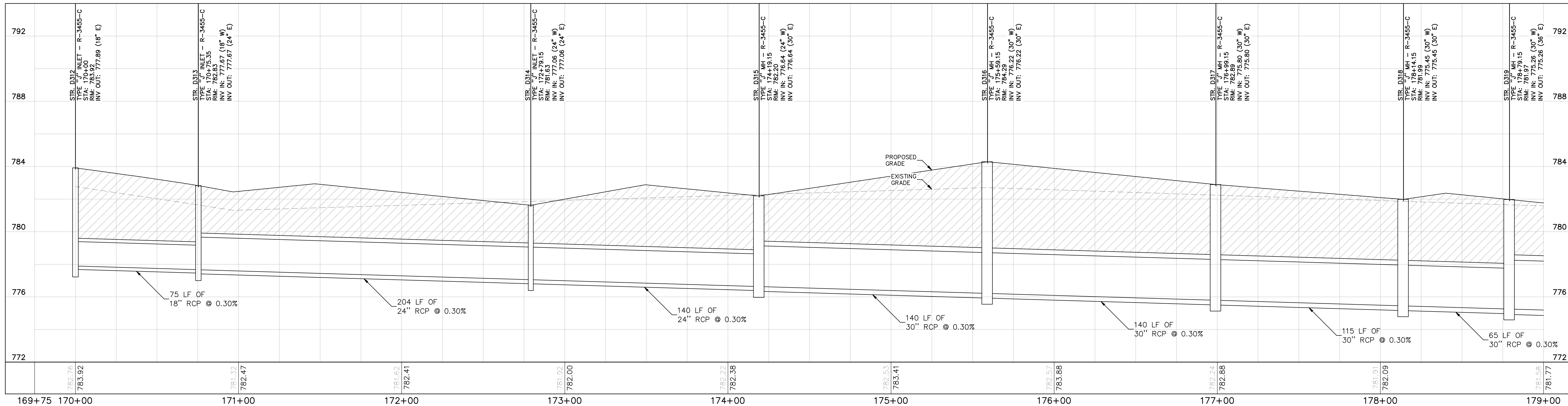
MALARKEY,IND FRANKLIN,IN

PHASE 2 - FINAL BUILDOUT
STORM PLAN AND PROFILE

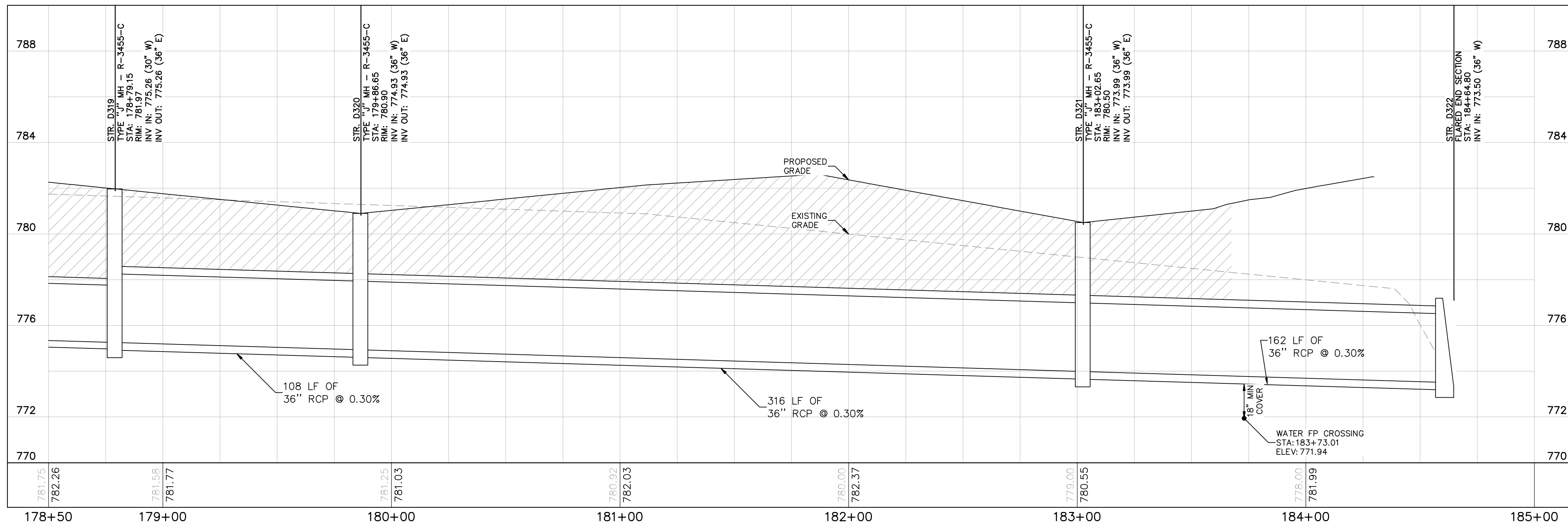
PROJ. NO.	170509000
DWG. NO.	2602
SHEET	0
REV	0

This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND_DEV\170509000_Cooper&Associates_PlantA_Plans\IN\2 Design\CD\PlanSheets\04 Site Improvements\2602 - Storm Plan and Profile.dwg 2602 Oct 10, 2024 11:38am by AnthonyMagrity

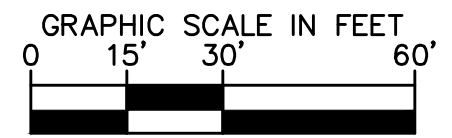
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND_DEV\170509000_Cooper&Associates_Plant\IND_VZ Design\CD\PlanSheets\Site Improvements\262 - Storm Plan and Profile.dwg 2603 Oct 10, 2024 11:38am by AnthonyMagnity



PROPOSED STORM ON SITE 1D
H: 1"=30 | V: 1"=3



PROPOSED STORM ON SITE 1D
H: 1"=30 | V: 1"=3



PLAN & PROFILE LEGEND

- FULL DEPTH GRANULAR BACKFILL REQUIRED (PROFILE VIEW)
- EXISTING PROFILE GRADE
- PROPOSED PROFILE GRADE

Kimley»Horn
 ©2024 KIMLEY-HORN AND ASSOCIATES, INC.
 500 EAST 96TH STREET, SUITE 300,
 INDIANAPOLIS, IN 46240
 PHONE: 317-218-9560
 WWW.KIMLEY-HORN.COM
 KHA PROJECT # 170509000

PROFESSIONAL SEAL

NOTICE
 THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.

DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

Quad Plus
 Cooper & Associates, LLC
 Engineers - Project Managers
 2200 Ellis Road, New Lenox, Illinois, 60451
 Ph. (844) 251-7823 www.quadplus.com

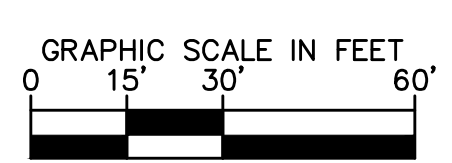
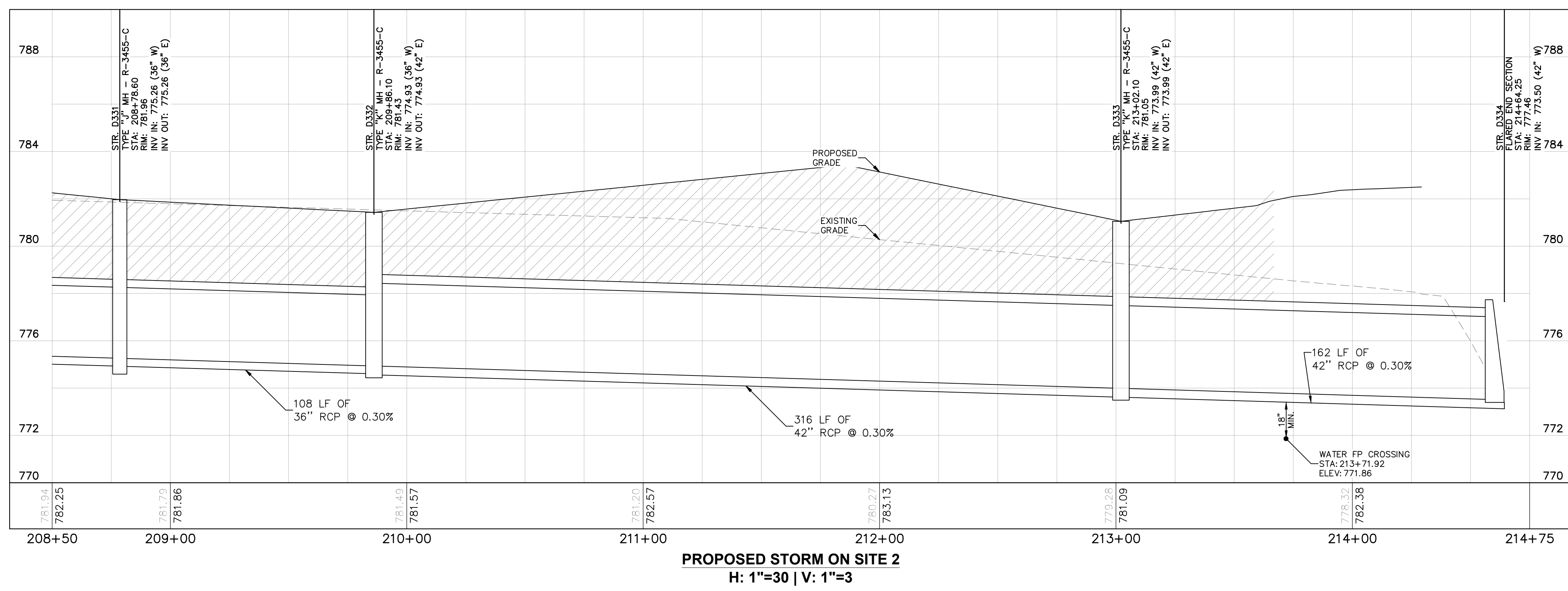
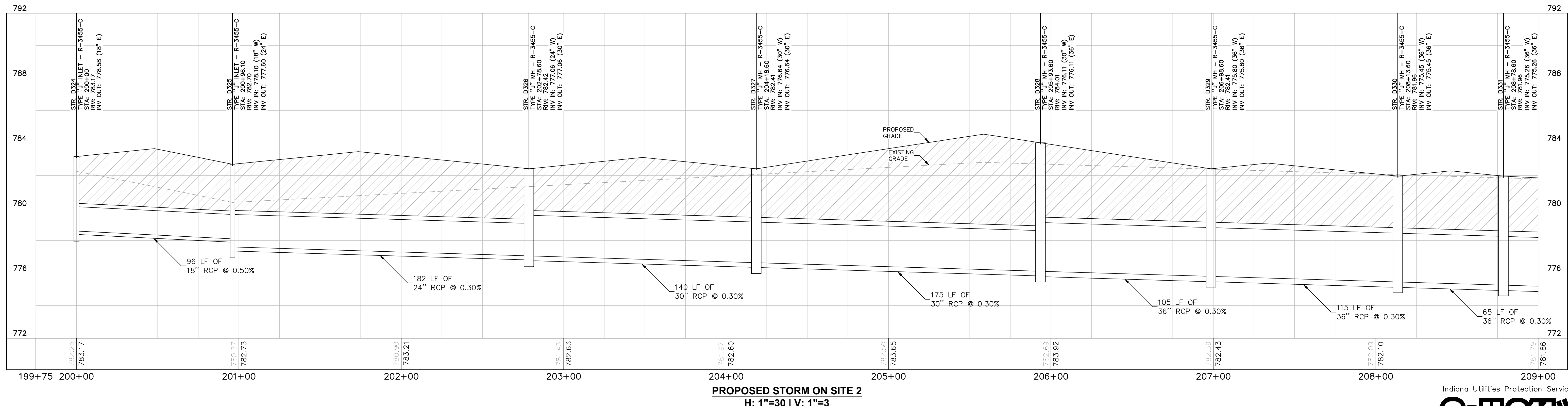
Malarkey Roofing Products

MALARKEY,IND FRANKLIN,IN

PHASE 2 - FINAL BUILDOUT
 STORM PLAN AND PROFILE

PROJ. NO.	170509000
DWG. NO.	2603
SHEET	0
REV	0

This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND\DEV\170509000_Cooper&Associates_PlantA_Plan\IND_VZ_Site_Improvements\802 - Storm Plan and Profile.dwg 2604 Oct 10, 2024 11:38am by Anthony Magarity



PLAN & PROFILE LEGEND

- FULL DEPTH GRANULAR BACKFILL REQUIRED (PROFILE VIEW)
- EXISTING PROFILE GRADE
- PROPOSED PROFILE GRADE

Kimley»Horn
 ©2024 KIMLEY-HORN AND ASSOCIATES, INC.
 500 EAST 96TH STREET, SUITE 300,
 INDIANAPOLIS, IN 46240
 PHONE: 317-218-9560
 WWW.KIMLEY-HORN.COM
 KHA PROJECT # 170509000

PROFESSIONAL SEAL

NOTICE
 THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.

DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

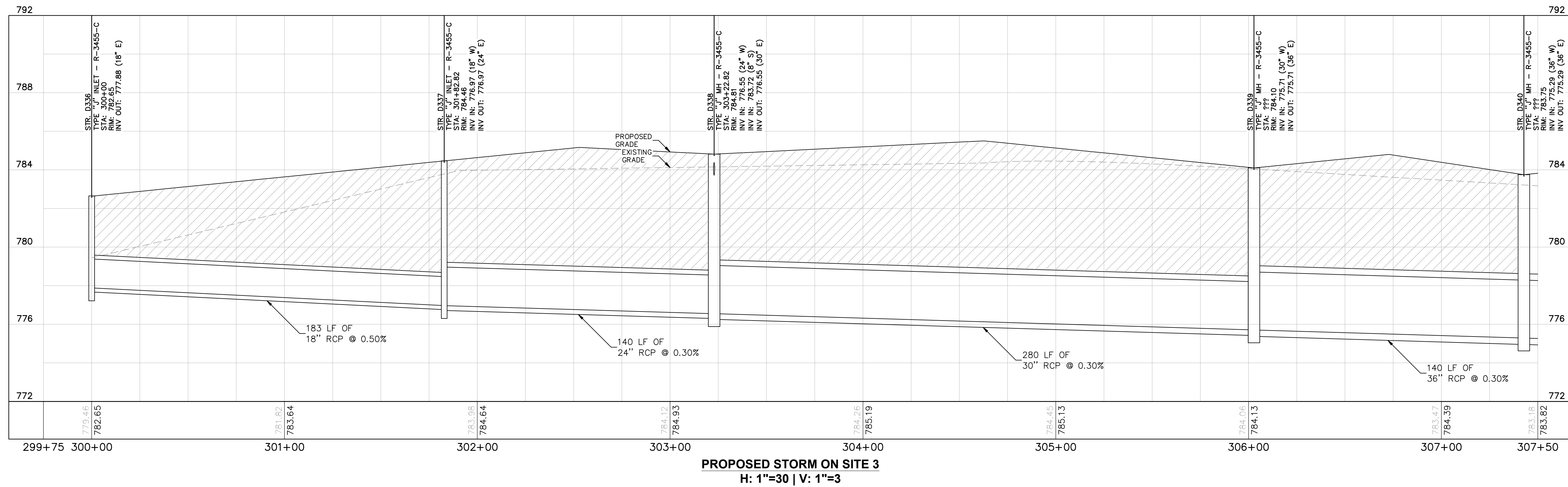
Quad Plus
 Cooper & Associates, LLC
 Engineers - Project Managers
 2200 Ellis Road, New Lenox, Illinois, 60451
 Ph. (844) 251-7823 www.quadplus.com

Malarkey Roofing Products

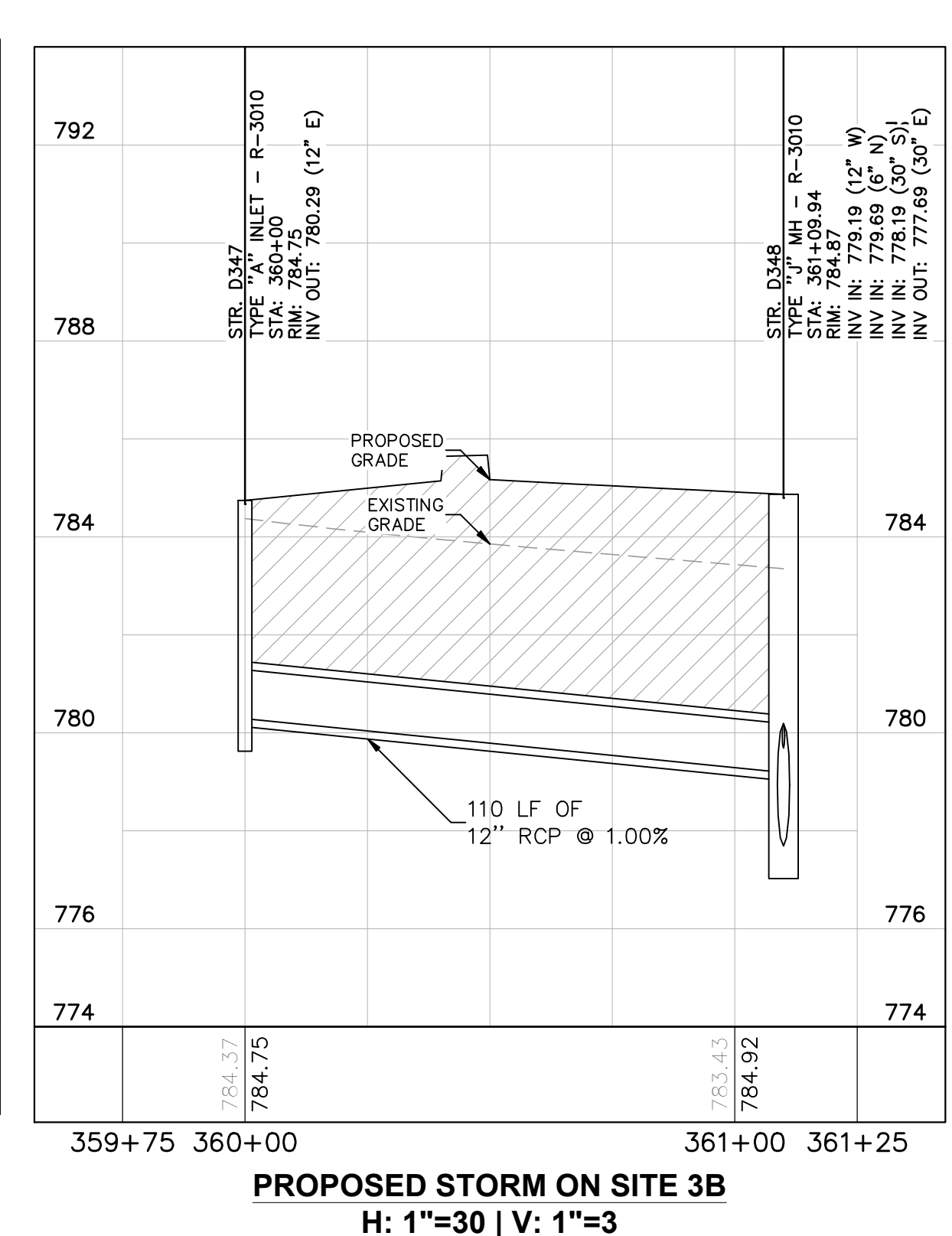
PROJ. NO. 170509000
 DWG. NO. 2604
 SHEET 0
 REV 0

PHASE 2 - FINAL BUILDOUT
 STORM PLAN AND PROFILE

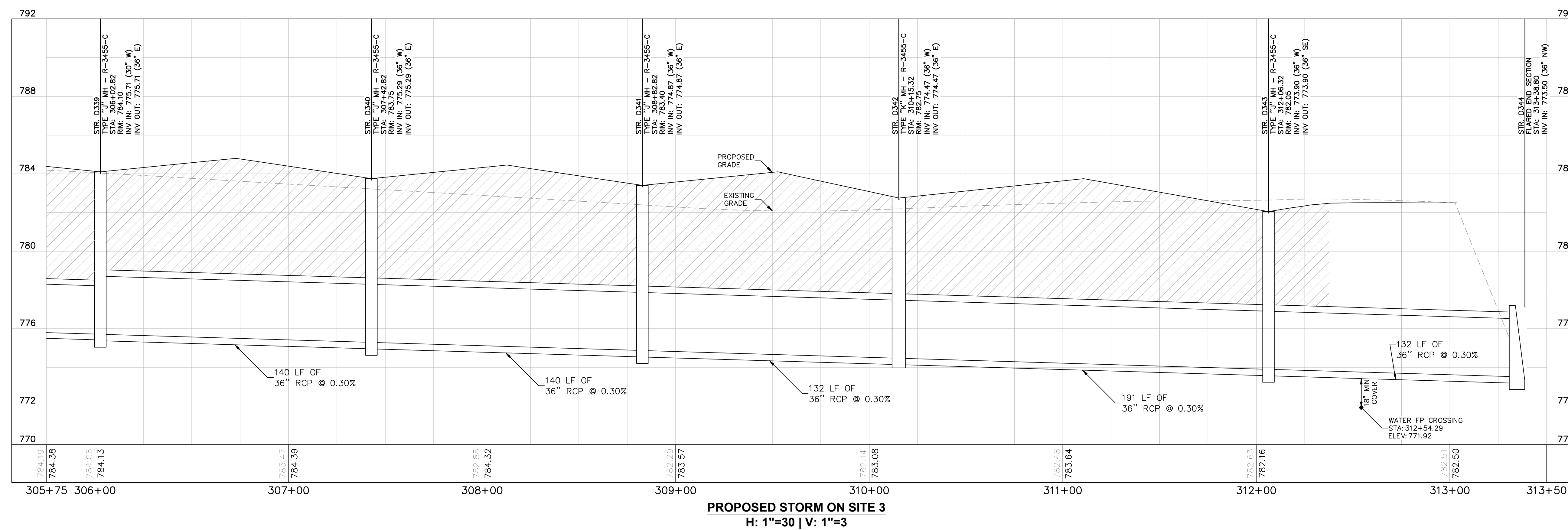
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND\DEV\170509000_Cooper&Associates_PlantA_Framin_INV\2 Storm Plan and Profile.dwg 2605 Oct 10, 2024 11:38am by Anthony Magarity



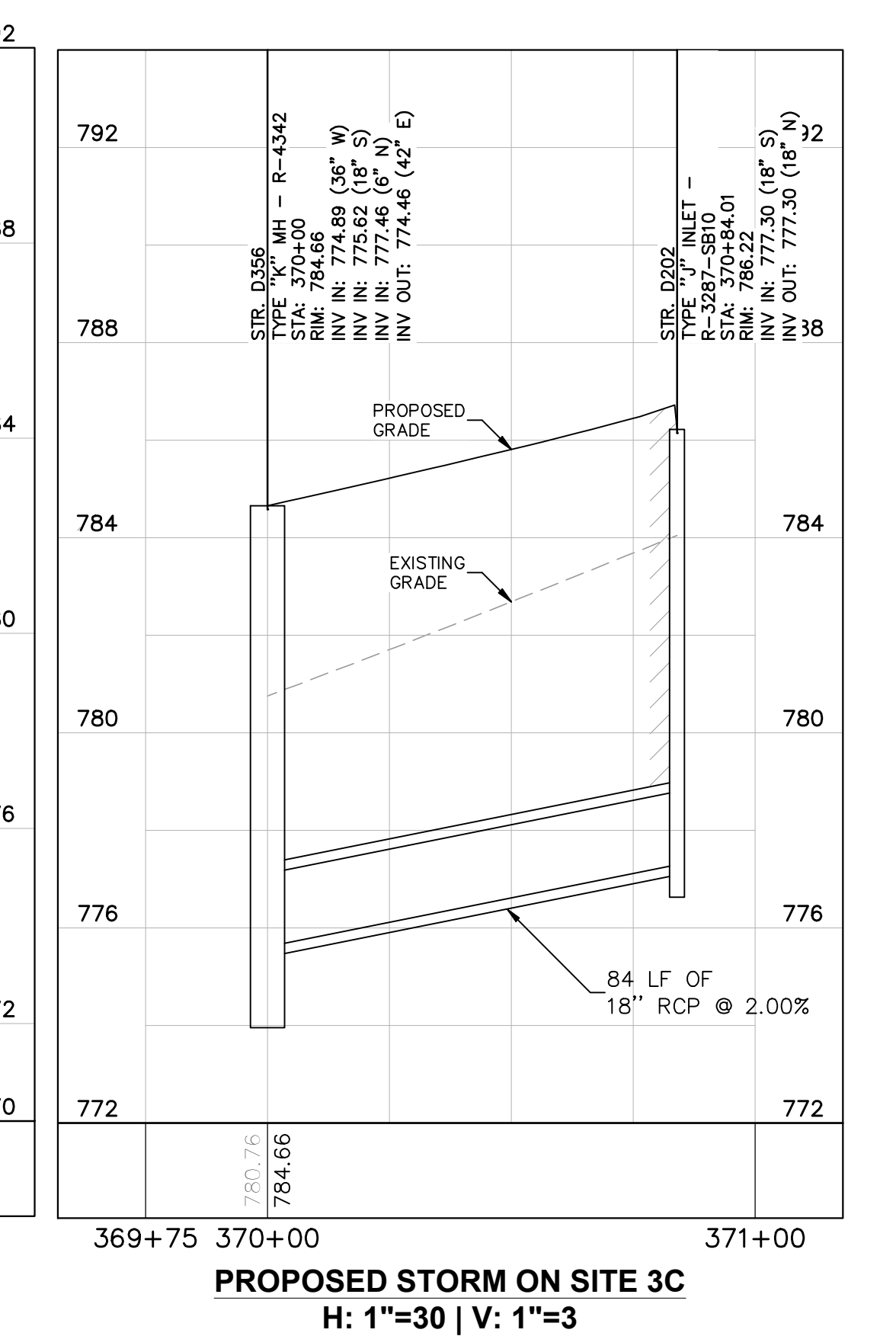
PROPOSED STORM ON SITE 3
H: 1"=30 | V: 1"=3



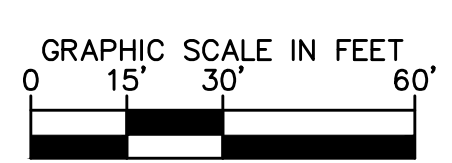
PROPOSED STORM ON SITE 3B
H: 1"=30 | V: 1"=3



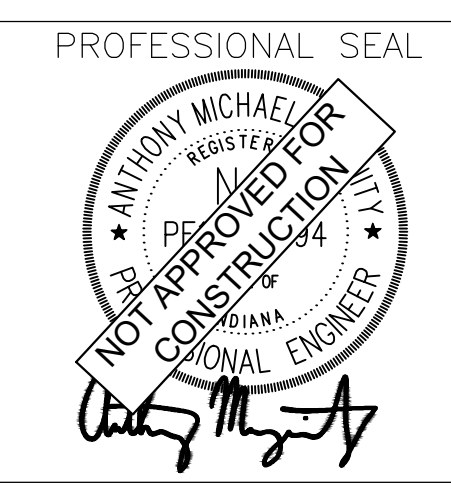
PROPOSED STORM ON SITE 3
H: 1"=30 | V: 1"=3



PROPOSED STORM ON SITE 3C
H: 1"=30 | V: 1"=3



PLAN & PROFILE LEGEND	
	FULL DEPTH GRANULAR BACKFILL REQUIRED (PROFILE VIEW)
	EXISTING PROFILE GRADE
	PROPOSED PROFILE GRADE



NOTICE
THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.

DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

SCALE: AS NOTED
 DRWN.: VG
 CHKD.: AMM
 APPD.:
 APPD.:
 DATE : 10/10/24

Quad Plus
Cooper & Associates, LLC

Engineers - Project Managers
 2200 Ellis Road, New Lenox, Illinois, 60451
 Ph. (844) 251-7823 www.quadplus.com

Kimley»Horn

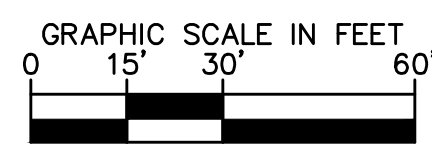
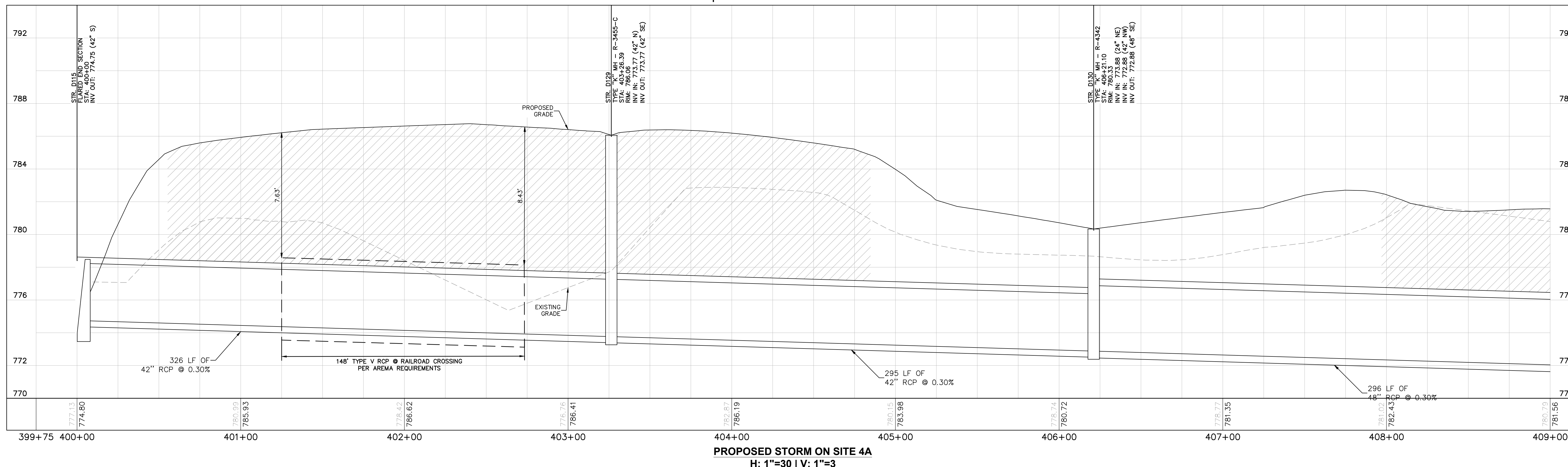
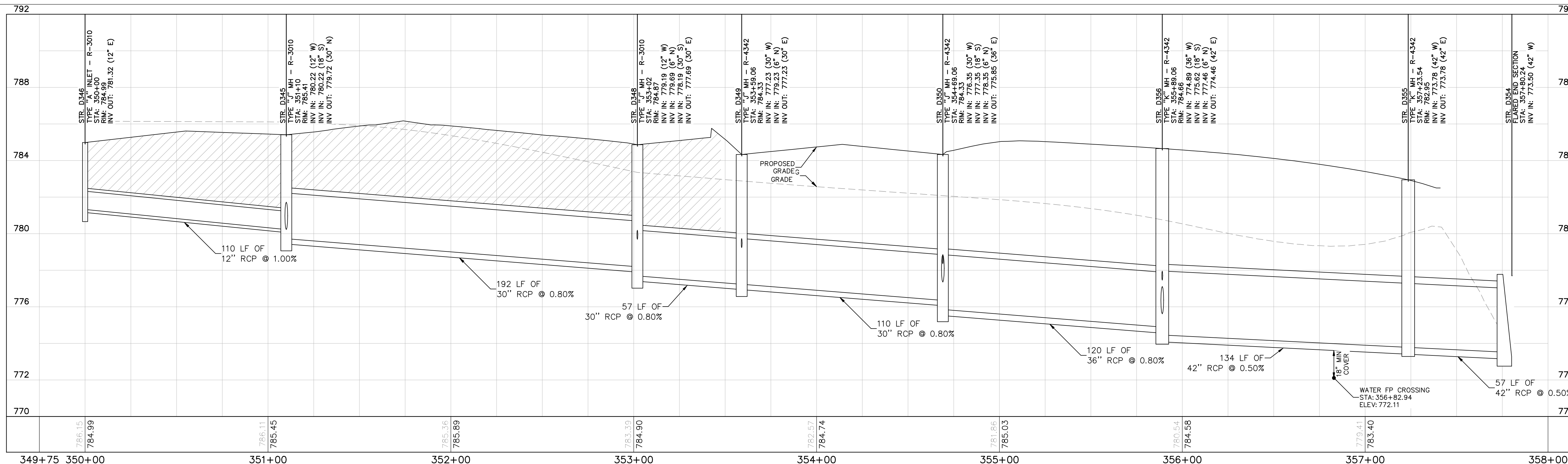
©2024 KIMLEY-HORN AND ASSOCIATES, INC.
 500 EAST 96TH STREET, SUITE 300,
 INDIANAPOLIS, IN 46240
 PHONE: 317-218-9560
 WWW.KIMLEY-HORN.COM
 KHA PROJECT # 170509000

Malarkey Roofing Products

MALARKEY,IND FRANKLIN,IN

PROJ. NO. 170509000
 DWG. NO. 2605
 SHEET 0
 REV 0

TITLE - PHASE 2 - FINAL BUILDOUT
 STORM PLAN AND PROFILE



PLAN & PROFILE LEGEND

- FULL DEPTH GRANULAR BACKFILL REQUIRED (PROFILE VIEW)
- EXISTING PROFILE GRADE
- PROPOSED PROFILE GRADE

PROFESSIONAL SEAL



NOTICE
THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.

DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

SCALE: AS NOTED
 DRWN.: VG
 CHKD.: AMM
 APPD.:
 APPD.:
 DATE : 10/10/24

Quad Plus
Cooper & Associates, LLC

Engineers - Project Managers
 2200 Ellis Road, New Lenox, Illinois, 60451
 Ph. (844) 251-7823 www.quadplus.com

Kimley»Horn

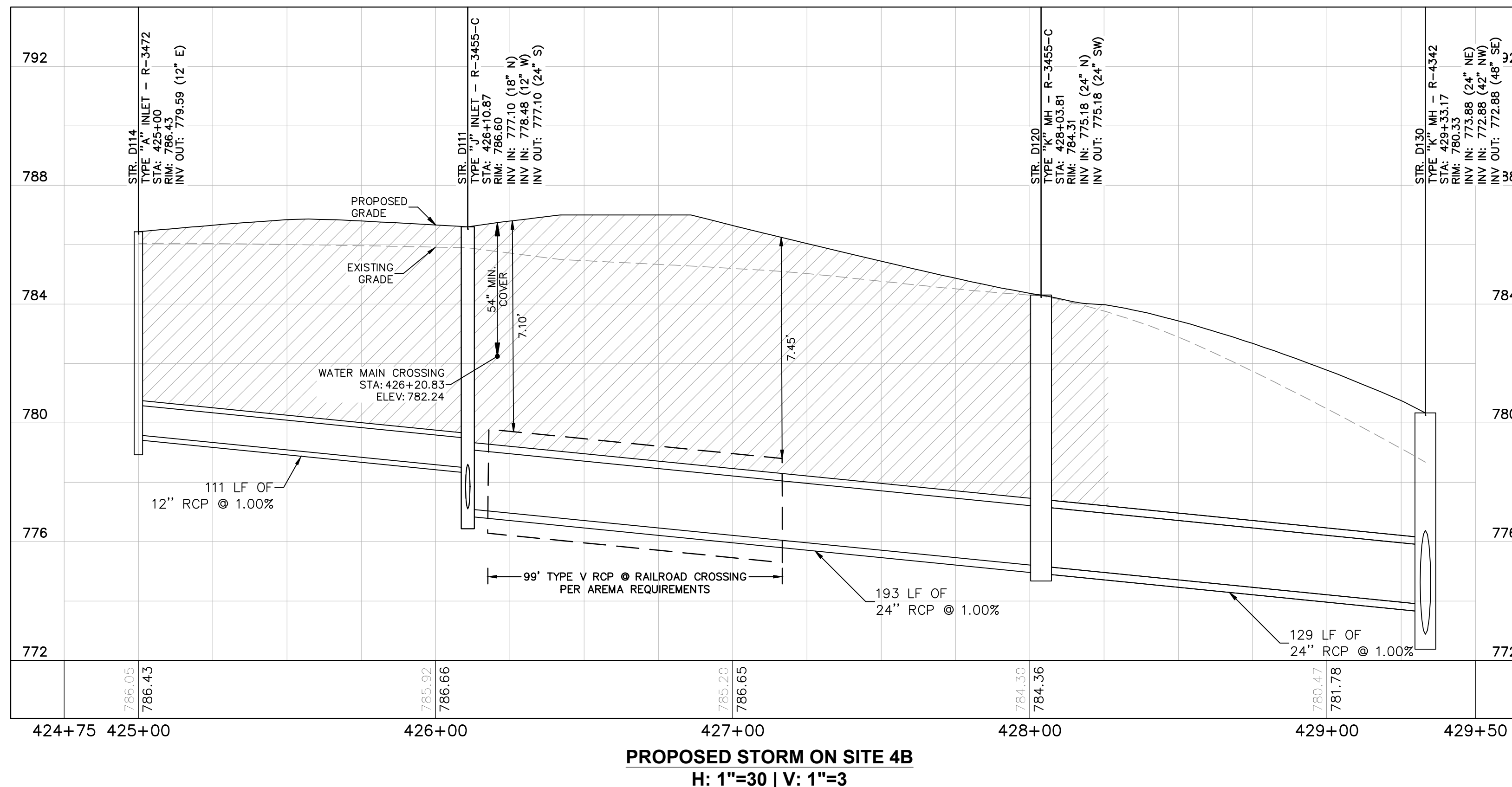
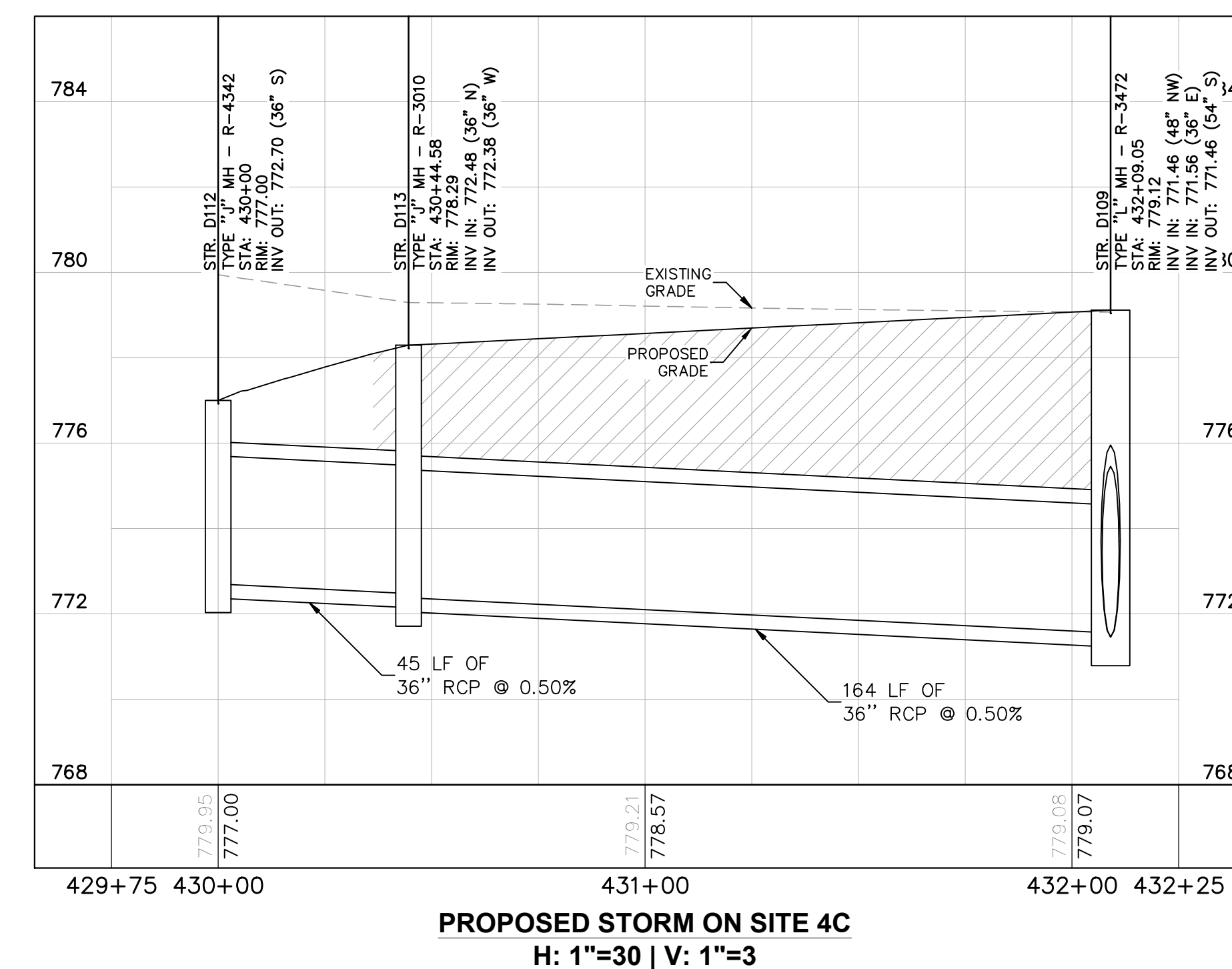
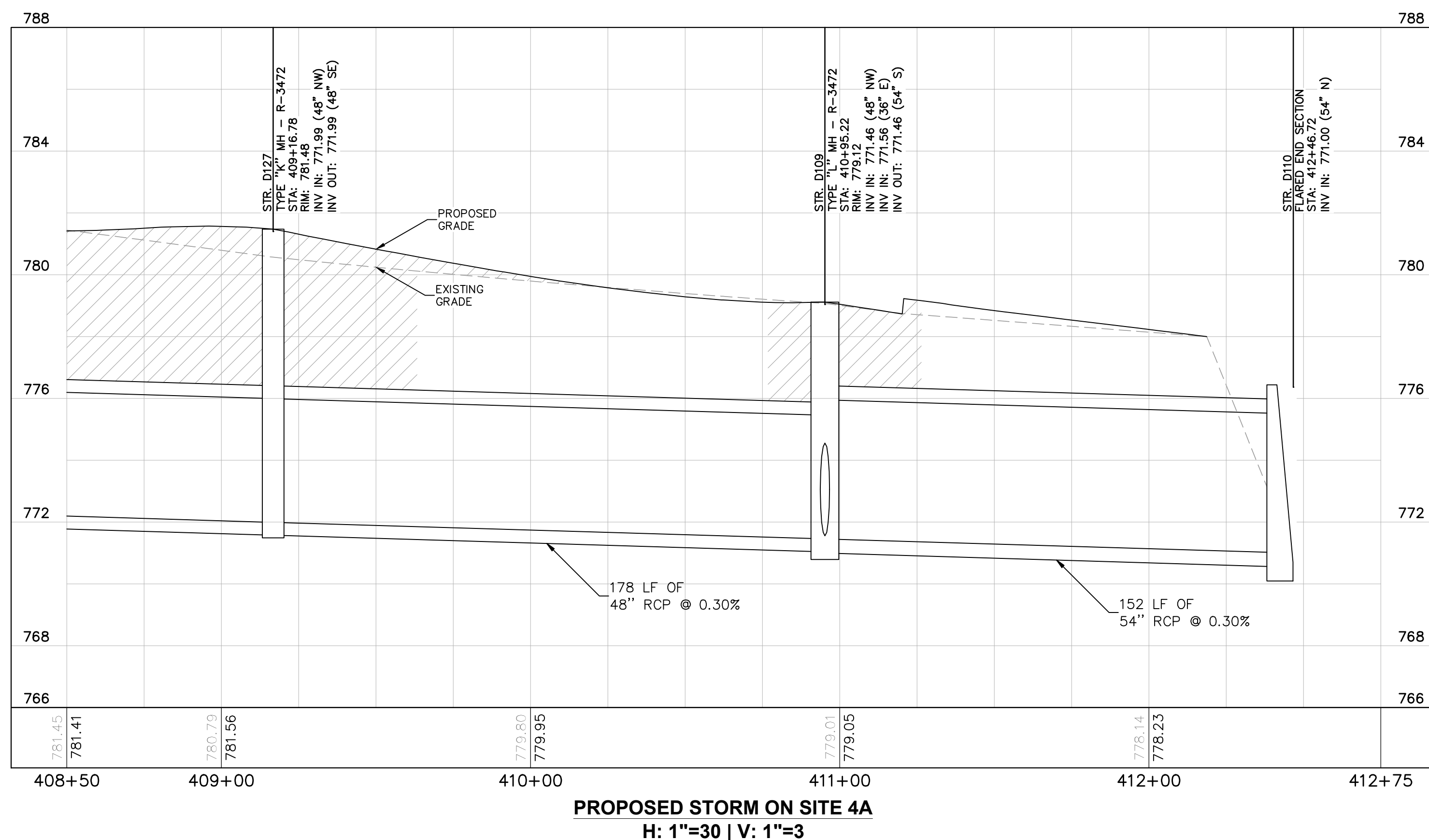
©2024 KIMLEY-HORN AND ASSOCIATES, INC.
 500 EAST 96TH STREET, SUITE 300,
 INDIANAPOLIS, IN 46240
 PHONE: 317-218-9560
 WWW.KIMLEY-HORN.COM
 KHA PROJECT # 170509000



MALARKEY,IND FRANKLIN,IN
 TITLE- PHASE 2 - FINAL BUILDOUT
 STORM PLAN AND PROFILE

PROJ. NO.	170509000
DWG. NO.	2606
SHEET	0
REV	0

This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND\DEV\170509000_Cooper&Associates_Plan4A_Site_Improvements\802 -STORM PLAN AND PROFILE.dwg 2606 Oct 10, 2024 11:38am by AnthonyMagrity



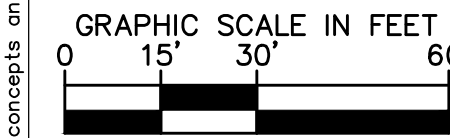
PLAN & PROFILE LEGEND

- FULL DEPTH GRANULAR BACKFILL REQUIRED (PROFILE VIEW)
- EXISTING PROFILE GRADE
- PROPOSED PROFILE GRADE

Kimley»Horn
 ©2024 KIMLEY-HORN AND ASSOCIATES, INC.
 500 EAST 96TH STREET, SUITE 300,
 INDIANAPOLIS, IN 46240
 PHONE: 317-218-9560
 WWW.KIMLEY-HORN.COM
 KHA PROJECT # 170509000

Malarkey Roofing Products
 MALARKEY,IND FRANKLIN,IN

PROJ. NO. 170509000
 DWG. NO. 2607
 SHEET 0
 TITLE- PHASE 2 - FINAL BUILDOUT
 STORM PLAN AND PROFILE



PROFESSIONAL SEAL

 NOT APPROVED FOR CONSTRUCTION

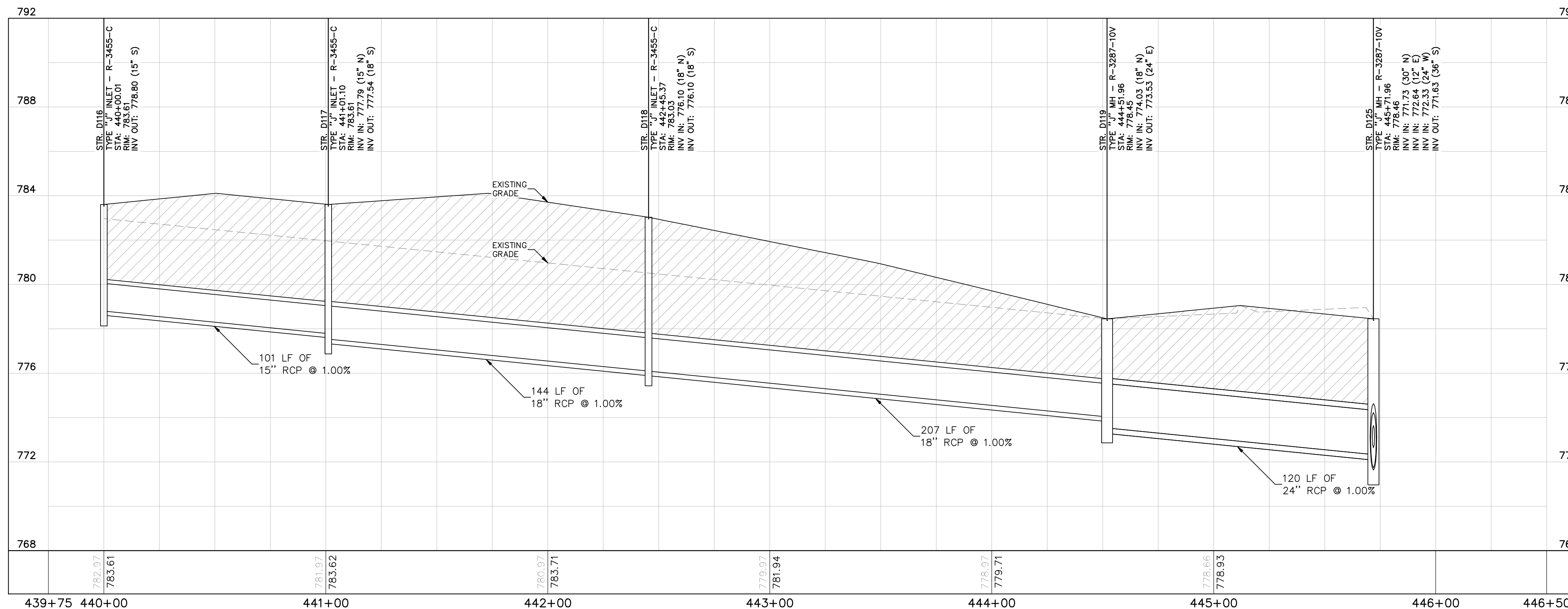
NOTICE
 THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.
 DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

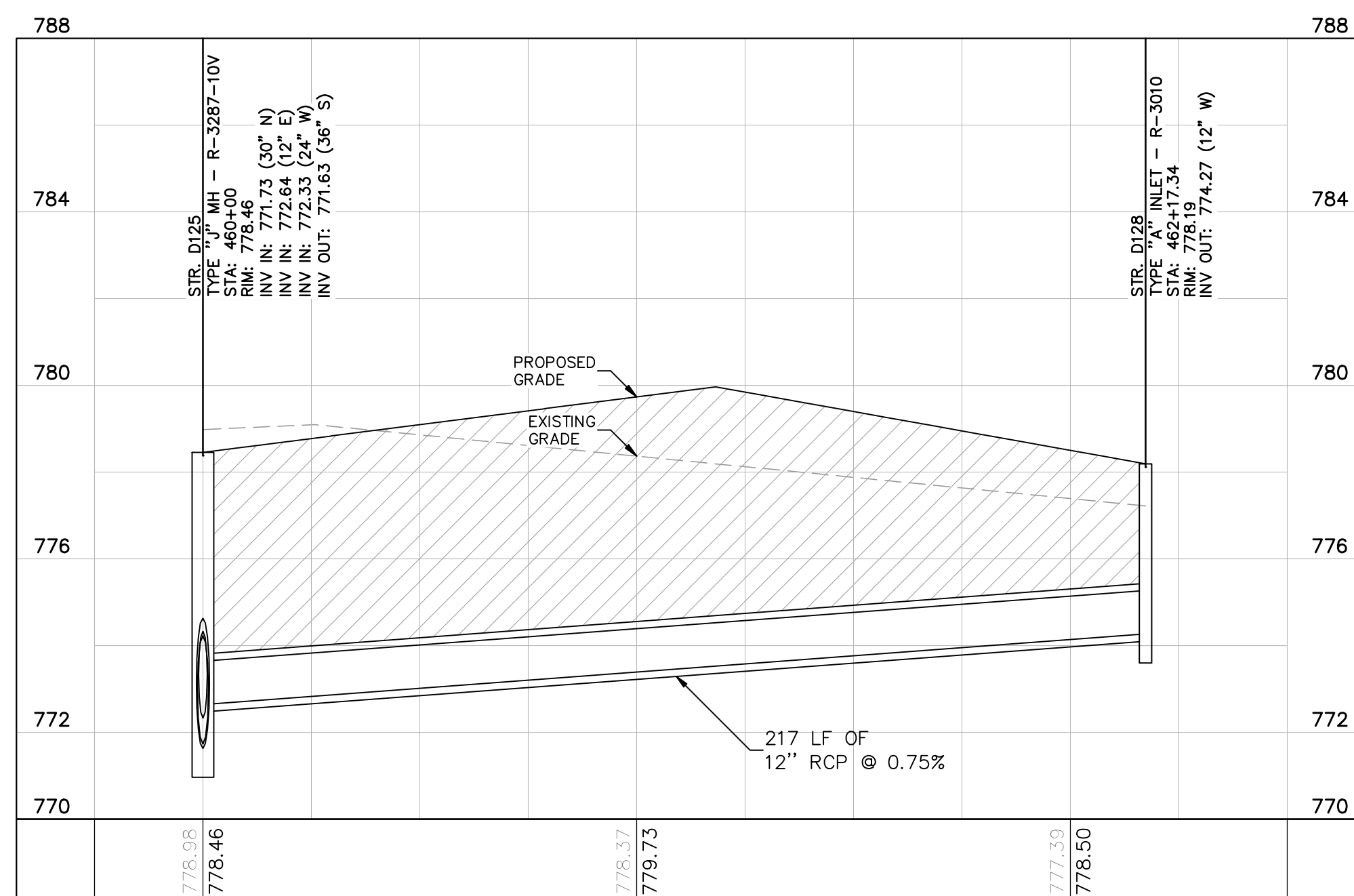
SCALE: AS NOTED
 DRWN.: VG
 CHKD.: AMM
 APPD.:
 APPD.:
 DATE : 10/10/24

Quad Plus
 Cooper & Associates, LLC
 Engineers - Project Managers
 2200 Ellis Road, New Lenox, Illinois, 60451
 Ph. (844) 251-7823 www.quadplus.com

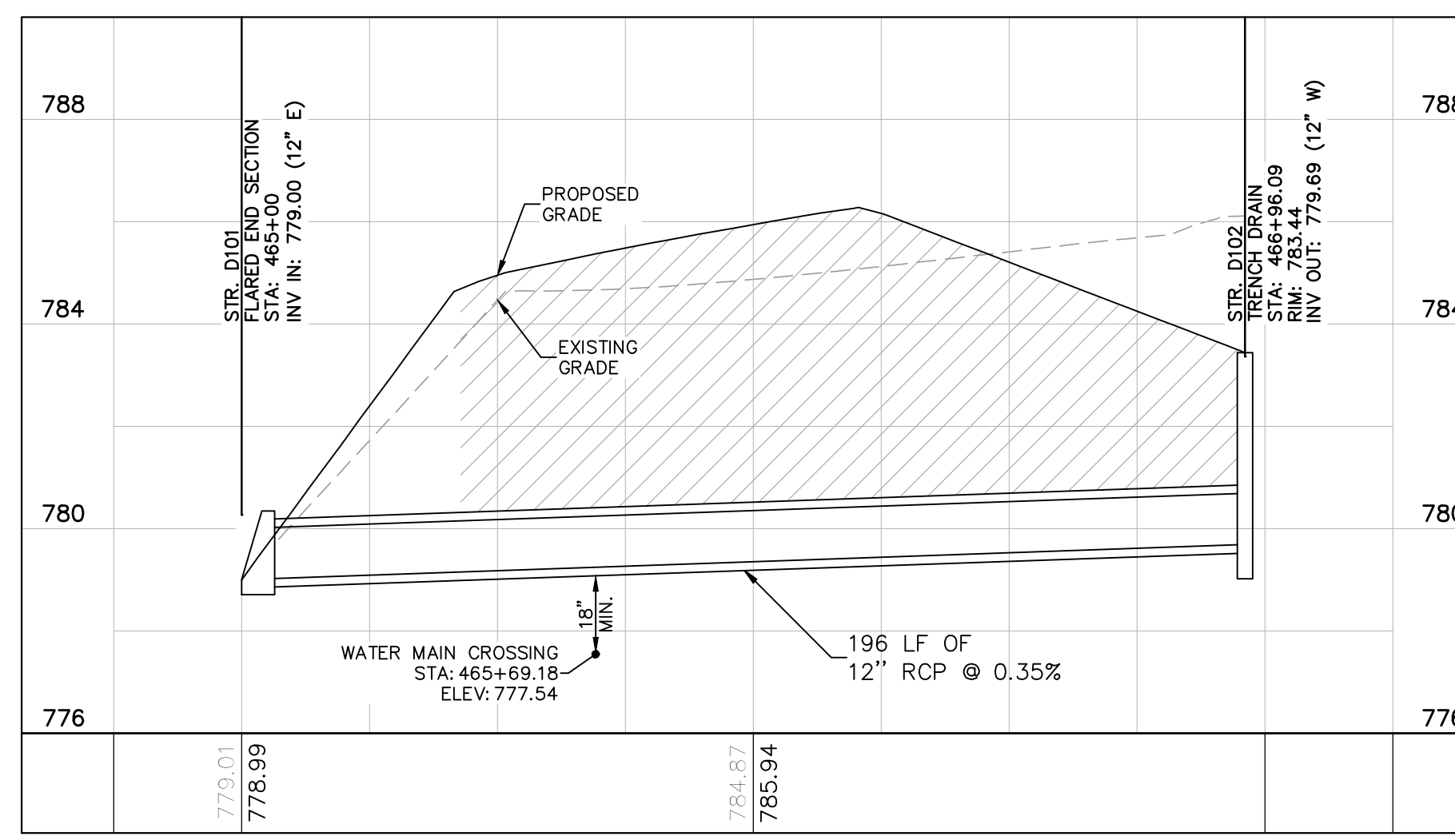
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND_DEV\170509000_Cooper&Associates_Plant4_Plan_V2 Design\CD\PlanSheets\Site Improvements\802 - Storm Plan and Profile.dwg 2607 Oct 10, 2024 11:38am by AnthonyMagnity



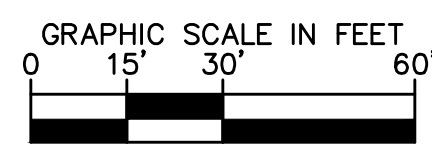
PROPOSED STORM ON SITE 4D
H: 1"=30 | V: 1"=3



PROPOSED STORM ON SITE 4F
H: 1"=30 | V: 1"=3



PROPOSED STORM ON SITE 4G
H: 1"=30 | V: 1"=3



PLAN & PROFILE LEGEND

- FULL DEPTH GRANULAR BACKFILL REQUIRED (PROFILE VIEW)
- EXISTING PROFILE GRADE
- PROPOSED PROFILE GRADE

Kimley»Horn

©2024 KIMLEY-HORN AND ASSOCIATES, INC.
500 EAST 96TH STREET, SUITE 300,
INDIANAPOLIS, IN 46240
PHONE: 317-218-9560
WWW.KIMLEY-HORN.COM
KHA PROJECT # 170509000



MALARKEY,IND FRANKLIN,IN

PROFESSIONAL SEAL



NOTICE

THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.

DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

SCALE: AS NOTED
DRWN.: VG
CHKD.: AMM
APPD.:
APPD.:
DATE : 10/10/24



Engineers - Project Managers
2200 Ellis Road, New Lenox, Illinois, 60451
Ph. (844) 251-7823 www.quadplus.com

PROJ. NO.
170509000

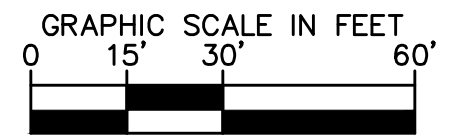
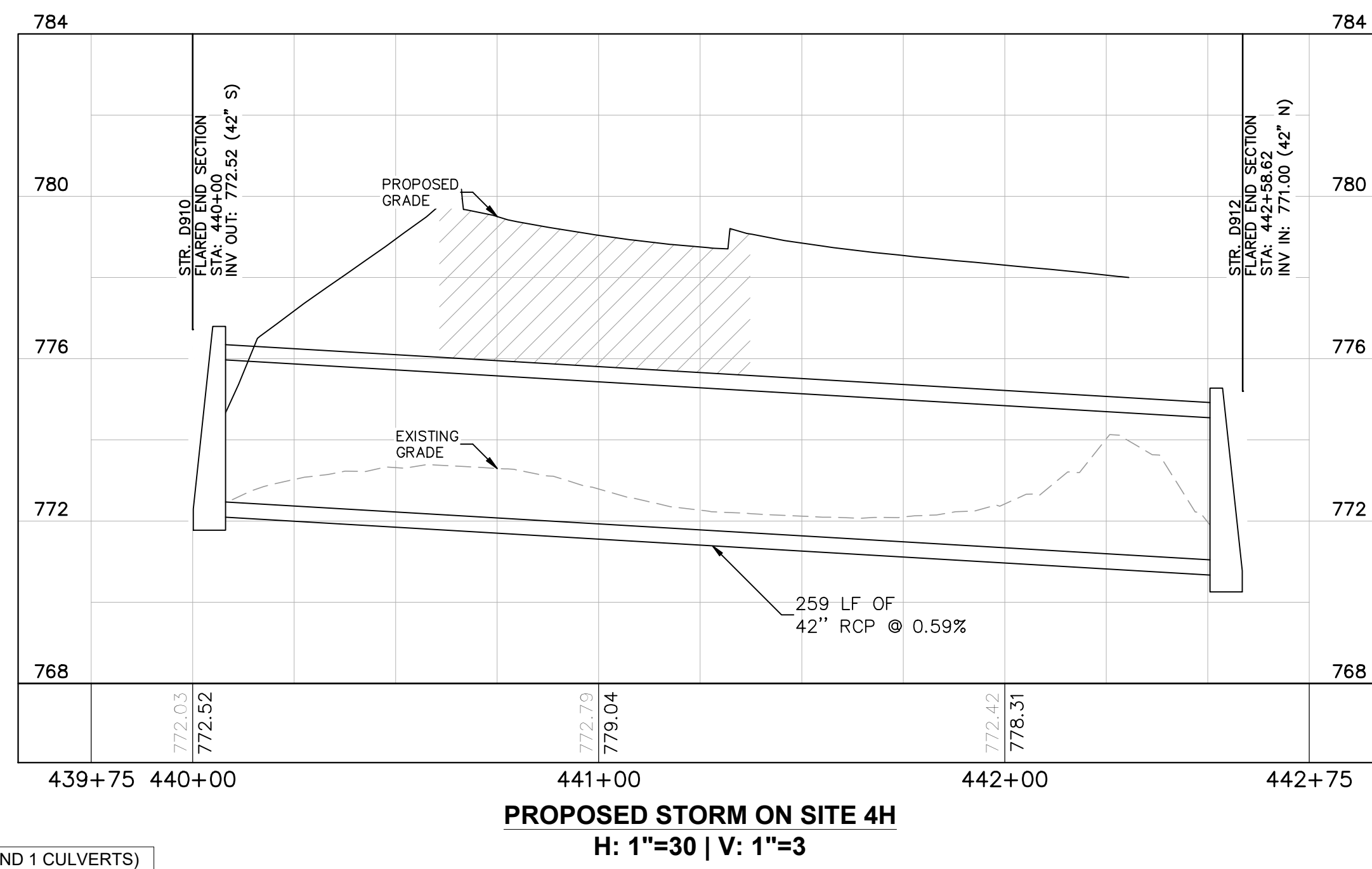
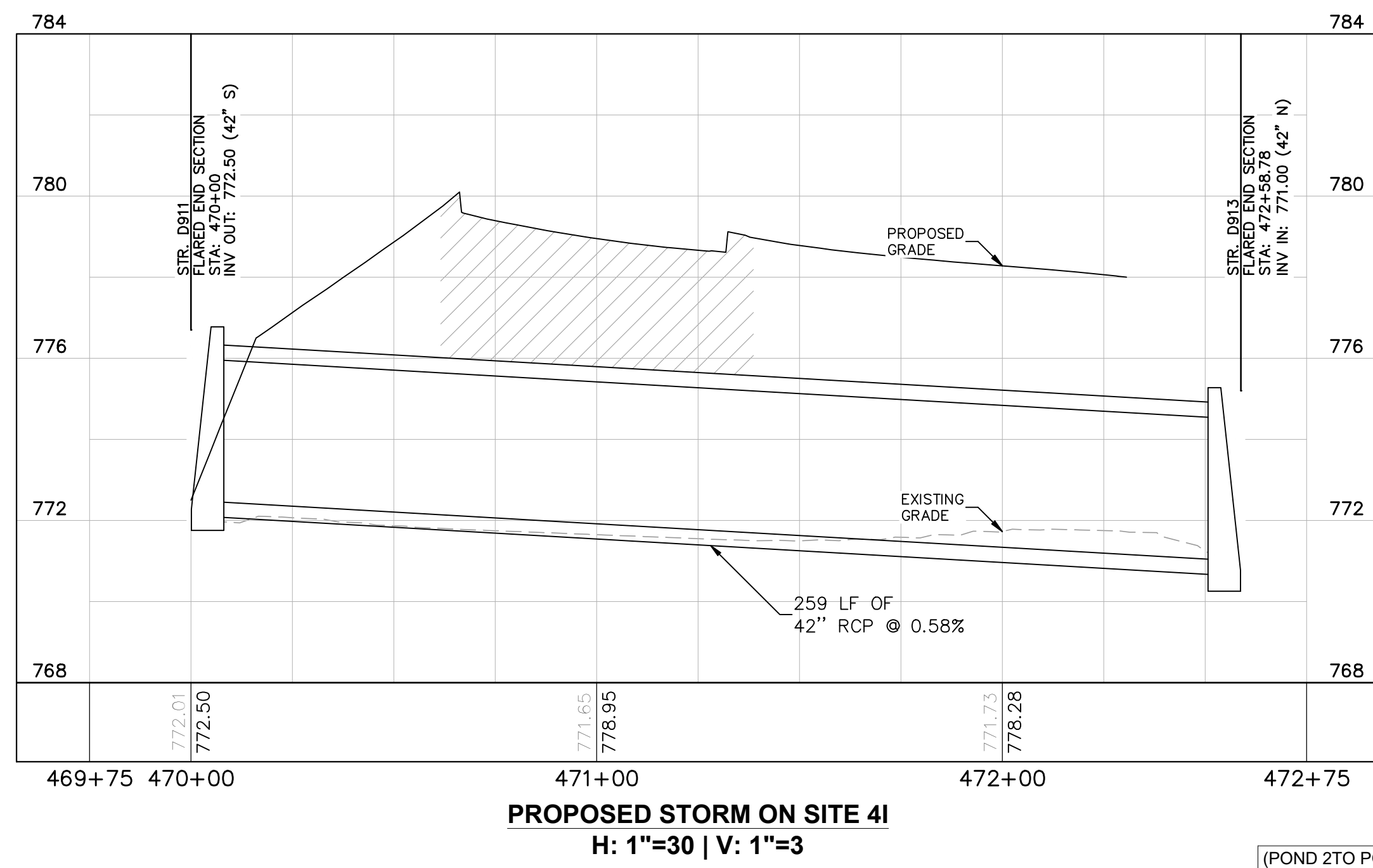
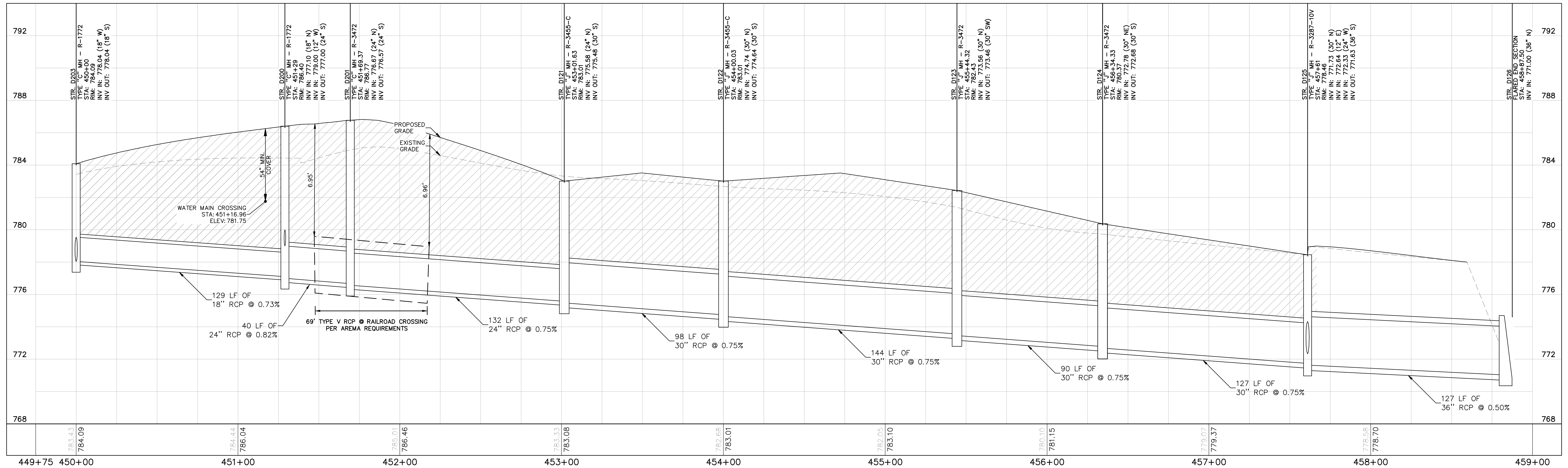
DWG. NO.
2608

SHEET
REV 0

TITLE- PHASE 2 - FINAL BUILDOUT
STORM PLAN AND PROFILE

This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND_DEV\170509000_Cooper&Associates_Plan\IN_V Design\CD\PlanSheets\Site Improvements\802 - Storm Plan and Profile.dwg 2608 Oct 10, 2024 11:38am by Anthony Magarity

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND\DEV\170509000_Cooper&Associates_Plant\Franklin_IL\2 Storm Plans\Storm Plans and Profile.dwg 2609 Oct 10, 2024 11:38am by AnthonyMagnity



PLAN & PROFILE LEGEND	
	FULL DEPTH GRANULAR BACKFILL REQUIRED (PROFILE VIEW)
	EXISTING PROFILE GRADE
	PROPOSED PROFILE GRADE



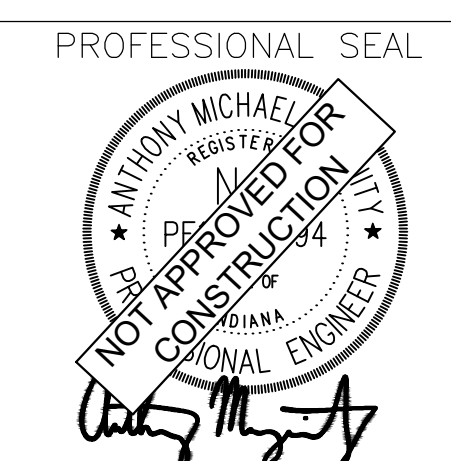
Kimley»Horn

©2024 KIMLEY-HORN AND ASSOCIATES, INC.
500 EAST 96TH STREET, SUITE 300,
INDIANAPOLIS, IN 46240
PHONE: 317-218-9560
WWW.KIMLEY-HORN.COM
KHA PROJECT # 170509000



MALARKEY,IND FRANKLIN,IN
TITLE- PHASE 2 - FINAL BUILDOUT
STORM PLAN AND PROFILE

PROJ. NO.	170509000
DWG. NO.	2609
SHEET	0
REV	0



NOTICE
THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.

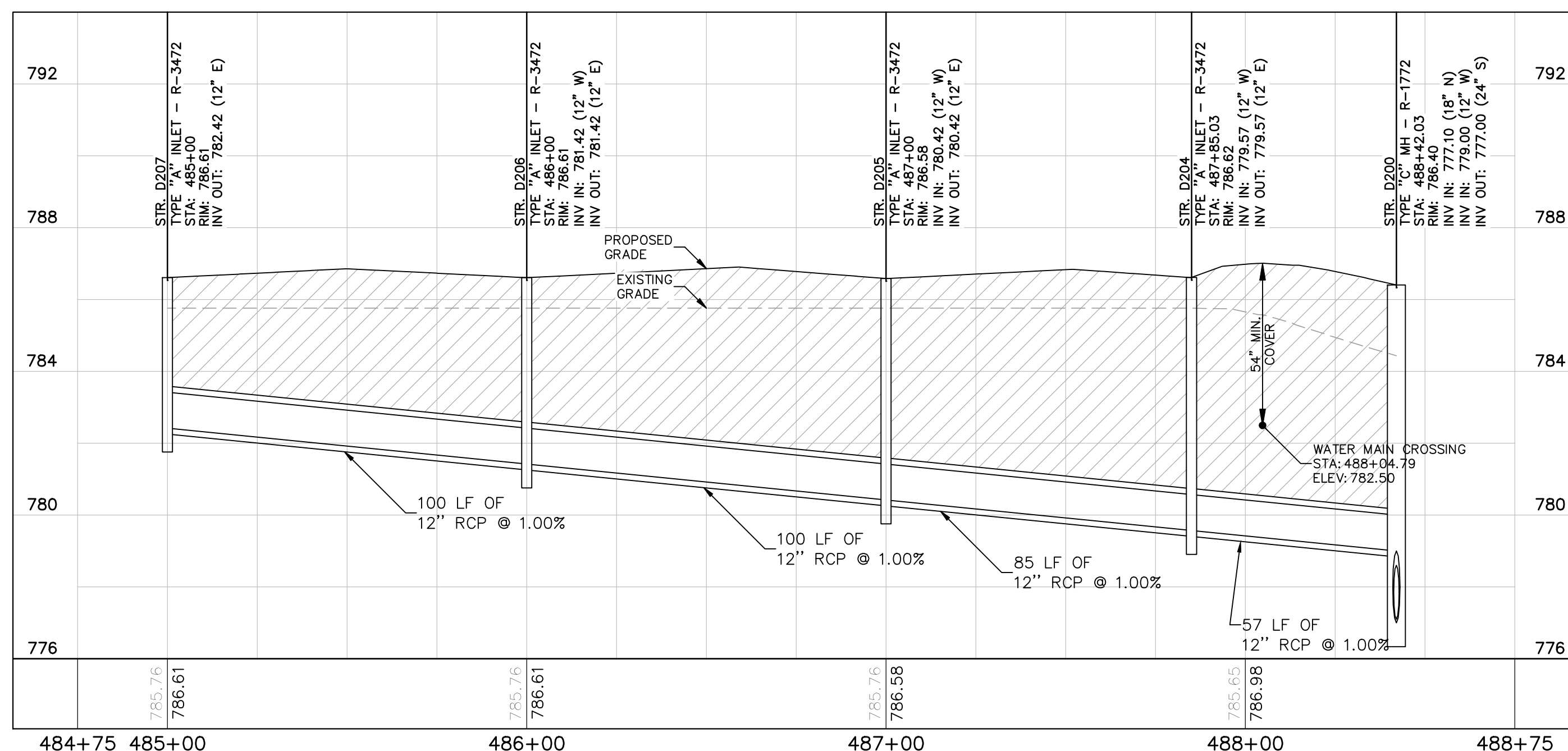
DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

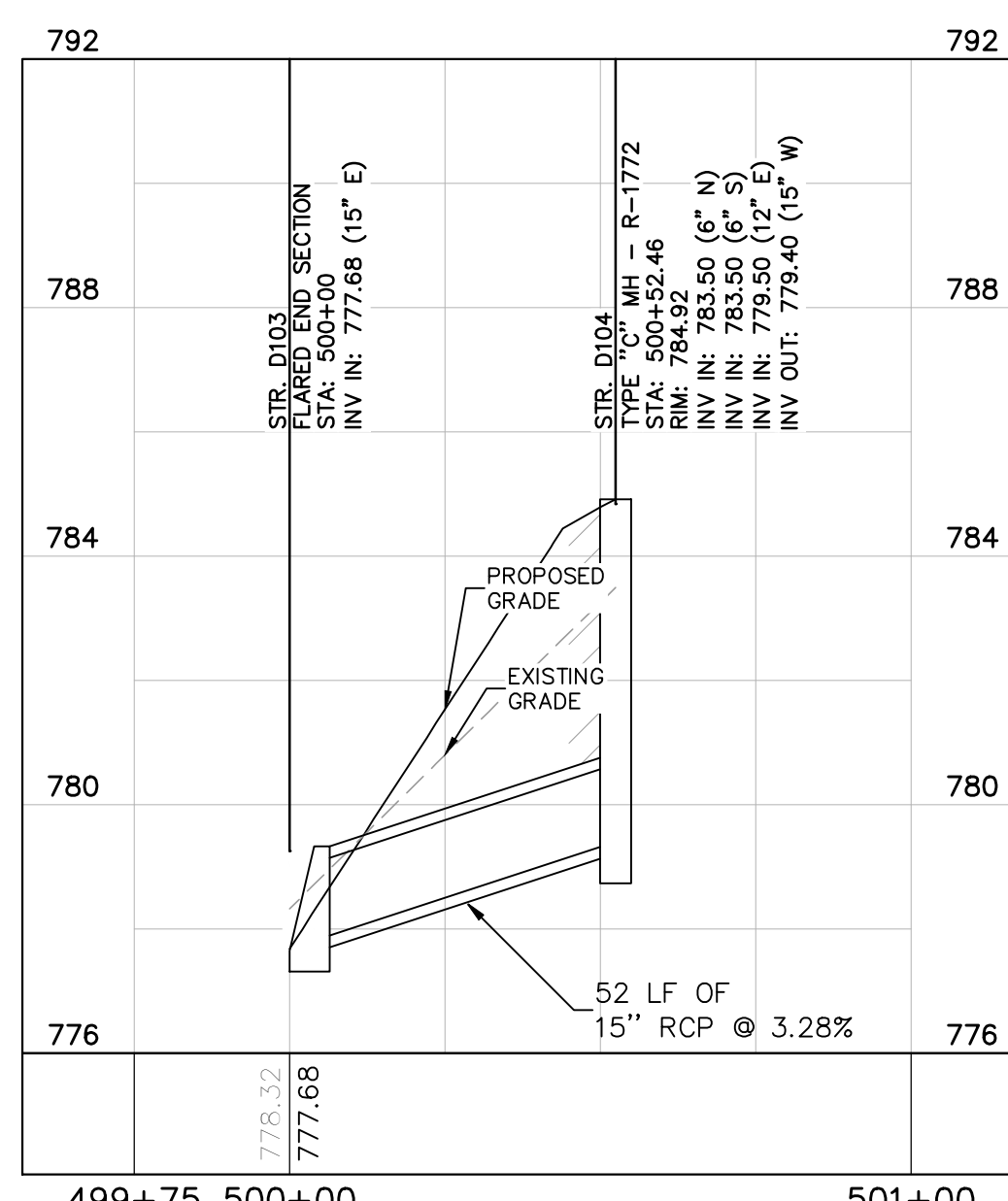
SCALE: AS NOTED
DRWN.: VG
CHKD.: AMM
APPD.:
APPD.:
DATE : 10/10/24



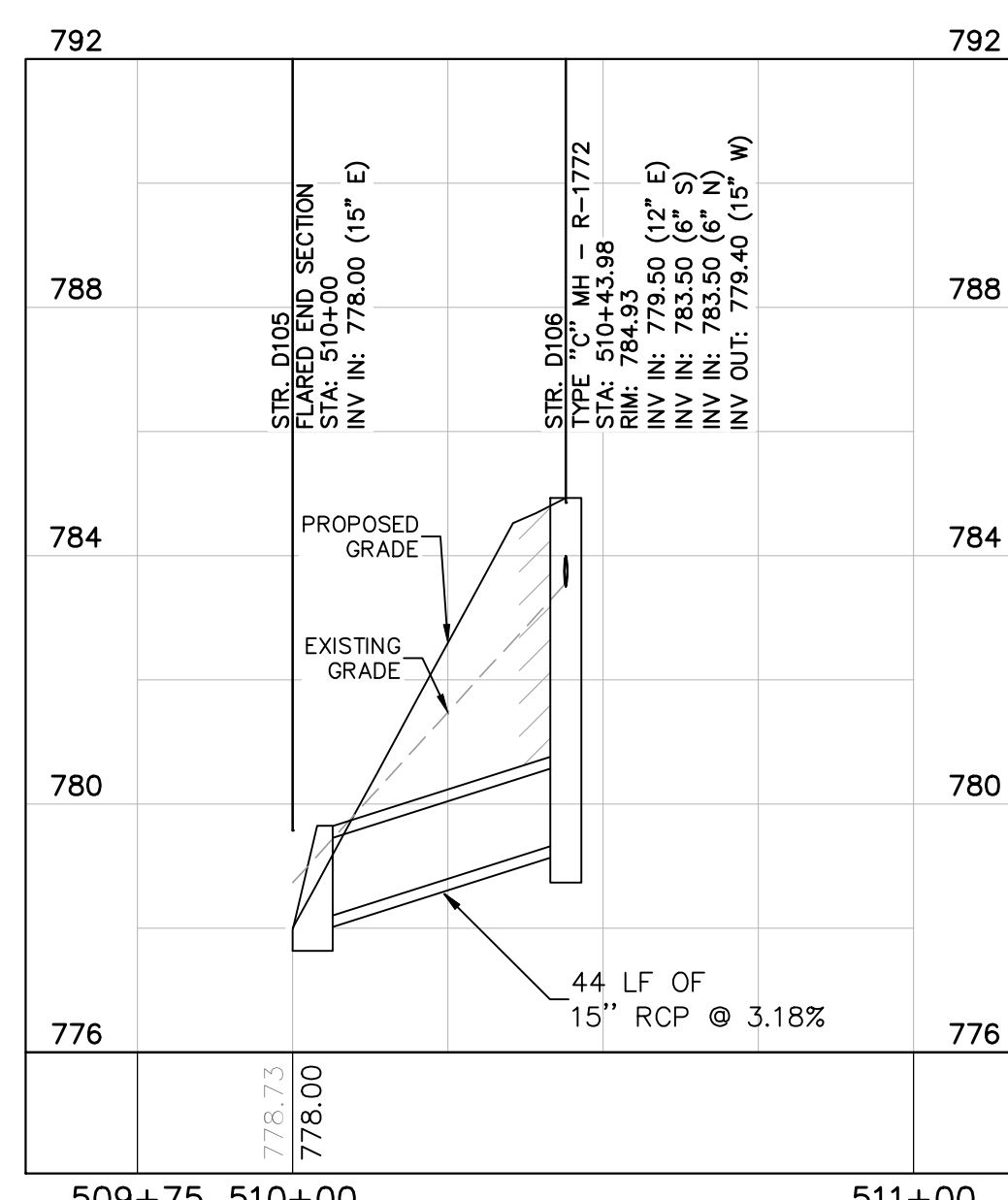
Engineers - Project Managers
2200 Ellis Road, New Lenox, Illinois, 60451
Ph. (844) 251-7823 www.quadplus.com



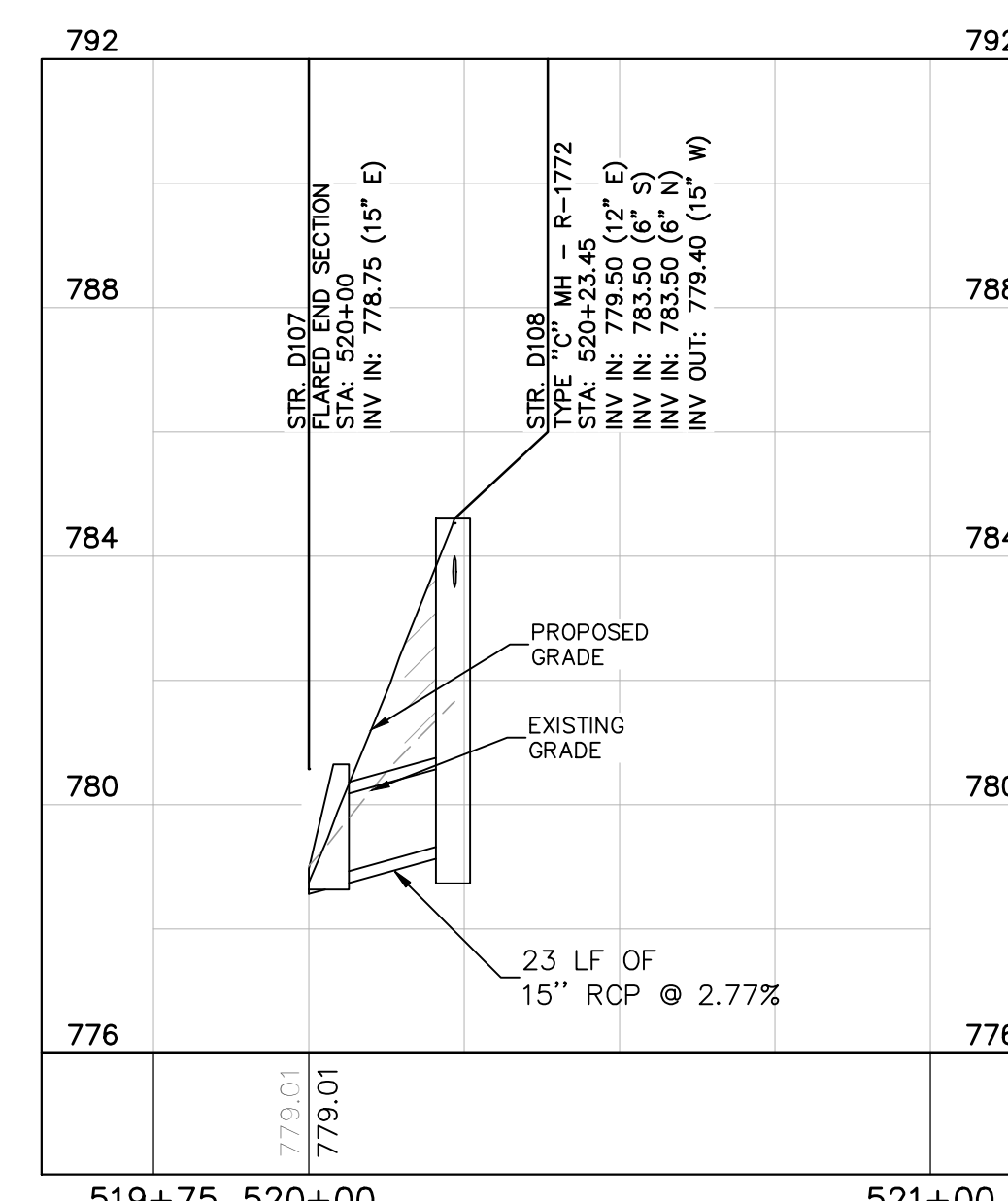
PROPOSED STORM ON SITE 4J
H: 1"=30 | V: 1"=3



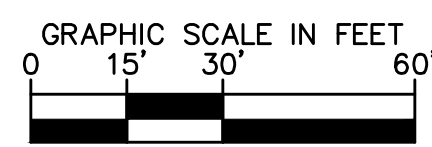
PROPOSED STORM ON SITE 5A
H: 1"=30 | V: 1"=3



PROPOSED STORM ON SITE 5B
H: 1"=30 | V: 1"=3



PROPOSED STORM ON SITE 5C
H: 1"=30 | V: 1"=3



PLAN & PROFILE LEGEND

- FULL DEPTH GRANULAR BACKFILL REQUIRED (PROFILE VIEW)
- EXISTING PROFILE GRADE
- PROPOSED PROFILE GRADE

Kimley»Horn

©2024 KIMLEY-HORN AND ASSOCIATES, INC.
500 EAST 96TH STREET, SUITE 300,
INDIANAPOLIS, IN 46240
PHONE: 317-218-9560
WWW.KIMLEY-HORN.COM
KHA PROJECT # 170509000



MALARKEY,IND FRANKLIN,IN

PROFESSIONAL SEAL



NOTICE

THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.

DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

SCALE: AS NOTED
DRWN.: VG
CHKD.: AMM
APPD.:
APPD.:
DATE : 10/10/24



Engineers - Project Managers
2200 Ellis Road, New Lenox, Illinois, 60451
Ph. (844) 251-7823 www.quadplus.com

PROJ. NO.
170509000

DWG. NO.
2610

SHEET
REV 0

TITLE- PHASE 2 - FINAL BUILDOUT
STORM PLAN AND PROFILE

This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND_DEV\170509000_Cooper&Associates_PlantA_Franklin_IN_V Design\CADD\PlanSheets\Site Improvements\802 - Storm Plan and Profile.dwg 2610 Oct 10, 2024 11:39am by AnthonyMagnity

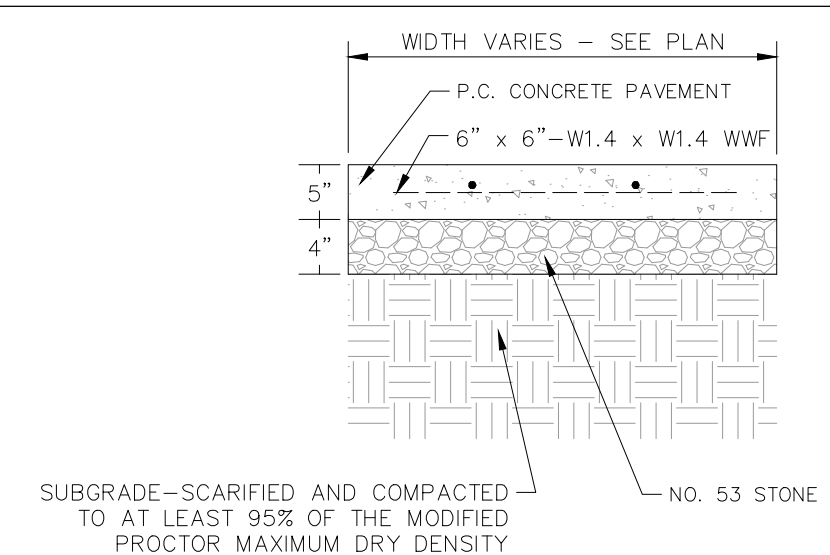
This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND\DEV\170509000_Cooper&Associates\Plan\N\Q Design\DWG\PlanSheets\Site Improvements\8202 -SDR PLAN AND PROFILE.dwg 2811 Oct 10, 2024 11:38am by Anthony Maginity

STORM SEWER STRUCTURE DATA TABLE											
NOTE: DEBRIS GUARD REQUIRED ON ALL END SECTIONS ALL CASTINGS SHALL BE LABELED "DUMP NO WASTE--DRAINS TO WATERWAY"											
STR. NO.	STRUCTURE/CASTING TYPE NOTE: NEENAH CASTINGS	T.O.R.	INCOMING PIPE DATA (DIRECTION) [FROM STR]	OUTGOING PIPE DATA (DIRECTION) [TO STR]	OUTGOING PIPE L.F.	OUTGOING PIPE SIZE	OUTGOING GRADE (%)	CONNECT TO STRUCTURE	REMARKS	NORTHING	EASTING
D101	FLARED END SECTION		12" RCP 779.00 (E) [D102]							1560272.55	214353.31
D102	TRENCH DRAIN	783.44		12" RCP 779.69 (W) [D101]	196'	12"	0.35%	D101		1560272.77	214549.40
D103	FLARED END SECTION		15" RCP 777.68 (E) [D104]							1560174.72	214350.84
D104	TYPE "C" MH - R-1772	784.92	6" HDPE 783.50 (N) [] 6" HDPE 783.50 (S) [] 12" HDPE ROOF DRAIN 779.50 (E) []	15" RCP 779.40 (W) [D103]	52'	15"	3.28%	D103		1560174.72	214403.29
D105	FLARED END SECTION		15" RCP 778.00 (E) [D106]							1560049.73	214359.32
D106	TYPE "C" MH - R-1772	784.93	12" HDPE ROOF DRAIN 779.50 (E) [] 6" HDPE 783.50 (S) [] 6" HDPE 783.50 (N) []	15" RCP 779.40 (W) [D105]	44'	15"	3.18%	D105		1560049.73	214403.29
D107	FLARED END SECTION		15" RCP 778.75 (E) [D108]							1559924.73	214379.84
D108	TYPE "C" MH - R-1772	784.61	12" HDPE ROOF DRAIN 779.50 (E) [] 6" HDPE 783.50 (S) [] 6" HDPE 783.50 (N) []	15" RCP 779.40 (W) [D107]	23'	15"	2.77%	D107		1559924.72	214403.30
D109	TYPE "L" MH - R-3472	779.12	48" RCP 771.46 (NW) [D127] 36" RCP 771.56 (E) [D113]	54" RCP 771.46 (S) [D110]	152'	54"	0.30%	D110		1559007.18	214989.93
D110	FLARED END SECTION		54" RCP 771.00 (N) [D109]							1558855.68	214989.93
D111	TYPE "J" INLET - R-3455-C	786.60	18" PVC ROOF DRAIN 777.10 (N) [] 12" RCP 778.48 (W) [D114]	24" RCP 777.10 (S) [D120]	193'	24"	1.00%	D120		1559625.98	214775.05
D112	TYPE "J" MH - R-4342	777.00		36" RCP 772.70 (S) [D113]	45'	36"	0.50%	D113		1559051.72	215154.11
D113	TYPE "J" MH - R-3010	778.29	36" RCP 772.38 (N) [D112]	36" RCP 772.38 (W) [D109]	164'	36"	0.50%	D109		1559333.04	215154.40
D114	TYPE "A" INLET - R-3472	786.43		12" RCP 779.59 (E) [D111]	111'	12"	1.00%	D111		1559642.24	214665.38
D115	FLARED END SECTION		42" RCP 774.75 (S) [D129]	326'	42"	0.30%	D129			1559886.13	214372.87
D116	TYPE "J" INLET - R-3455-C	783.61		15" RCP 778.80 (S) [D117]	101'	15"	1.00%	D117		1559434.14	215370.21
D117	TYPE "J" INLET - R-3455-C	783.61	15" RCP 777.79 (N) [D116]	18" RCP 777.54 (S) [D118]	144'	18"	1.00%	D118		1559333.04	215370.21
D118	TYPE "J" INLET - R-3455-C	783.03		18" RCP 776.10 (N) [D117]	207'	18"	1.00%	D119		1559188.77	215370.21
D119	TYPE "J" MH - R-3287-10V	778.45	18" RCP 774.03 (N) [D118]	24" RCP 773.53 (E) [D125]	120'	24"	1.00%	D125		1558982.18	215370.21
D120	TYPE "K" MH - R-3455-C	784.31	24" RCP 775.18 (N) [D111]	24" RCP 775.18 (SW) [D130]	129'	24"	1.00%	D130		1559433.04	214776.52
D121	TYPE "J" MH - R-3455-C	783.01	24" RCP 775.58 (N) [D201]	30" RCP 775.48 (S) [D122]	98'	30"	0.75%	D122		1559431.60	215531.35
D122	TYPE "J" MH - R-3455-C	783.01	30" RCP 774.74 (N) [D121]	30" RCP 774.64 (S) [D123]	144'	30"	0.75%	D123		1559333.20	215531.35
D123	TYPE "J" MH - R-3472	782.43	30" RCP 773.56 (N) [D122]	30" RCP 773.46 (SW) [D124]	90'	30"	0.75%	D124		1559188.90	215531.35
D124	TYPE "J" MH - R-3472	780.37	30" RCP 772.78 (NE) [D123]	30" RCP 772.68 (S) [D125]	127'	30"	0.75%	D125		1559108.85	215490.21
D125	TYPE "J" MH - R-3287-10V	778.46	30" RCP 771.73 (N) [D124] 12" RCP 772.64 (E) [D128] 24" RCP 772.33 (W) [D119]	36" RCP 771.63 (S) [D126]	127'	36"	0.50%	D126		1558982.18	215490.21
D126	FLARED END SECTION		36" RCP 771.00 (N) [D125]							1558855.68	215489.31
D127	TYPE "K" MH - R-3472	781.48	48" RCP 771.99 (NW) [D130]	48" RCP 771.99 (SE) [D109]	178'	48"	0.30%	D109		1559109.16	214843.50
D128	TYPE "A" INLET - R-3010	778.19		12" RCP 774.27 (W) [D125]	217'	12"	0.75%	D125		1558982.18	215707.54
D129	TYPE "K" MH - R-3455-C	786.06	42" RCP 773.77 (N) [D115]	42" RCP 773.77 (SE) [D130]	295'	42"	0.30%	D130		1559581.48	214489.98
D130	TYPE "K" MH - R-4342	780.33	24" RCP 773.88 (NE) [D120] 42" RCP 772.88 (NW) [D129]	48" RCP 772.88 (SE) [D127]	296'	48"	0.30%	D127		1559352.39	214675.38
D200	TYPE "C" MH - R-1772	786.40	18" RCP 777.10 (N) [D203] 12" RCP 779.00 (W) [D204]	24" RCP 777.00 (S) [D201]	40'	24"	0.82%	D201		1559604.23	215531.35
D201	TYPE "C" MH - R-3472	786.77	24" RCP 776.67 (N) [D200]	24" RCP 776.57 (S) [D121]	132'	24"	0.75%	D121		1559563.86	215531.35
D202	TYPE "J" INLET - R-3287-SB10	786.22	18" PVC ROOF DRAIN 777.30 (S) []	18" RCP 777.30 (N) [D356]	84'	18"	2.00%	D356		1560158.73	215289.85
D203	TYPE "C" MH - R-1772	784.09	18" PVC ROOF DRAIN 778.04 (W) []	18" RCP 778.04 (S) [D200]	129'	18"	0.73%	D200		1559733.23	215531.35
D204	TYPE "A" INLET - R-3472	786.62	12" RCP 779.57 (W) [D205]	12" RCP 779.57 (E) [D200]	57'	12"	1.00%	D200		1559604.23	215474.35
D205	TYPE "A" INLET - R-3472	786.58	12" RCP 780.42 (W) [D206]	12" RCP 780.42 (E) [D204]	85'	12"	1.00%	D204		1559604.23	215389.32
D206	TYPE "A" INLET - R-3472	786.61	12" RCP 781.42 (W) [D207]	12" RCP 781.42 (E) [D205]	100'	12"	1.00%	D205		1559604.23	215289.32
D207	TYPE "A" INLET - R-3472	786.61	12" RCP 782.42 (E) [D206]	100'	12"	1.00%	D206			1559604.23	215189.32
D300	TYPE "J" INLET - R-3455-C	784.16		18" RCP 778.58 (E) [D301]	96'	18"	1.00%	D301		1561114.89	214218.04
D301	TYPE "J" INLET - R-3455-C	782.42	18" RCP 777.62 (W) [D300]	24" RCP 777.60 (E) [D302]	182'	24"	0.30%	D302		1561114.89	214314.14
D302	TYPE "C" MH - R-3455-C	782.16	24" RCP 777.06 (W) [D301]	30" RCP 777.06 (E) [D303]	140'	30"	0.30%	D303		1561114.89	214496.64
D303	TYPE "C" MH - R-3455-C	782.16	30" RCP 776.64 (W) [D302]	30" RCP 776.64 (E) [D304]	140'	30"	0.30%	D304		1561114.89	214636.64
D304	TYPE "J" MH - R-3455-C	783.56	30" RCP 776.22 (W) [D303]	30" RCP 776.22 (E) [D305]	140'	30"	0.30%	D305		1561114.89	214776.64
D305	TYPE "J" MH - R-3455-C	782.16	30" RCP 775.80 (W) [D304]	36" RCP 775.80 (E) [D306]	115'	36"	0.30%	D306		1561114.89	214916.64
D306	TYPE "J" MH - R-3455-C	781.71	36" RCP 775.45 (W) [D305]	36" RCP 775.45 (E) [D307]	65'	36"	0.30%	D307		1561114.89	215031.64
D307	TYPE "J" MH - R-3455-C	781.71	36" RCP 775.26 (W) [D306]	36" RCP 775.26 (E) [D308]	108'	36"	0.30%	D308		1561114.89	215096.64
D308	TYPE "J" MH - R-3455-C	781.17	36" RCP 774.93 (W) [D307]	36" RCP 774.93 (E) [D309]	316'	36"	0.30%	D309		1561114.89	215204.14
D309	TYPE "J" MH - R-3455-C	780.25	36" RCP 773.99 (W) [D308]	36" RCP 773.99 (E) [D310]	162'	36"	0.30%	D310		1561114.89	215520.14
D310	FLARED END SECTION		36" RCP 773.50 (W) [D309]							1561114.89	215682.30
D312	TYPE "J" INLET - R-3455-C	783.92		18" RCP 777.89 (E) [D313]	75'	18"	0.30%	D313		1560893.87	214218.04
D313	TYPE "J" INLET - R-3455-C	782.83	18" RCP 777.67 (W) [D312]	24" RCP 777.67 (E) [D314]	204'	24"	0.30%	D314		1560902.93	214292.85

SANITARY SEWER STRUCTURE DATA TABLE											
STR. NO.	STRUCTURE/CASTING TYPE NOTE: NEENAH CASTINGS	T.O.R.	INCOMING PIPE DATA (DIRECTION) [FROM STR]	OUTGOING PIPE DATA (DIRECTION) [TO STR]	OUTGOING PIPE L.F.	OUTGOING PIPE SIZE	OUTGOING GRADE (%)	CONNECT TO STRUCTURE	REMARKS	NORTHING	EASTING
S100	48" SAN MH	781.69		8" PVC SDR 26 LAT 770.18 (E) []	221'	8"	0.42%			1560110.86	215644.86
S101	6" SAN CO	781.72	6" PVC SDR 26 LAT 771.53 (SW) [S102]	6" PVC SDR 26 LAT 771.53 (NE) []	100'	6"	1.04%			1560040.85	215581.05
S102	6" SAN CO	782.13	6" PVC SDR 26 LAT 772.34 (W) [S103]	6" PVC SDR 26 LAT 772.34 (NE) [S101]	79'	6"	1.04%	S101		1559985.27	215525.47
S103	6" SAN CO	783.40	6" PVC SDR 26 LAT 773.39 (W) []	6" PVC SDR 26 LAT 773.39 (E) [S102]	101'	6"	1.04%	S102		1559985.62	215424.47

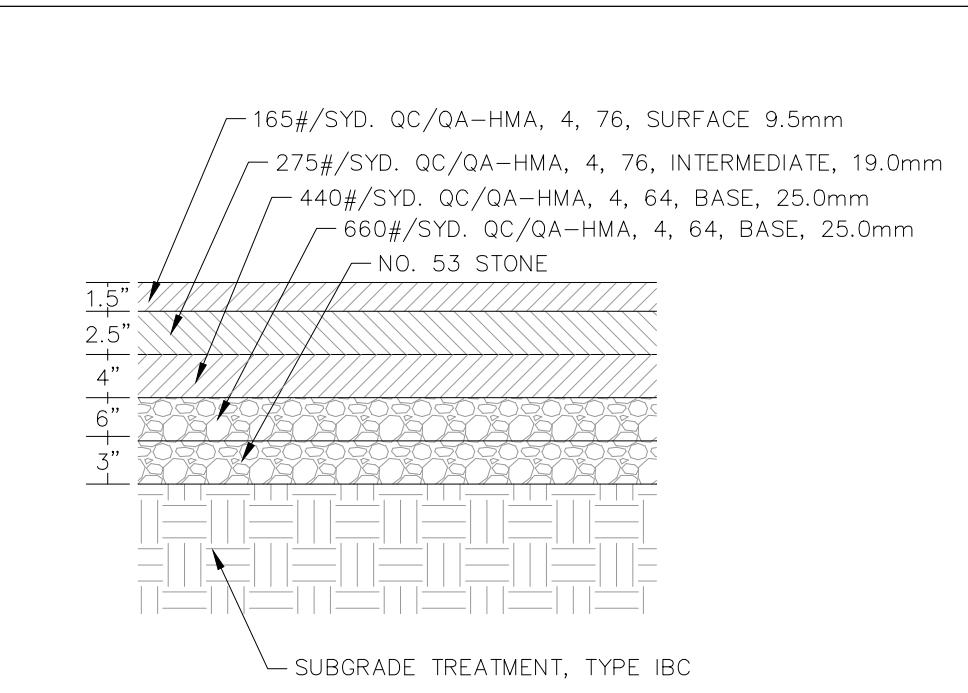
STORM SEWER STRUCTURE DATA TABLE											
NOTE: DEBRIS GUARD REQUIRED ON ALL END SECTIONS ALL CASTINGS SHALL BE LABELED "DUMP NO WASTE--DRAINS TO WATERWAY"											
STR. NO.	STRUCTURE/CASTING TYPE NOTE: NEENAH CASTINGS	T.O.R.	INCOMING PIPE DATA (DIRECTION) [FROM STR]	OUTGOING PIPE DATA (DIRECTION) [TO STR]	OUTGOING PIPE L.F.	OUTGOING PIPE SIZE	OUTGOING GRADE (%)	CONNECT TO STRUCTURE	REMARKS	NORTHING	EASTING
D314	TYPE "J" INLET - R-3455-C	781.63	24" RCP 777.06 (W) [D313]	24" RCP 777.06 (E) [D315]	140'	24"	0.30%	D315		1560902.89	214496.64
D315	TYPE "J" MH - R-3455-C	782.20	24" RCP 776.64 (W) [D314]	30" RCP 776.64 (E) [D316]	140'	30"	0.30%	D316		1560902.89	214636.64
D316	TYPE "J" MH - R-3455-C	784.29	30" RCP 776.22 (W) [D315]	30" RCP 776.22 (E) [D317]	140'	30"	0.30%	D317		1560902.89	214776.64
D317	TYPE "J" MH - R-3455-C	782.89	30" RCP 775.80 (W) [D316]	30" RCP 775.80 (E) [D318]	115'	30"	0.30%	D318		1560902.89	214916.64
D318	TYPE "J" MH - R-3455-C	781.99	30" RCP 775.45 (W) [D317]	30" RCP 775.45 (E) [D319]	65'	30"	0.30%	D319		1560902.89	215031.64
D319	TYPE "J" MH - R-3455-C	781.97	30" RCP 775.26 (W) [D318]	36" RCP 775.26 (E) [D320]	108'	36"	0.30%	D320		1560902.89	215096.64
D320	TYPE "J" MH - R-3455-C	780.90	36" RCP 774.93 (W) [D319]	36" RCP 774.93 (E) [D321]	316'	36"	0.30%	D321		1560902.89	215204.14
D321	TYPE "J" MH - R-3455-C	780.50	36" RCP 773.99 (W) [D320]	36" RCP 773.99 (E) [D322]	162'	36"	0.30%	D322		1560902.89	215520.14
D322	FLARED END SECTION		36" RCP 773.50 (W) [D321]							1560902.89	215682.30
D324	TYPE "J" INLET - R-3455-C	783.17		18" RCP 778.58 (E) [D325]	96'	18"	0.50%	D325		1560690.89	214218.04
D325	TYPE "J" INLET - R-3455-C	782.70	18" RCP 778.10 (W) [D324]	24" RCP 777.60 (E) [D326]	182'	24"	0.30%	D326		1560690.89	214314.14
D326	TYPE "J" MH - R-3455-C	782.42	24" RCP 777.06 (W) [D325]	30" RCP 777.06 (E) [D327]	140'	30"	0.30%	D327		1560690.89	214496.64
D327	TYPE "J" MH - R-3455-C	782.41	30" RCP 776.64 (W) [D326]	30" RCP 776.64 (E) [D328]	175'	30"	0.30%	D328		1560690.89	214636.64
D328	TYPE "J" MH - R-3455-C	784.01	30" RCP 776.11 (W) [D327]	36" RCP 776.11 (E) [D329]	105'	36"	0.30%	D329		1560690.89	214811.64
D329	TYPE "J" MH - R-3455-C	782.41	36" RCP 775.80 (W) [D328]	36" RCP 775.80 (E) [D330]	115'	36"	0.30%	D330		1560690.89	214916.64
D330	TYPE "J" MH - R-3455-C	781.96	36" RCP 775.45 (W) [D329]	36" RCP 775.45 (E) [D331]	65'	36"	0.30%	D331		1560690.89	215031.64
D331	TYPE "J" MH - R-3455-C	781.96	36" RCP 775.26 (W) [D330]	36" RCP 775.26 (E) [D332]	108'	36"	0.30%	D332		1560690.89	215096.64
D332	TYPE "K" MH - R-3455-C	781.43	36" RCP 774.93 (W) [D331]	42" RCP 774.93 (E) [D333]	316'	42"	0.30%	D333		1560690.89	215204.14
D333	TYPE "K" MH - R-3455-C	781.05	42" RCP 773.99 (W) [D332]	42" RCP 773.99 (E) [D334]	162'	42"	0.30%	D334		1560690.89	215520.14
D334	FLARED END SECTION		42" RCP 773.50 (W) [D333]							1560690.89	215682.30
D336	TYPE "J" INLET - R-3455-C	782.65		18" RCP 777.88 (E) [D337]	183'	18"	0.50%	D337		1560493.89	214313.82

This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND\DEV\170509000_Cooper&Associates_Plan_1\170509000_V2_Site_Improvements\170509000-CONSTRUCTION_DETAILS.dwg 2700 Oct 10, 2024 11:40am by AnthonyMagnifico



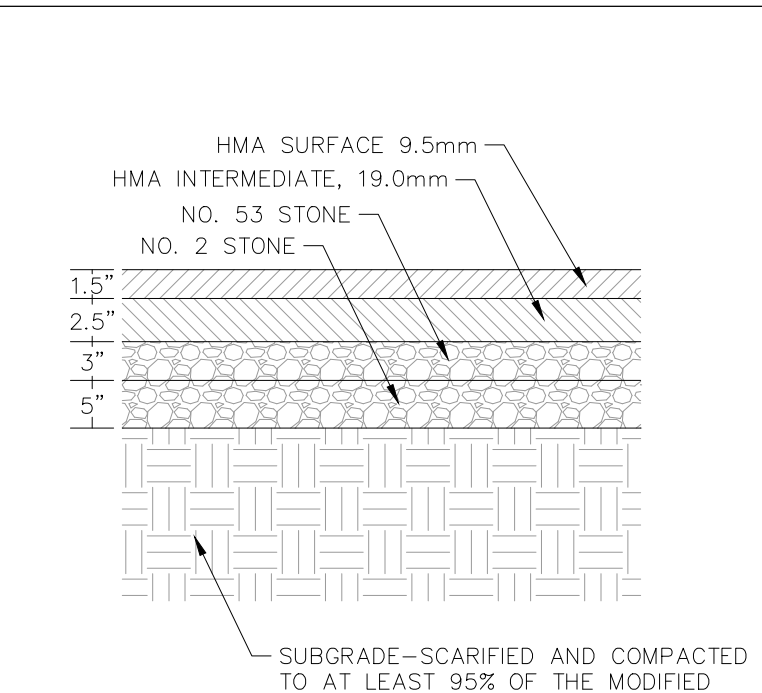
- SUBGRADE—SCARIFIED AND COMPACTED TO AT LEAST 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY
- NOTES:
1. ALL SIDEWALK SHALL BE CONSTRUCTED WITH CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,500 PSI AT 14 DAYS.
 2. PROVIDE 1/2" EXPANSION JOINTS AT 20", MAXIMUM, SPACING AND FILLED WITH PREMOLDED BITUMINOUS EXPANSION JOINT FILLER MATERIAL OR REDWOOD. EXPANSION JOINTS SHALL HAVE #4 DOWELS, LUBRICATED, 18" LONG, AT 12" CENTERS, 6" FROM EDGE.
 3. PROVIDE 3/8" GROOVED CONTROL JOINTS AT 5' CENTERS.
 4. PROVIDE 1/2" BITUMINOUS EXPANSION JOINT FILLER MATERIAL WHERE WALK ABUTS EXISTING IMPROVEMENTS AND AT ALL CHANGES IN GRADE.
 5. USE 2-#4 REINFORCING BARS, 10" LONG OVER ALL UTILITY TRENCHES FOR NEW SIDEWALK AND CONNECTIONS TO EXISTING SIDEWALK.
 6. AT DRIVE APPROACHES, SIDEWALK PCC AND BASE THICKNESS SHALL MATCH THAT OF THE DRIVE.

CONCRETE SIDEWALK
N.T.S.



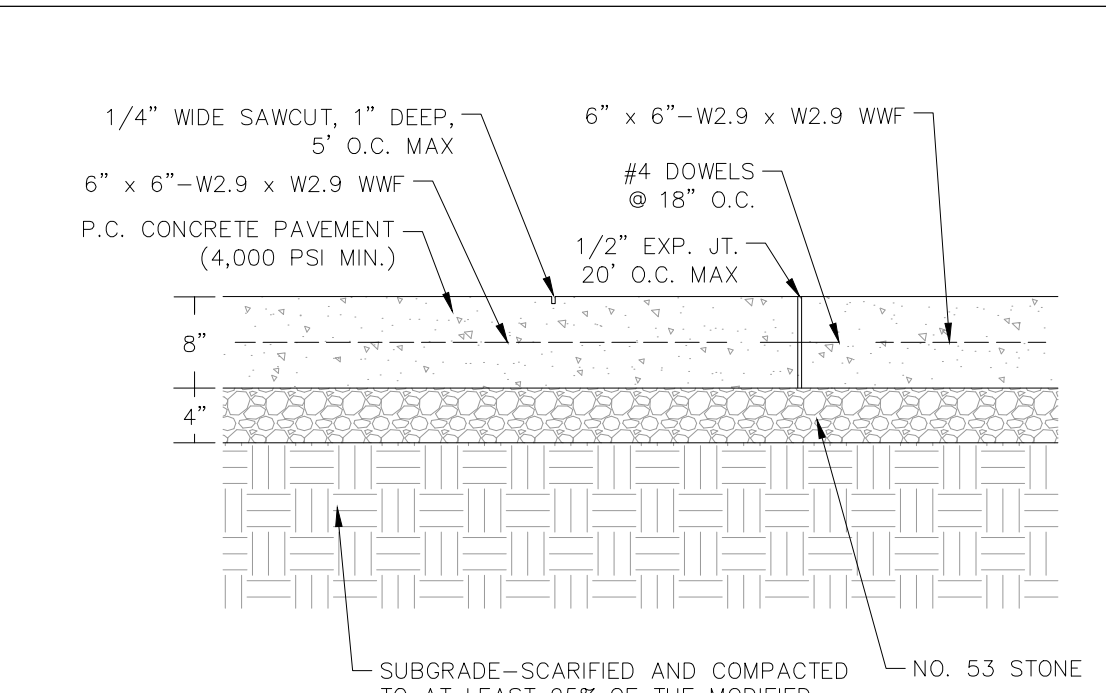
- NOTE:
1. CURRENT INDOT SPECIFICATIONS, CONTRACTOR TO ENSURE COMPLIANCE WITH GEOTECHNICAL ENGINEERING RECOMMENDATIONS

RIGHT OF WAY ASPHALT PAVEMENT SECTION
N.T.S.



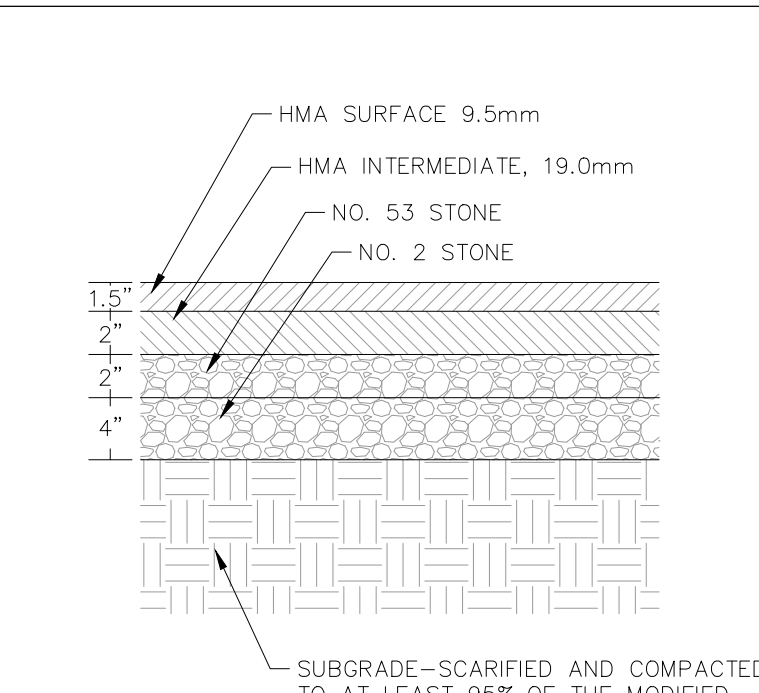
- NOTE:
1. CURRENT INDOT SPECIFICATIONS, CONTRACTOR TO ENSURE COMPLIANCE WITH GEOTECHNICAL ENGINEERING RECOMMENDATIONS

HEAVY DUTY ASPHALT PAVEMENT SECTION
N.T.S.



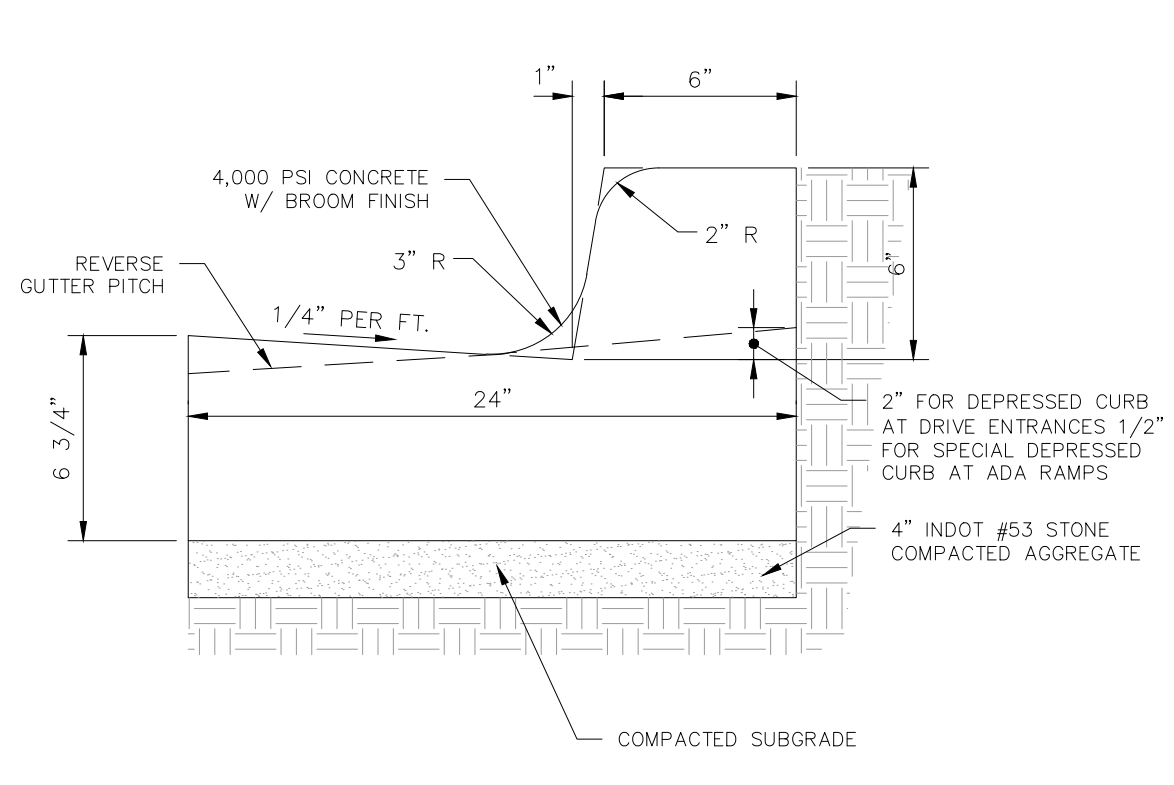
- NOTE:
1. CURRENT INDOT SPECIFICATIONS, CONTRACTOR TO ENSURE COMPLIANCE WITH GEOTECHNICAL ENGINEERING RECOMMENDATIONS

HEAVY DUTY CONCRETE PAVEMENT SECTION
N.T.S.

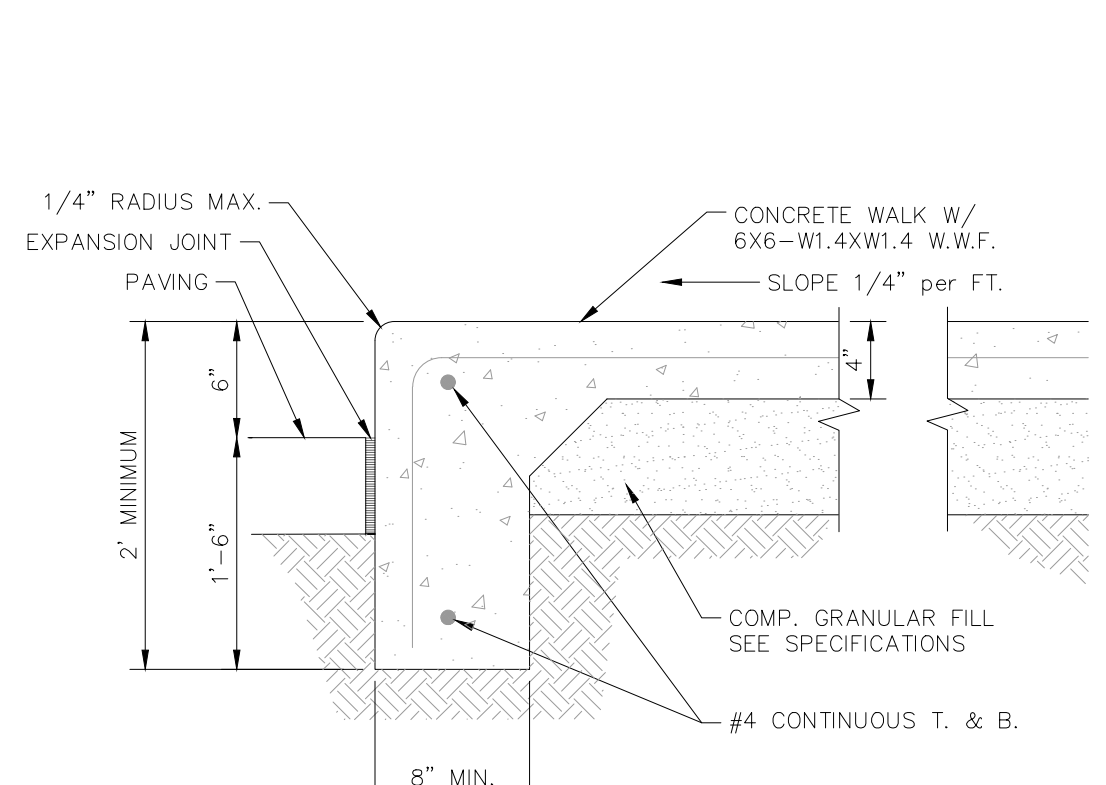


- NOTE:
1. CURRENT INDOT SPECIFICATIONS, CONTRACTOR TO ENSURE COMPLIANCE WITH GEOTECHNICAL ENGINEERING RECOMMENDATIONS

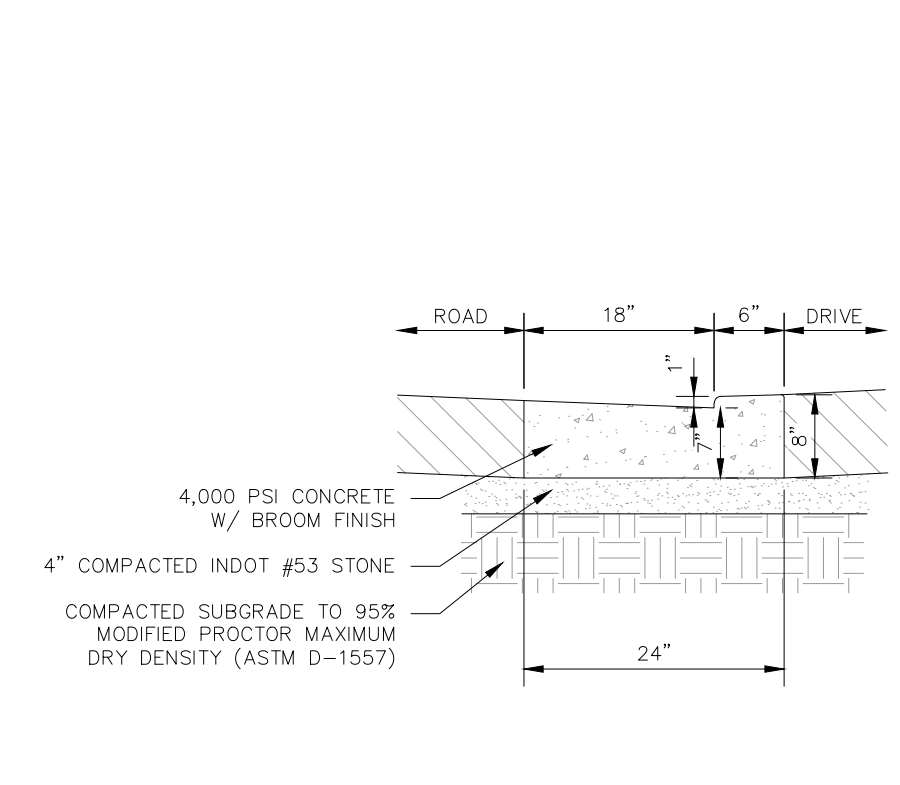
STANDARD DUTY ASPHALT PAVEMENT SECTION
N.T.S.



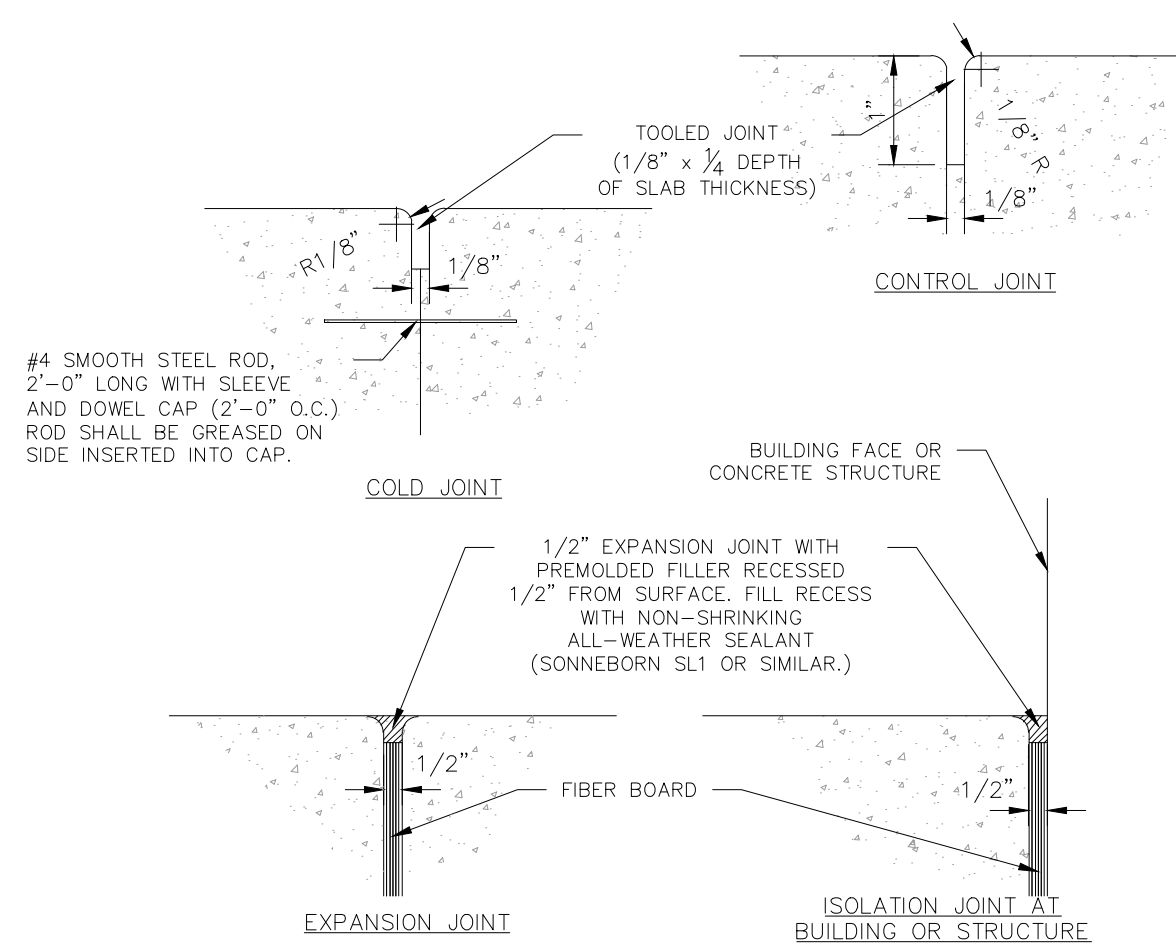
CONCRETE CURB & GUTTER
N.T.S.



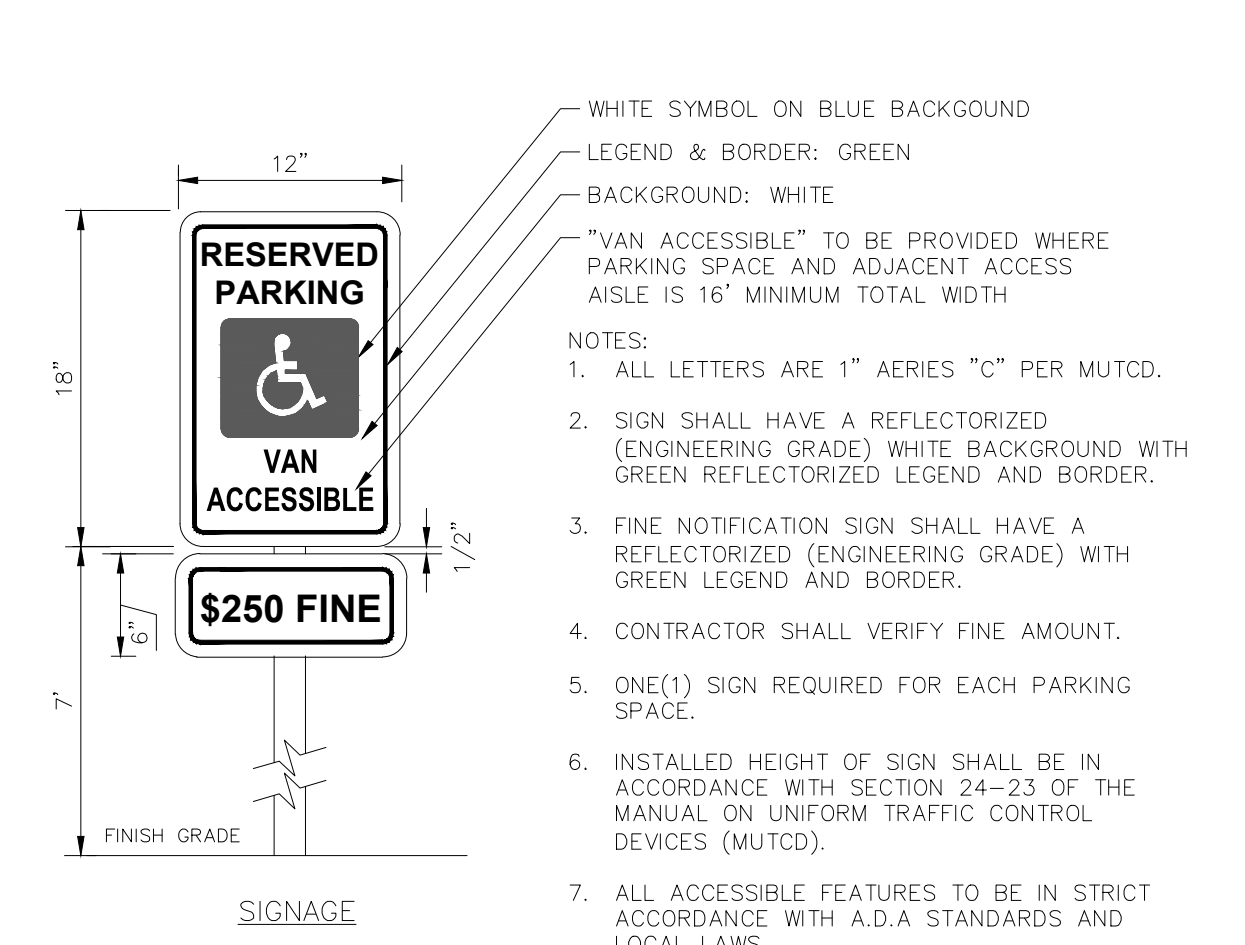
COMBINED CURB AND WALK DETAIL
N.T.S.



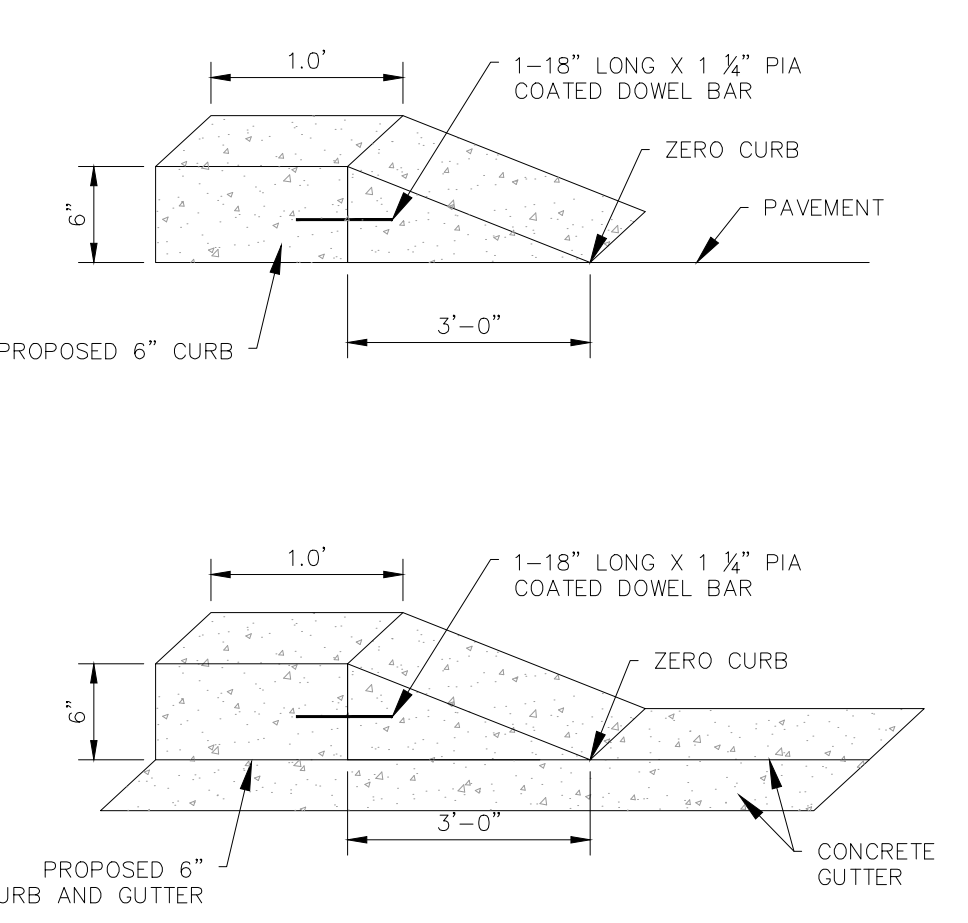
DEPRESSED CONCRETE CURB & GUTTER
N.T.S.



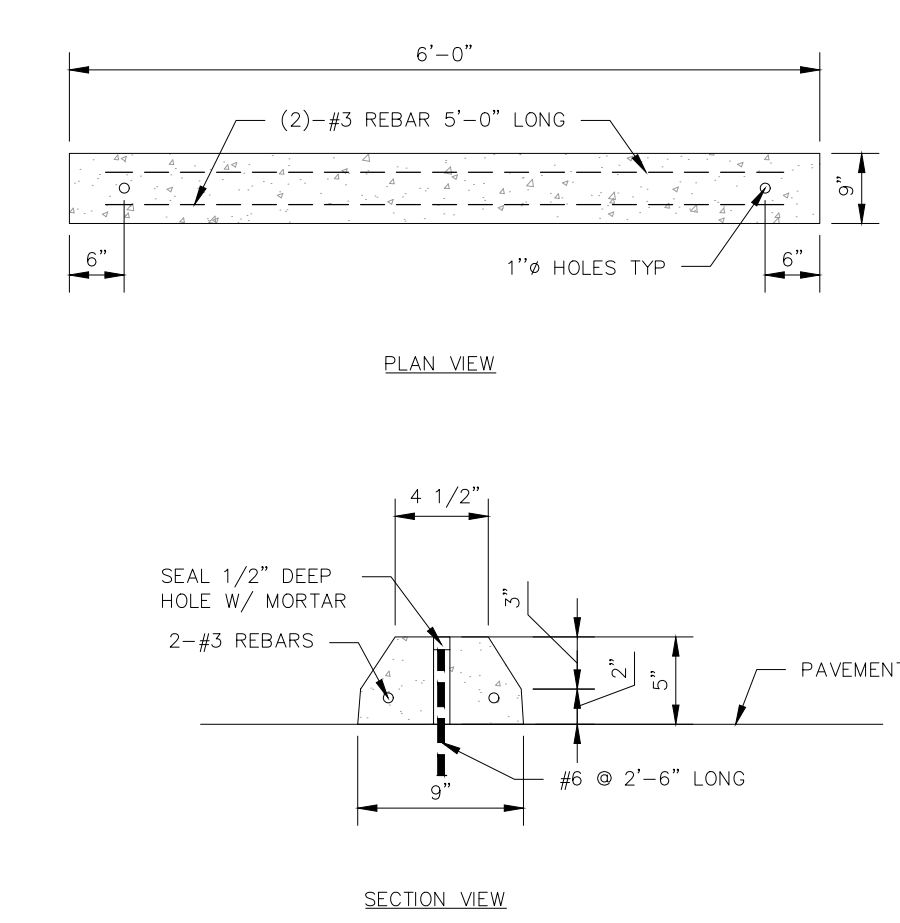
TYPICAL CONCRETE JOINT DETAILS
N.T.S.



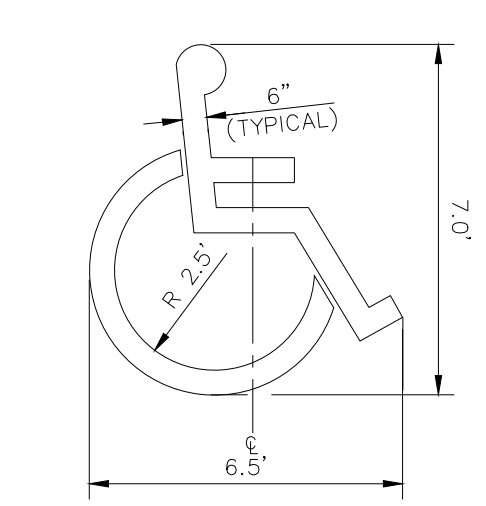
ACCESSIBLE PARKING SIGNAGE
N.T.S.



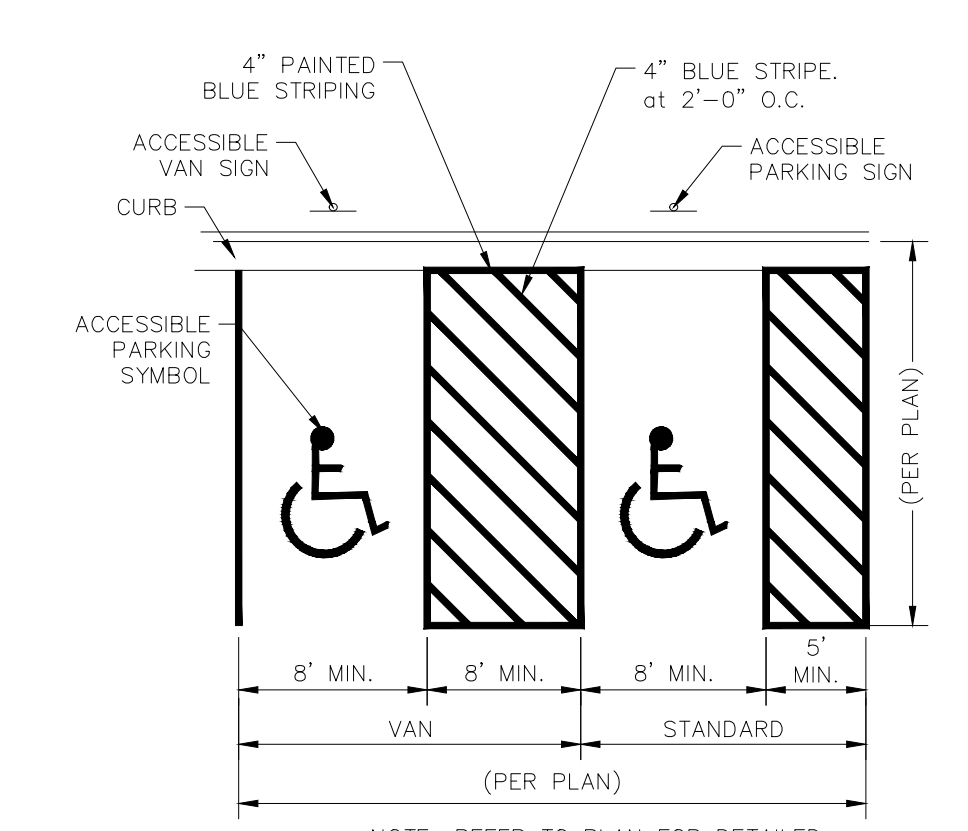
3FT TRANSITION CURB
N.T.S.



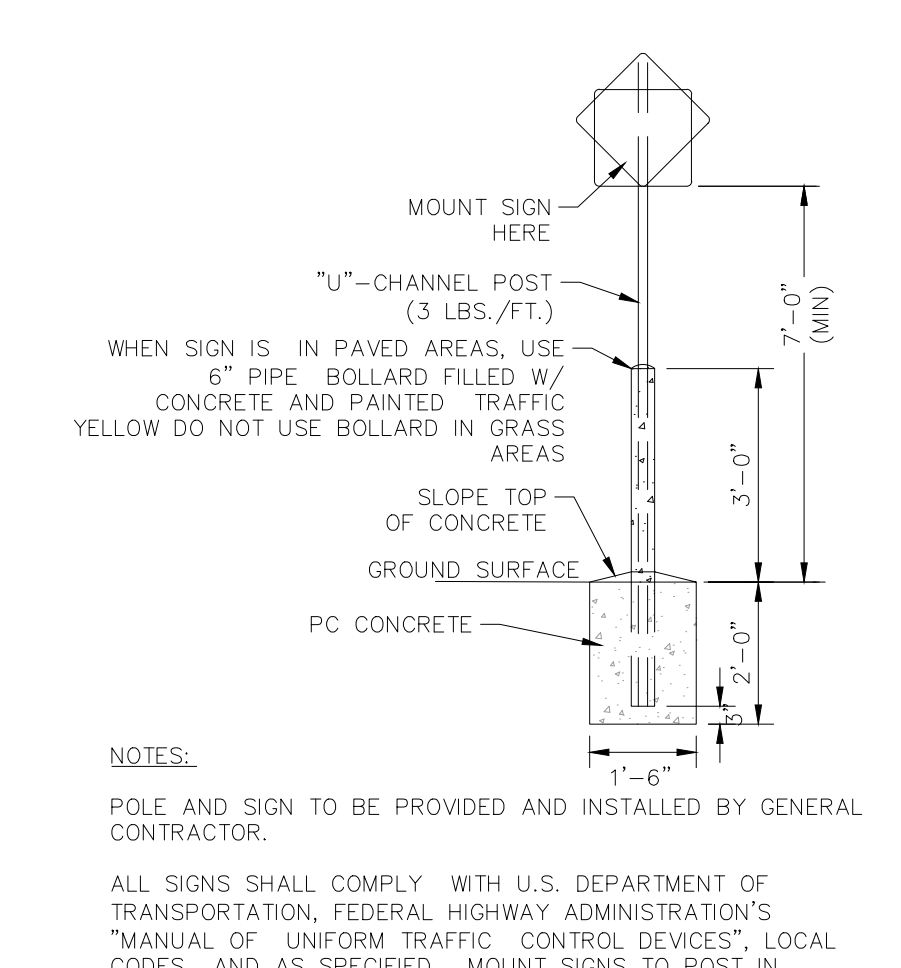
CONCRETE PARKING BUMPER
N.T.S.



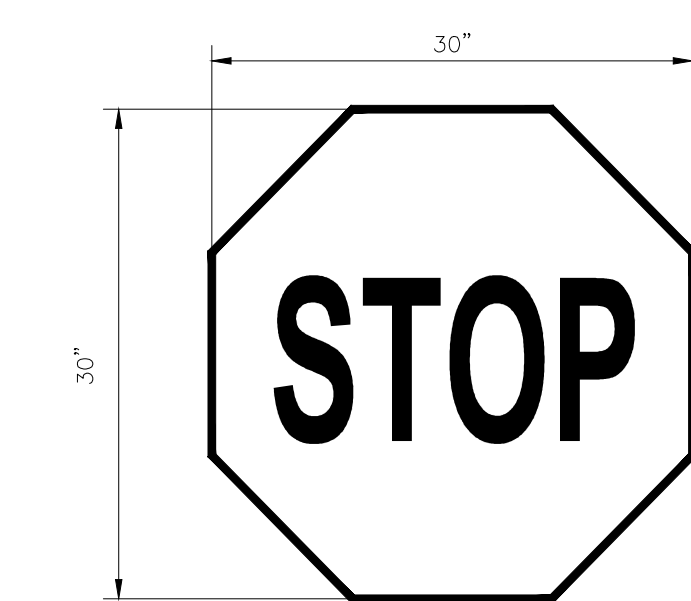
ACCESSIBLE PARKING SYMBOL
N.T.S.



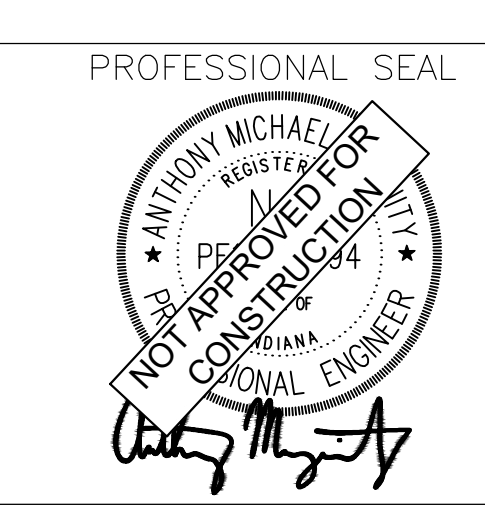
ACCESSIBLE PAVEMENT MARKINGS
N.T.S.



STANDARD SIGN BASE
N.T.S.



STOP SIGN
N.T.S.



NOTICE
THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.
DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

SCALE: AS NOTED
DRWN.: VG
CHKD.: AMM
APPD.:
APPD.:
DATE : 10/10/24

Quad Plus
Cooper & Associates, LLC
Engineers - Project Managers
2200 Ellis Road, New Lenox, Illinois, 60451
Ph. (844) 251-7823 www.quadplus.com

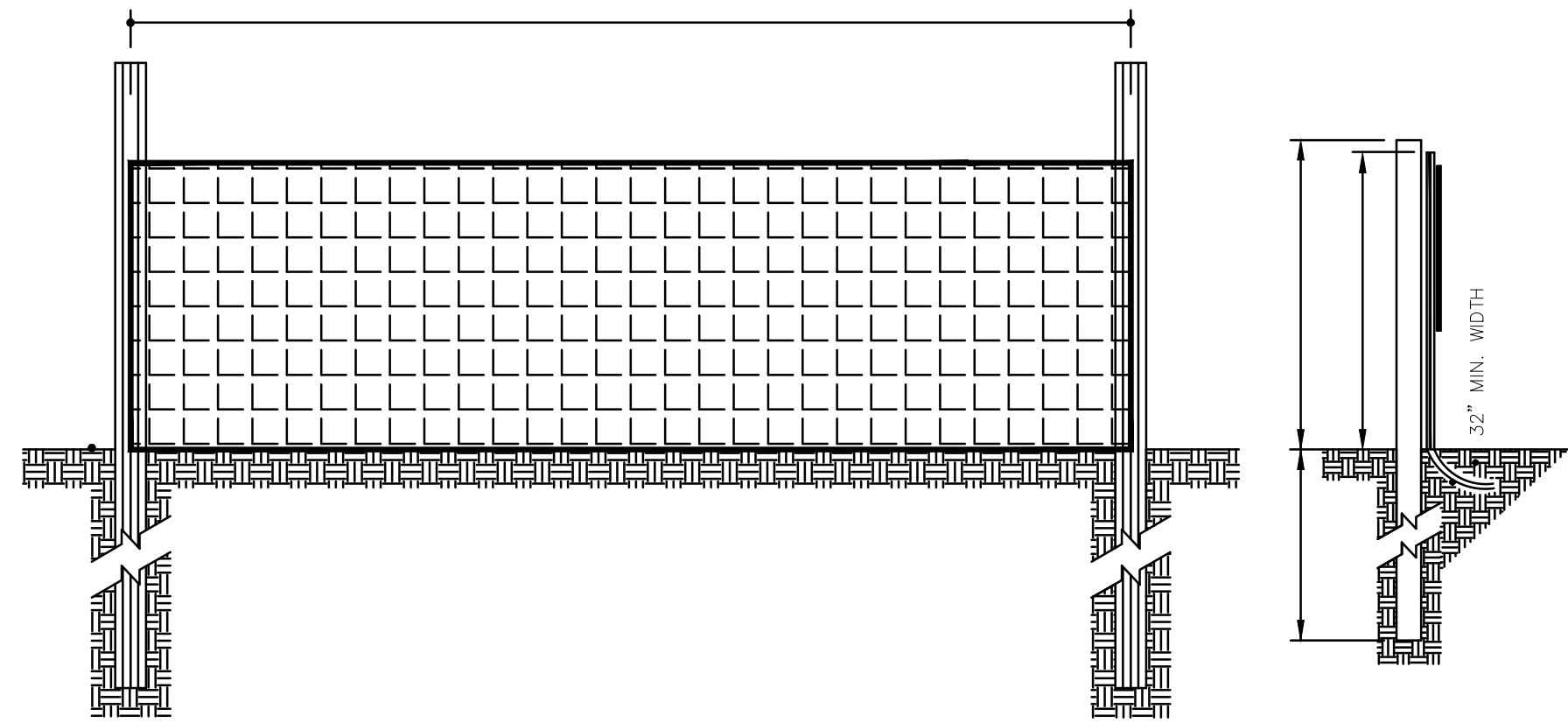
Kimley»Horn
©2024 KIMLEY-HORN AND ASSOCIATES, INC.
500 EAST 96TH STREET, SUITE 300,
INDIANAPOLIS, IN 46240
PHONE: 317-218-9560
WWW.KIMLEY-HORN.COM
KHA PROJECT # 170509000

Malarkey Roofing Products

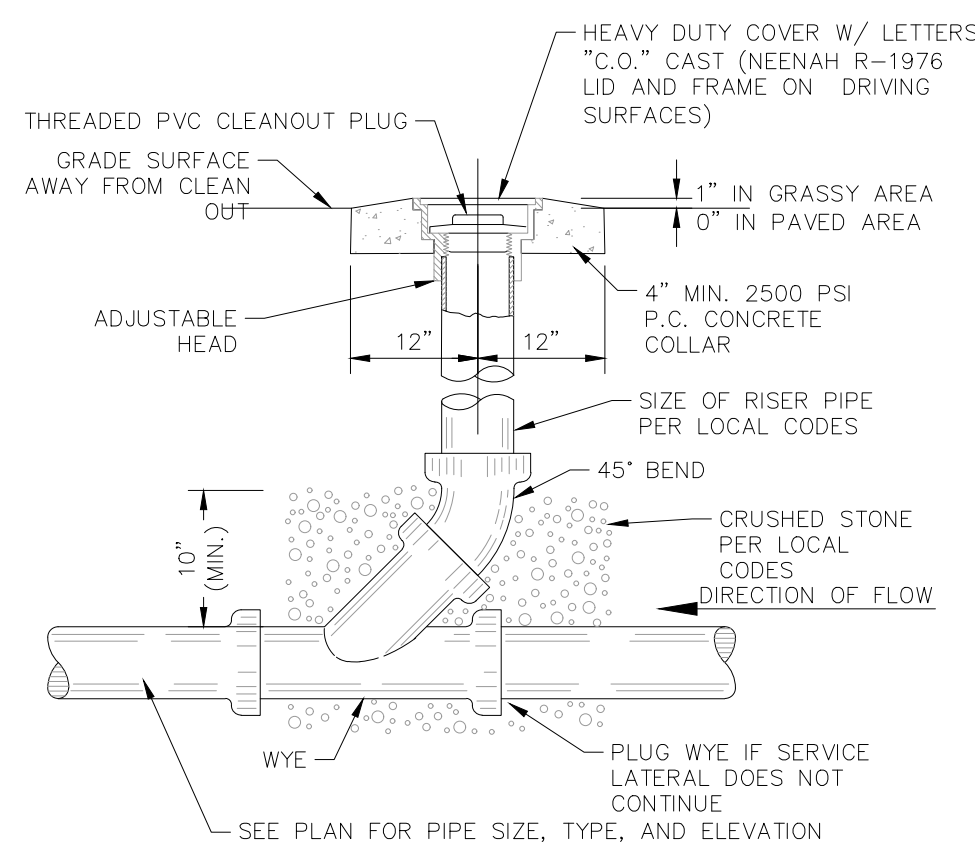
MALARKEY,IND FRANKLIN,IN

PROJ. NO. 170509000
DWG. NO. 2700
SHEET 0
REV 0

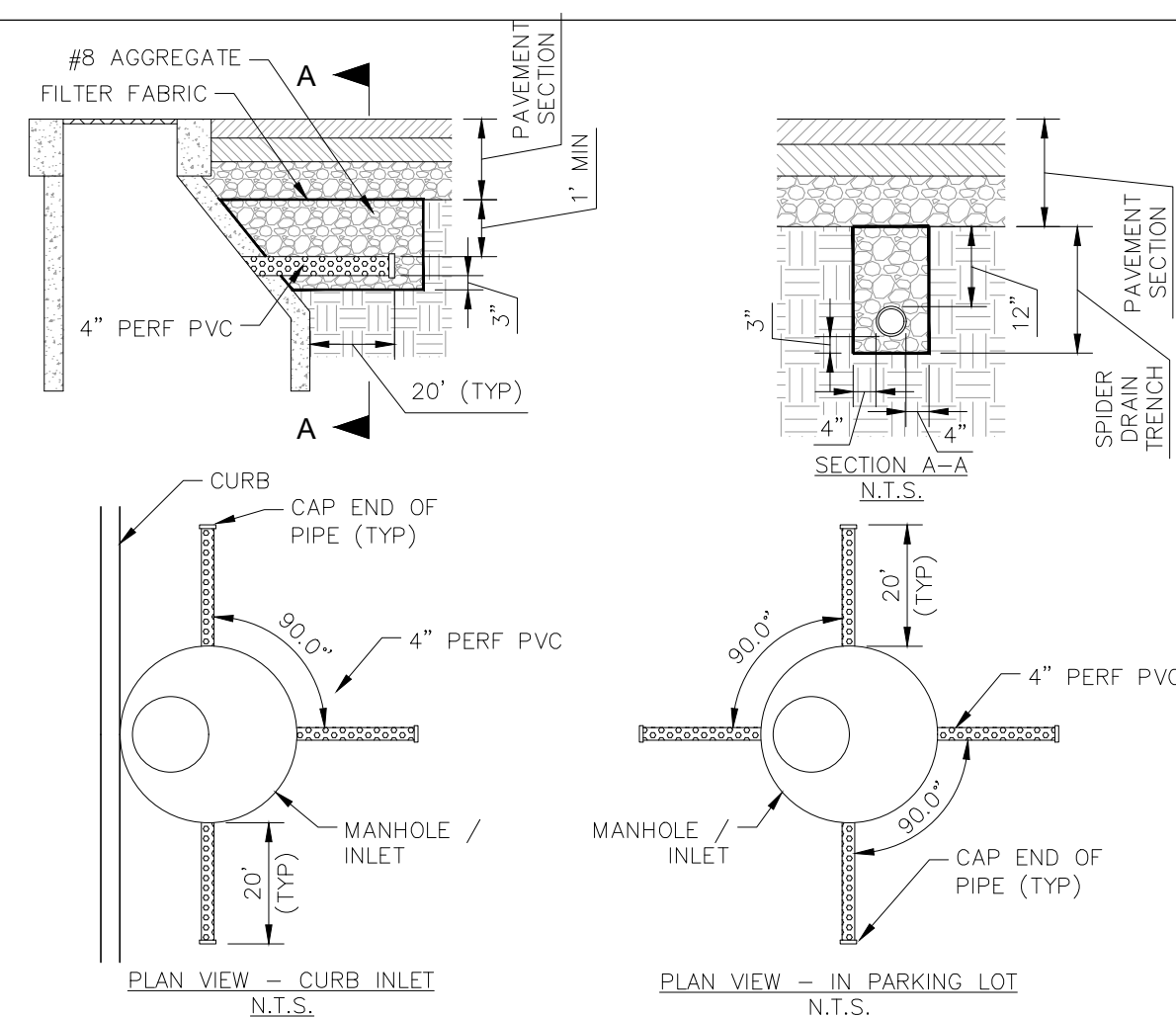
TITLE- PHASE 2 - FINAL BUILDOUT CONSTRUCTION DETAILS



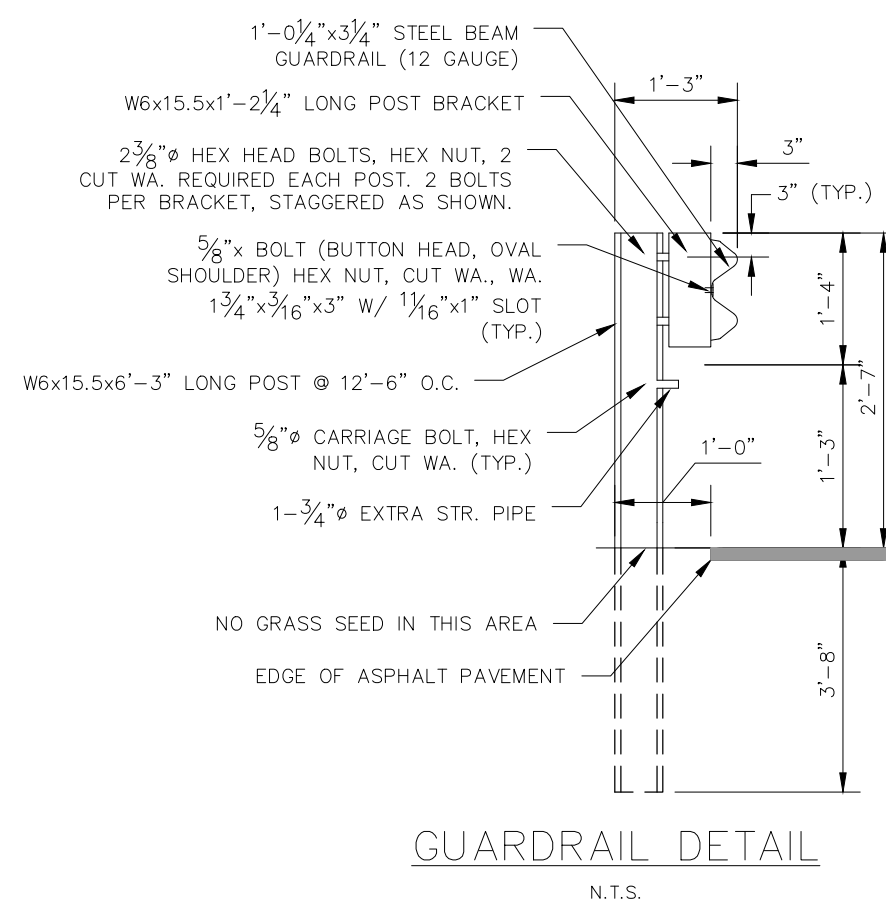
SNOW FENCE
N.T.S.



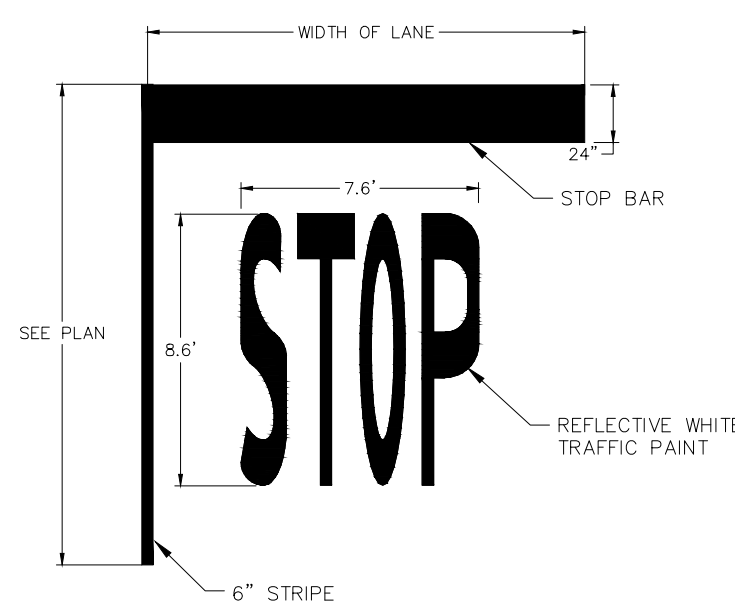
SANITARY/STORM CLEAN-OUT
N.T.S.



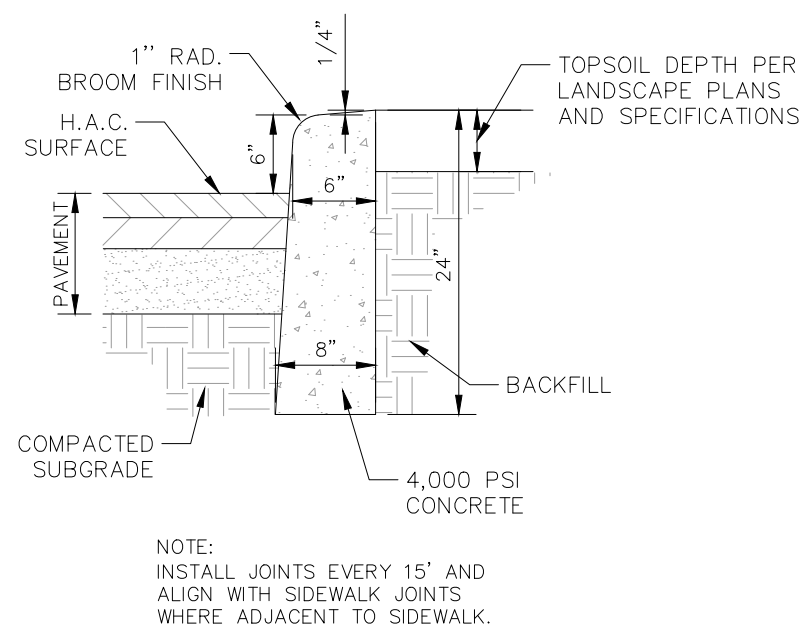
SPIDER DRAIN DETAIL
N.T.S.



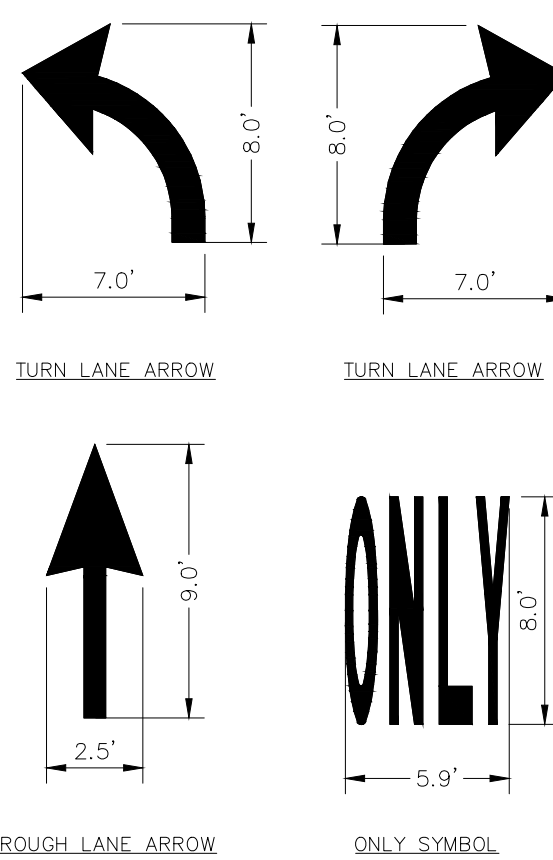
GUARDRAIL DETAIL
N.T.S.



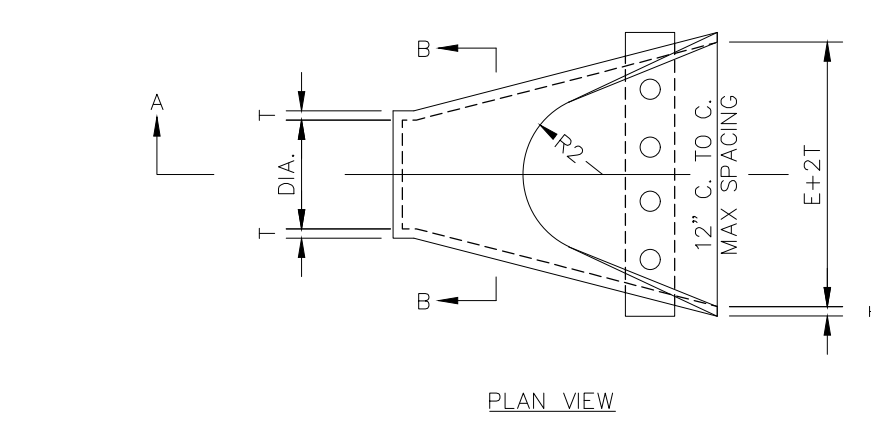
24' WIDE STOP BAR
N.T.S.



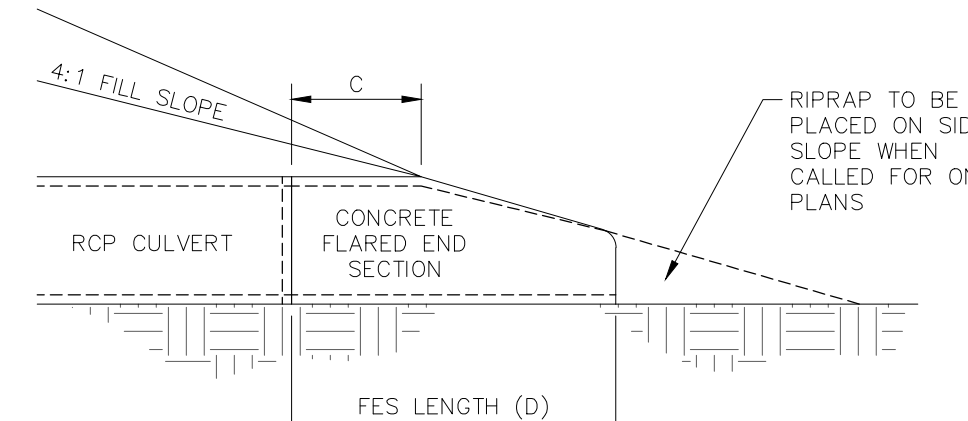
CONCRETE CURB
N.T.S.



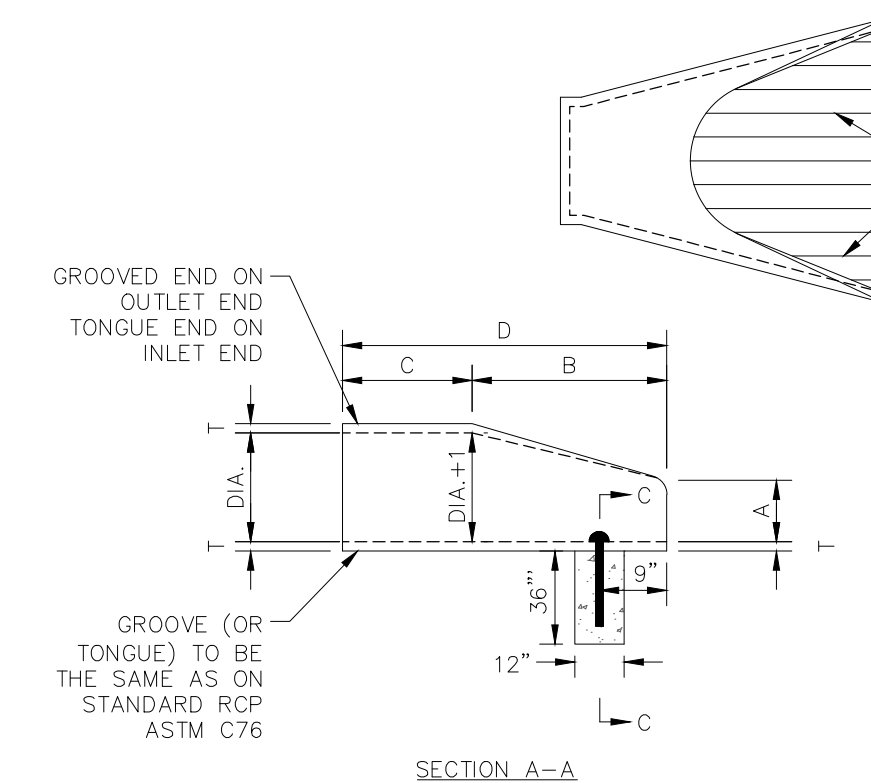
TRAFFIC FLOW MARKINGS
N.T.S.



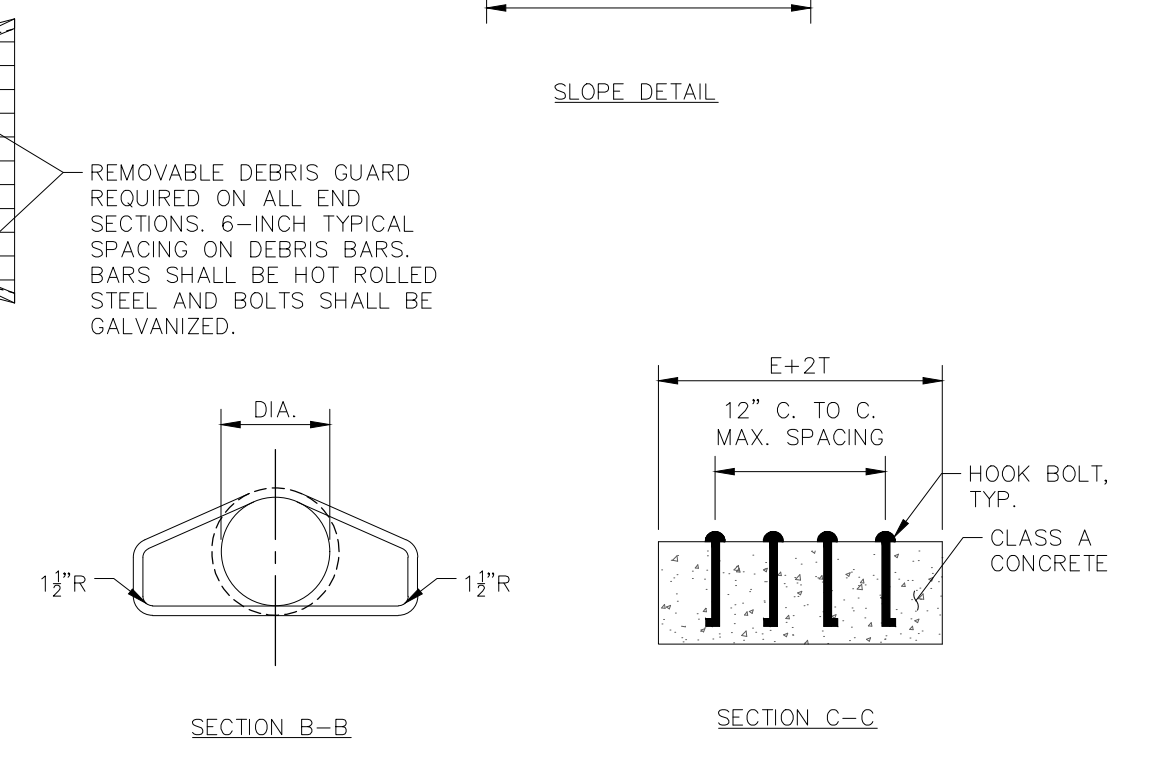
PLAN VIEW



SLOPE DETAIL



SECTION A-A



SECTION B-B

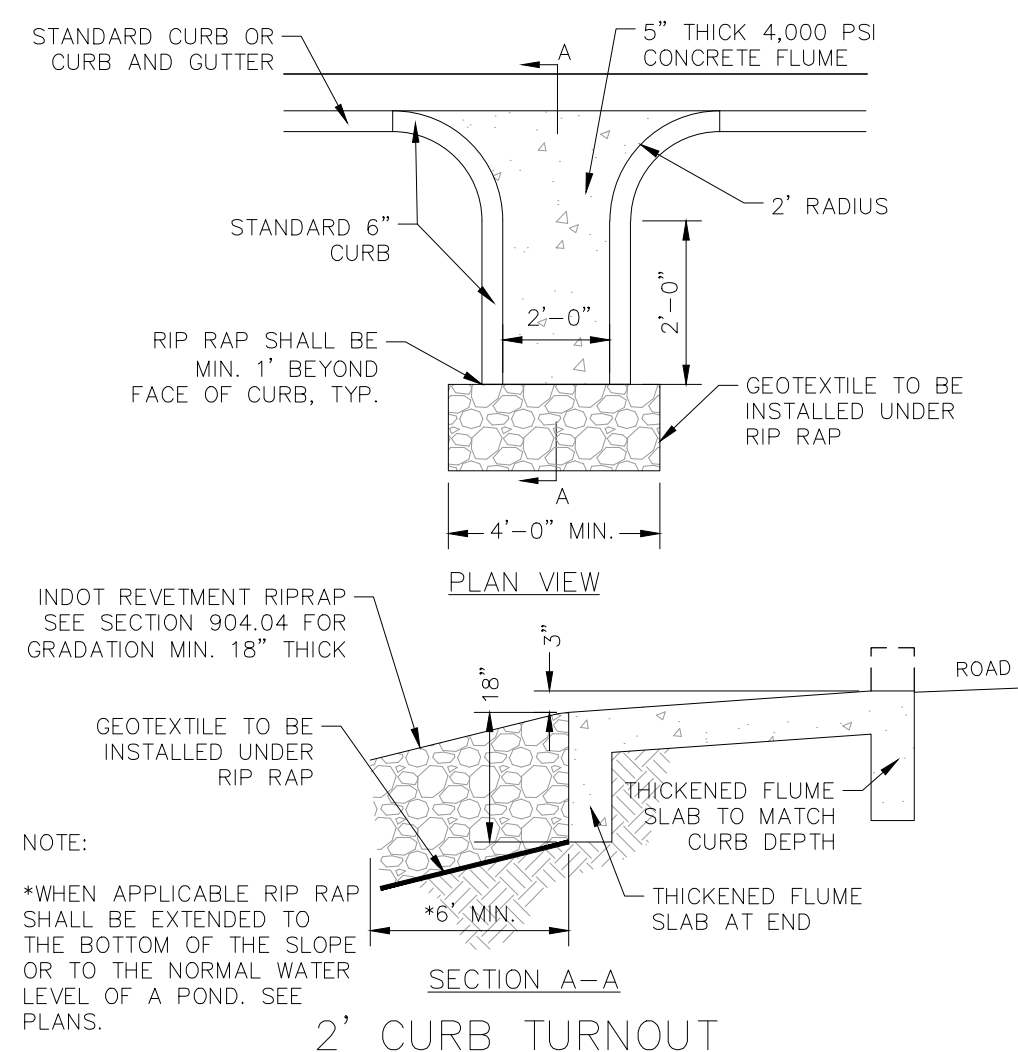
SECTION C-C

- NOTES:
- CONCRETE AND REINFORCEMENT IN THE PRECAST FES SHALL BE THE SAME GRADE AND STRENGTH AS LISTED IN ASTM C76.
 - THE END OF THE PIPE CULVERT SHALL BE PLACED IN THE FES SO THAT THE FLOW LINES ARE FLUSH. THE JOINT SHALL BE COMPLETELY FILLED WITH MORTAR.
 - IN 3:1 OR 4:1 FILL SLOPE, CHANGE THE SLOPE OF THE FES TO PROVIDE A SMOOTH TRANSITION APPROXIMATELY 10' IN LENGTH.
 - THE FES AND PIPE CULVERT DIMENSIONS SHALL MEET ASTM C76.
 - CONCRETE KEY-IN TOES SHALL BE REQUIRED ON ALL FES.

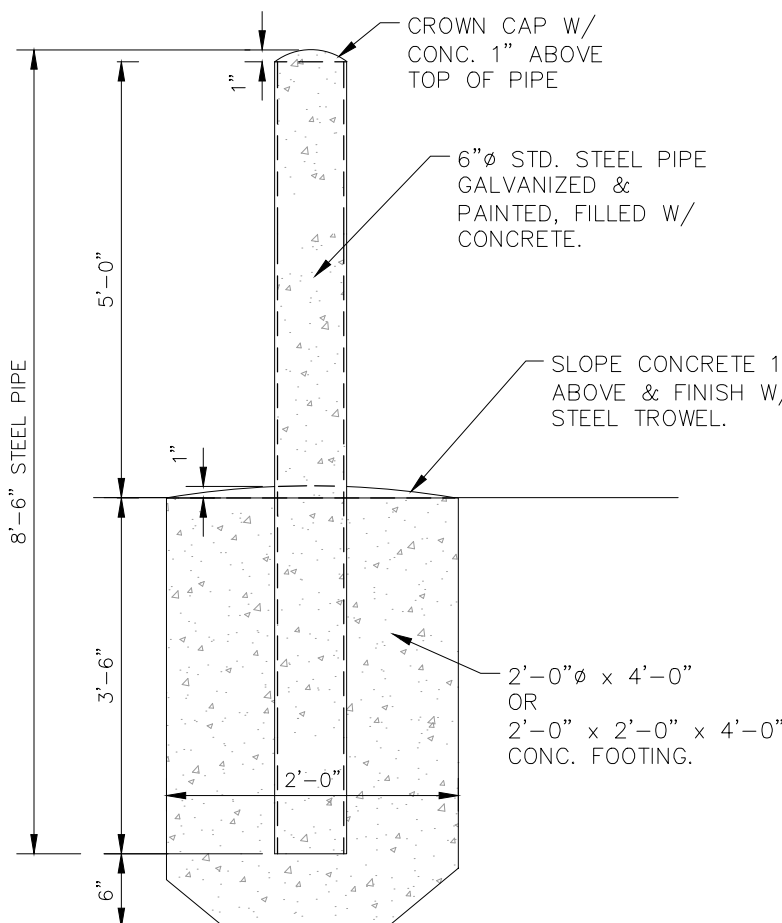
DIA.	T (MIN)	A*	C*	D*	E*	K	R1	R2	WEIGHT (LB)
12"	2"	5"	4'-3"	6'-2"	2'-0"	1.3	10"	9"	800
15"	2 1/2"	7"	4'-0"	6'-3"	2'-6"	1.5	12"	11"	1100
18"	3"	11"	4'-1"	6'-2"	3'-0"	1.8	15"	12"	1300
21"	3 1/2"	11"	3'-6"	6'-3"	3'-6"	2.1	16"	13"	1500
24"	3"	12"	2'-8"	6'-3"	4'-0"	2.3	16 1/2"	14"	1800
27"	3 1/2"	13"	2'-5"	6'-3"	4'-6"	2.6	18 1/2"	14 1/2"	2100
30"	3 3/4"	14"	1'-10"	6'-3"	5'-0"	2.9	18 3/4"	15"	2400
33"	3 3/4"	15"	3'-6"	8'-3"	5'-6"	3.1	23 1/2"	17 1/2"	4100
36"	4"	17"	3'-1"	8'-3"	6'-0"	3.4	24 1/2"	20"	4200

* 1" TOLERANCE

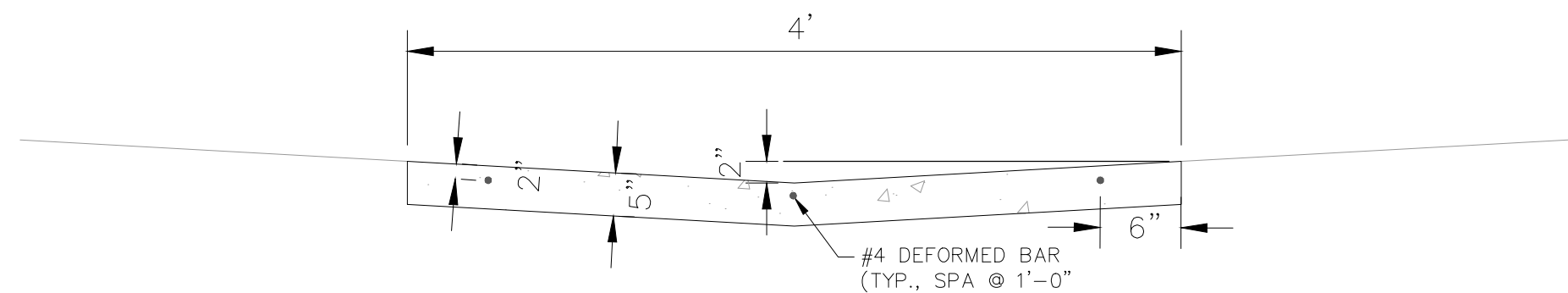
END SECTION AND KEY-IN DETAIL
N.T.S.



2' CURB TURNOUT
N.T.S.



CONCRETE BOLLARD DETAIL
N.T.S.



CONCRETE CHANNEL DETAIL
N.T.S.

PROFESSIONAL SEAL



NOTICE
THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC

AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.

DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

SCALE: AS NOTED
DRWN.: VG
CHKD.: AMM
APPD.:
APPD.:
DATE : 10/10/24



Engineers - Project Managers
2200 Ellis Road, New Lenox, Illinois, 60451
Ph. (844) 251-7823 www.quadplus.com

Kimley»Horn

©2024 KIMLEY-HORN AND ASSOCIATES, INC.
500 EAST 96TH STREET, SUITE 300,
INDIANAPOLIS, IN 46240
PHONE: 317-218-9560
WWW.KIMLEY-HORN.COM
KHA PROJECT # 170509000

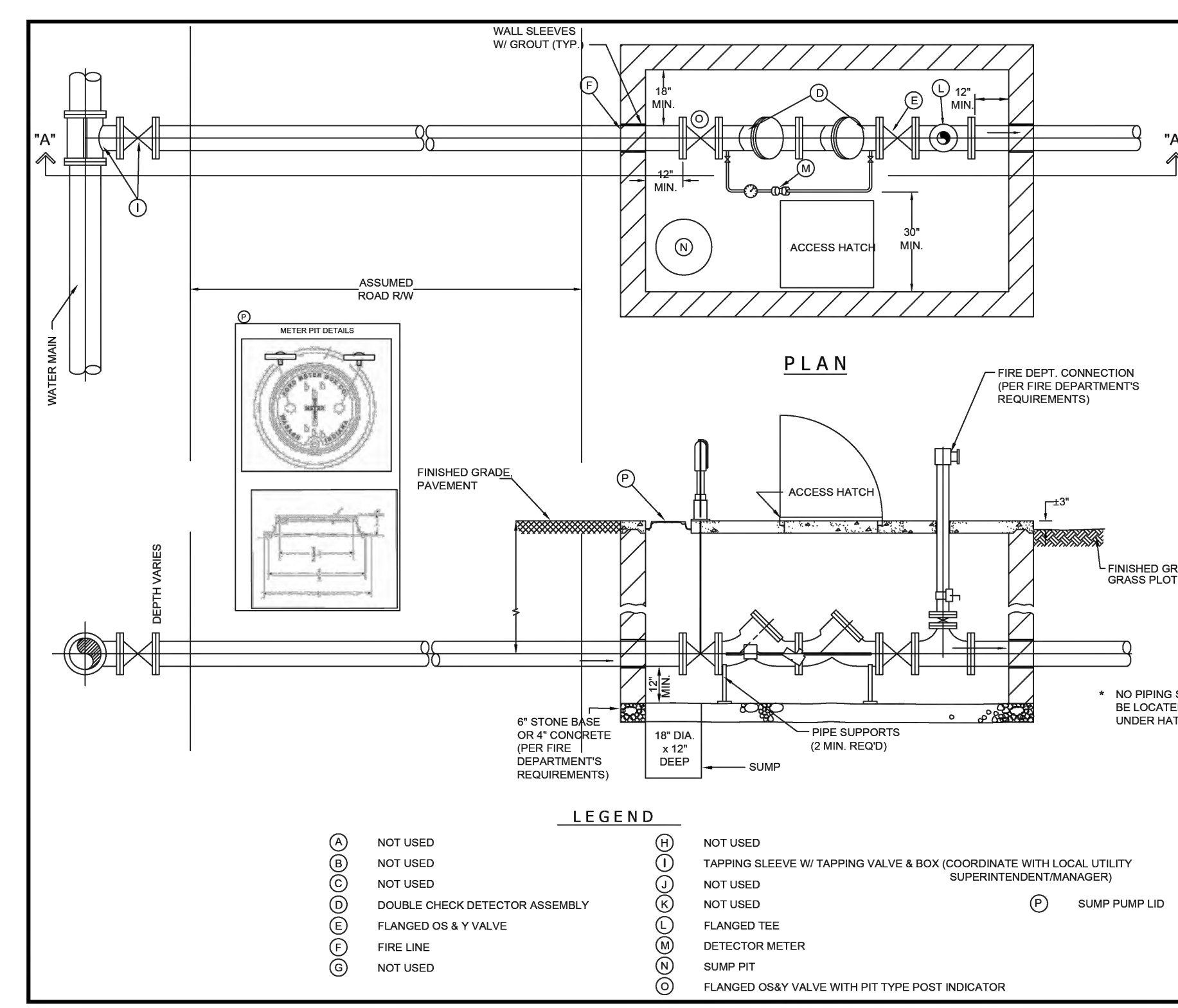
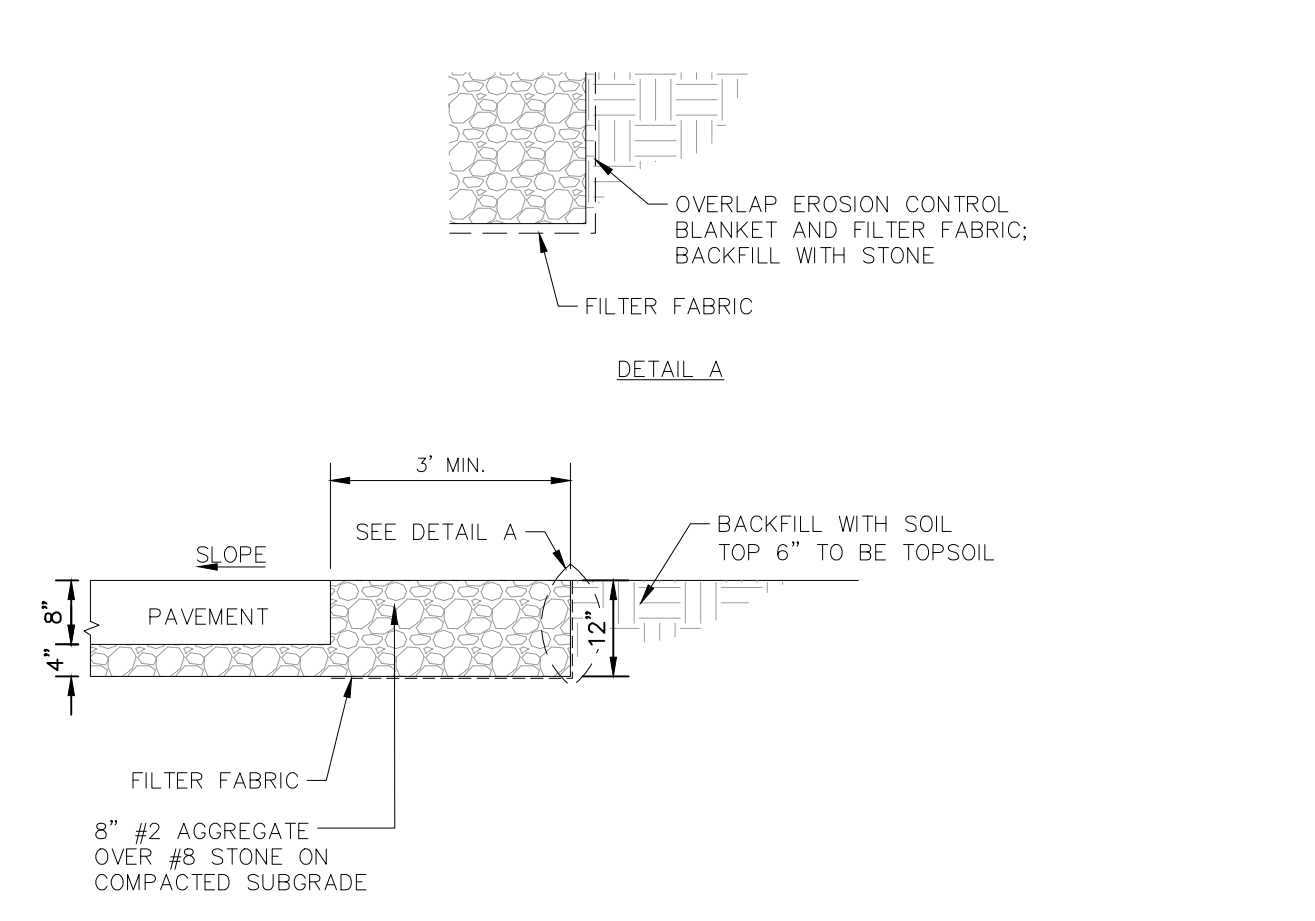
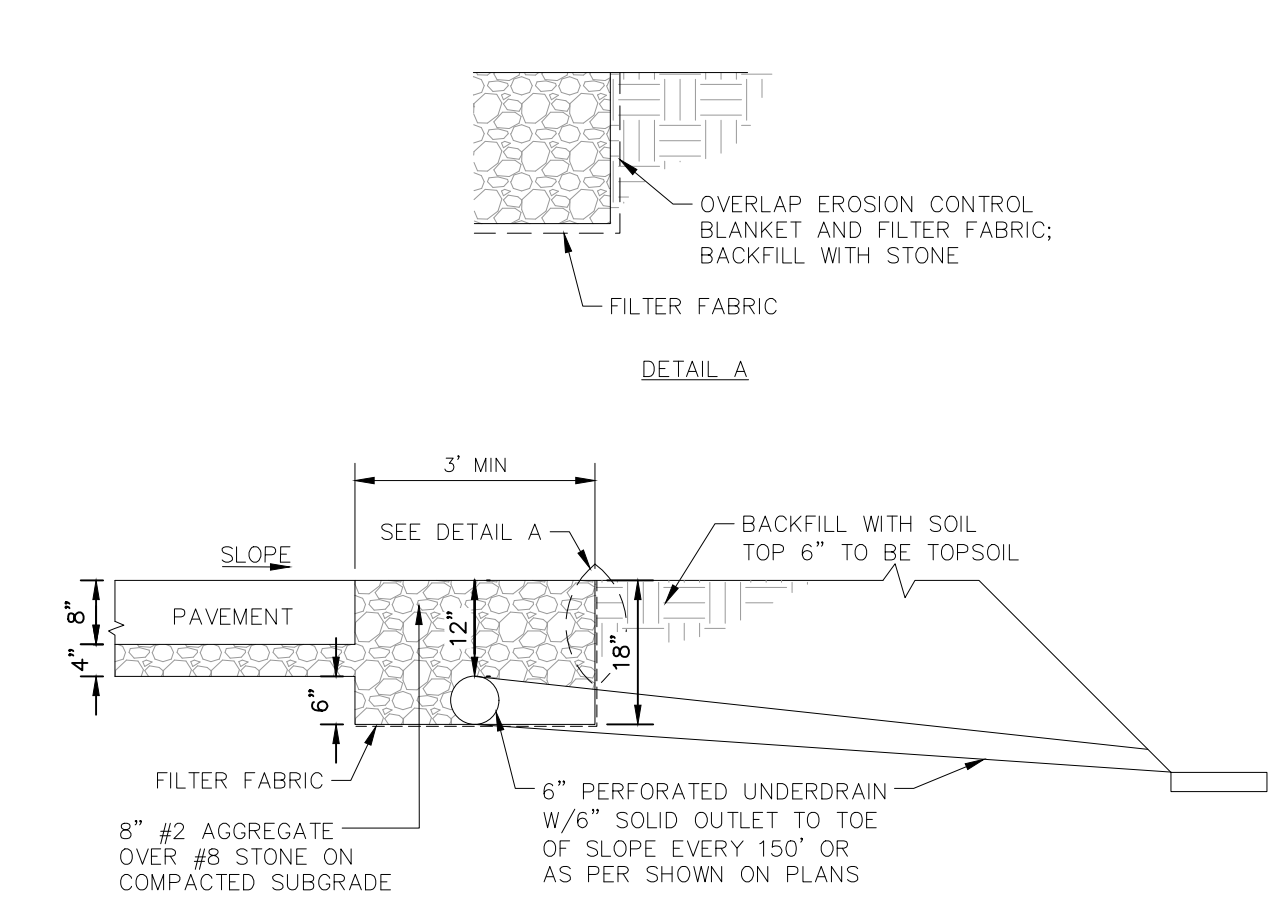
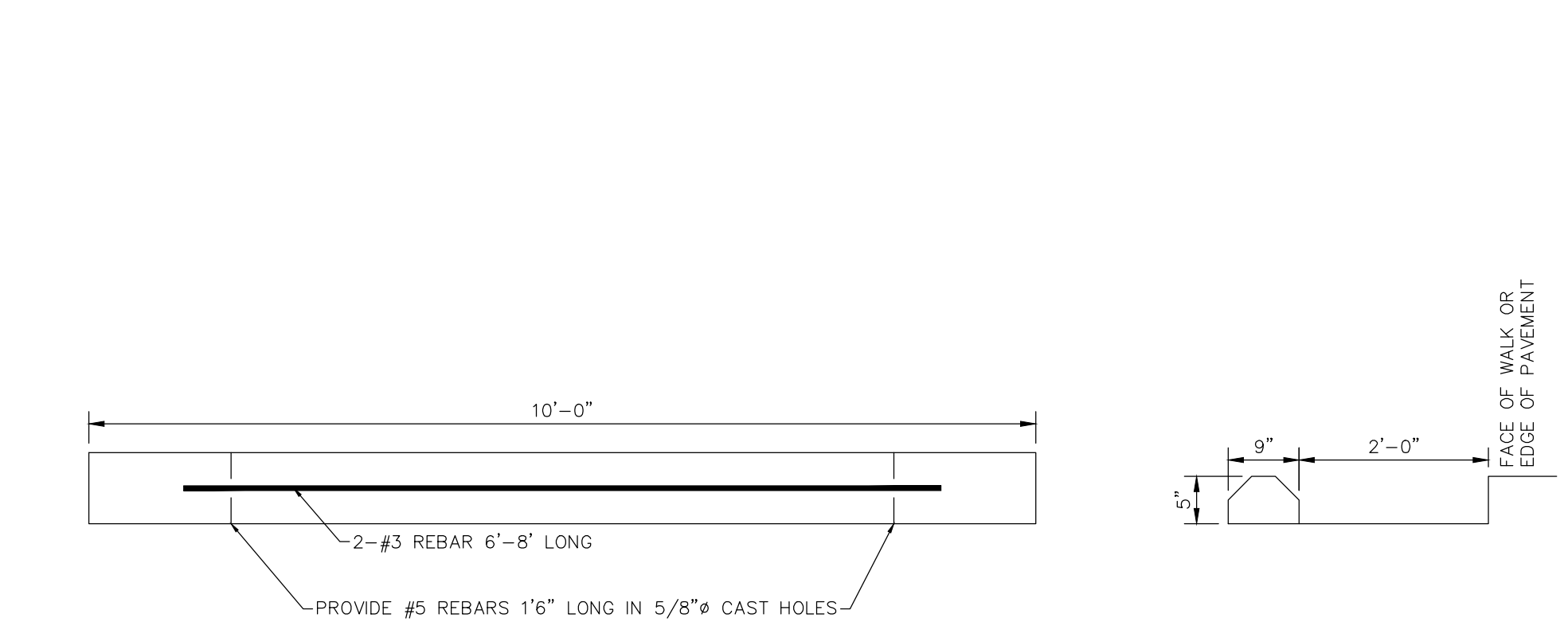
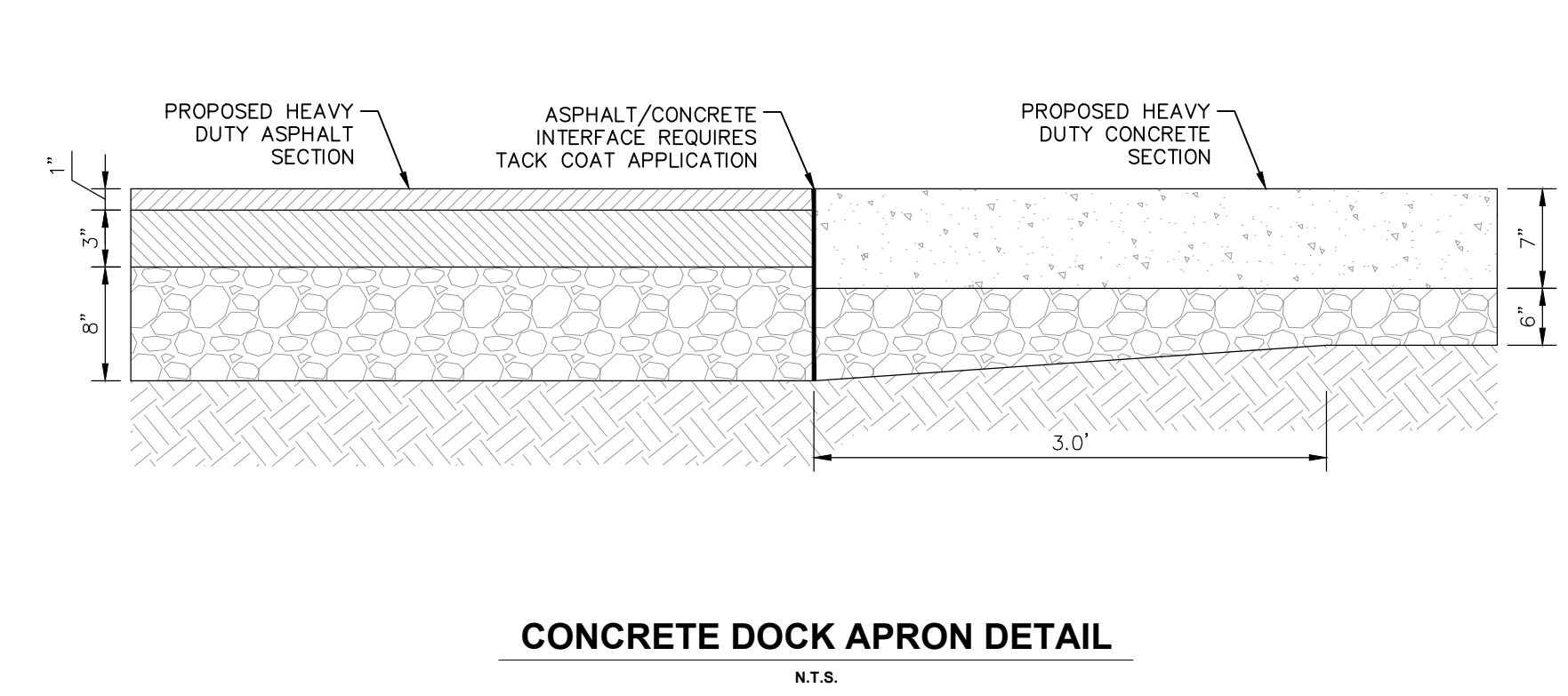
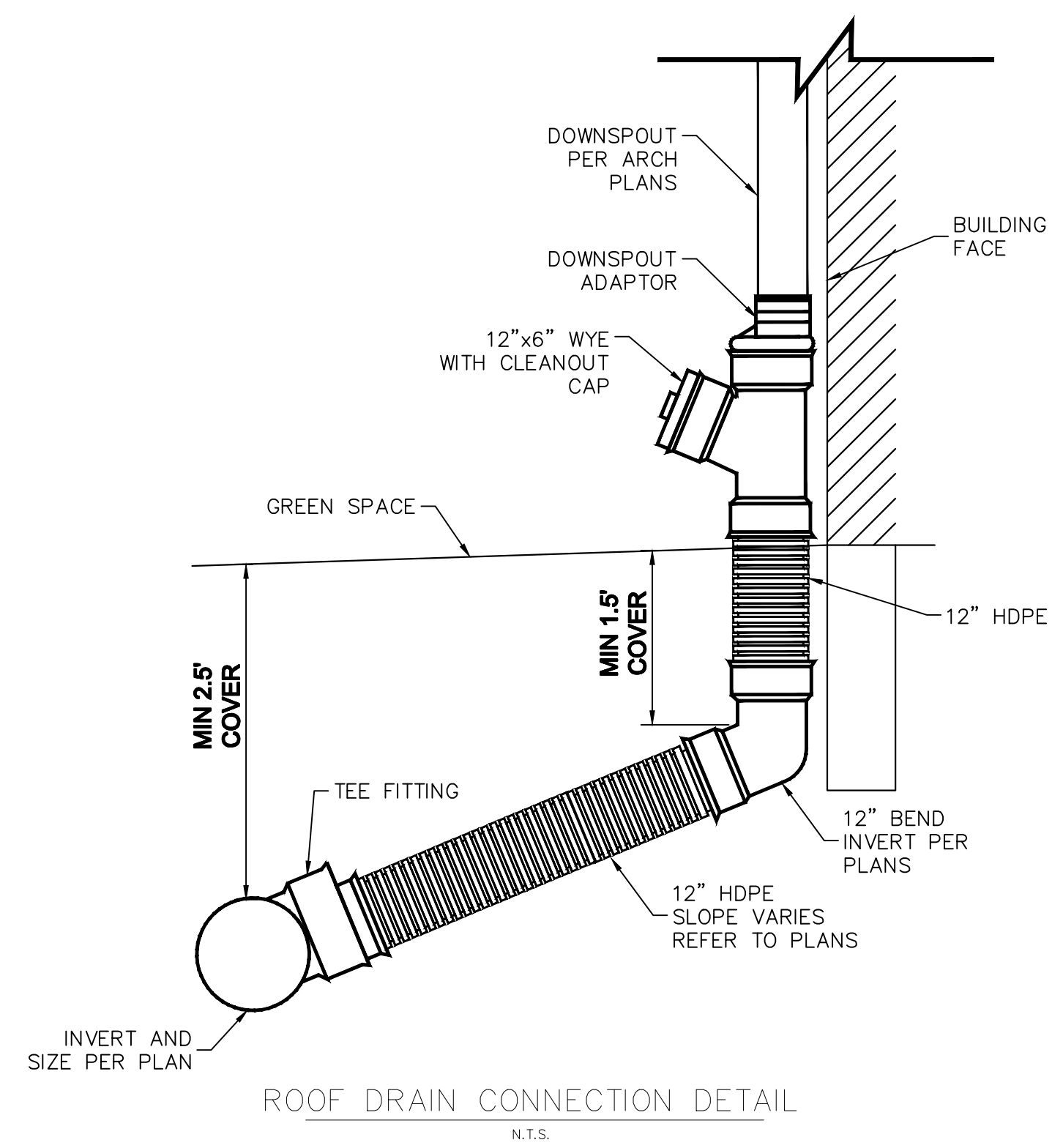


MALARKEY,IND FRANKLIN,IN

TITLE- PHASE 2 - FINAL BUILDOUT
CONSTRUCTION DETAILS

PROJ. NO. 170509000
DWG. NO. 2701
SHEET 0

This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND_DEV\170509000_Cooper&Associates_Plant\IND_SiteImprovements\70-CONSTRUCTION DETAILS.dwg 2702 Oct 10, 2024 11:40am by AnthonyMagnity

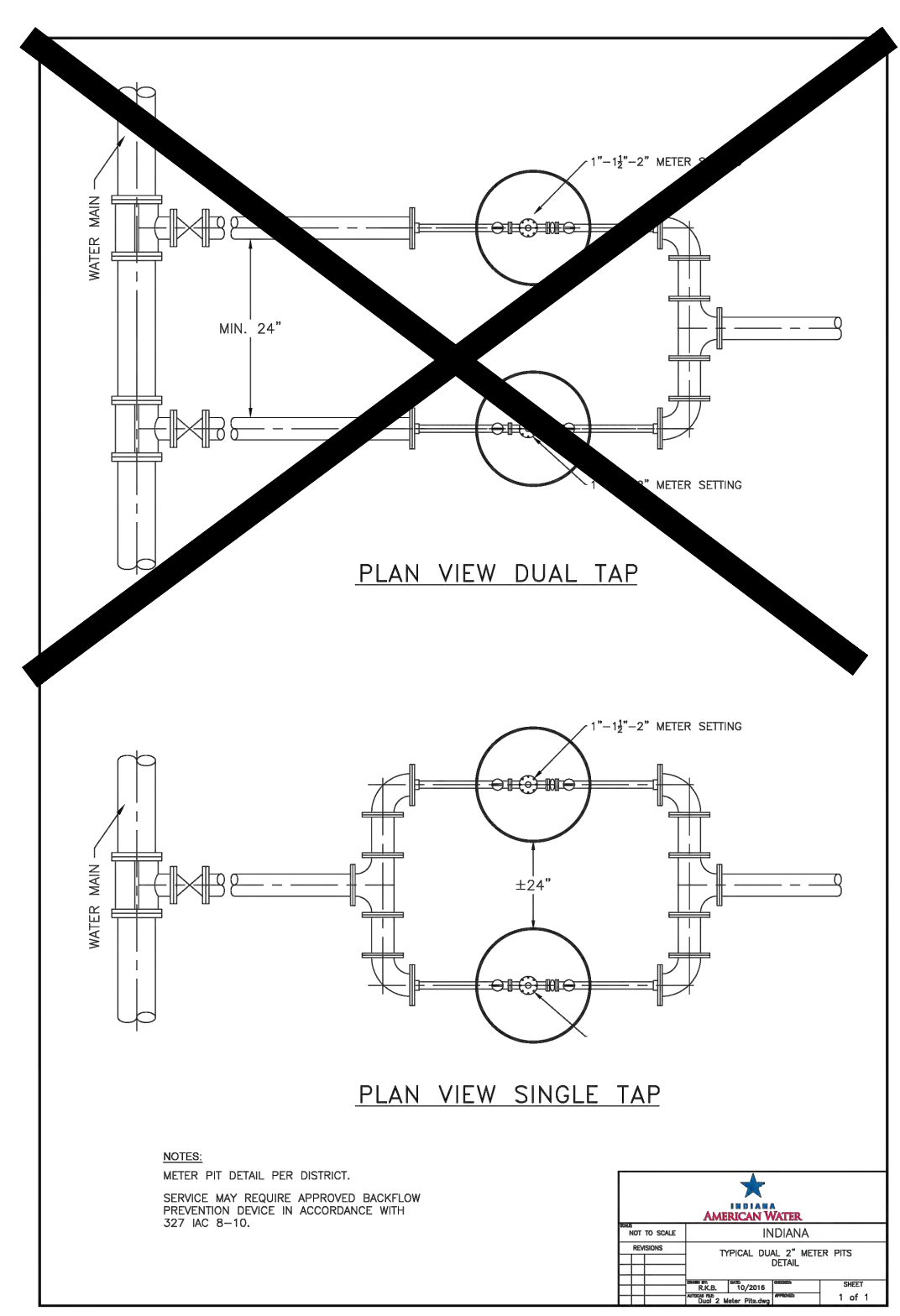


NOTES:

- CUSTOMER SHALL FURNISH & INSTALL VAULT, INCLUDING ALL APPROPRIATE EXCEPT AS NOTED BELOW.
- VAULT CONSTRUCTION MATERIALS SHALL BE 6"x6"x16" CMU OR PRECAST, OR CAST-IN-PLACE CONCRETE AT CUSTOMER'S SELECTION.
- INSIDE DIMENSIONS PER DRAWING NOTES. VAULT TO BE SET LENGTHWISE WITH SERVICE.
- TOP OF VAULT TO BE CONCRETE, AT LEAST 4" THICK WITH REINFORCING SUITABLE FOR ANTICIPATED LOADING. WHEN VAULT IS CONSTRUCTED IN PAVED AREAS, PAVEMENT IS TO BE LEVEL WITH TOP OF VAULT, AND THE TOP REINFORCED AS REQUIRED TO SUPPORT TRAFFIC LOADS (I.E. H-20 WHEEL LOADS). WHEN VAULT IS CONSTRUCTED IN GRASS PLOT, TOP OF VAULT SHALL BE 3" ABOVE FINISHED GRADE.
- BOTTOM OF VAULT TO BE EITHER A MINIMUM OF 6" OF CRUSHED STONE OR 4" CONCRETE PER FIRE DEPARTMENT'S REQUIREMENT. MINIMUM CLEARANCE OF 12" BELOW BOTTOM OF FIRE SERVICE AND DOMESTIC SERVICE LINES IS REQUIRED.
- DOUBLE CHECK DETECTOR ASSEMBLY SHALL BE A MODEL APPROVED BY THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT, WITH FLANGED OS&Y GATE VALVE ON INLET & OUTLET SIDES. DETECTOR METER IS FURNISHED BY UTILITY AND INSTALLED BY CUSTOMER. STAINLESS STEEL BOLTS ARE REQUIRED.
- ACCESS HATCH IN TOP OF VAULT SHALL BE 30"x30" ALUMINUM FRIGID SEAL, RIGID FRAME, HANDLE W/15000 OR EQUAL ACCESS HATCH SHALL HAVE SAME OR GREATER LOADING CAPACITY AS VAULT LID. PIPE HATCH FRAME DRAIN TO VAULT FLOOR OR SLUMP. AS APPLICABLE, IF THE LOCAL FIRE DEPARTMENT REQUIRES A SLUMP PUMP IN THE VAULT, ELECTRICAL DISCONNECT IS REQUIRED ON TOP OF VAULT, INSTALLED ABOVE GRADE, PER LOCAL ELECTRICAL CODE.
- A SEPARATE METER PIT/VAULT WILL BE USED FOR DOMESTIC METERS. DISTRICT TO PROVIDE PIT/VAULT DETAILS.
 - CUSTOMER SHALL FURNISH BALL VALVES ON BOTH SIDES OF THE DOMESTIC METER SETTING.
 - A 2" TEST PLUG SHALL BE INSTALLED AT LEAST 3 PIPE DIAMETERS DOWNSTREAM OF 2" OR LARGER METERS.
 - DETECTOR METER TO BE LOCATED A MAXIMUM 18" FROM HINGE SIDE OF HATCH.
 - AS DIRECTED BY LOCAL OPERATIONS, ADDITIONAL PIPE SUPPORTS MAY BE REQUIRED.
- THE LID AND RING THAT WILL BE REQUIRED IS FORD ASD-TT OR FORD ASD-TT. THE ASD-TT WILL BE USED FOR ALL VAULTS WITH THE DOMESTIC METER INSIDE. THE ASD-TT WITH BE USED FOR ALL VAULTS WITH THE DCCA ONLY LOCATED INSIDE THE VAULT.

LEGEND

(A)	NOT USED	(H)	NOT USED
(B)	NOT USED	(I)	NOT USED
(C)	NOT USED	(J)	NOT USED
(D)	DOUBLE CHECK DETECTOR ASSEMBLY	(K)	FLANGED TEE
(E)	FLANGED OS&Y VALVE	(L)	DETECTOR METER
(F)	FIRE LINE	(M)	SUMP PIT
(G)	NOT USED	(N)	FLANGED OS&Y VALVE WITH PIT TYPE POST INDICATOR
(O)	NOT USED	(P)	TAPPING SLEEVE W/ TAPPING VALVE & BOX (COORDINATE WITH LOCAL UTILITY SUPERINTENDENT/MANAGER)
(Q)	NOT USED	(R)	SLUMP PUMP LID

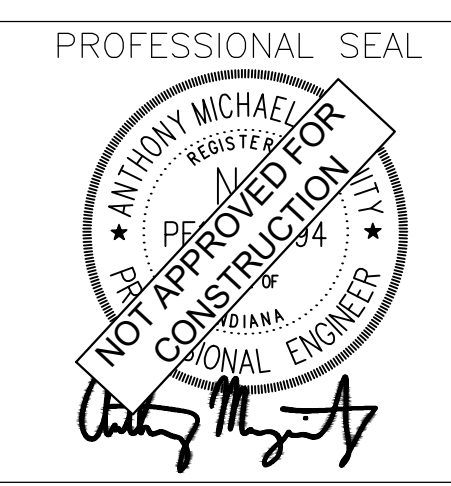


INDIANA AMERICAN WATER

LONG SIDE VAULT DETAIL

STANDARD FIRE SERVICE VAULT

NO SCALE	AC	1 of 1
REVISIONS		
DATE	AC	
BY		
CHKD		
APPD		
DATE		



NOTICE

THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.

DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

SCALE: AS NOTED

DRWN.: VG

CHKD.: AMM

APPD.:

APPD.:

DATE : 10/10/24

Quad Plus
Cooper & Associates, LLC

Engineers - Project Managers

2200 Ellis Road, New Lenox, Illinois, 60451
Ph. (844) 251-7823 www.quadplus.com

Kimley»Horn

©2024 KIMLEY-HORN AND ASSOCIATES, INC.
500 EAST 96TH STREET, SUITE 300,
INDIANAPOLIS, IN 46240
PHONE: 317-218-9560
WWW.KIMLEY-HORN.COM
KHA PROJECT # 170509000

Malarkey
Roofing Products®

MALARKEY,IND FRANKLIN,IN

PROJ. NO.	170509000
DWG. NO.	2702
SHEET	0
REV	0

TITLE - PHASE 2 - FINAL BUILDOUT CONSTRUCTION DETAILS

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND_DEV\170509000_Cooper&Associates_Plant4_Franklin_IN_V2_Design\CD\03\PlanSheets\04_Site Improvements\CD-CONSTRUCTION DETAILS.dwg 2703 Oct 10, 2024 11:40am by AnthonyMagnity

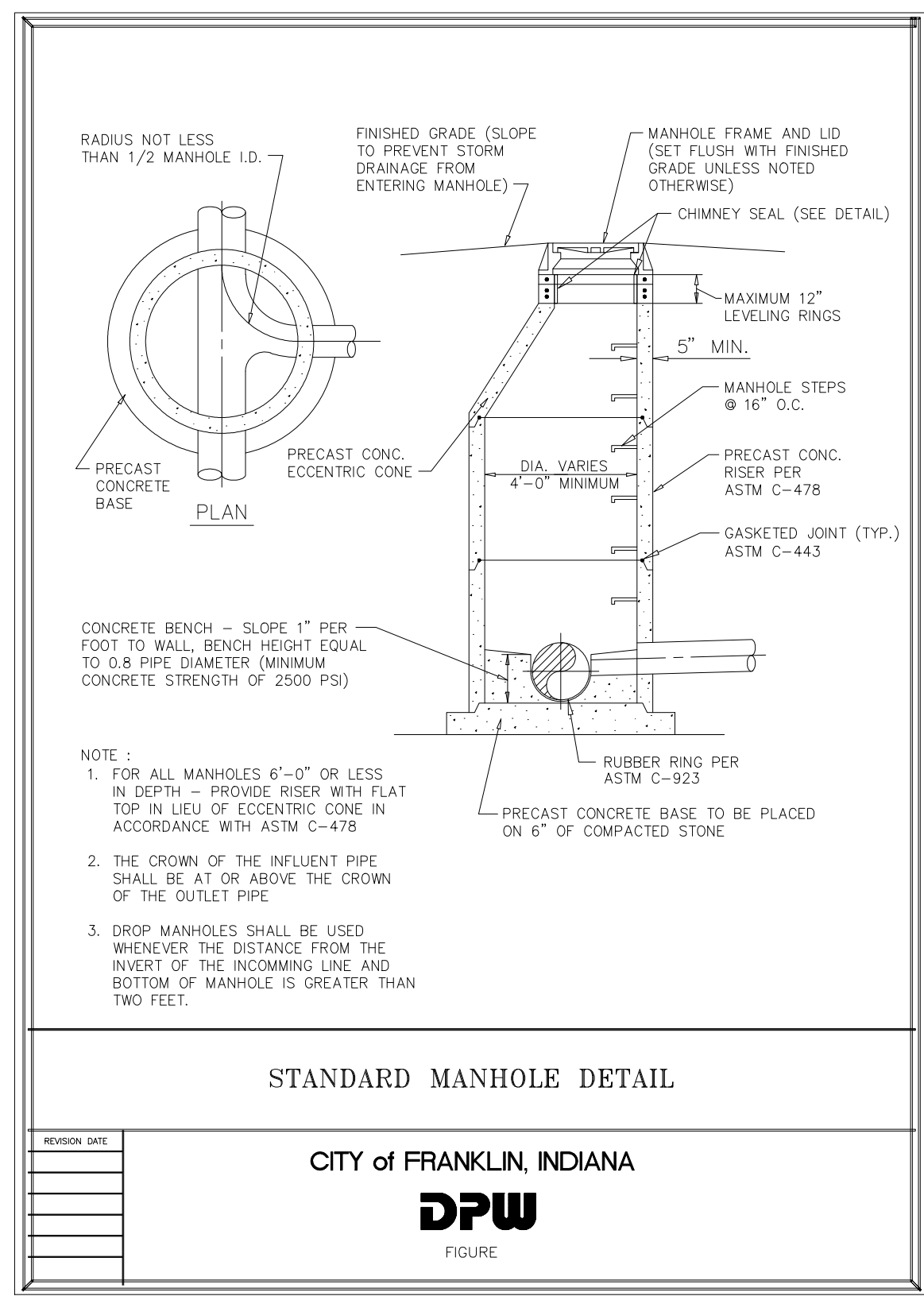


Illustration 5-1

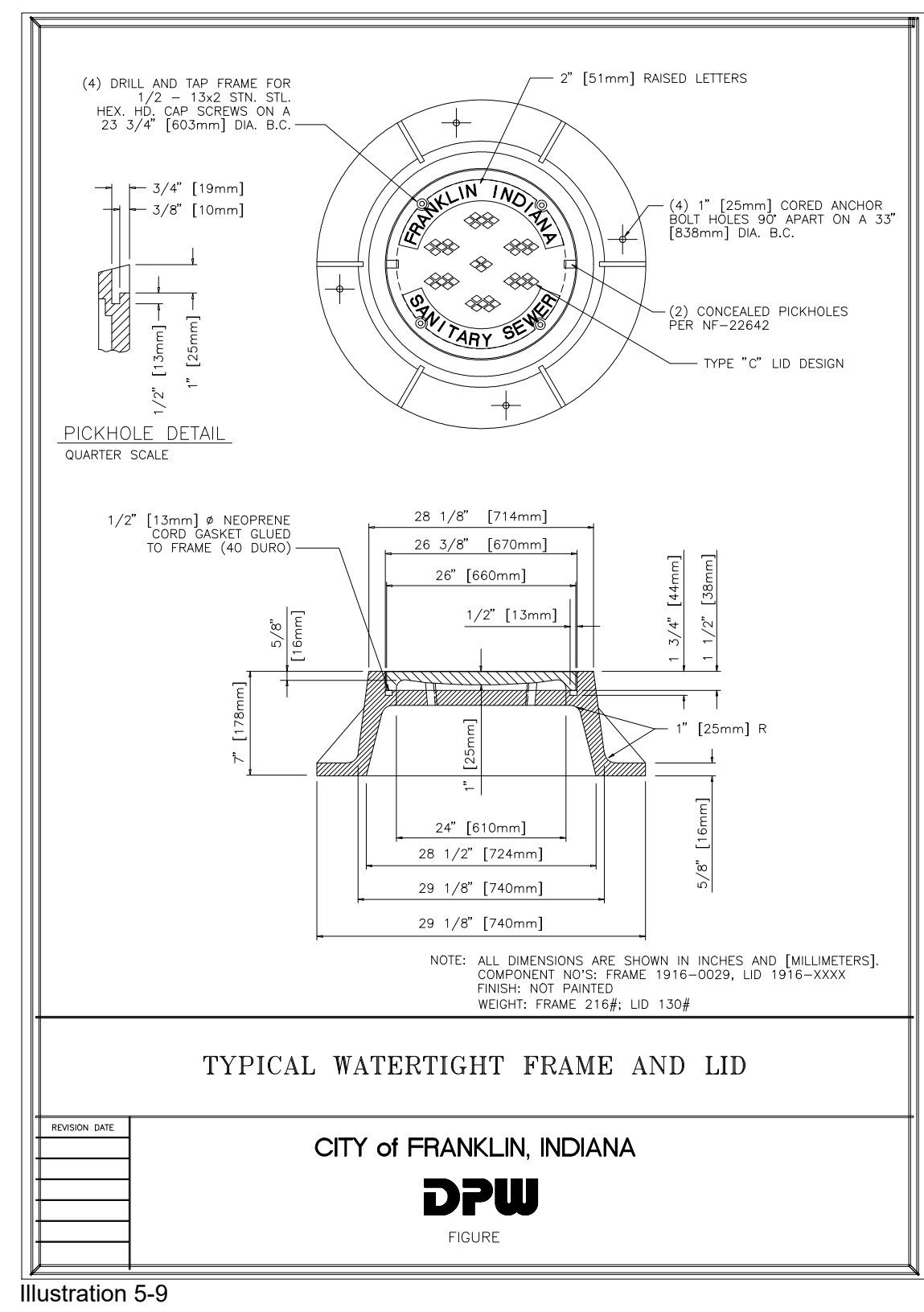


Illustration 5-9

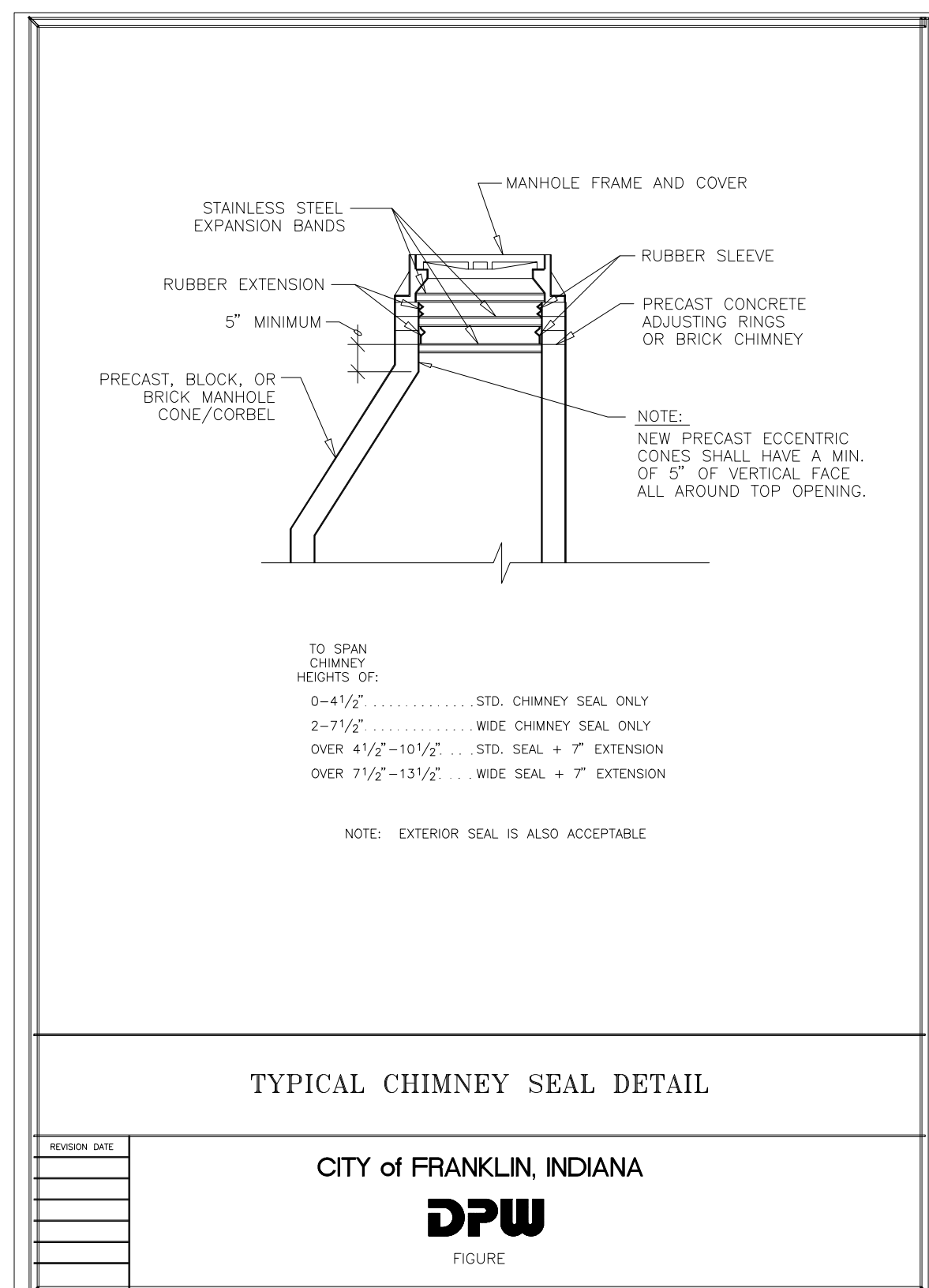


Illustration 5-10

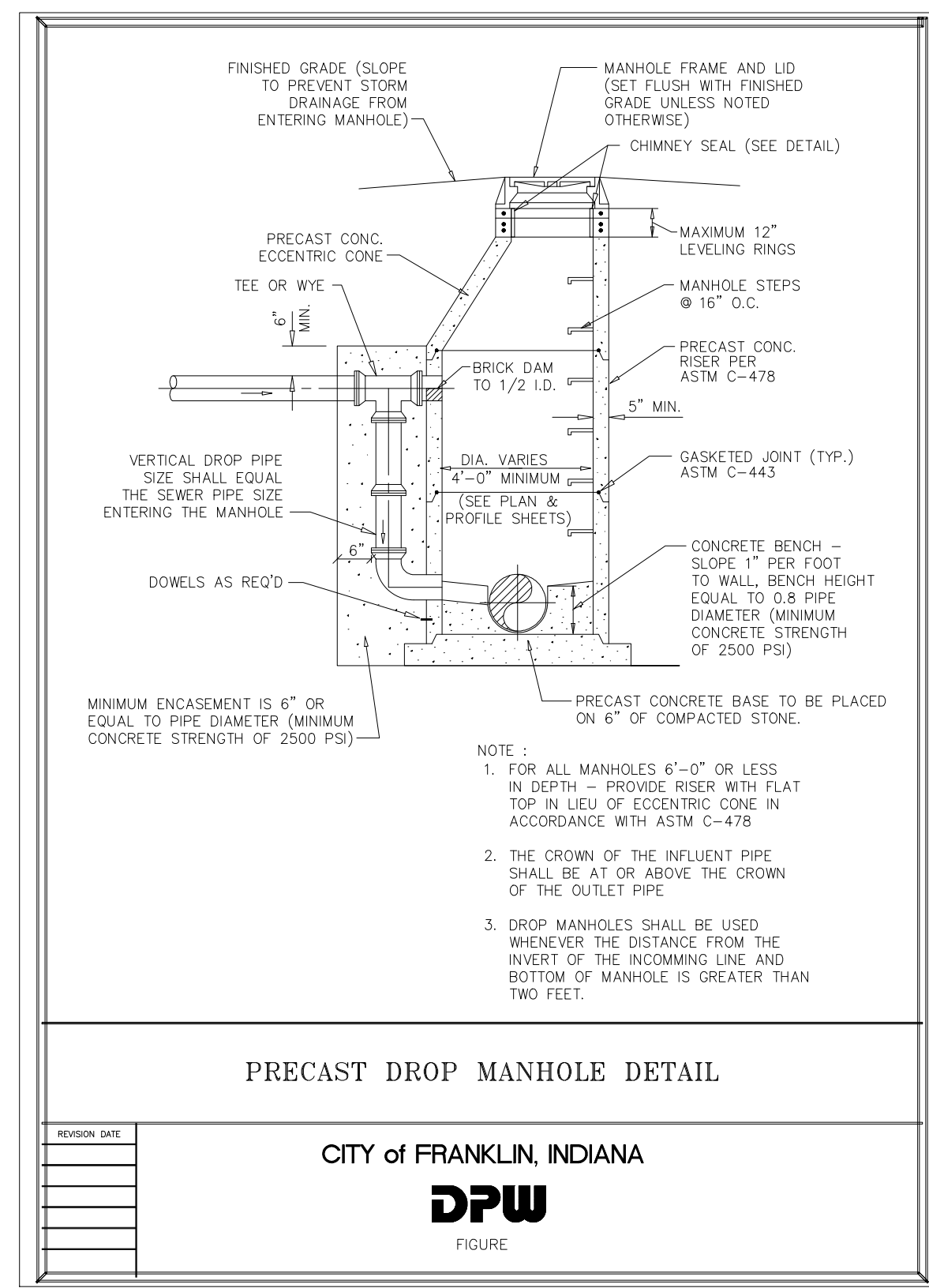


Illustration 5-4

CITY OF FRANKLIN - STANDARD SPECIFICATIONS 1-33

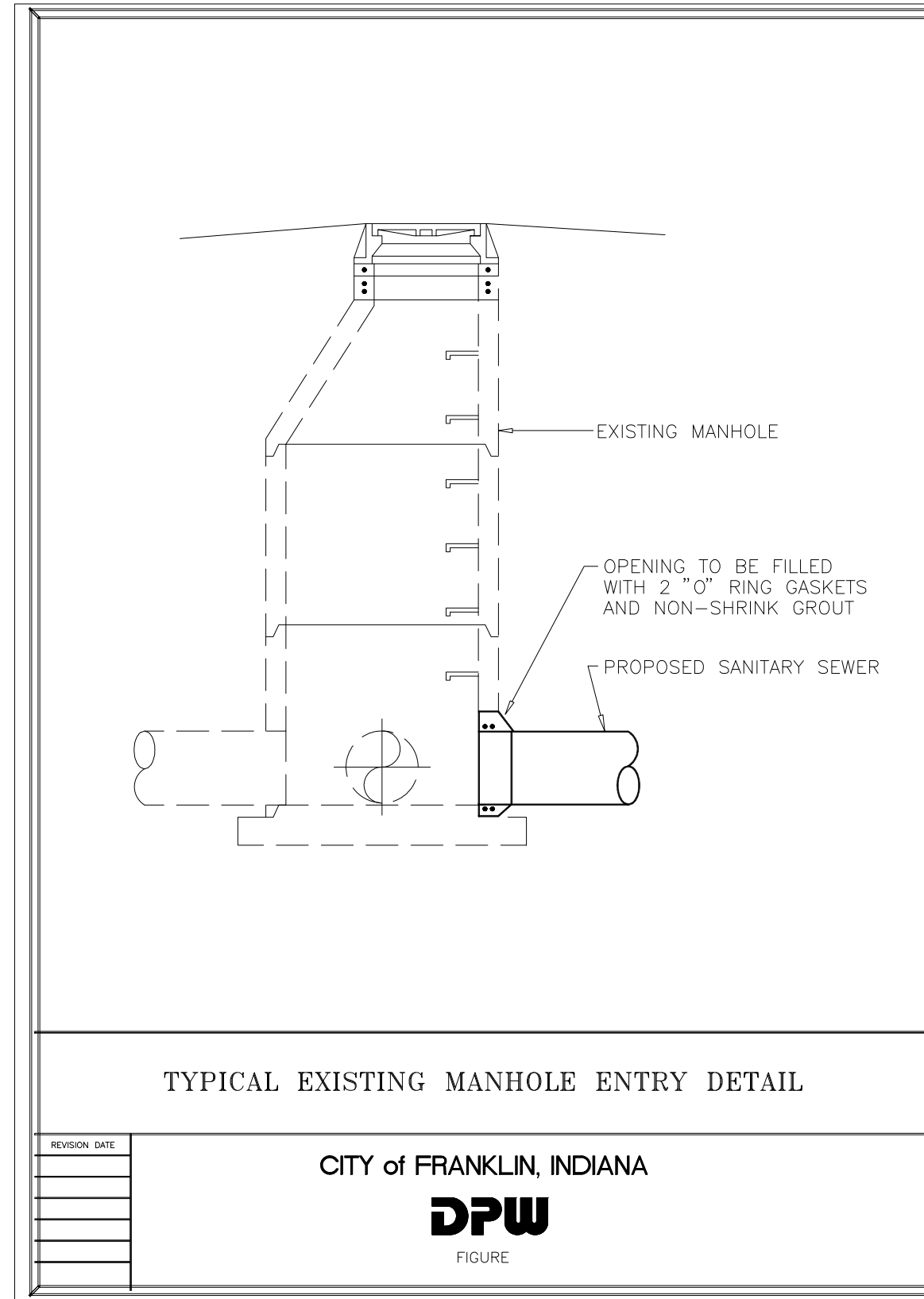


Illustration 5-5

CITY OF FRANKLIN - STANDARD SPECIFICATIONS 1-41

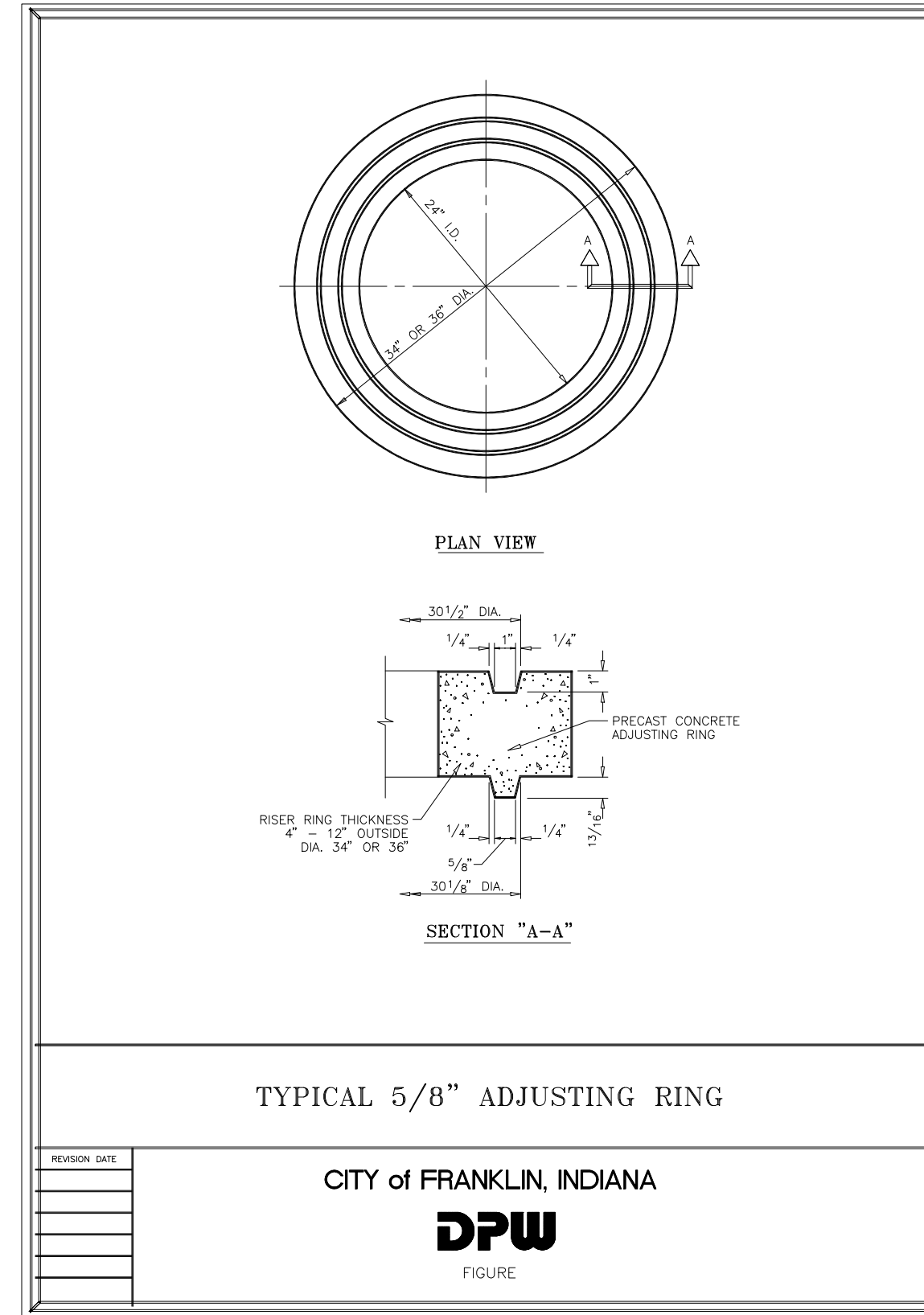


Illustration 5-6

CITY OF FRANKLIN - STANDARD SPECIFICATIONS 1-42

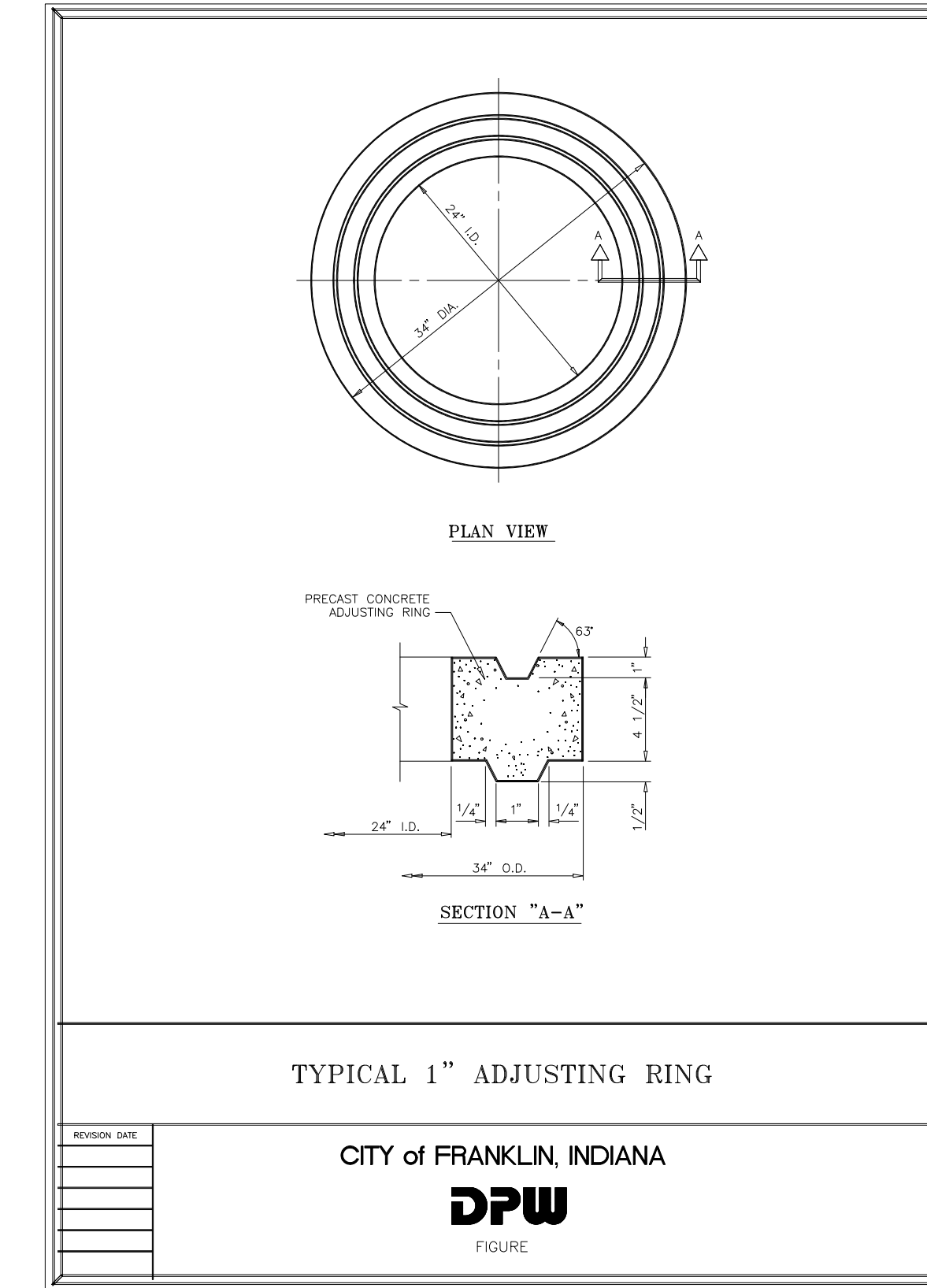


Illustration 5-7

CITY OF FRANKLIN - STANDARD SPECIFICATIONS 1-36

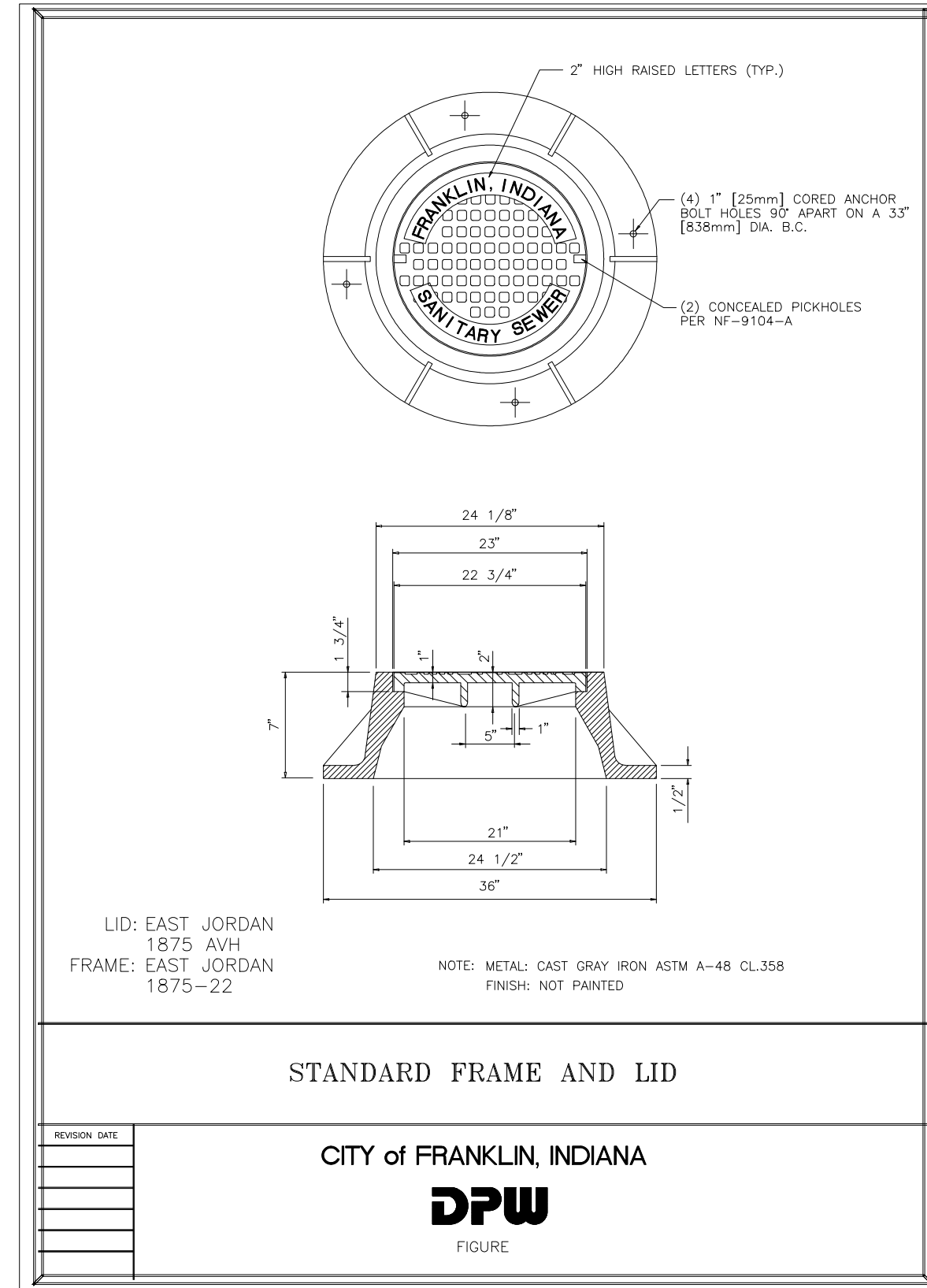


Illustration 5-8

CITY OF FRANKLIN - STANDARD SPECIFICATIONS 1-37

CITY OF FRANKLIN - STANDARD SPECIFICATIONS 1-38

CITY OF FRANKLIN - STANDARD SPECIFICATIONS 1-39

CITY OF FRANKLIN - STANDARD SPECIFICATIONS 1-40

Kimley»Horn

©2024 KIMLEY-HORN AND ASSOCIATES, INC.
500 EAST 96TH STREET, SUITE 300,
INDIANAPOLIS, IN 46240
PHONE: 317-218-9560
WWW.KIMLEY-HORN.COM
KHA PROJECT # 170509000



NOTICE
THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.
DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

SCALE: AS NOTED
DRWN.: VG
CHKD.: AMM
APPD.:
APPD.:
DATE : 10/10/24



Engineers - Project Managers
2200 Ellis Road, New Lenox, Illinois, 60451
Ph. (844) 251-7823 www.quadplus.com



MALARKEY,IND FRANKLIN,IN

TITLE- PHASE 2 - FINAL BUILDOUT CONSTRUCTION DETAILS
SHEET 0
REV 0

PROJ. NO. 170509000
DWG. NO. 2703
SHEET 0
REV 0

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND\DEV\170509000_Cooper&Associates_Planting\170509000_Site Improvements\170509000-CONSTRUCTION DETAILS.dwg 2704 Oct 10, 2024 11:40am by AnthonyMagnifico

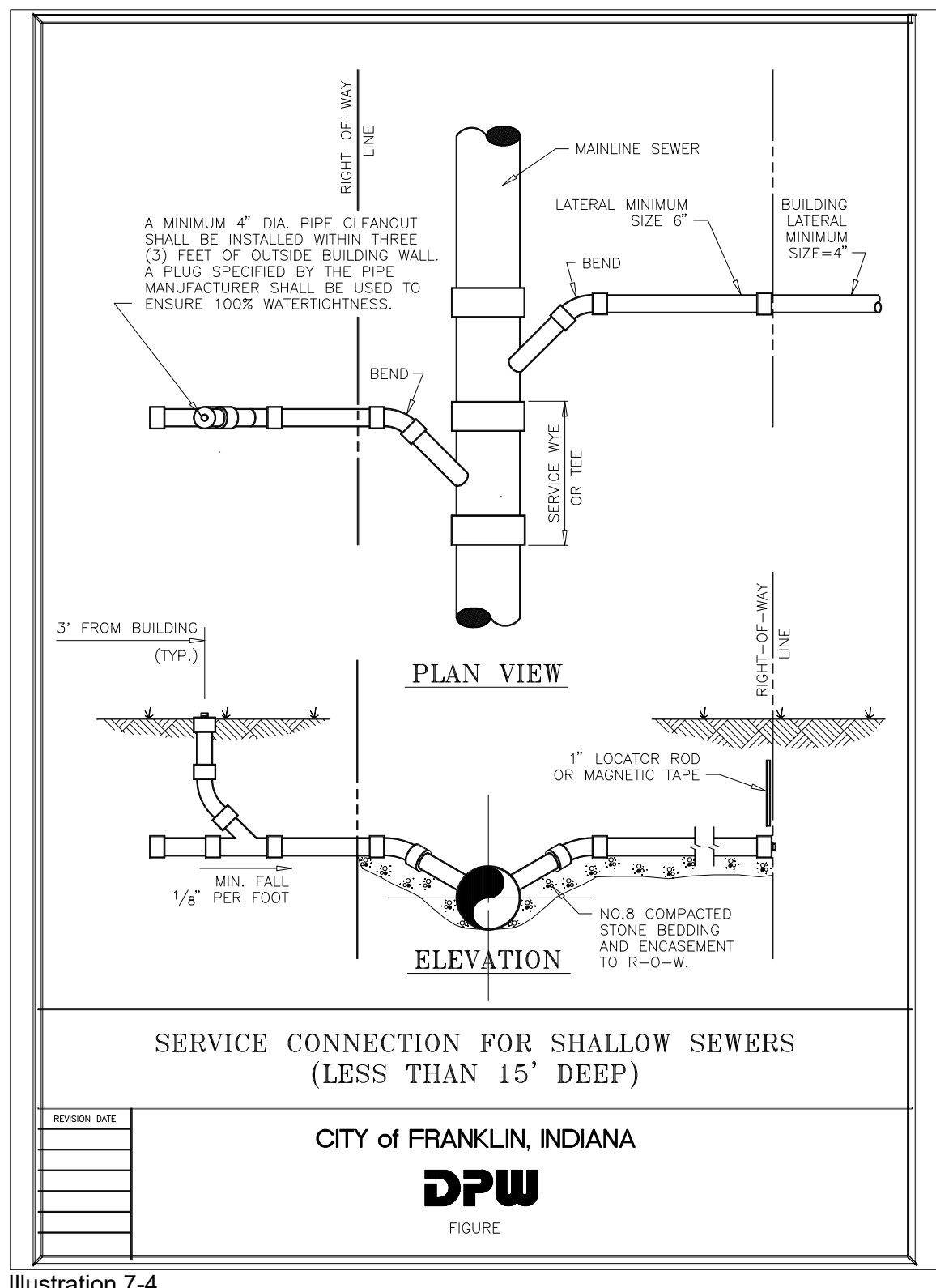


Illustration 7-4

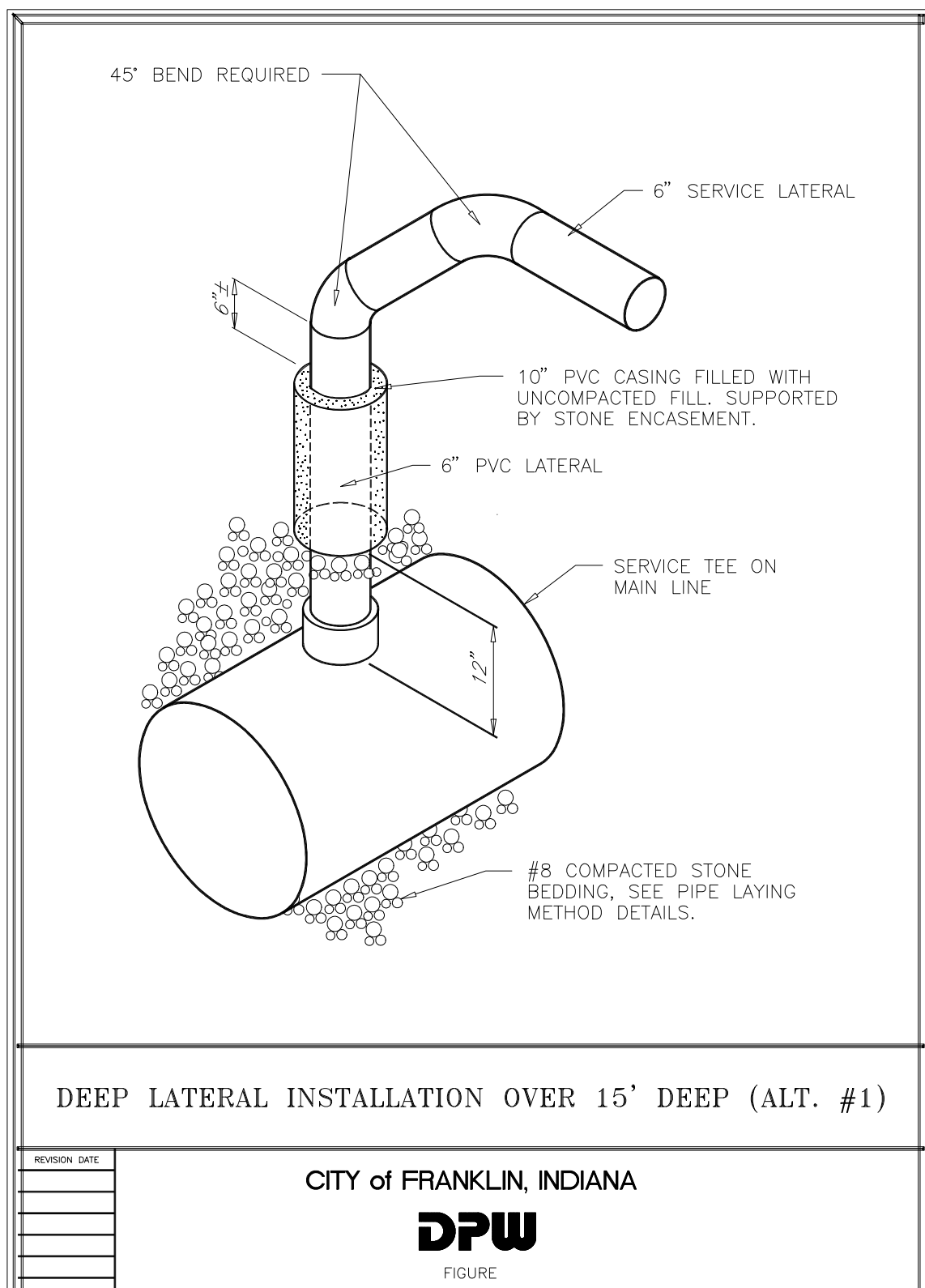


Illustration 7-5

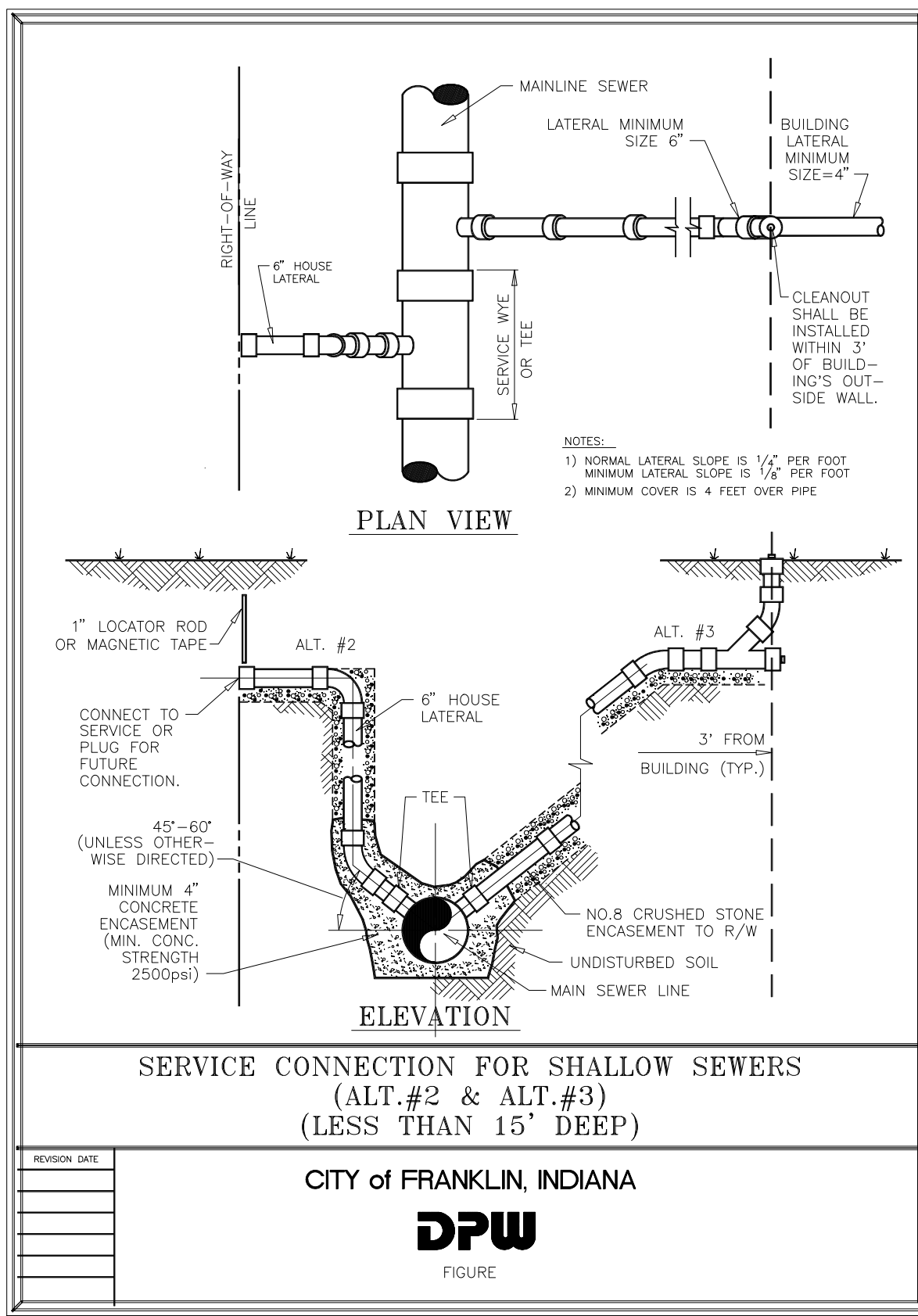


Illustration 7-6

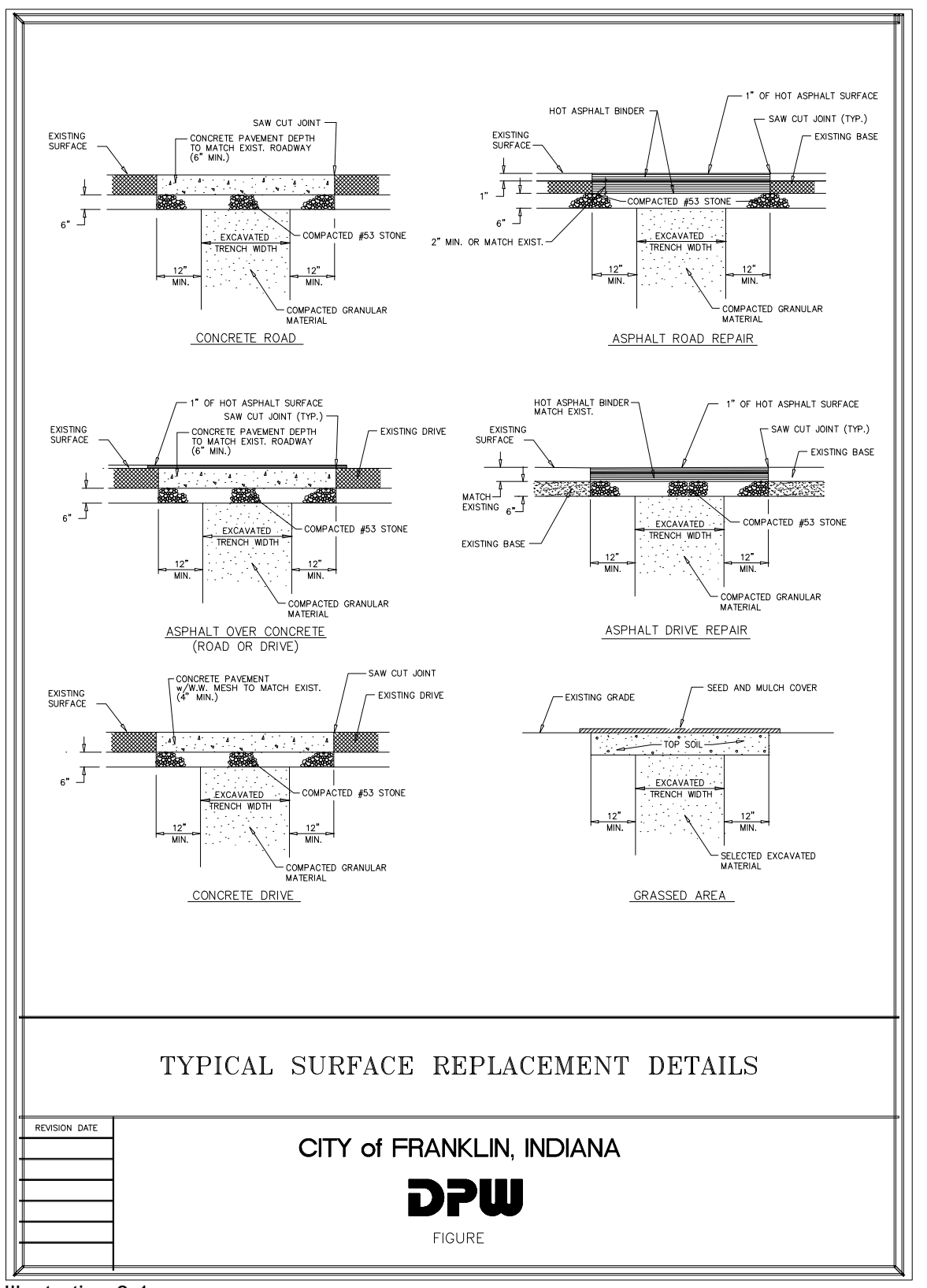


Illustration 8-1

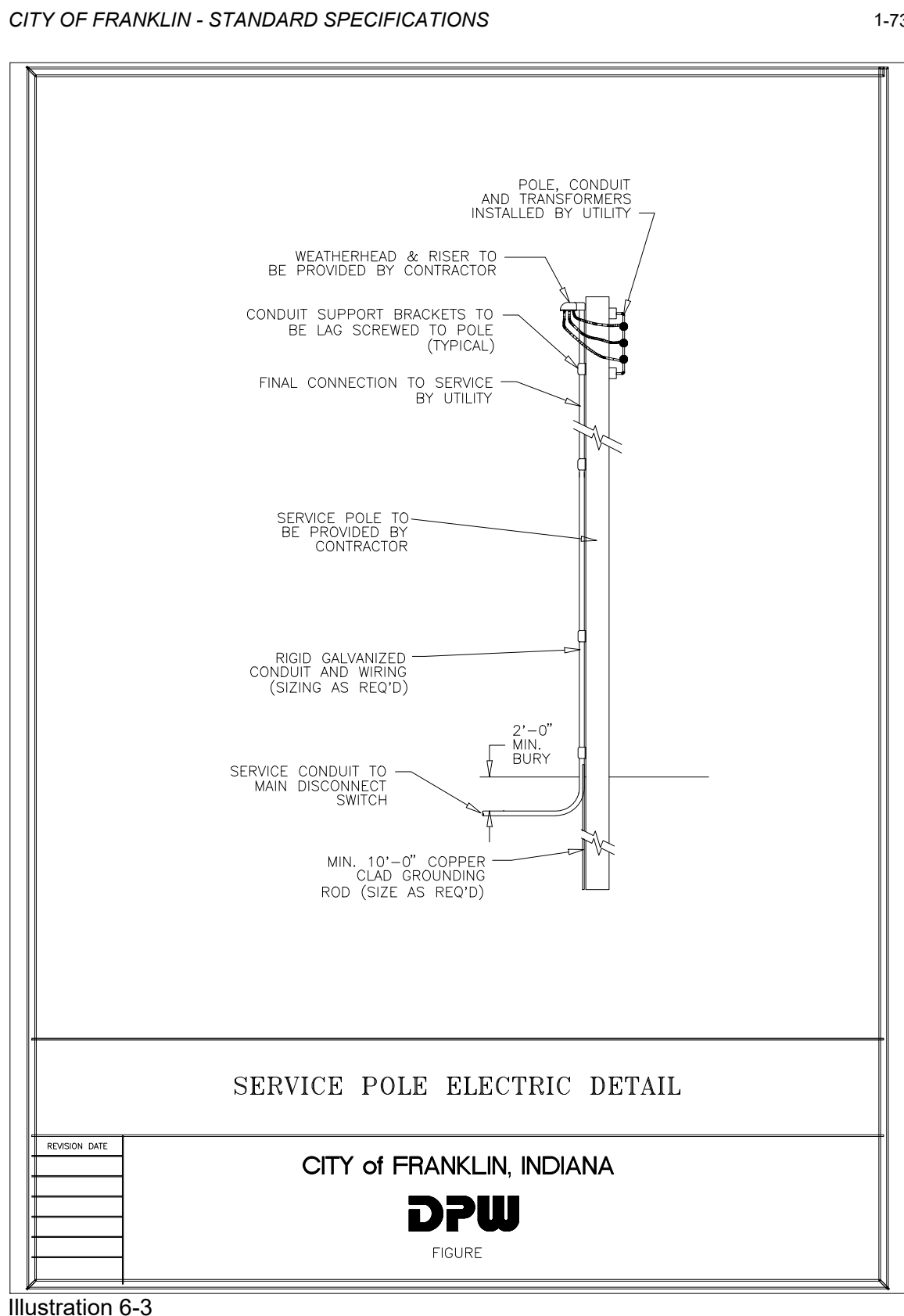


Illustration 6-3

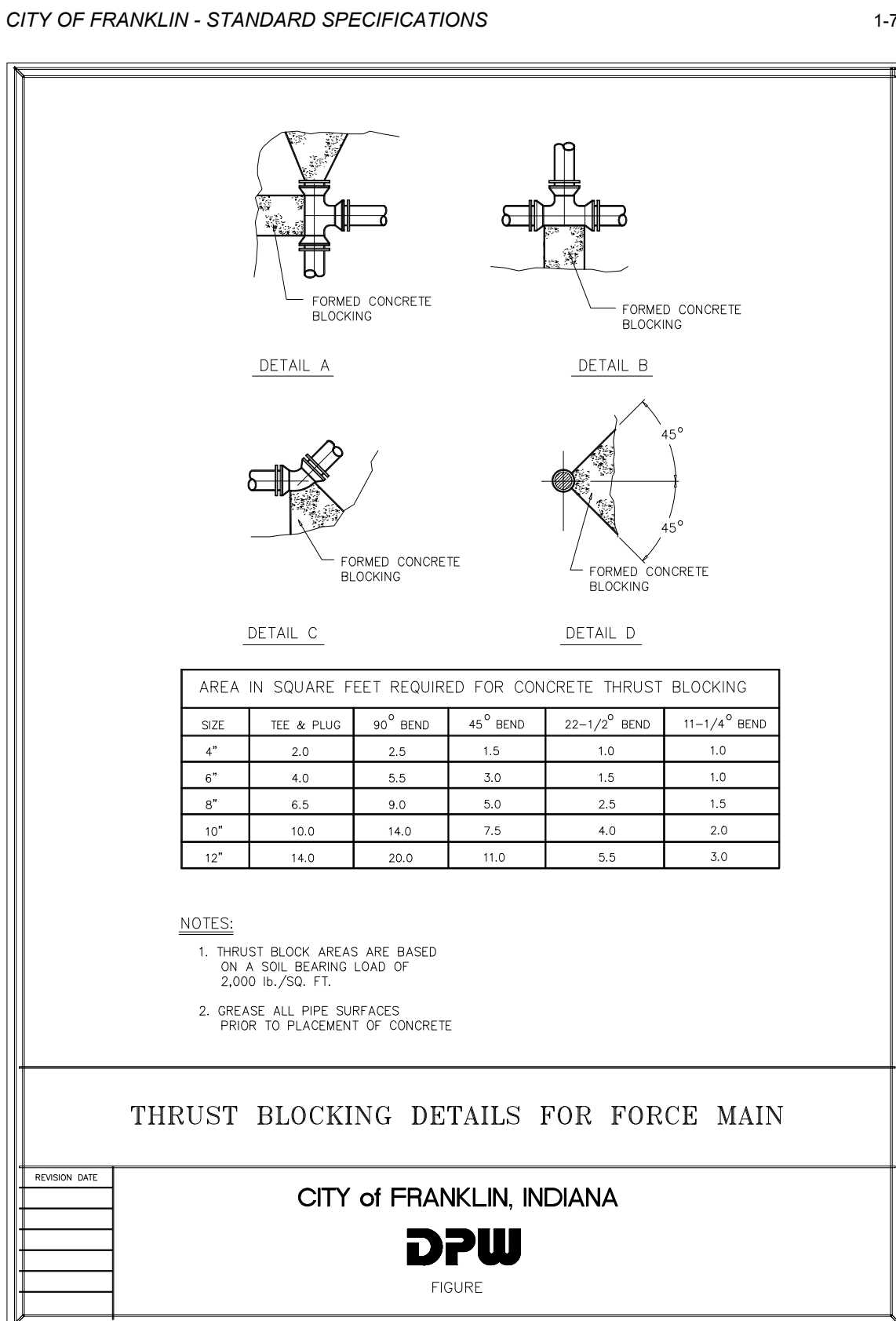


Illustration 7-7

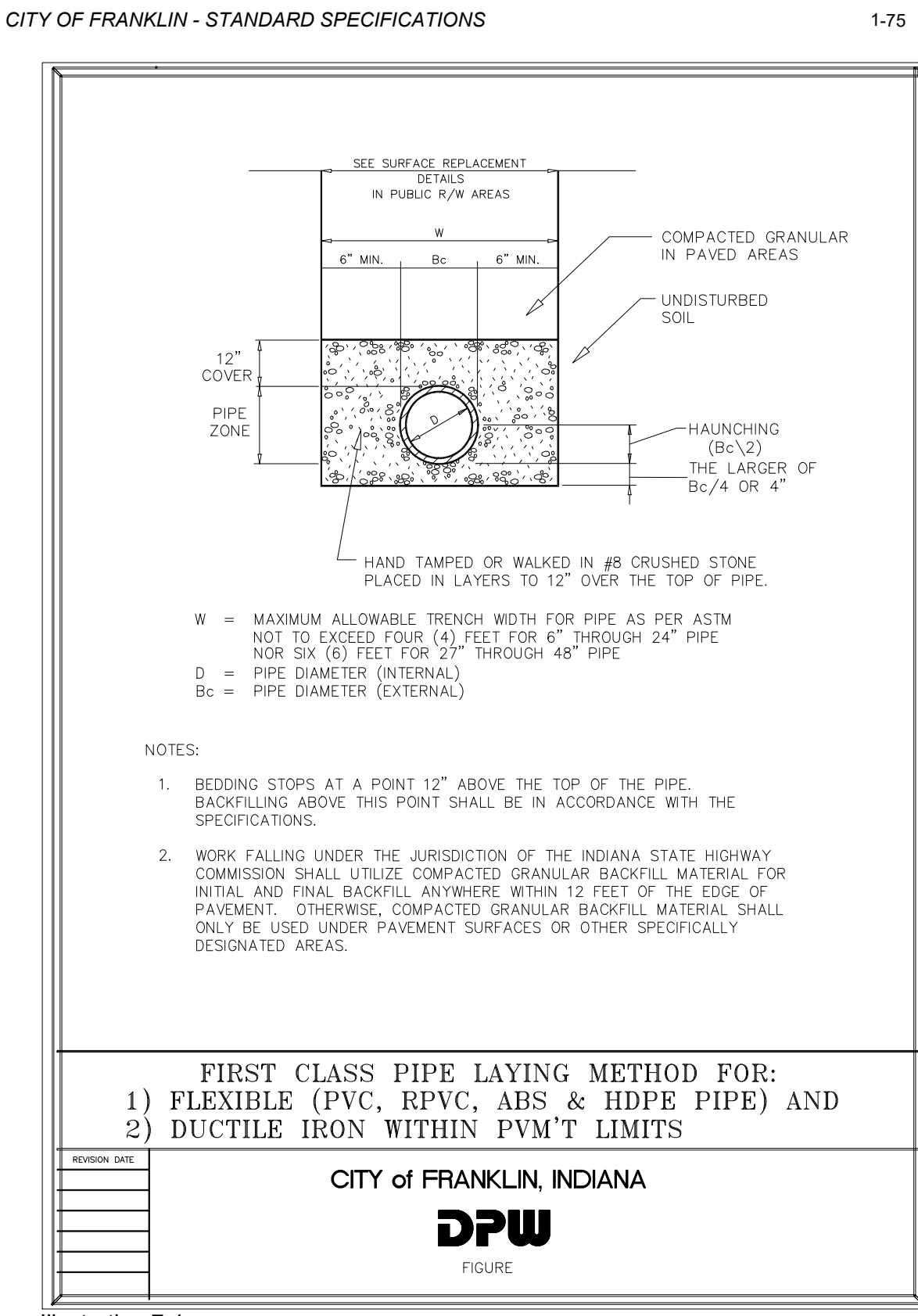


Illustration 7-1

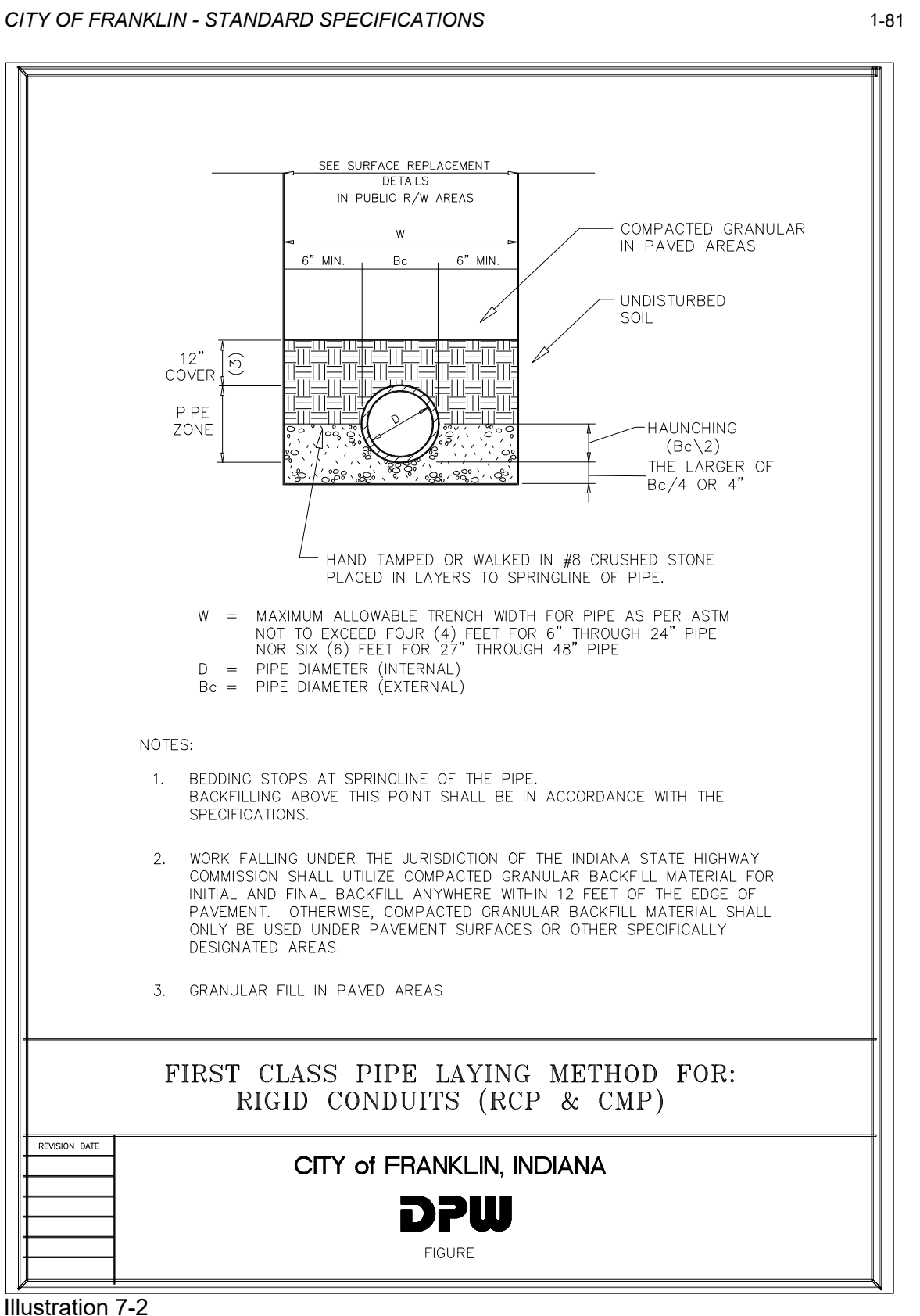


Illustration 7-2

CITY OF FRANKLIN - STANDARD SPECIFICATIONS 1-56

CITY OF FRANKLIN - STANDARD SPECIFICATIONS 1-76

CITY OF FRANKLIN - STANDARD SPECIFICATIONS 1-70

CITY OF FRANKLIN - STANDARD SPECIFICATIONS 1-71

PROFESSIONAL SEAL

NOTICE

THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.

DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

SCALE: AS NOTED

DRWN.: VG

CHKD.: AMM

APPD.:

APPD.:

DATE : 10/10/24

Quad Plus
Cooper & Associates, LLC

Engineers - Project Managers
2200 Ellis Road, New Lenox, Illinois, 60451
Ph. (844) 251-7823 www.quadplus.com

Kimley»Horn

©2024 KIMLEY-HORN AND ASSOCIATES, INC.
500 EAST 96TH STREET, SUITE 300,
INDIANAPOLIS, IN 46240
PHONE: 317-218-9560
WWW.KIMLEY-HORN.COM
KHA PROJECT # 170509000

Malarkey Roofing Products

PROJ. NO. 170509000

DWG. NO. 2704

SHEET 0

REV 0

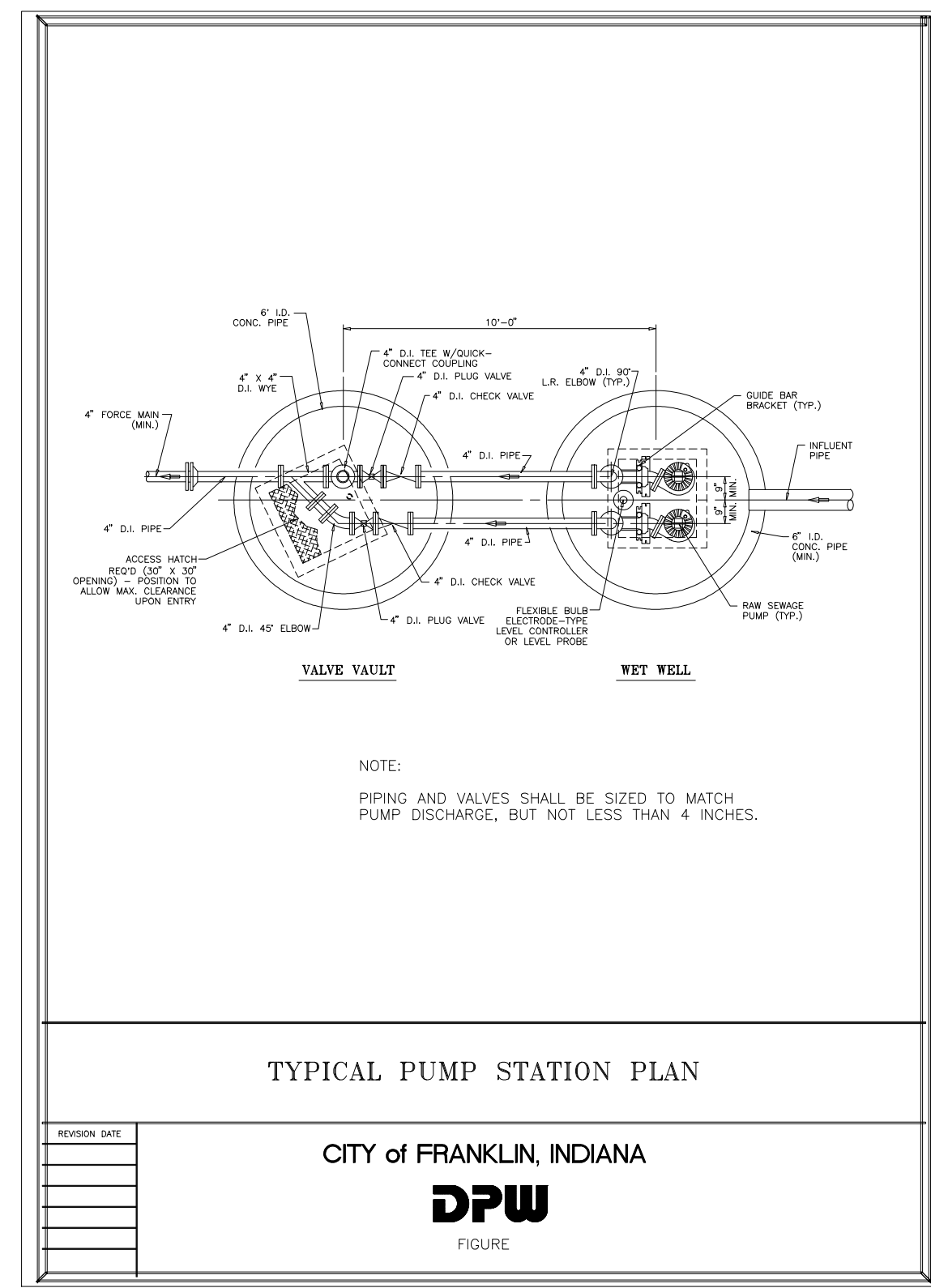


Illustration 6-2

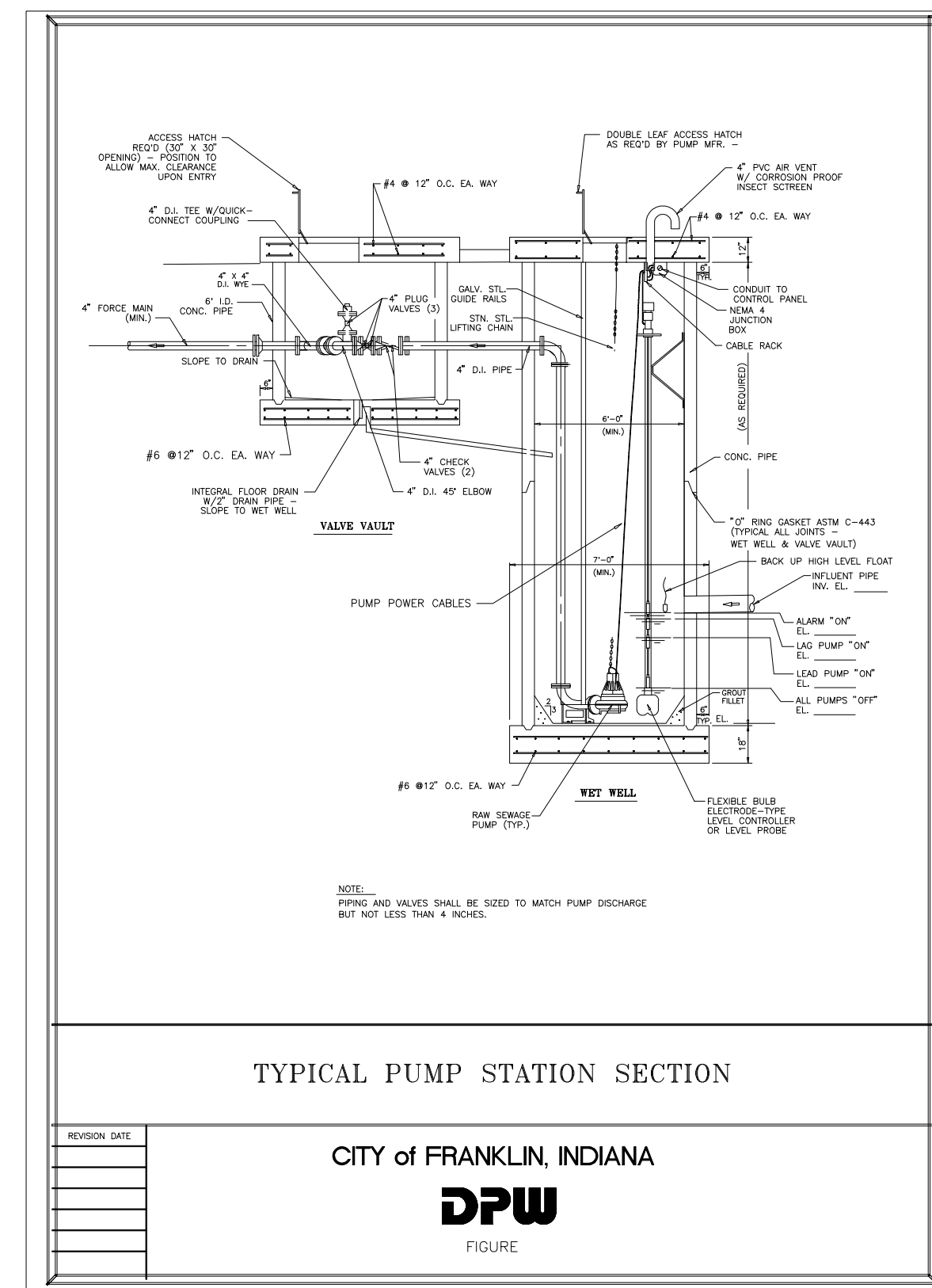


Illustration 6-1

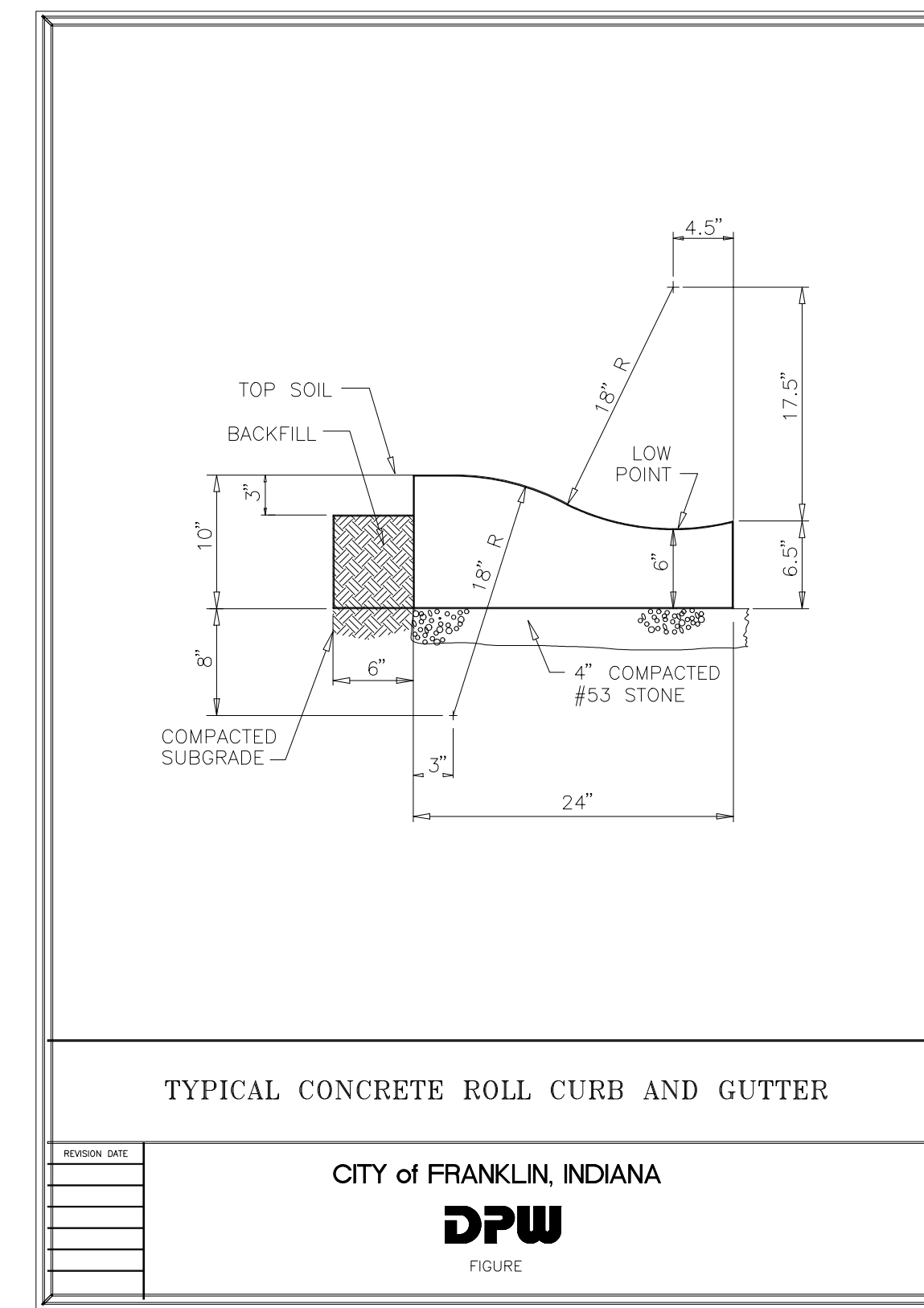


Illustration 8-3

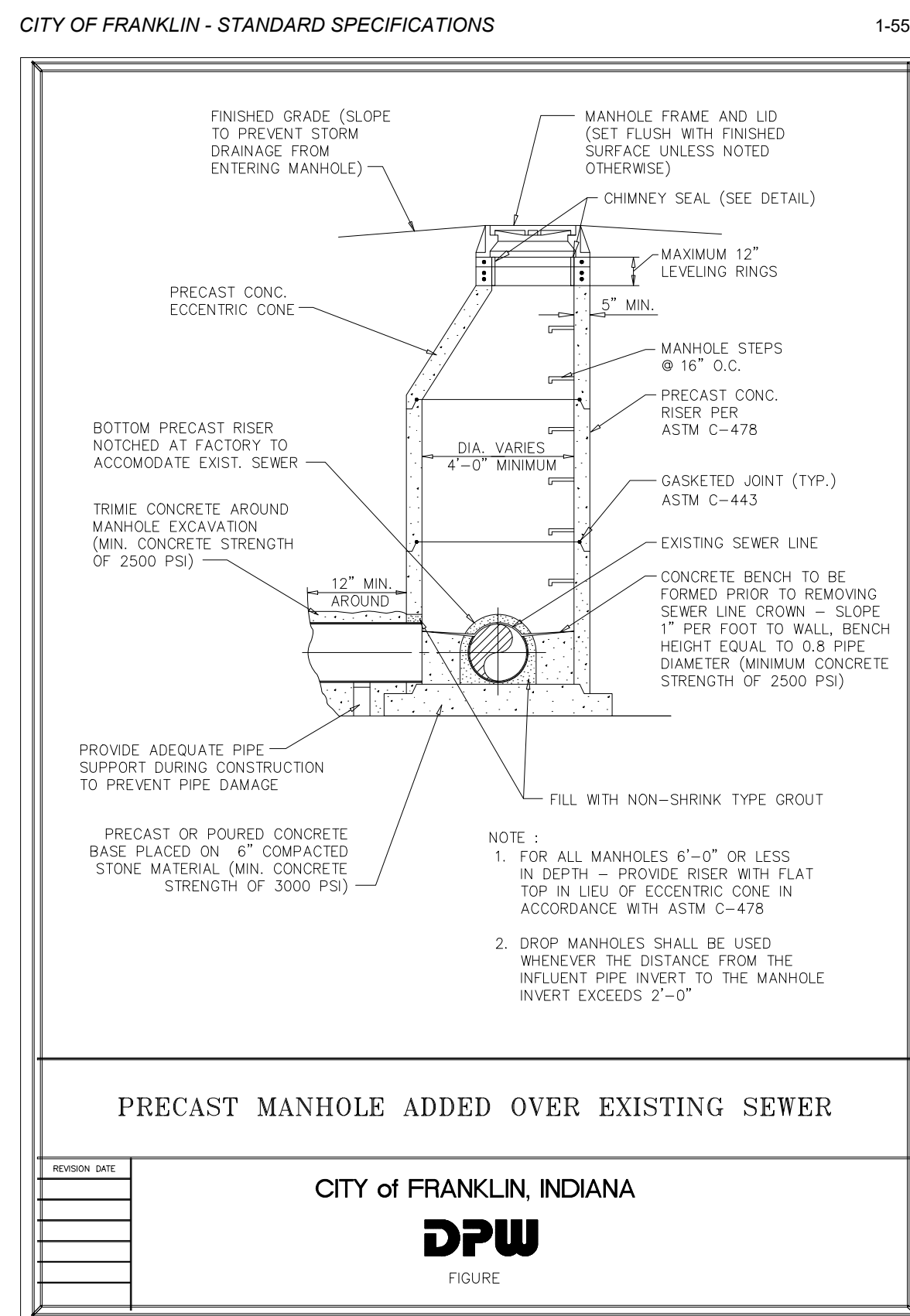


Illustration 5-2

CITY OF FRANKLIN - STANDARD SPECIFICATIONS

1-55

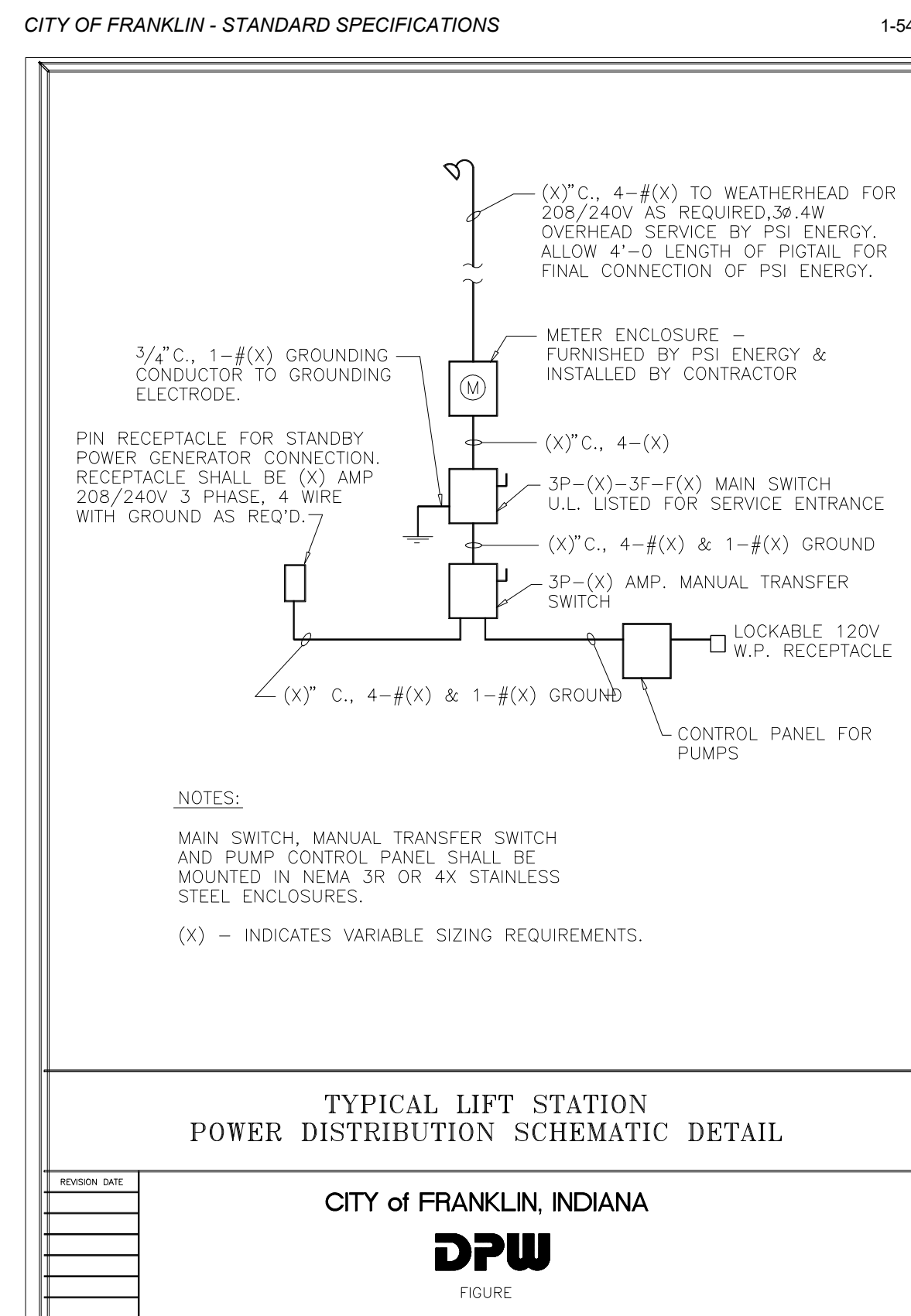


Illustration 6-4

CITY OF FRANKLIN - STANDARD SPECIFICATIONS

1-54

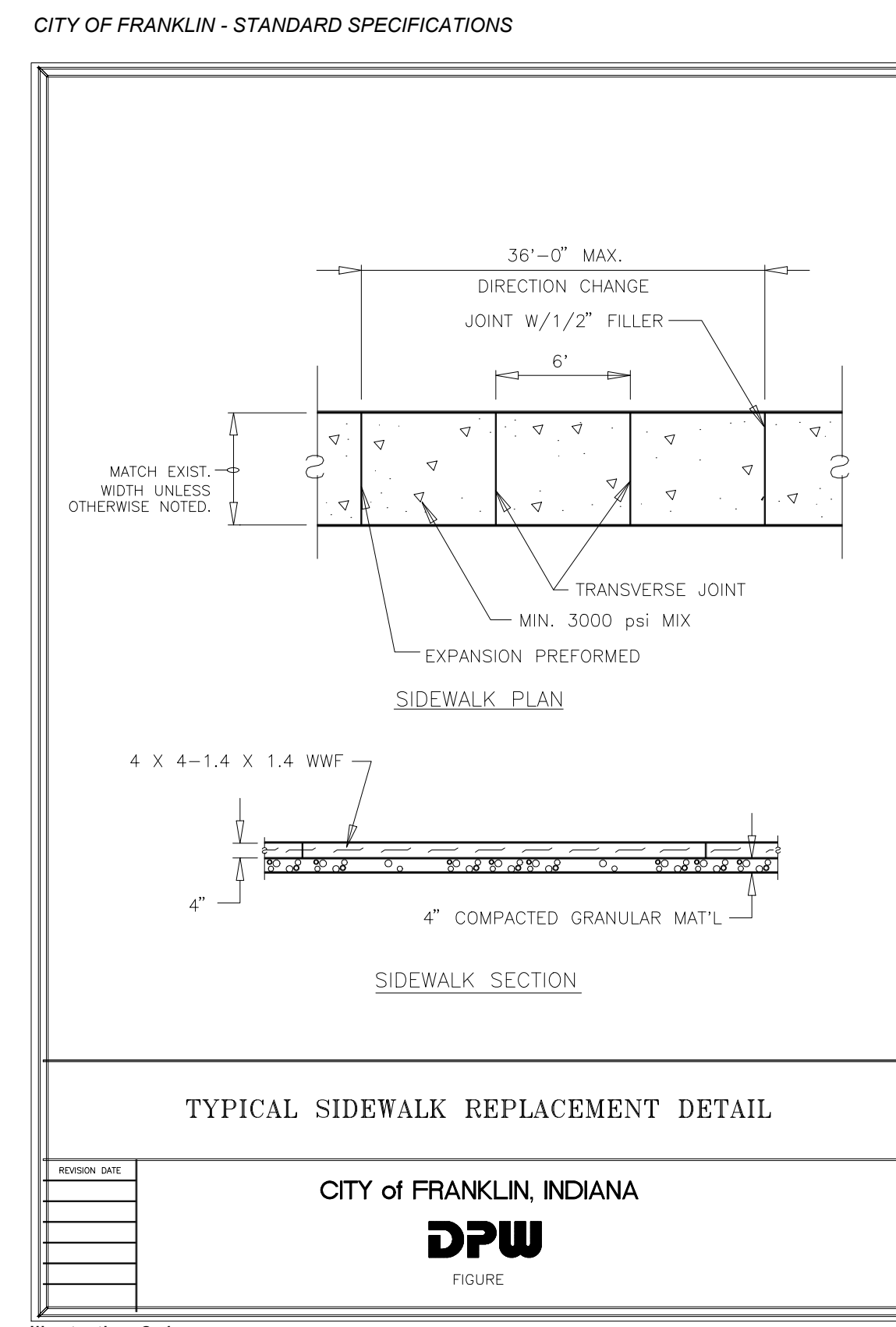


Illustration 8-4

CITY OF FRANKLIN - STANDARD SPECIFICATIONS

1-83

PROFESSIONAL SEAL



NOTICE
THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.

DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

SCALE: AS NOTED
DRWN.: VG
CHKD.: AMM
APPD.:
APPD.:
DATE : 10/10/24

Quad Plus
Cooper & Associates, LLC
Engineers - Project Managers
2200 Ellis Road, New Lenox, Illinois, 60451
Ph. (844) 251-7823 www.quadplus.com

Kimley»Horn

©2024 KIMLEY-HORN AND ASSOCIATES, INC.
500 EAST 96TH STREET, SUITE 300,
INDIANAPOLIS, IN 46240
PHONE: 317-218-9560
WWW.KIMLEY-HORN.COM
KHA PROJECT # 170509000

Malarkey
Roofing Products®

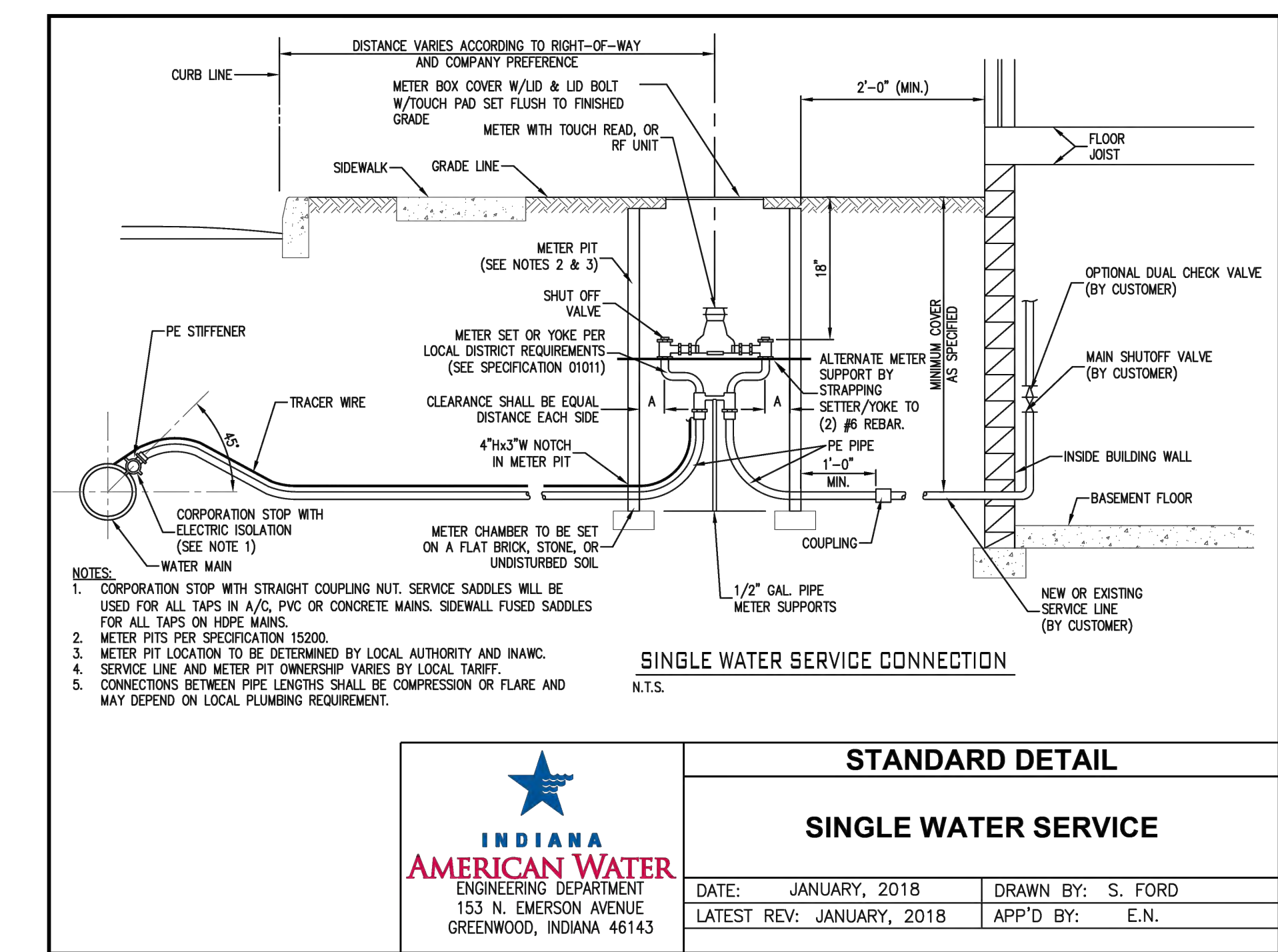
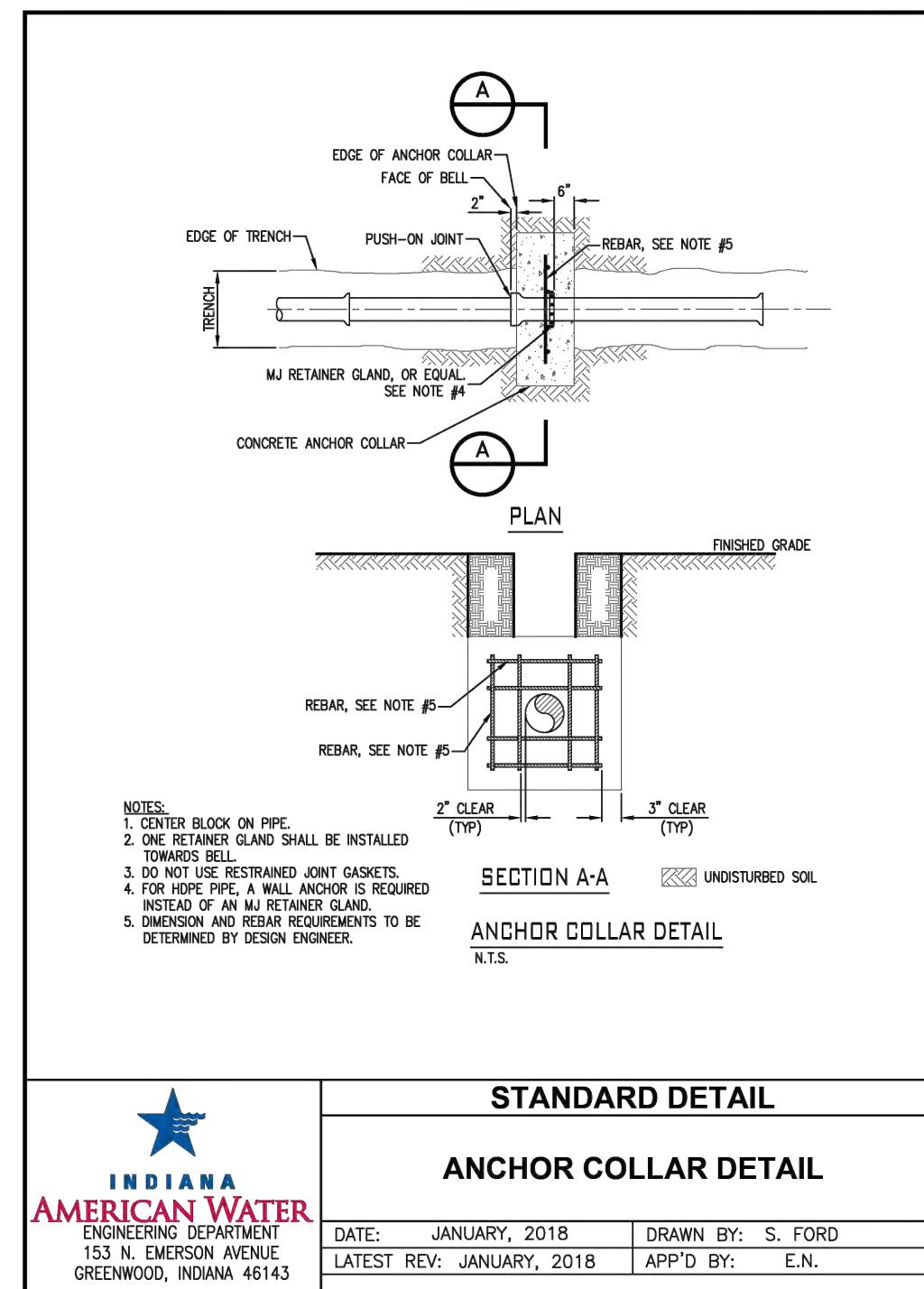
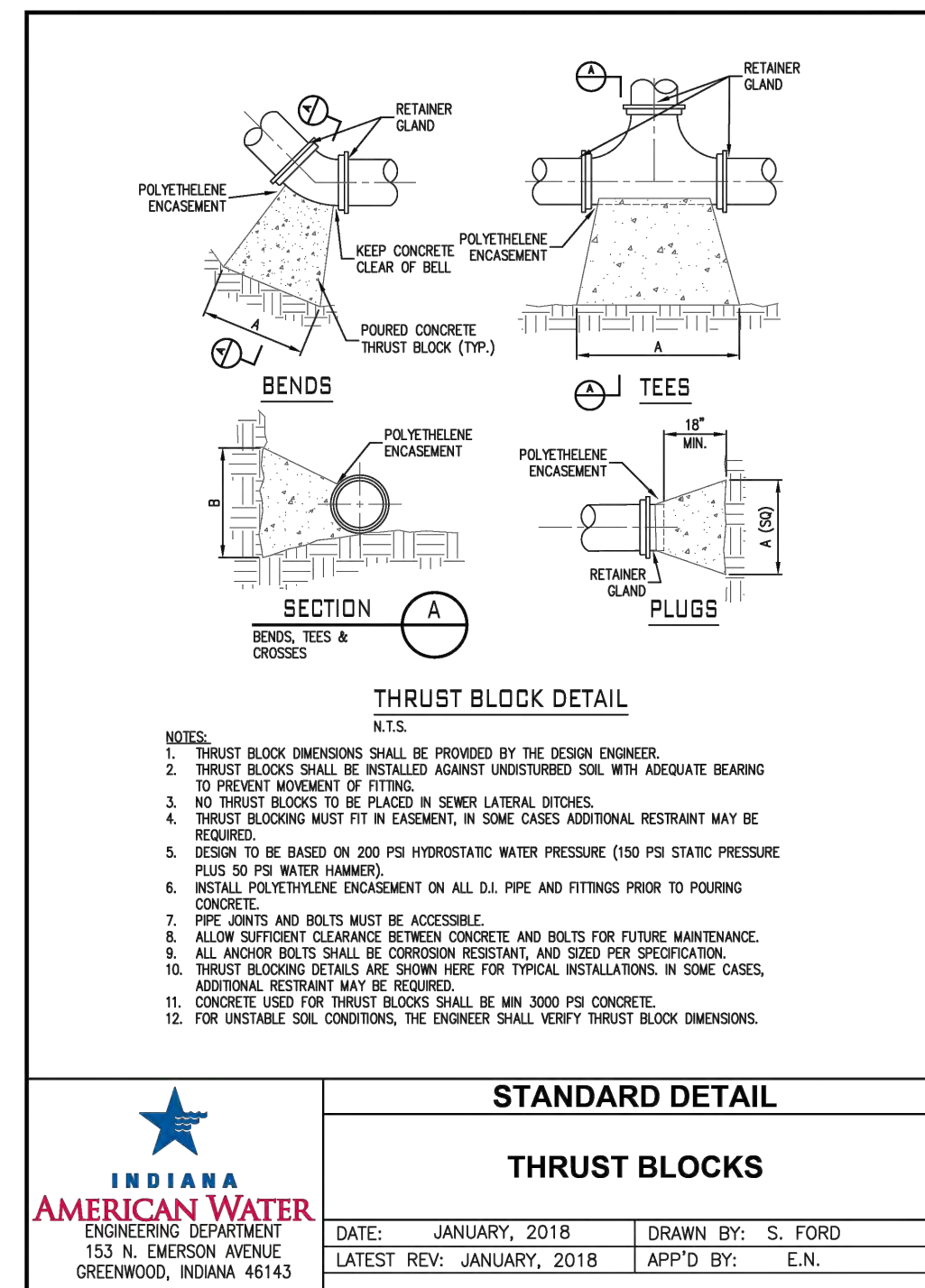
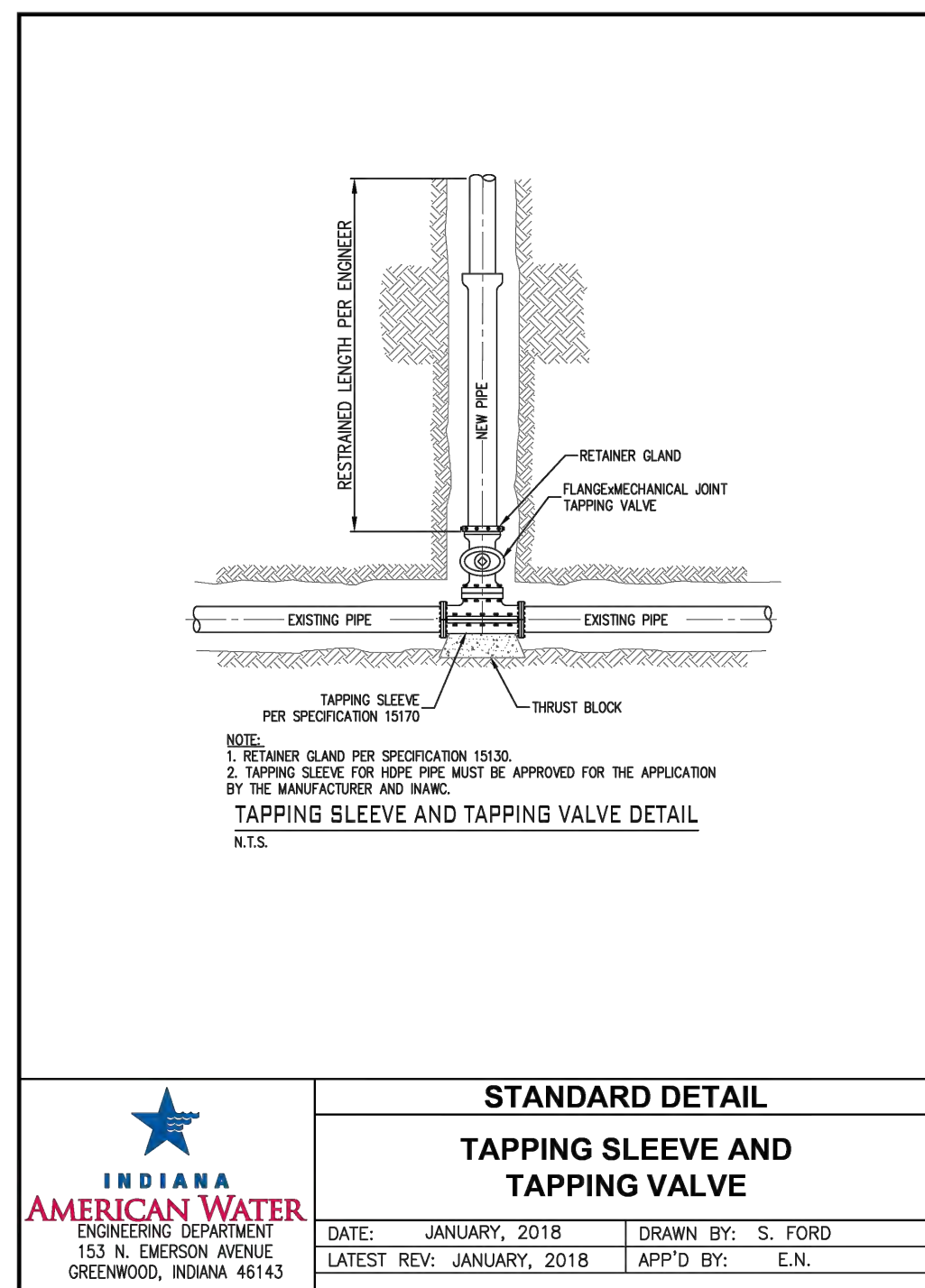
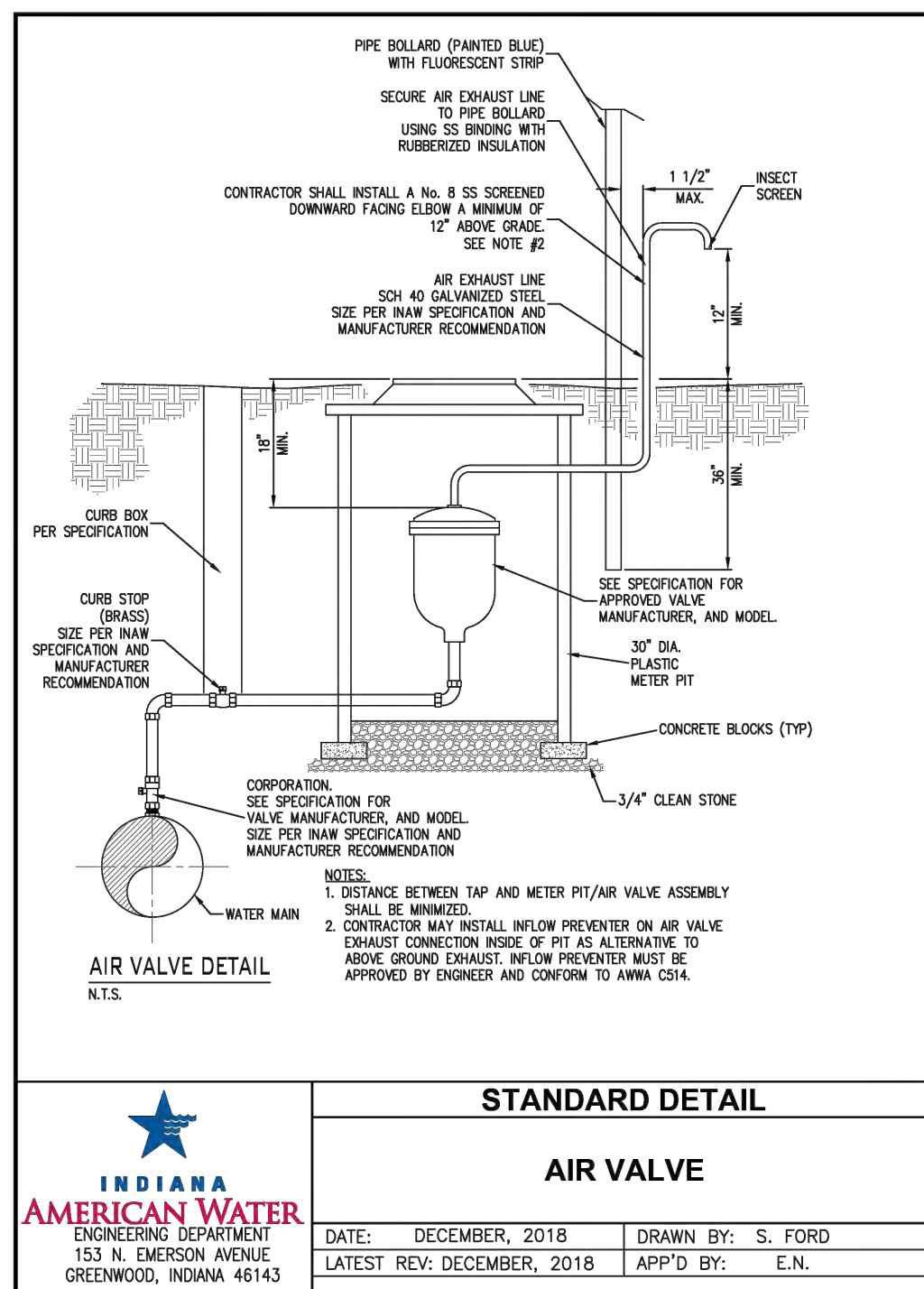
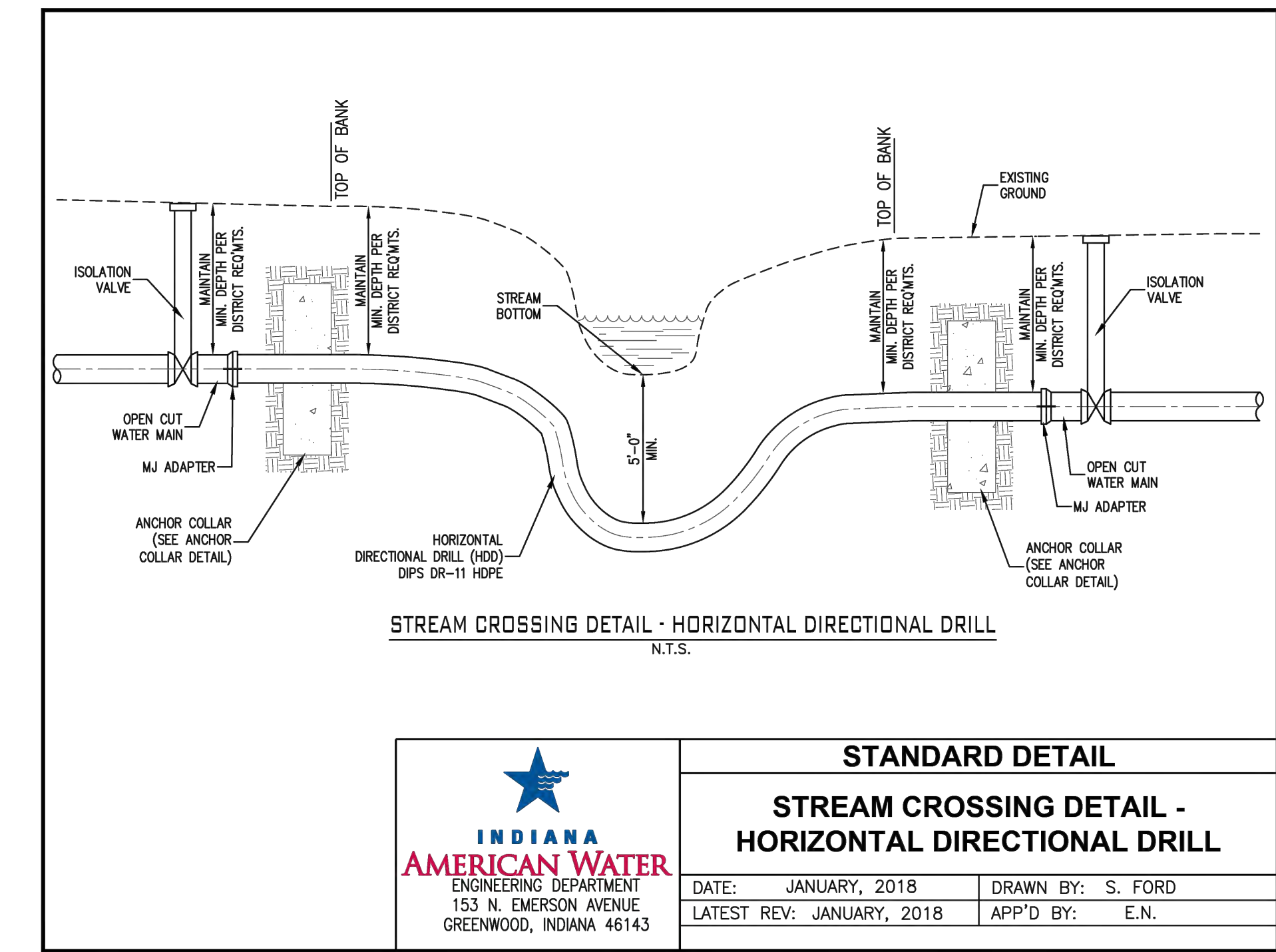
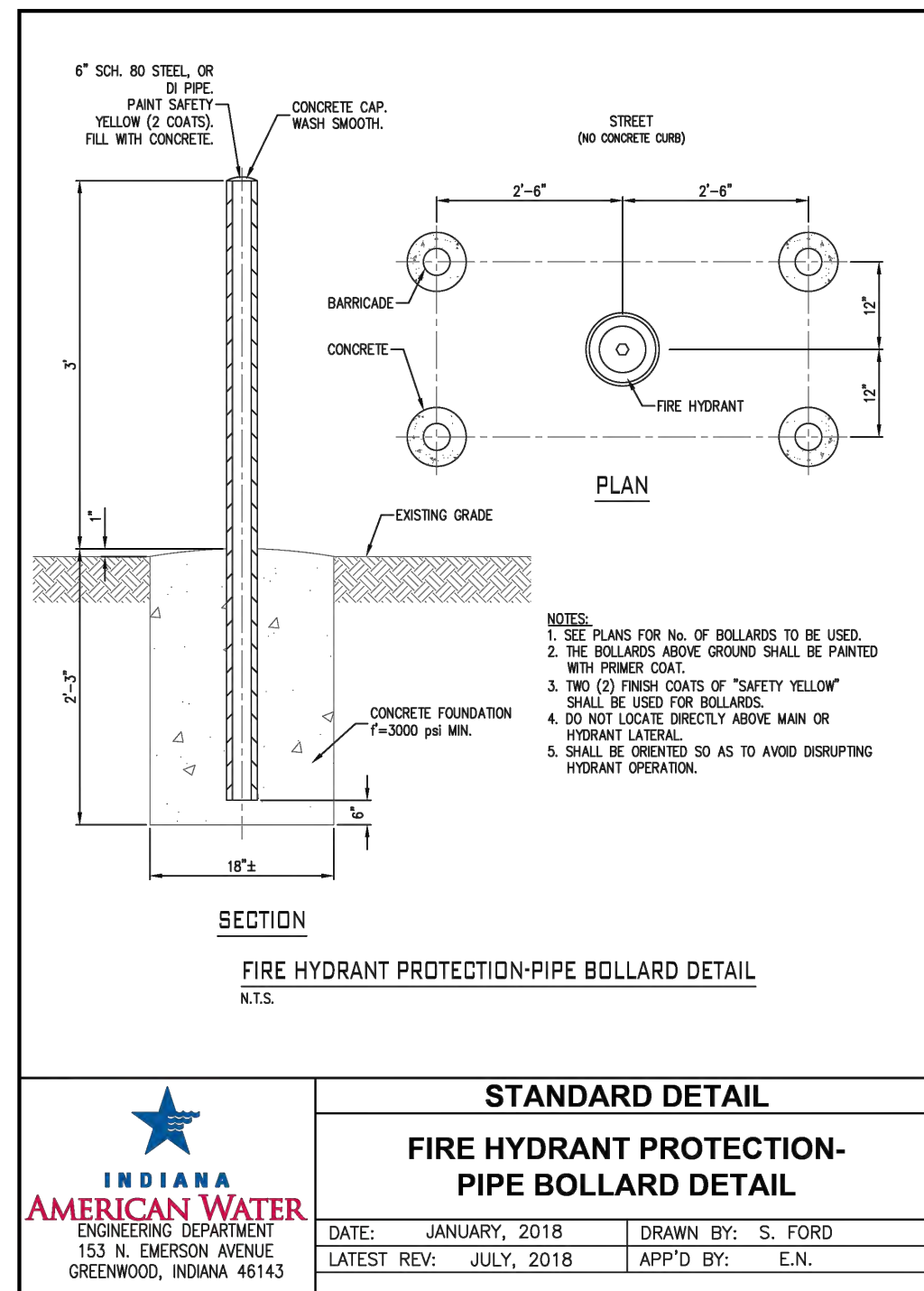
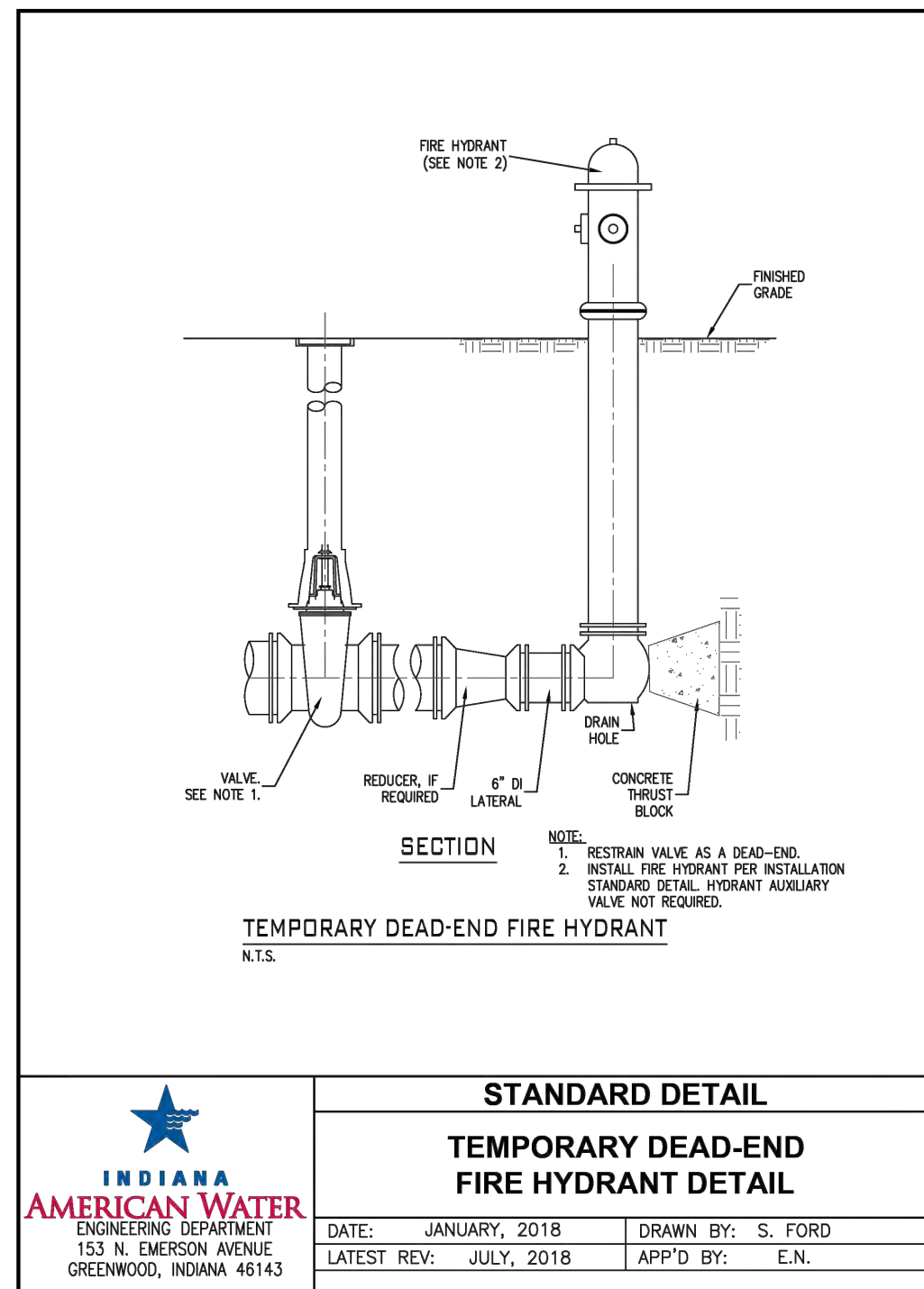
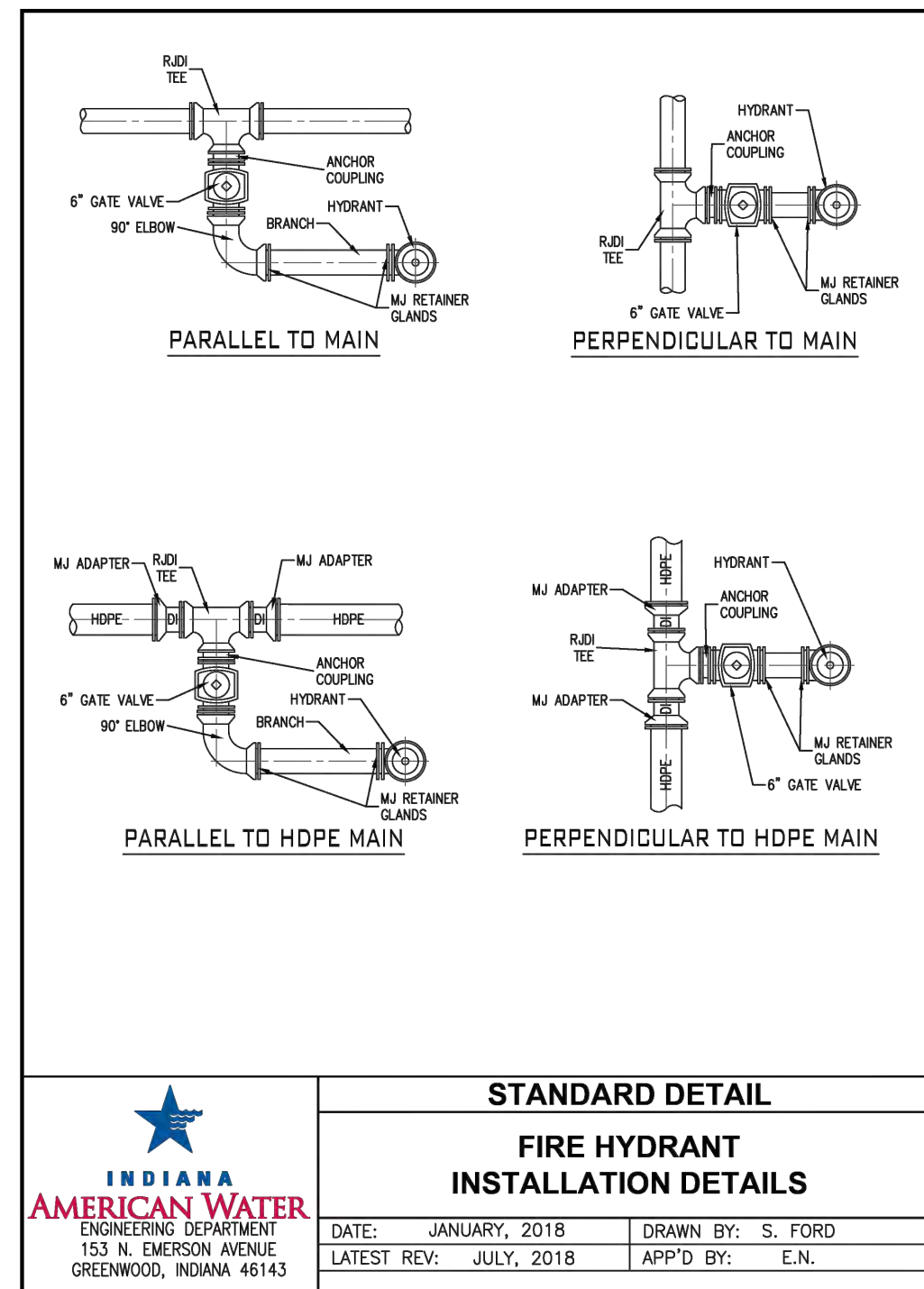
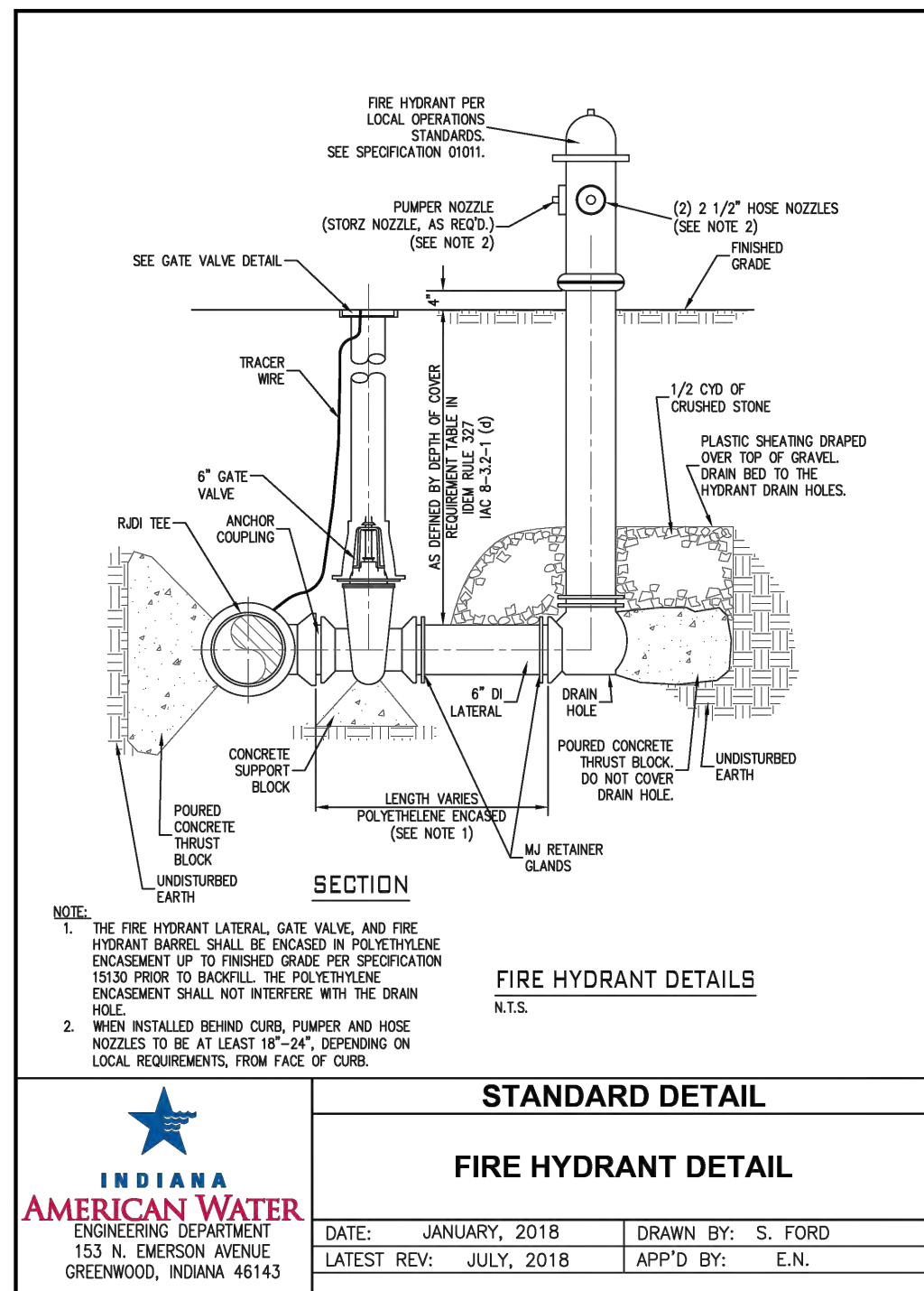
MALARKEY,IND FRANKLIN,IN

PROJ. NO. 170509000
DWG. NO. 2705
SHEET 0

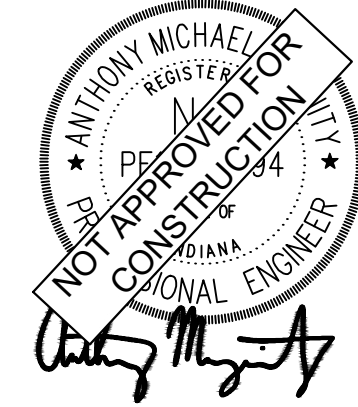
TITLE- PHASE 2 - FINAL BUILDOUT CONSTRUCTION DETAILS

This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND_DEV\170509000_Cooper&Associates_Plant_FRANKLIN_IN\Design\DWG\PlanSheets\Site Improvements\710-CONSTRUCTION DETAILS.dwg 2705 Oct 10, 2024 11:40am by AnthonyMagnifico

This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND\REV\170509000_Cooper&Associates_Plan04_Site Improvements\170509000-CONSTRUCTION DETAILS.dwg 2706 Oct 10, 2024 11:40am by AnthonyMagnity



PROFESSIONAL SEAL



NOTICE

THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.

DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

SCALE: AS NOTED

DRWN.: VG

CHKD.: AMM

APPD.: [Signature]

APPD.: [Signature]

DATE: 10/10/24



Engineers - Project Managers
2200 Ellis Road, New Lenox, Illinois, 60451
Ph. (844) 251-7823 www.quadplus.com



MALARKEY,IND FRANKLIN,IN

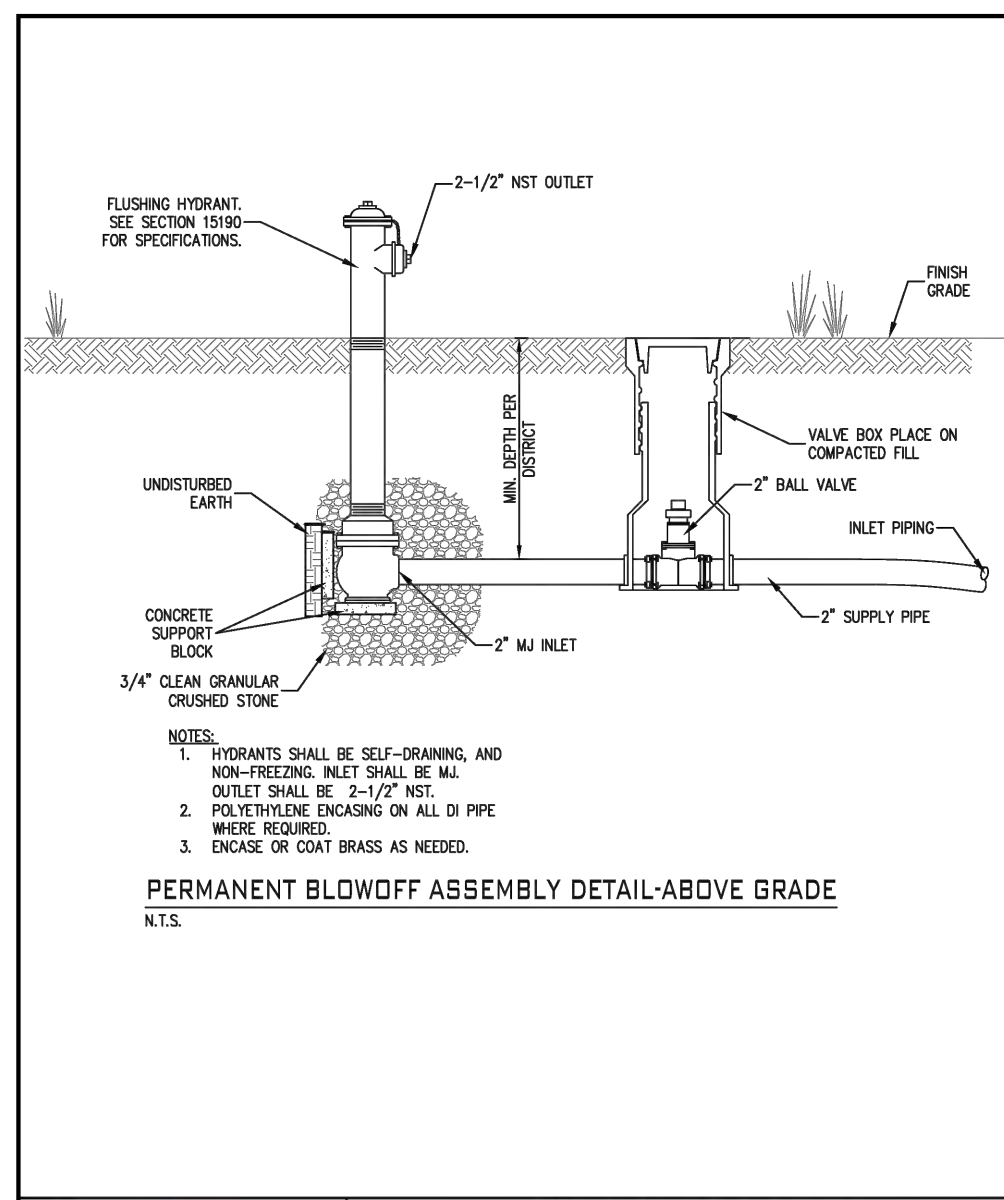
TITLE - PHASE 2 - FINAL BUILDOUT CONSTRUCTION DETAILS

PROJ. NO.	170509000
DWG. NO.	2706
SHEET	0

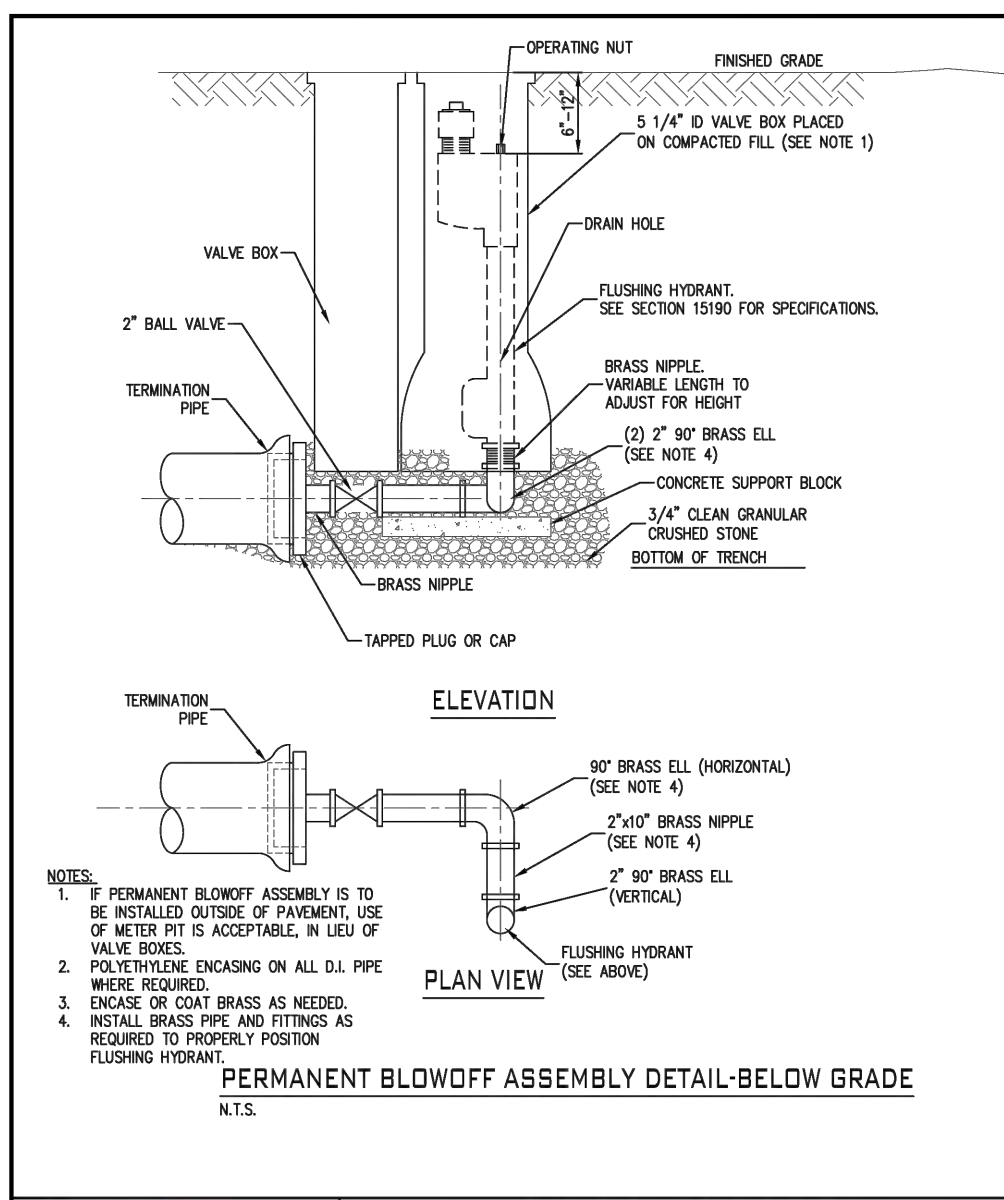
Kimley»Horn

©2024 KIMLEY-HORN AND ASSOCIATES, INC.
504 EAST 96TH STREET, SUITE 300,
INDIANAPOLIS, IN 46240
PHONE: 317-218-9560
WWW.KIMLEY-HORN.COM
KHA PROJECT # 170509000

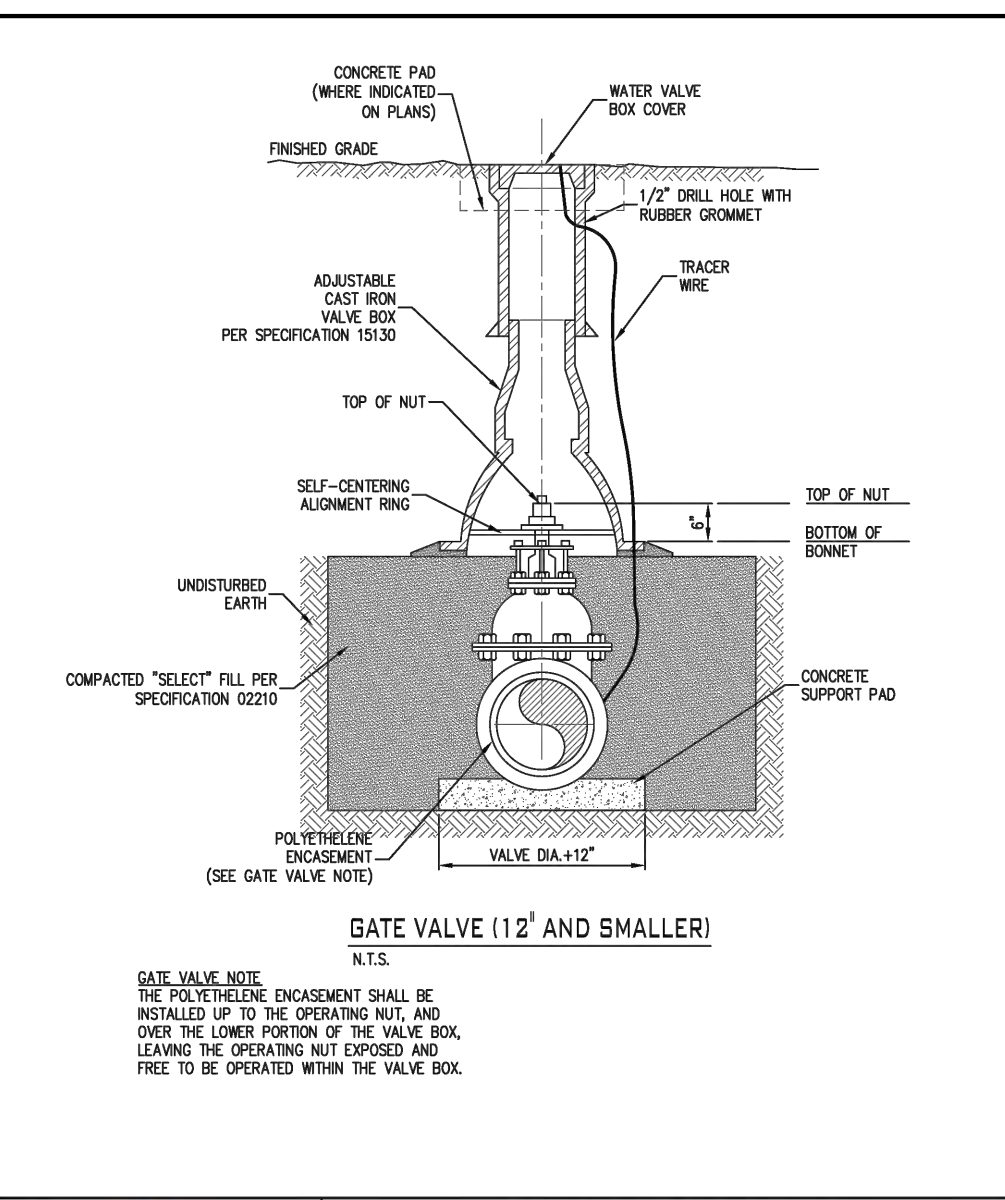
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND\DEV\170509000_Cooper&Associates_Plan\IND_Site Improvements\170509000-CONSTRUCTION DETAILS.dwg 2707 Oct 10, 2024 11:40am by AnthonyMagnifico



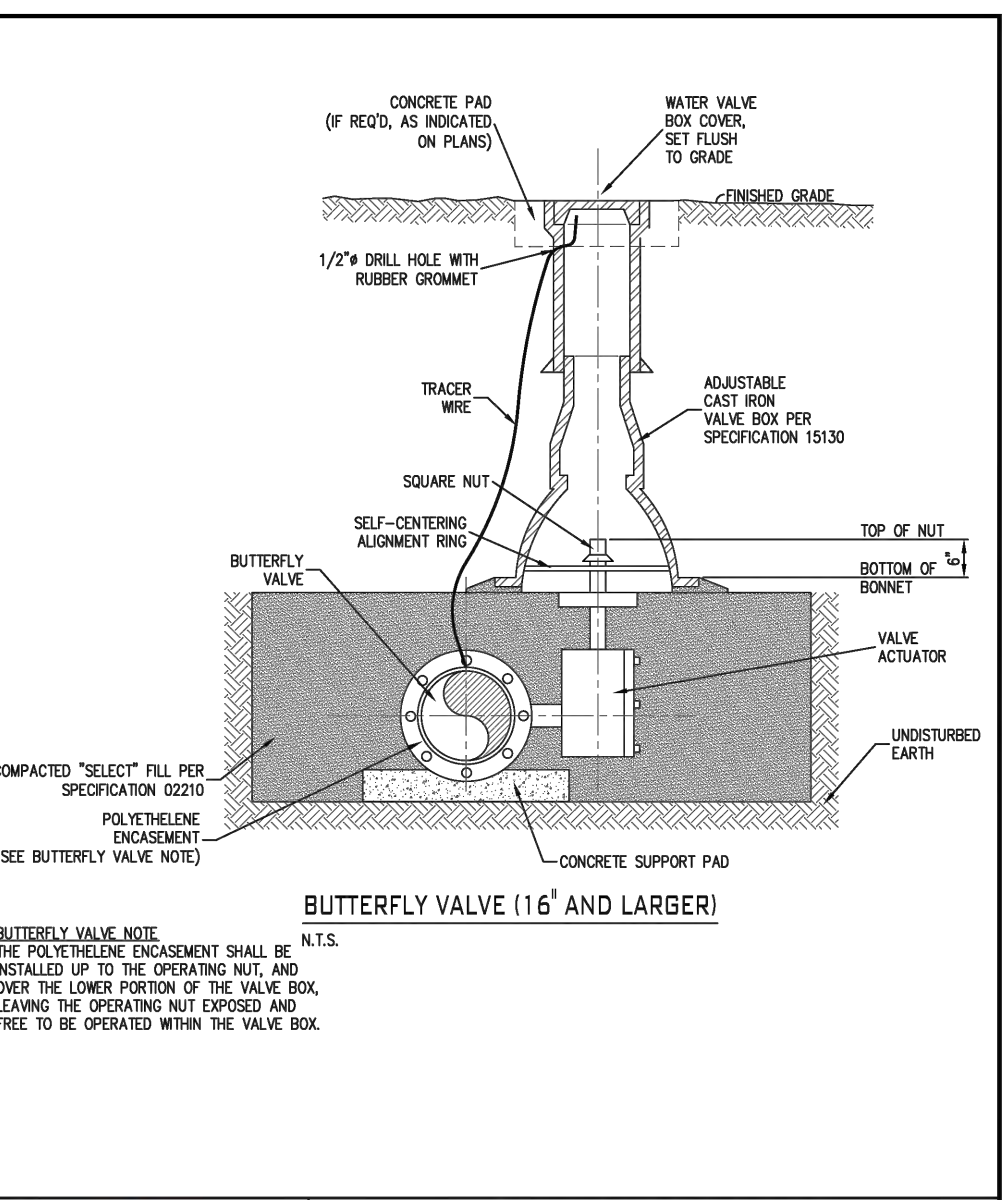
	STANDARD DETAIL	
	PERMANENT BLOWOFF ASSEMBLY DETAIL-ABOVE GRADE	
	DATE: JANUARY, 2018	DRAWN BY: S. FORD
	LATEST REV: JANUARY, 2018	APP'D BY: E.N.



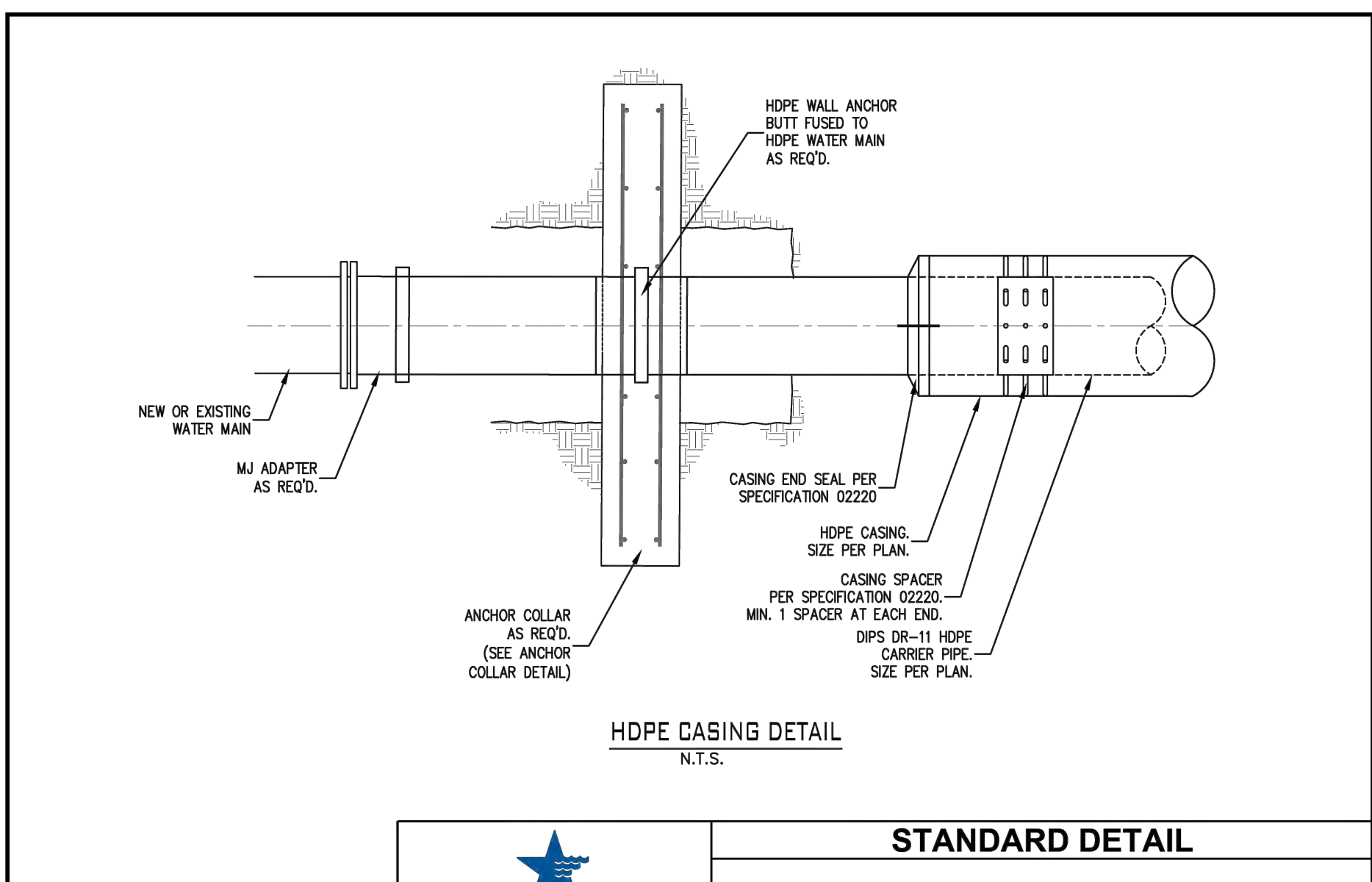
	STANDARD DETAIL	
	PERMANENT BLOWOFF ASSEMBLY DETAIL-BELOW GRADE	
	DATE: JANUARY, 2018	DRAWN BY: S. FORD
	LATEST REV: JULY, 2018	APP'D BY: E.N.



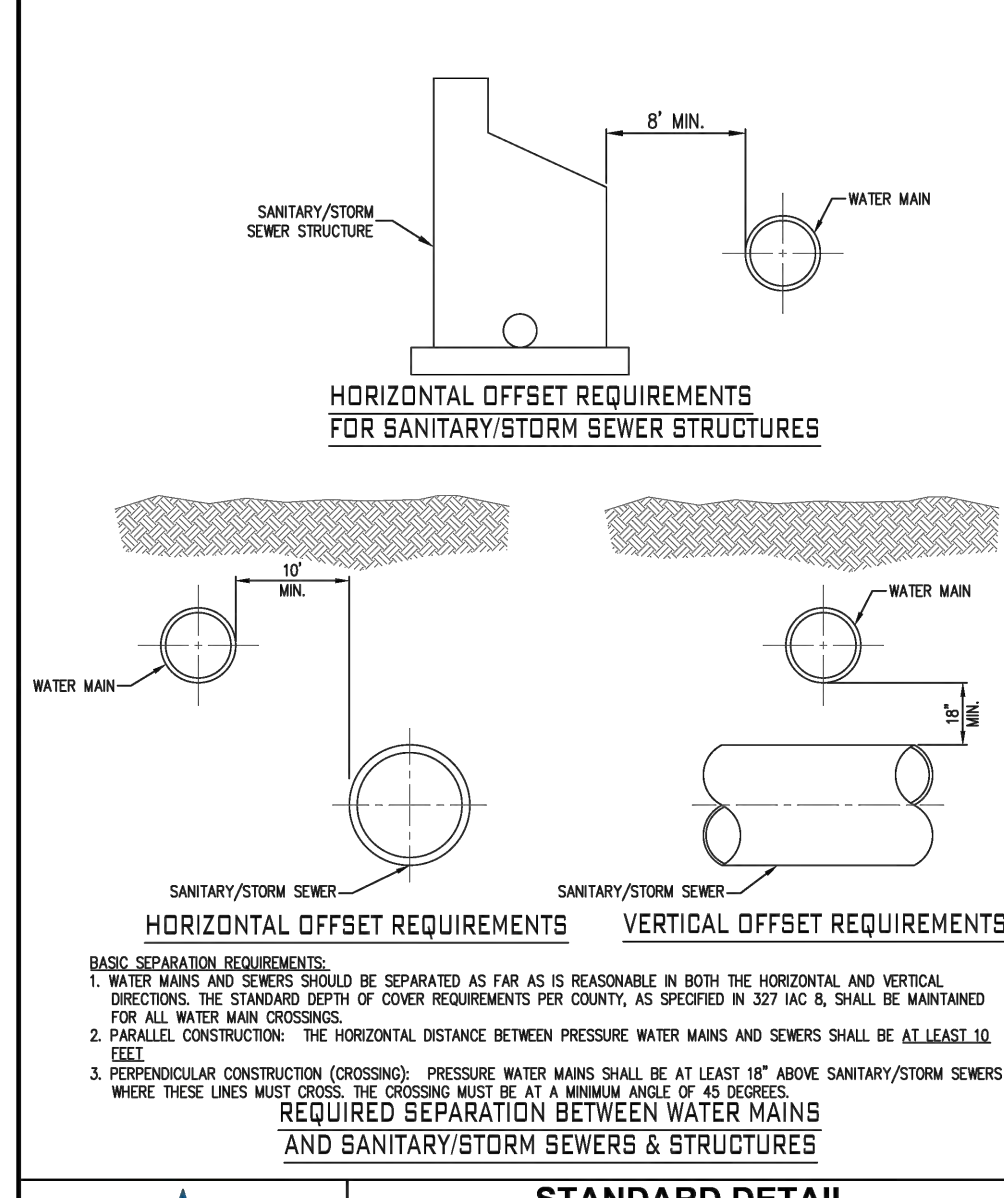
	STANDARD DETAIL	
	GATE VALVE (12\"/> 	
	DATE: JANUARY, 2018	DRAWN BY: S. FORD
	LATEST REV: JANUARY, 2018	APP'D BY: E.N.



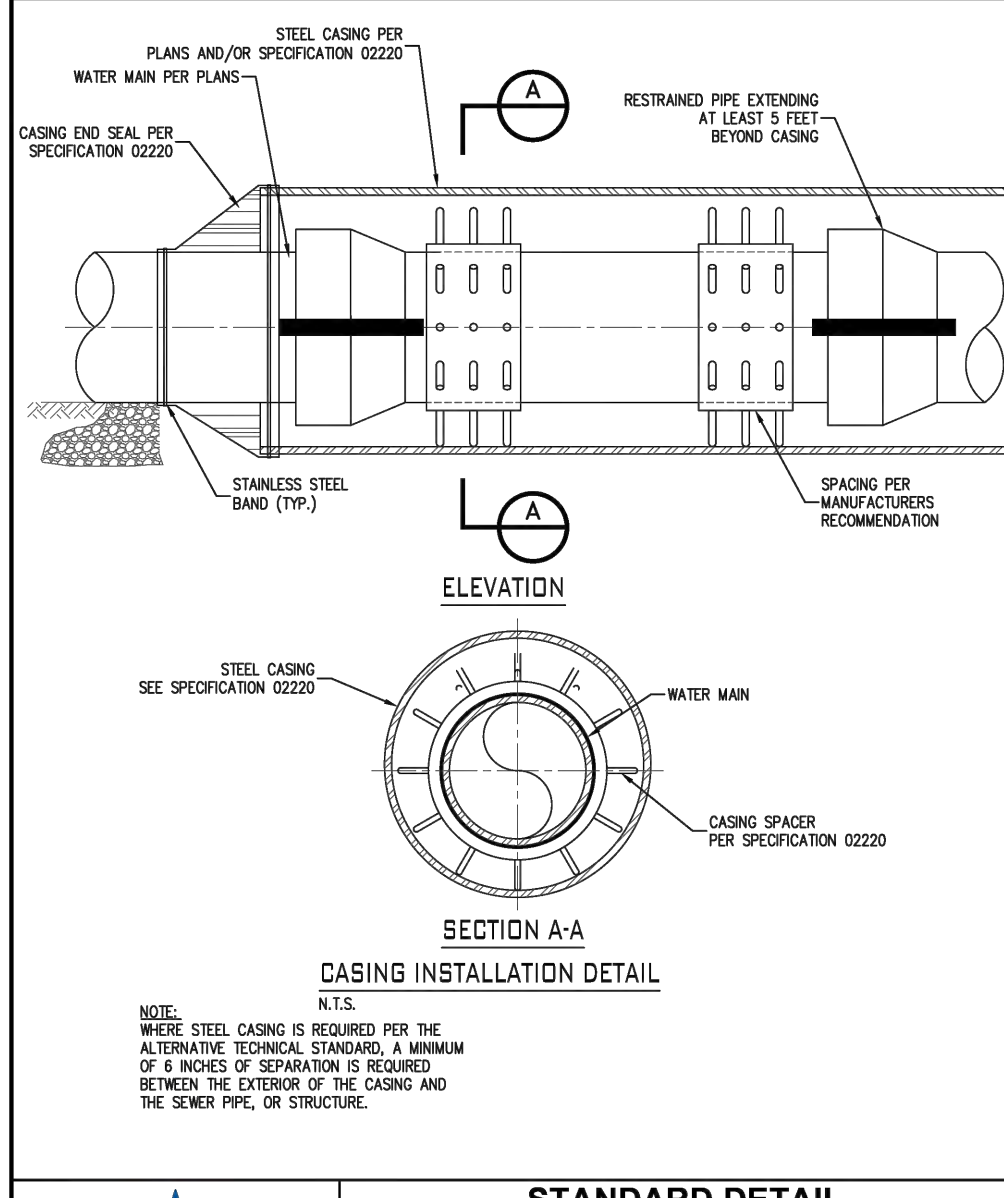
	STANDARD DETAIL	
	BUTTERFLY VALVE (16\"/> 	
	DATE: JANUARY, 2018	DRAWN BY: S. FORD
	LATEST REV: JANUARY, 2018	APP'D BY: E.N.



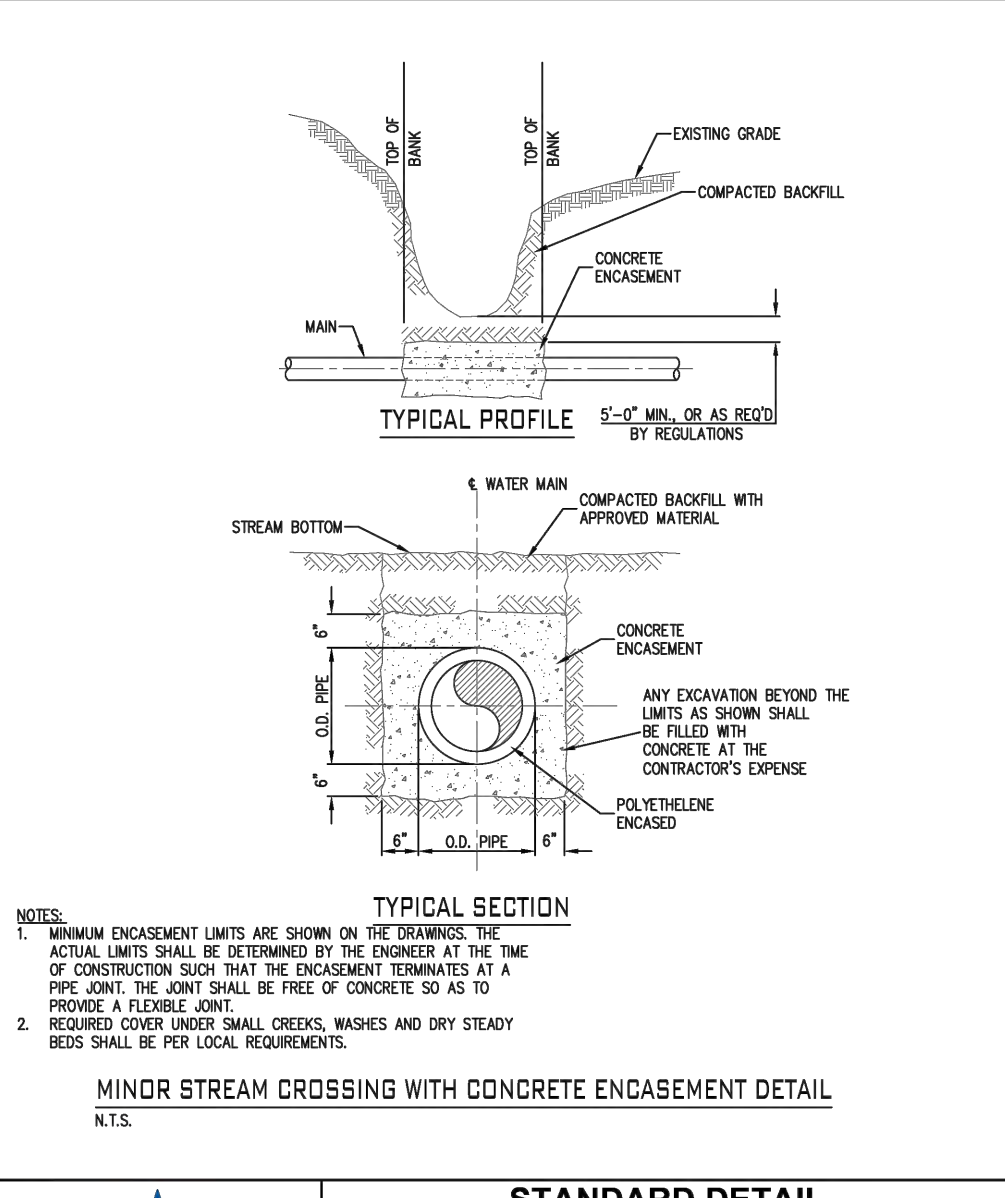
	STANDARD DETAIL	
	HDPE CASING DETAIL	
	DATE: SEPTEMBER, 2019	DRAWN BY: S. FORD
	LATEST REV: SEPTEMBER, 2019	APP'D BY: E.N.



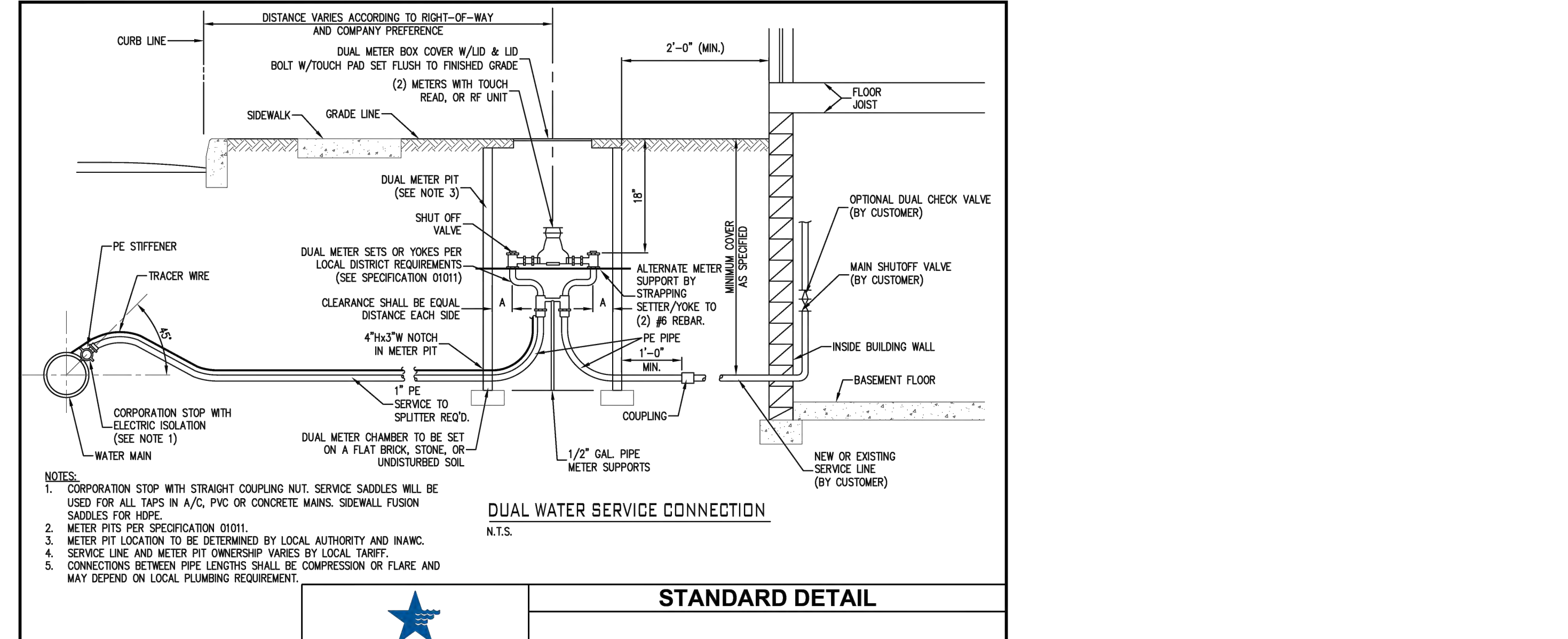
	STANDARD DETAIL	
	SEWER SEPARATION	
	DATE: JANUARY, 2018	DRAWN BY: S. FORD
	LATEST REV: JULY, 2018	APP'D BY: E.N.



	STANDARD DETAIL	
	CASING INSTALLATION	
	DATE: JANUARY, 2018	DRAWN BY: S. FORD
	LATEST REV: JANUARY, 2018	APP'D BY: E.N.



	STANDARD DETAIL	
	MINOR STREAM CROSSING WITH CONCRETE ENCASUREMENT	
	DATE: JANUARY, 2018	DRAWN BY: S. FORD
	LATEST REV: JANUARY, 2018	APP'D BY: E.N.



	STANDARD DETAIL	
	DUAL WATER SERVICE	
	DATE: JANUARY, 2018	DRAWN BY: S. FORD
	LATEST REV: JANUARY, 2018	APP'D BY: E.N.



NOTICE
 THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.
 DWG SIZE: 36" x 24"

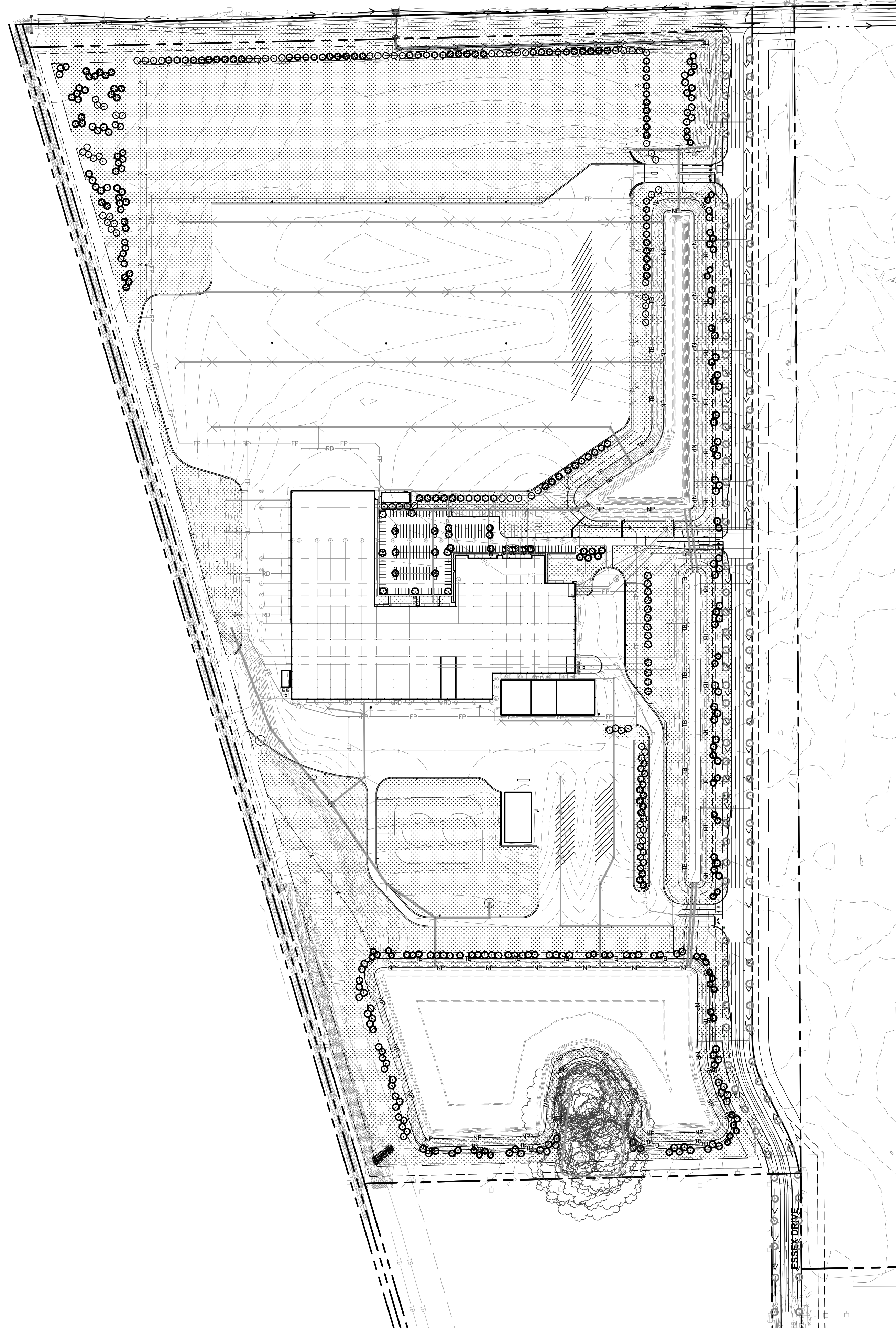
REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

Quad Plus
 Cooper & Associates, LLC
 Engineers - Project Managers
 2200 Ellis Road, New Lenox, Illinois, 60451
 Ph. (844) 251-7823 www.quadplus.com

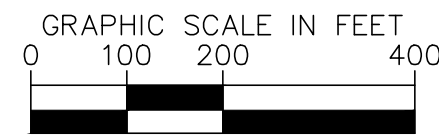
MALARKEY,IND FRANKLIN,IN
 PHASE 2 - FINAL BUILDOUT CONSTRUCTION DETAILS
 PROJ. NO. 170509000
 DWG. NO. 2707
 SHEET 0

PAUL HAND BOULEVARD
(C.R. 400 N)

Indiana Utilities Protection Service



This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND\DEV\170509000_Cooper&Associates_Plant\IND_Site_Improvements\170-LANDSCAPE_PLAN.dwg 2800 Oct 10, 2024 1:46pm By: AnthonyMagarity



PROFESSIONAL SEAL



NOTICE
THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.

DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

Quad Plus
Cooper & Associates, LLC

Engineers – Project Managers
2200 Ellis Road, New Lenox, Illinois, 60451
Ph. (844) 251-7823 www.quadplus.com

Kimley»Horn
©2024 KIMLEY-HORN AND ASSOCIATES, INC.
500 EAST 96TH STREET, SUITE 300,
INDIANAPOLIS, IN 46240
PHONE: 317-218-9560
WWW.KIMLEY-HORN.COM
KHA PROJECT # 170509000

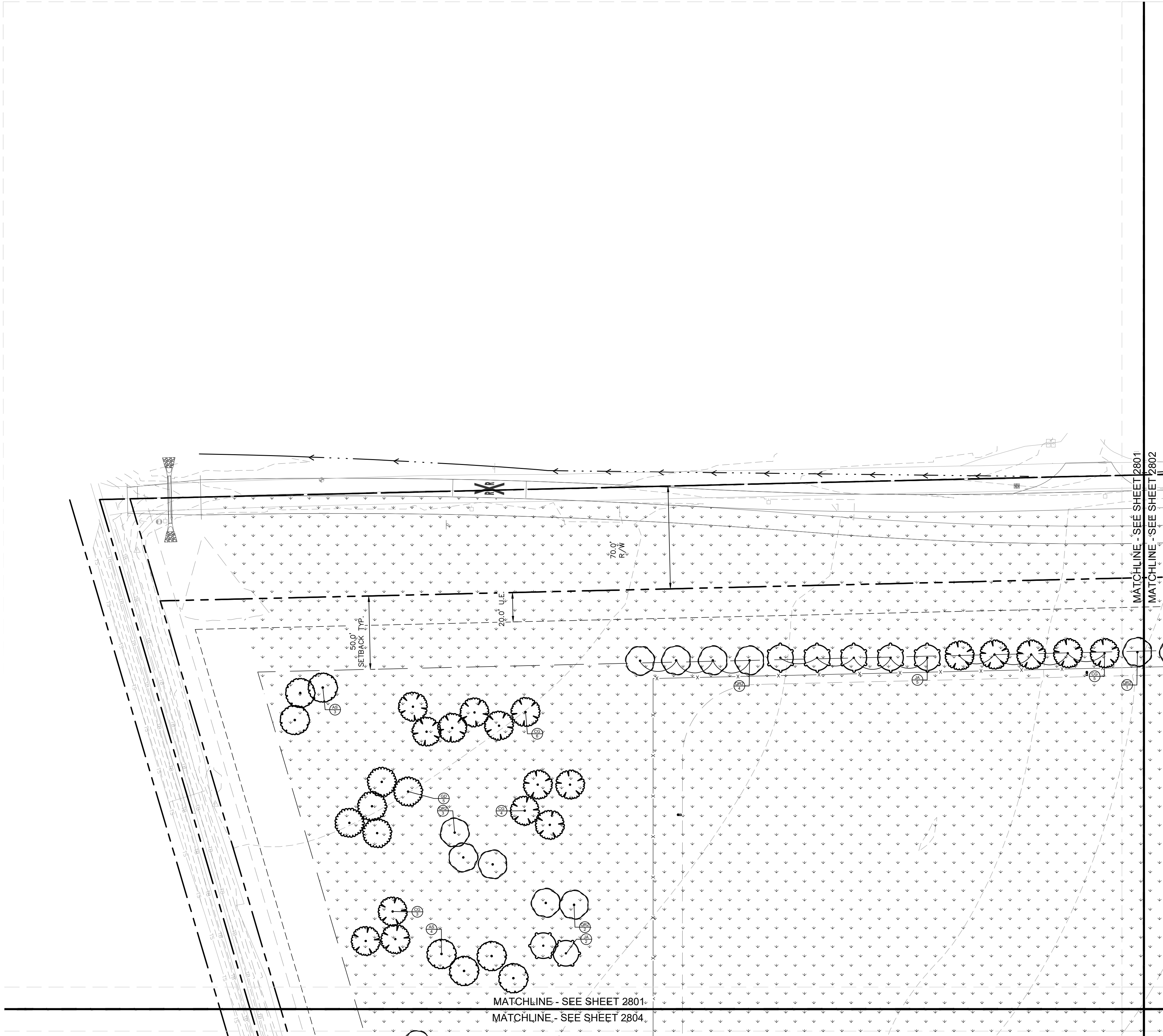
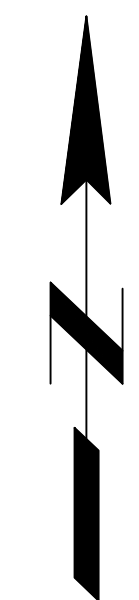
Malarkey Roofing Products

MALARKEY,IND FRANKLIN,IN

PHASE 2 – FINAL BUILDOUT
OVERALL LANDSCAPE PLAN

PROJ. NO.	170509000
DWG. NO.	2800
SHEET	0
REV	0

This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND_DEV\170509000_Cooper&Associates_Planting_Framlin_IN\2 Design\CD\00\PlanSheets\00-LANDSCAPE PLAN.dwg 2801 Oct 10, 2024 1:47pm by AnthonyMagarity

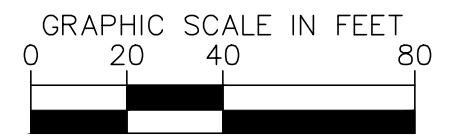


SEEDING LEGEND	
	PERMANENT SEEDING AMERITURF FRONTRUNNER BLEND TALL FESCUE; APPLY AT A RATE OF 350 LBS/ACRE (8LBS/1000 SQFT)

MULCHING LEGEND	
	MULCH HARDWOOD SHREDDED MULCH, NATURAL BROWN COLOR

PLANT SCHEDULE

CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	HT
DECIDUOUS TREES						
AR	12	ACER SACCHARUM	SUGAR MAPLE	B & B	2' CAL MIN	---
BR	7	BETULA NIGRA	RIVER BIRCH	B & B	2' CAL MIN	---
CE	16	CERCIS CANADENSIS	EASTERN REDBUD MULTI-TRUNK	B & B	2' CAL MIN	---
CF	17	CORNUS FLORIDA	FLOWERING DOGWOOD	B & B	2' CAL MIN	---
CG	69	CARYA GLABRA	FRONT HICKORY	B & B	2' CAL MIN	---
CL	42	CARYA LACINIOSA	SHELLBARK HICKORY	B & B	2' CAL MIN	---
CP	42	CRATAEGUS PHAENOPYRUM	WASHINGTON HAWTHORN	B & B	2' CAL MIN	---
GD	11	GYMNOCLADUS DIOICUS 'ESPRESSO'	KENTUCKY COFFEETREE	B & B	2' CAL MIN	---
JA	66	JUGLANS NIGRA	EASTERN BLACK WALNUT	B & B	2' CAL MIN	---
NS	7	NYSSA SILVATICA	TUPELO	B & B	2' CAL MIN	---
QRZ	73	QUERCUS RUBRA	NORTHERN RED OAK	B & B	2' CAL MIN	---
EVERGREEN TREES						
PR	45	PINUS RESINOSA	RED PINE	B & B	---	6' HT MIN
TD	10	TAXODIUM DISTICHUM	BALD CYPRESS	B & B	---	6' HT MIN
TO	41	THUJA OCCIDENTALIS	AMERICAN ARBORVITAE	B & B	---	6' HT MIN
DECIDUOUS SHRUBS						
AP	41	ARONIA MELANOCAPA	---	---	SEE PLAN	24" HT MIN



PROFESSIONAL SEAL

Elizabeth Van Sledright

NOTICE
 THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC AND IS LOANED TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.

DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

SCALE: AS NOTED
 DRWN.: VG
 CHKD.: AMM
 APPD.:
 APPD.:
 DATE : 10/10/24

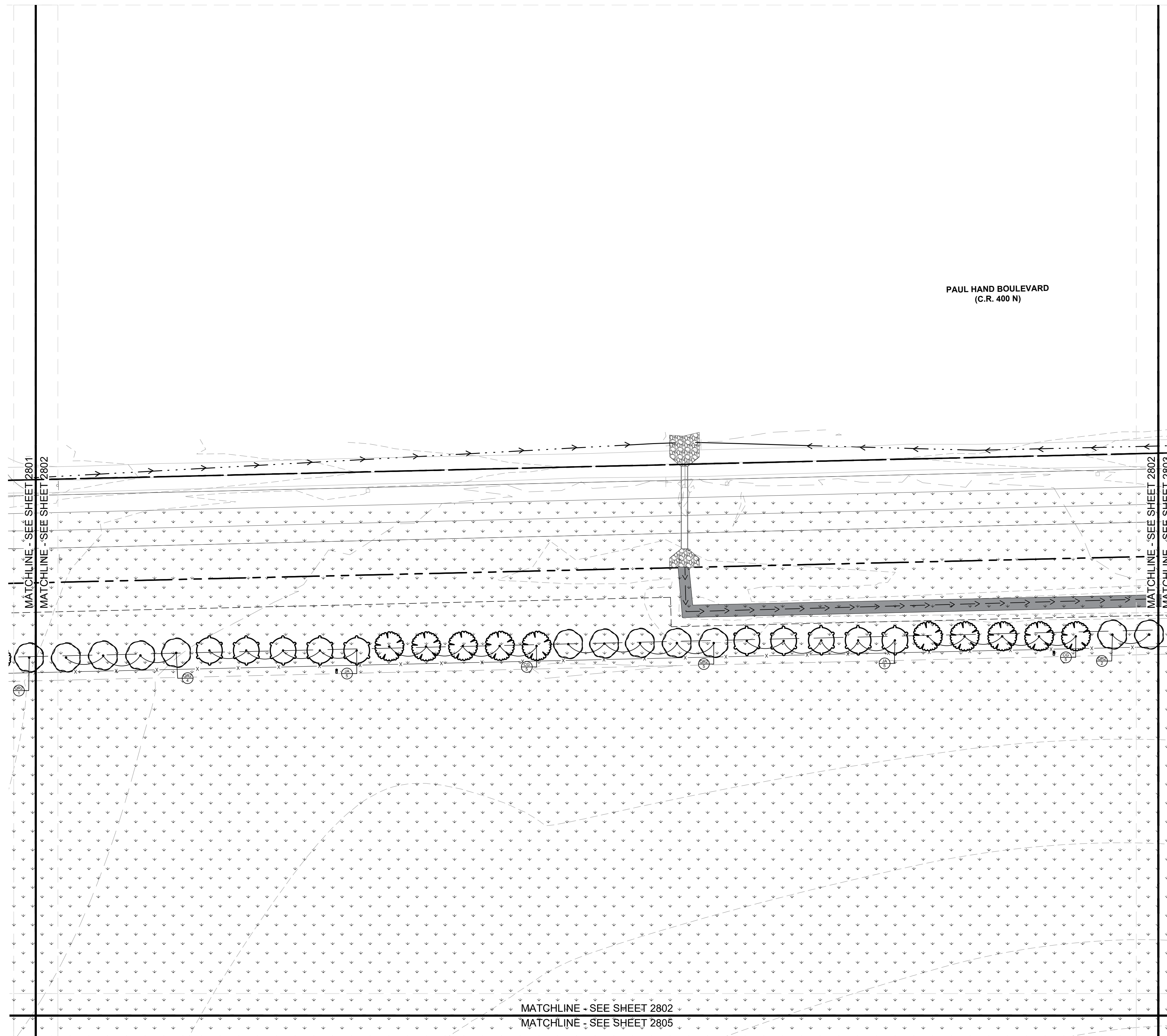
Quad Plus
 Cooper & Associates, LLC

Engineers - Project Managers
 2200 Ellis Road, New Lenox, Illinois, 60451
 Ph. (844) 251-7823 www.quadplus.com

Kimley»Horn
 ©2024 KIMLEY-HORN AND ASSOCIATES, INC.
 500 EAST 96TH STREET, SUITE 300,
 INDIANAPOLIS, IN 46240
 PHONE: 317-218-9560
 WWW.KIMLEY-HORN.COM
 KHA PROJECT # 170509000

MALARKEY,IND FRANKLIN,IN

PROJ. NO. 170509000
 DWG. NO. 2801
 SHEET 0
 TITLE - PHASE 2 - FINAL BUILDOUT LANDSCAPE PLAN



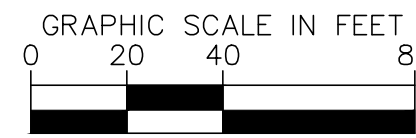
SEEDING LEGEND	
	PERMANENT SEEDING AMERITURF FRONTRUNNER BLEND TALL FESCUE; APPLY AT A RATE OF 350 LBS/ACRE (8LBS/1000 SQFT)

MULCHING LEGEND	
	MULCH HARDWOOD SHREDDED MULCH, NATURAL BROWN COLOR

PLANT SCHEDULE

CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	HT
DECIDUOUS TREES						
AR	12	ACER SACCHARUM	SUGAR MAPLE	B & B	2' CAL MIN	---
BR	7	BETULA NIGRA	RIVER BIRCH	B & B	2' CAL MIN	---
CE	16	CERCIS CANADENSIS	EASTERN REDBUD MULTI-TRUNK	B & B	2' CAL MIN	---
CF	17	CORNUS FLORIDA	FLOWERING DOGWOOD	B & B	2' CAL MIN	---
CG	69	CARYA GLABRA	FRONT HICKORY	B & B	2' CAL MIN	---
CL	42	CARYA LACINIOSA	SHELLBARK HICKORY	B & B	2' CAL MIN	---
CP	42	CRATAEGUS PHAENOPYRUM	WASHINGTON HAWTHORN	B & B	2' CAL MIN	---
GD	11	GYMNOCLADUS DIOICUS 'ESPRESSO'	KENTUCKY COFFEETREE	B & B	2' CAL MIN	---
JA	66	JUGLANS NIGRA	EASTERN BLACK WALNUT	B & B	2' CAL MIN	---
NS	7	NYSSA SILVATICA	TUPELO	B & B	2' CAL MIN	---
QRZ	73	QUERCUS RUBRA	NORTHERN RED OAK	B & B	2' CAL MIN	---
EVERGREEN TREES						
PR	45	PINUS RESINOSA	RED PINE	B & B	---	6' HT MIN
TD	10	TAXODIUM DISTICHUM	BALD CYPRESS	B & B	---	6' HT MIN
TO	41	THUJA OCCIDENTALIS	AMERICAN ARBORVITAE	B & B	---	6' HT MIN
DECIDUOUS SHRUBS						
AP	41	ARONIA MELANOCAPA	---	---	SEE PLAN	24' HT MIN

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND_DEV\170509000_Cooper&Associates_Plant_Schedule.dwg Date: 10/10/2024 1:47pm By: AnthonyMagarity



NOTICE
THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.

DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

Quad Plus
Cooper & Associates, LLC

Engineers - Project Managers
2200 Ellis Road, New Lenox, Illinois, 60451
Ph. (844) 251-7823 www.quadplus.com

Kimley»Horn
©2024 KIMLEY-HORN AND ASSOCIATES, INC.
500 EAST 96TH STREET, SUITE 300,
INDIANAPOLIS, IN 46240
PHONE: 317-218-9560
WWW.KIMLEY-HORN.COM
KHA PROJECT # 170509000

Malarkey Roofing Products

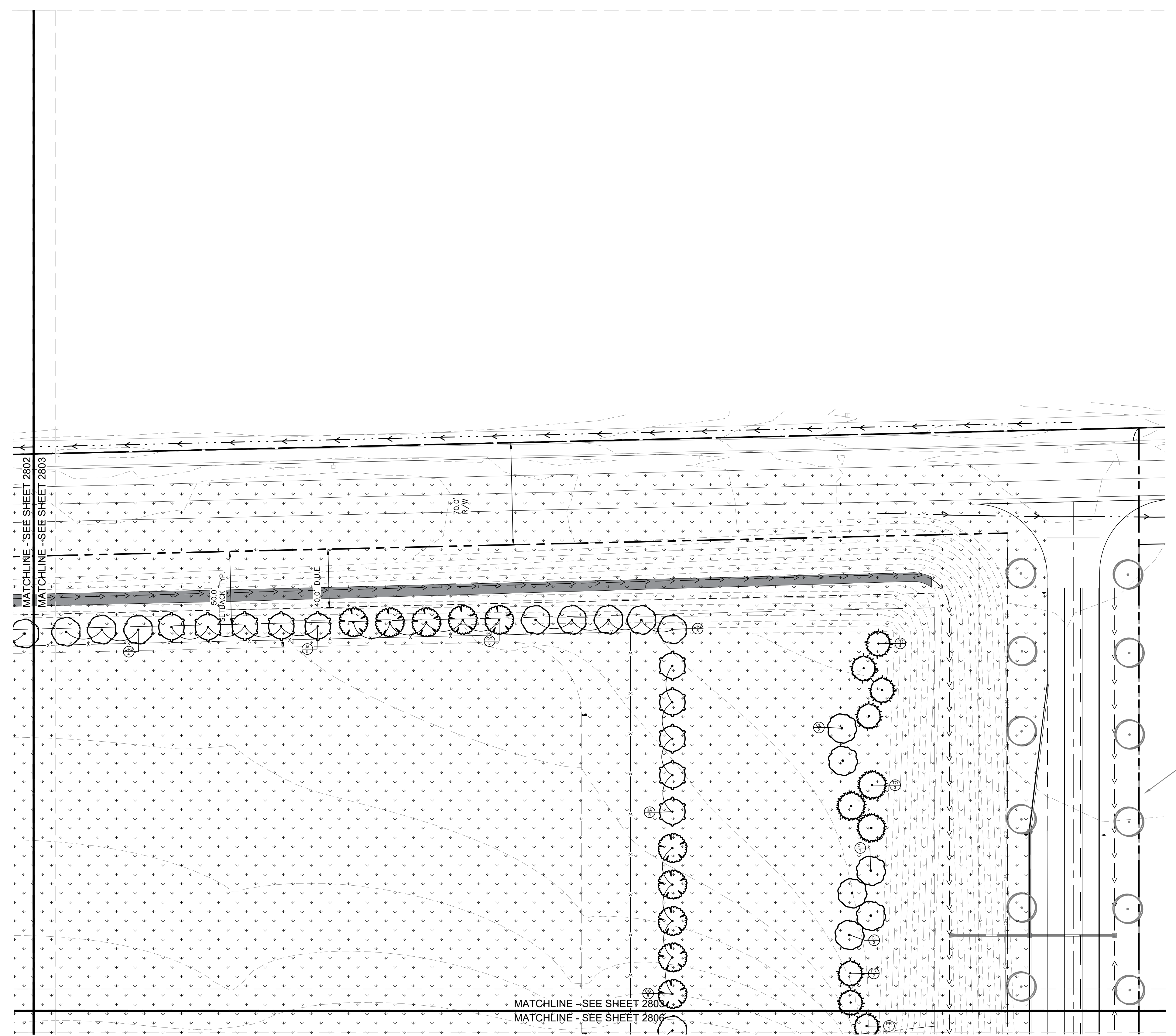
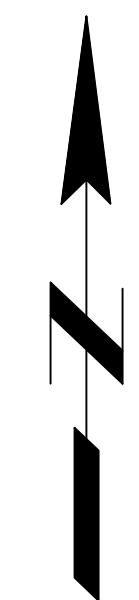
MALARKEY,IND FRANKLIN,IN

PROJ. NO. 170509000
DWG. NO. 2802

TITLE - PHASE 2 - FINAL BUILDOUT LANDSCAPE PLAN

SHEET 0

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND_DEV\170509000_Cooper&Associates_Planting_Site_Improvements\170-LANDSCAPE_PLAN.dwg 2803 Oct 10, 2024 1:47pm By: AnthonyMagarity



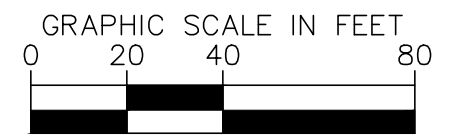
SEEDING LEGEND	
	PERMANENT SEEDING AMERITURF FRONTRUNNER BLEND TALL FESCUE; APPLY AT A RATE OF 350 LBS/ACRE (8LBS/1000 SQFT)

MULCHING LEGEND	
	MULCH HARDWOOD SHREDDED MULCH, NATURAL BROWN COLOR

PLANT SCHEDULE

CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	HT
DECIDUOUS TREES						
AR	12	ACER SACCHARUM	SUGAR MAPLE	B & B	2' CAL MIN	---
BR	7	BETULA NIGRA	RIVER BIRCH	B & B	2' CAL MIN	---
CE	16	CERCIS CANADENSIS	EASTERN REDBUD MULTI-TRUNK	B & B	2' CAL MIN	---
CF	17	CORNUS FLORIDA	FLOWERING DOGWOOD	B & B	2' CAL MIN	---
CG	69	CARYA GLABRA	FRONT HICKORY	B & B	2' CAL MIN	---
CL	42	CARYA LACINIOSA	SHELLBARK HICKORY	B & B	2' CAL MIN	---
CP	42	CRATAEGUS PHAENOPYRUM	WASHINGTON HAWTHORN	B & B	2' CAL MIN	---
GD	11	GYMNOCLADUS DIOICUS 'ESPRESSO'	KENTUCKY COFFEETREE	B & B	2' CAL MIN	---
JA	66	JUGLANS NIGRA	EASTERN BLACK WALNUT	B & B	2' CAL MIN	---
NS	7	NYSSA SILVATICA	TUPELO	B & B	2' CAL MIN	---
QRZ	73	QUERCUS RUBRA	NORTHERN RED OAK	B & B	2' CAL MIN	---
EVERGREEN TREES						
PR	45	PINUS RESINOSA	RED PINE	B & B	---	6' HT MIN
TD	10	TAXODIUM DISTICHUM	BALD CYPRESS	B & B	---	6' HT MIN
TO	41	THUJA OCCIDENTALIS	AMERICAN ARBORVITAE	B & B	---	6' HT MIN
CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	SPACING	SIZE
DECIDUOUS SHRUBS						
AP	41	ARONIA MELANOCAPA	---	---	SEE PLAN	24" HT MIN

REFER TO ROADWAY IMPROVEMENT PLANS FOR ROW LANDSCAPE



PROFESSIONAL SEAL

Elizabeth Van Sledright

NOTICE
 THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.

DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

SCALE: AS NOTED
 DRWN.: VG
 CHKD.: AMM
 APPD.:
 APPD.:
 DATE : 10/10/24

Quad Plus
 Cooper & Associates, LLC

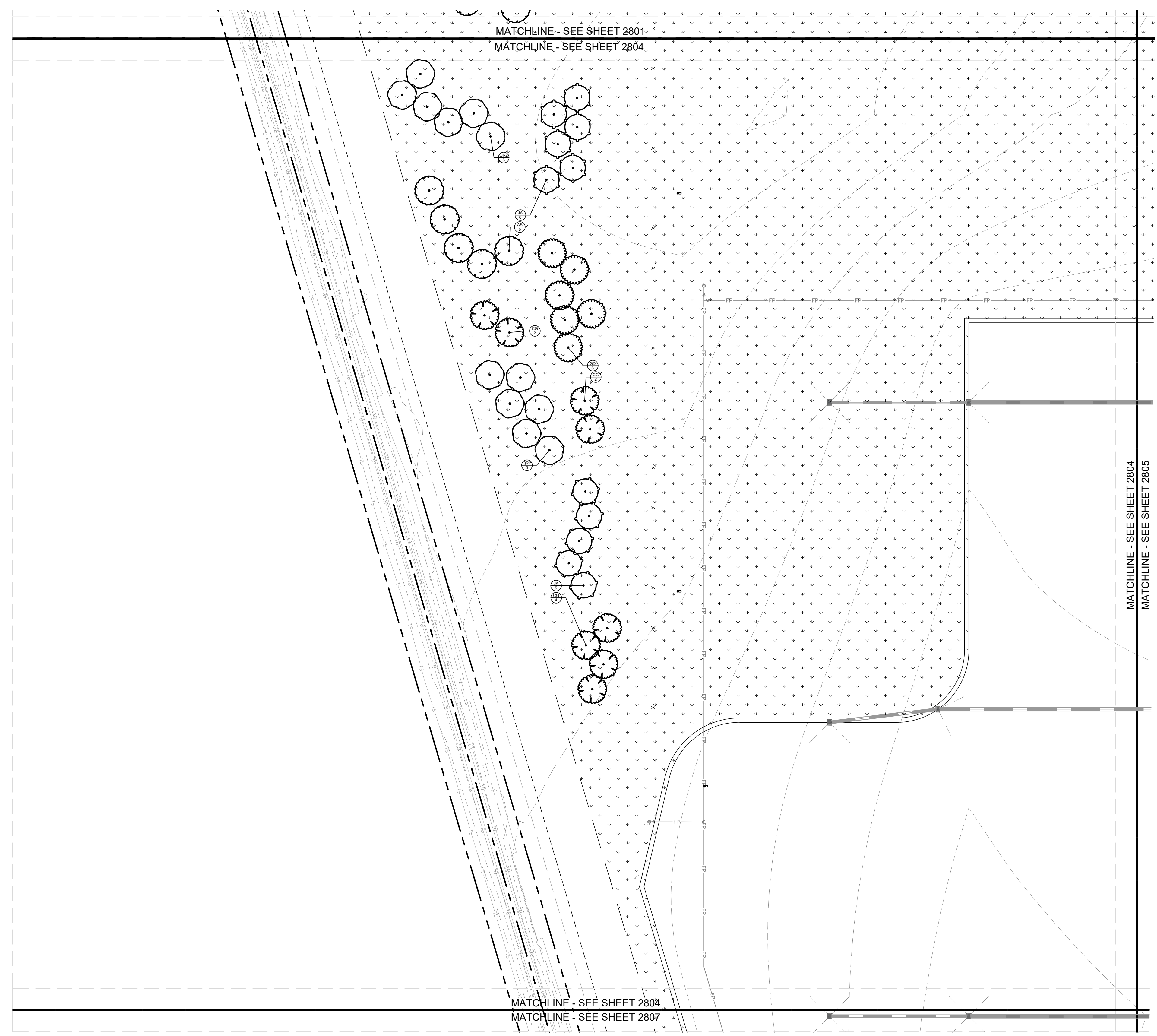
Engineers - Project Managers
 2200 Ellis Road, New Lenox, Illinois, 60451
 Ph. (844) 251-7823 www.quadplus.com

Kimley»Horn
 ©2024 KIMLEY-HORN AND ASSOCIATES, INC.
 500 EAST 96TH STREET, SUITE 300,
 INDIANAPOLIS, IN 46240
 PHONE: 317-218-9560
 WWW.KIMLEY-HORN.COM
 KHA PROJECT # 170509000

MALARKEY,IND FRANKLIN,IN

PROJ. NO. 170509000
 DWG. NO. 2803
 SHEET 0
 REV 0

TITLE - PHASE 2 - FINAL BUILDOUT LANDSCAPE PLAN



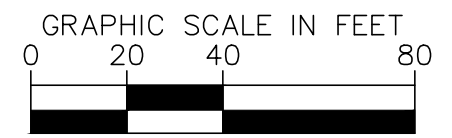
SEEDING LEGEND	
	PERMANENT SEEDING AMERITURF FRONTRUNNER BLEND TALL FESCUE; APPLY AT A RATE OF 350 LBS/ACRE (8LBS/1000 SQFT)

MULCHING LEGEND	
	MULCH HARDWOOD SHREDDED MULCH, NATURAL BROWN COLOR

PLANT SCHEDULE

CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	HT
DECIDUOUS TREES						
AR	72	ACER SACCHARUM	SUGAR MAPLE	B & B	2' CAL MIN	---
BR	7	BETULA NIGRA	RIVER BIRCH	B & B	2' CAL MIN	---
CE	16	CERCIS CANADENSIS	EASTERN REDBUD MULTI-TRUNK	B & B	2' CAL MIN	---
CF	17	CORNUS FLORIDA	FLOWERING DOGWOOD	B & B	2' CAL MIN	---
CG	69	CARYA GLABRA	PINKT HICKORY	B & B	2' CAL MIN	---
CL	42	CARYA LACINIOSA	SHELLBARK HICKORY	B & B	2' CAL MIN	---
CP	42	CRATAEGUS PHAENOPYRUM	WASHINGTON HAWTHORN	B & B	2' CAL MIN	---
GD	11	GYMNOCLADUS DIOICUS 'ESPRESSO'	KENTUCKY COFFEETREE	B & B	2' CAL MIN	---
JA	66	JUGLANS NIGRA	EASTERN BLACK WALNUT	B & B	2' CAL MIN	---
NS	7	NYSSA SILVATICA	TUPELO	B & B	2' CAL MIN	---
QRZ	73	QUERCUS RUBRA	NORTHERN RED OAK	B & B	2' CAL MIN	---
EVERGREEN TREES						
PR	45	PINUS RESINOSA	RED PINE	B & B	---	6' HT MIN
TD	10	TAXODIUM DISTICHUM	BALD CYPRESS	B & B	---	6' HT MIN
TO	41	THUJA OCCIDENTALIS	AMERICAN ARBORVITAE	B & B	---	6' HT MIN
DECIDUOUS SHRUBS						
AP	41	ARONIA MELANOCAPA	---	---	SEE PLAN	24" HT MIN

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND_DEV\170509000_Cooper&Associates_Plant_Schedule.dwg Site Improvements\170-LANDSCAPE PLAN.dwg 2804 Oct 10, 2024 1:47pm By: AnthonyMaghity



PROFESSIONAL SEAL

Elizabeth Van Sledright

NOTICE
 THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.

DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

SCALE: AS NOTED
 DRWN.: VG
 CHKD.: AMM
 APPD.:
 APPD.:
 DATE : 10/10/24

Quad Plus
 Cooper & Associates, LLC

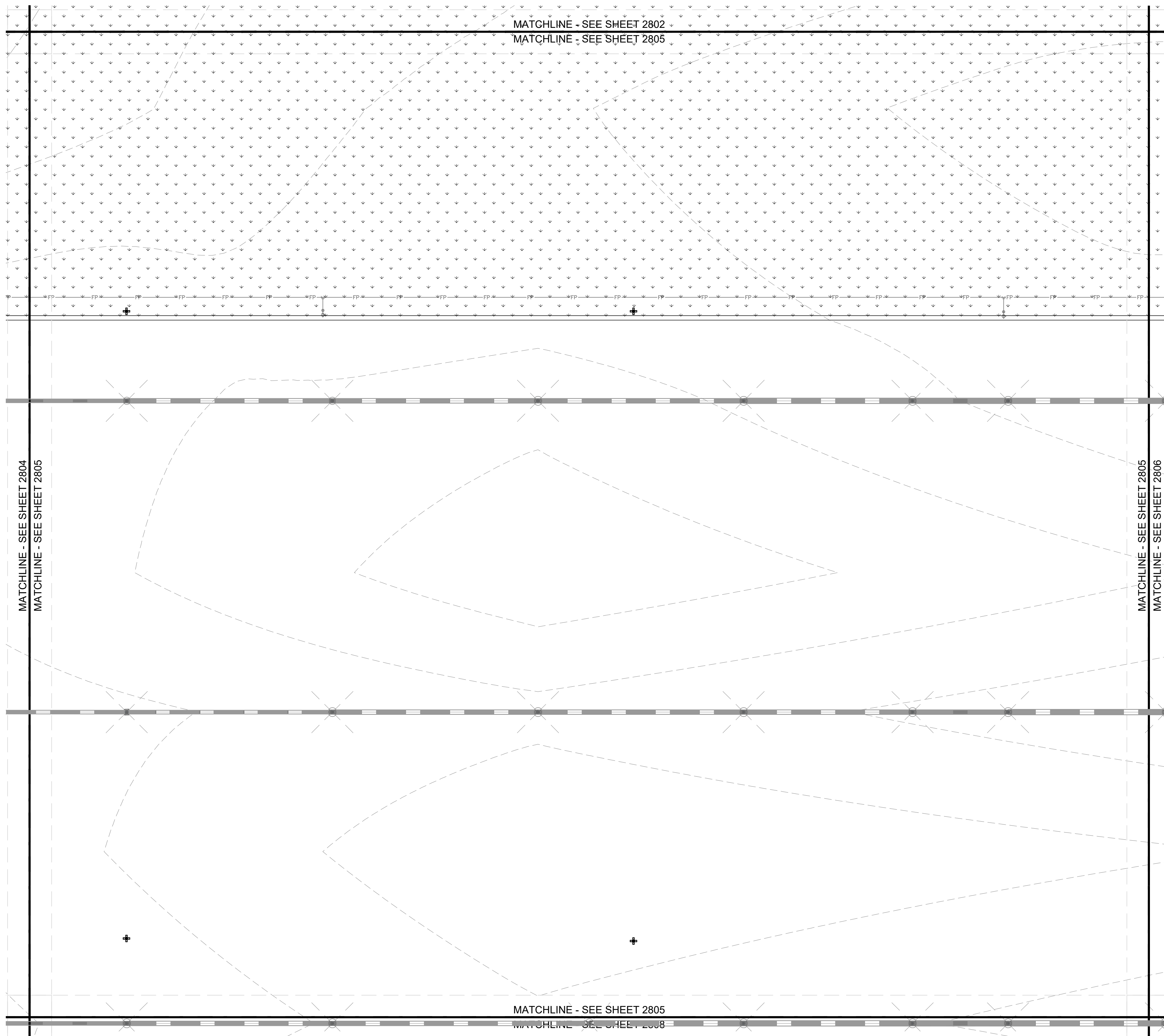
Engineers - Project Managers
 2200 Ellis Road, New Lenox, Illinois, 60451
 Ph. (844) 251-7823 www.quadplus.com

Kimley»Horn
 ©2024 KIMLEY-HORN AND ASSOCIATES, INC.
 500 EAST 96TH STREET, SUITE 300,
 INDIANAPOLIS, IN 46240
 PHONE: 317-218-9560
 WWW.KIMLEY-HORN.COM
 KHA PROJECT # 170509000

MALARKEY,IND FRANKLIN,IN

PROJ. NO. 170509000
 DWG. NO. 2804
 SHEET 0
 REV 0

TITLE - PHASE 2 - FINAL BUILDOUT
 LANDSCAPE PLAN

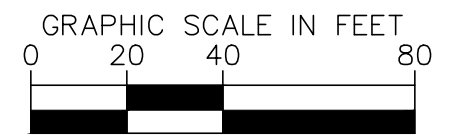
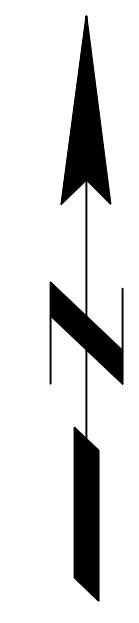


SEEDING LEGEND	
	PERMANENT SEEDING AMERITURF FRONTRUNNER BLEND TALL FESCUE; APPLY AT A RATE OF 350 LBS/ACRE (8LBS/1000 SQFT)

MULCHING LEGEND	
	MULCH HARDWOOD SHREDDED MULCH, NATURAL BROWN COLOR

PLANT SCHEDULE						
CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	HT
DECIDUOUS TREES						
AR	72	ACER SACCHARUM	SUGAR MAPLE	B & B	2' CAL MIN	---
BR	7	BETULA NIGRA	RIVER BIRCH	B & B	2' CAL MIN	---
CE	16	CERCIS CANADENSIS	EASTERN REDBUD MULTI-TRUNK	B & B	2' CAL MIN	---
CF	17	CORNUS FLORIDA	FLOWERING DOGWOOD	B & B	2' CAL MIN	---
CG	69	CARYA GLABRA	PINKT HICKORY	B & B	2' CAL MIN	---
CL	42	CARYA LACINIOSA	SHELLBARK HICKORY	B & B	2' CAL MIN	---
CP	42	CRATAEGUS PHAENOPYPIUM	WASHINGTON HAWTHORN	B & B	2' CAL MIN	---
GD	11	GYMNOCLADUS DIOICUS 'ESPRESSO'	KENTUCKY COFFEETREE	B & B	2' CAL MIN	---
JA	66	JUGLANS NIGRA	EASTERN BLACK WALNUT	B & B	2' CAL MIN	---
NS	7	NYSSA SILVATICA	TUPELO	B & B	2' CAL MIN	---
QR	73	QUERCUS RUBRA	NORTHERN RED OAK	B & B	2' CAL MIN	---
EVERGREEN TREES						
PR	45	PINUS RESINOSA	RED PINE	B & B	---	6' HT MIN
TD	10	TAXODIUM DISTICHUM	BALD CYPRESS	B & B	---	6' HT MIN
TO	41	THUJA OCCIDENTALIS	AMERICAN ARBORVITAE	B & B	---	6' HT MIN
CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	SPACING	SIZE
DECIDUOUS SHRUBS						
AP	41	ARONIA MELANOCAPA	---	---	SEE PLAN	24" HT MIN

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND_DEV\170509000_Cooper&Associates_Planting_Site_Improvements\170-LANDSCAPE_PLAN.dwg 2805 Oct 10, 2024 1:47pm By: AnthonyMagarity



NOTICE
 THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC AND IS LOANED TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.

DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

SCALE: AS NOTED
 DRWN.: VG
 CHKD.: AMM
 APPD.:
 APPD.:
 DATE : 10/10/24

Quad Plus
 Cooper & Associates, LLC
 Engineers - Project Managers
 2200 Ellis Road, New Lenox, Illinois, 60451
 Ph. (844) 251-7823 www.quadplus.com

Kimley»Horn
 ©2024 KIMLEY-HORN AND ASSOCIATES, INC.
 500 EAST 96TH STREET, SUITE 300,
 INDIANAPOLIS, IN 46240
 PHONE: 317-218-9560
 WWW.KIMLEY-HORN.COM
 KHA PROJECT # 170509000

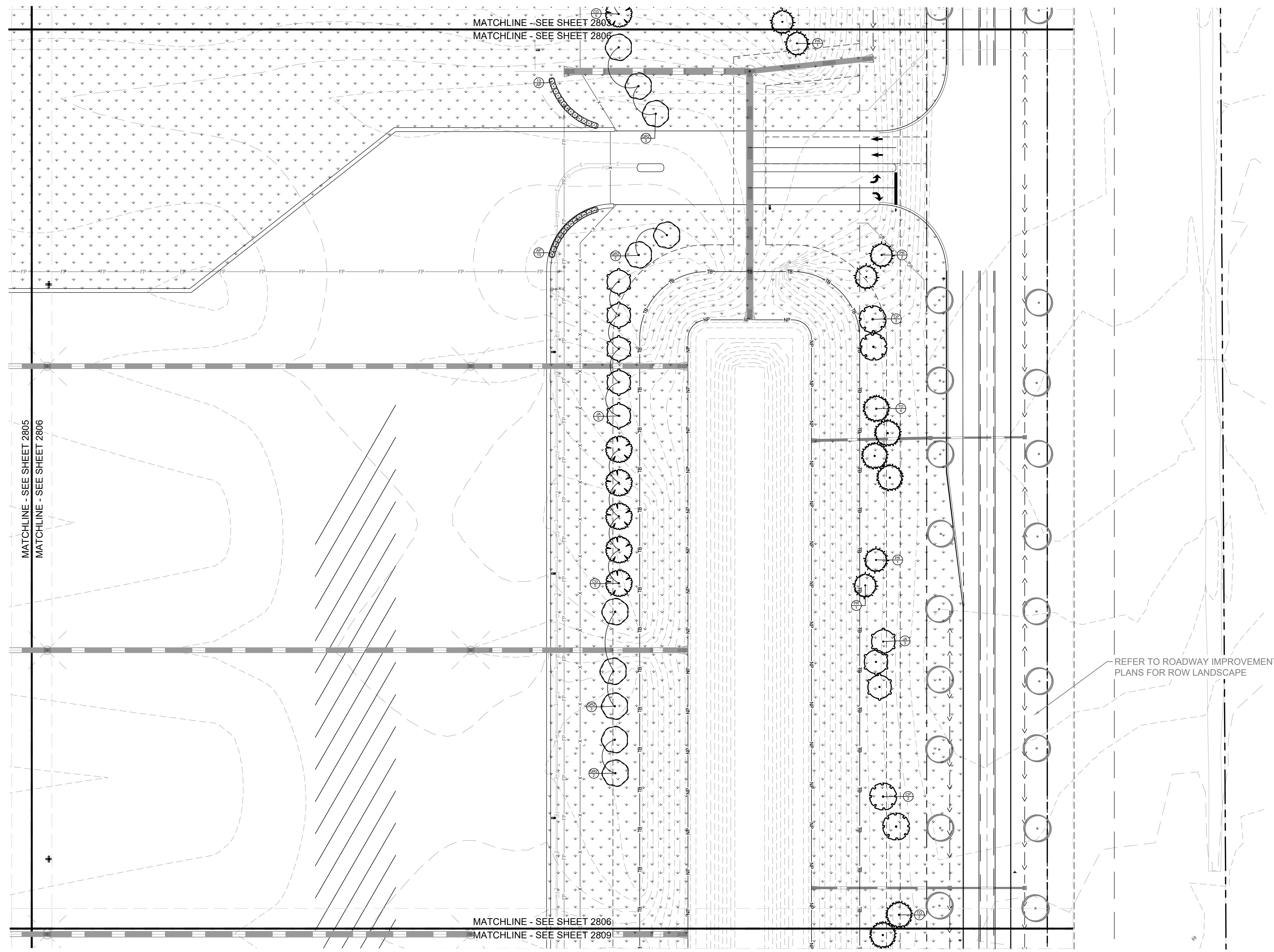
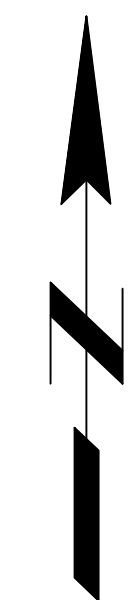
Malarkey Roofing Products

MALARKEY,IND FRANKLIN,IN

PROJ. NO. 170509000
 DWG. NO. 2805

TITLE - PHASE 2 - FINAL BUILDOUT LANDSCAPE PLAN

SHEET 0

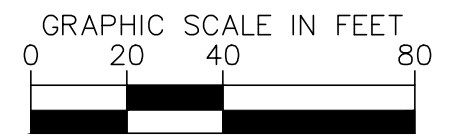


SEEDING LEGEND	
	PERMANENT SEEDING AMERITURF FRONTRUNNER BLEND TALL FESCUE; APPLY AT A RATE OF 350 LBS/ACRE (8LBS/1000 SQFT)

MULCHING LEGEND	
	MULCH HARDWOOD SHREDDED MULCH, NATURAL BROWN COLOR

PLANT SCHEDULE						
CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	HT
DECIDUOUS TREES						
AR	72	ACER SACCHARUM	SUGAR MAPLE	B & B	2' CAL MIN	---
BR	7	BETULA NIGRA	RIVER BIRCH	B & B	2' CAL MIN	---
CE	16	CERCIS CANADENSIS	EASTERN REDBUD MULTI-TRUNK	B & B	2' CAL MIN	---
CF	17	CORNUS FLORIDA	FLOWERING DOGWOOD	B & B	2' CAL MIN	---
CG	69	CARYA GLABRA	FRONT HICKORY	B & B	2' CAL MIN	---
CL	42	CARYA LACINIOSA	SHELLBARK HICKORY	B & B	2' CAL MIN	---
CP	42	CRATAEGUS PHAENOPYRUM	WASHINGTON HAWTHORN	B & B	2' CAL MIN	---
GD	11	GYMNOCLADUS DIOICUS 'ESPRESSO'	KENTUCKY COFFEETREE	B & B	2' CAL MIN	---
JA	66	JUGLANS NIGRA	EASTERN BLACK WALNUT	B & B	2' CAL MIN	---
NS	7	NYSSA SILVATICA	TUPELO	B & B	2' CAL MIN	---
QR	73	QUERCUS RUBRA	NORTHERN RED OAK	B & B	2' CAL MIN	---
EVERGREEN TREES						
PR	45	PINUS RESINOSA	RED PINE	B & B	---	6' HT MIN
TD	10	TAXODIUM DISTICHUM	BALD CYPRESS	B & B	---	6' HT MIN
TO	41	THUJA OCCIDENTALIS	AMERICAN ARBORVITAE	B & B	---	6' HT MIN
DECIDUOUS SHRUBS						
AP	41	ARONIA MELANOCAPA	---	---	SEE PLAN	24" HT MIN

REFER TO ROADWAY IMPROVEMENT
PLANS FOR ROW LANDSCAPE



PROFESSIONAL SEAL

Elizabeth Van Sledright

NOTICE
 THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.

DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

SCALE: AS NOTED
 DRWN.: VG
 CHKD.: AMM
 APPD.:
 APPD.:
 DATE : 10/10/24

Quad Plus
 Cooper & Associates, LLC

Engineers - Project Managers
 2200 Ellis Road, New Lenox, Illinois, 60451
 Ph. (844) 251-7823 www.quadplus.com

Kimley»Horn
 ©2024 KIMLEY-HORN AND ASSOCIATES, INC.
 500 EAST 96TH STREET, SUITE 300,
 INDIANAPOLIS, IN 46240
 PHONE: 317-218-9560
 WWW.KIMLEY-HORN.COM
 KHA PROJECT # 170509000

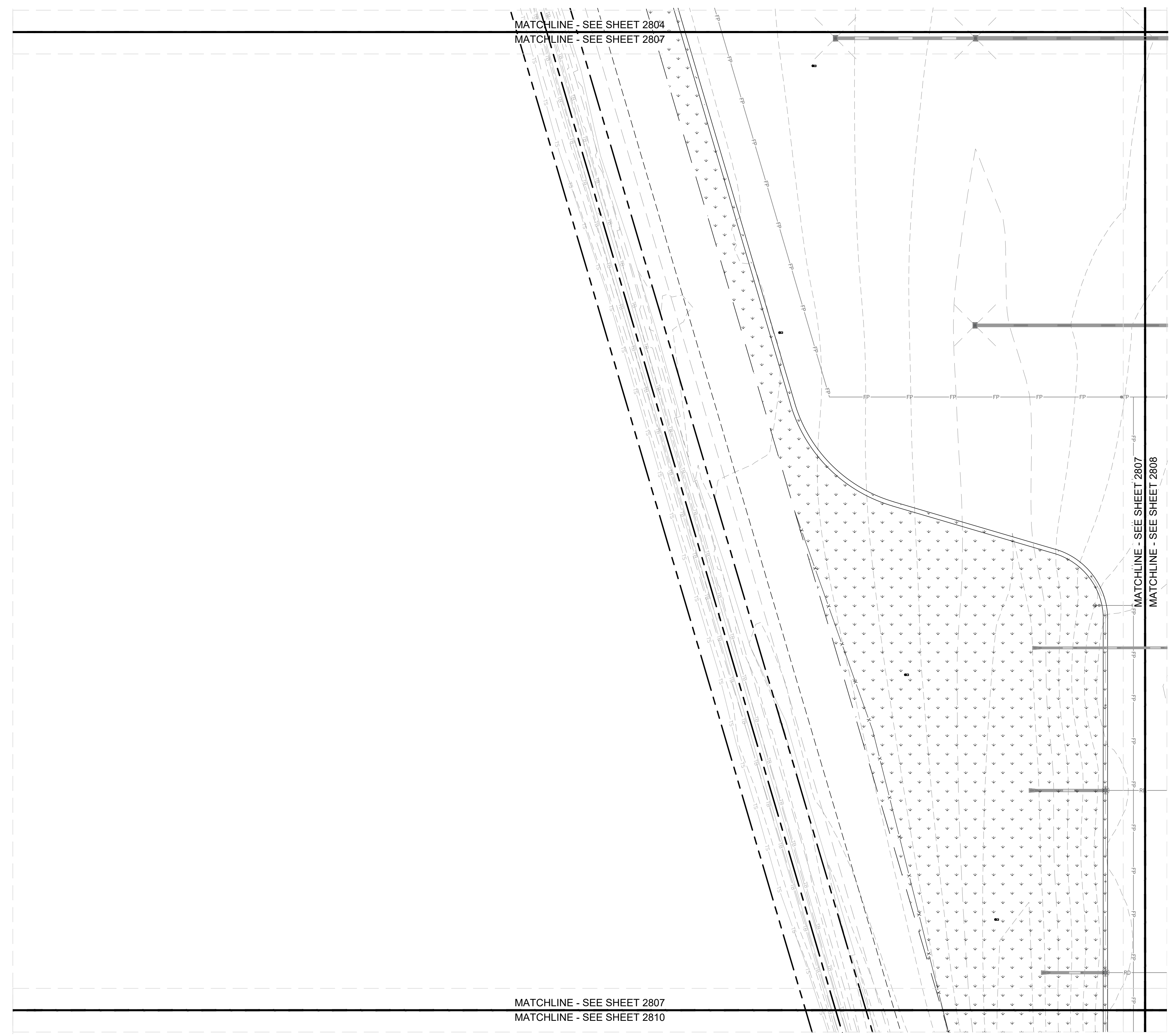
MALARKEY,IND FRANKLIN,IN

PROJ. NO. 170509000
 DWG. NO. 2806

TITLE - PHASE 2 - FINAL BUILDOUT LANDSCAPE PLAN

SHEET 0
 REV 0

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND_DEV\170509000_Cooper&Associates_Plant\CA00\PlanSheets\CA Site Improvements\170-LANDSCAPE PLAN.dwg 2806 Oct 10, 2024 1:47pm By: AnthonyMagarity



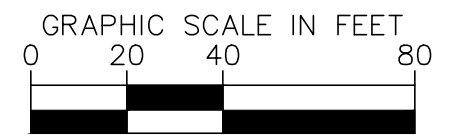
SEEDING LEGEND	
	PERMANENT SEEDING AMERITURE FRONTRUNNER BLEND TALL FESCUE; APPLY AT A RATE OF 350 LBS/ACRE (8LBS/1000 SQFT)

MULCHING LEGEND	
	MULCH HARDWOOD SHREDDED MULCH, NATURAL BROWN COLOR

PLANT SCHEDULE

CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	HT
DECIDUOUS TREES						
AR	12	ACER SACCHARUM	SUGAR MAPLE	B & B	2' CAL MIN	---
BR	7	BETULA NIGRA	RIVER BIRCH	B & B	2' CAL MIN	---
CE	16	CERCIS CANADENSIS	EASTERN REDBUD MULTI-TRUNK	B & B	2' CAL MIN	---
CF	17	CORNUS FLORIDA	FLOWERING DOGWOOD	B & B	2' CAL MIN	---
CG	69	CARYA GLABRA	PINKT HICKORY	B & B	2' CAL MIN	---
CL	42	CARYA LACINIOSA	SHELLBARK HICKORY	B & B	2' CAL MIN	---
CP	42	CRATAEGUS PHAENOPYRUM	WASHINGTON HAWTHORN	B & B	2' CAL MIN	---
GD	11	GYMNOCLADUS DIOICUS 'ESPRESSO'	KENTUCKY COFFEETREE	B & B	2' CAL MIN	---
JA	66	JUGLANS NIGRA	EASTERN BLACK WALNUT	B & B	2' CAL MIN	---
NS	7	NYSSA SILVATICA	TUPELO	B & B	2' CAL MIN	---
QRZ	73	QUERCUS RUBRA	NORTHERN RED OAK	B & B	2' CAL MIN	---
EVERGREEN TREES						
PR	45	PINUS RESINOSA	RED PINE	B & B	---	6' HT MIN
TD	10	TAXODIUM DISTICHUM	BALD CYPRESS	B & B	---	6' HT MIN
TO	41	THUJA OCCIDENTALIS	AMERICAN ARBORVITAE	B & B	---	6' HT MIN
DECIDUOUS SHRUBS						
AP	41	ARONIA MELANOCAPA	---	---	SEE PLAN	24" HT MIN

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND_DEV\170509000_Cooper&Associates_Planting_Site_Improvements\170-LANDSCAPE_PLAN.dwg 2807 Oct 10, 2024 1:47pm By: AnthonyMaginly



NOTICE
 THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.
 DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

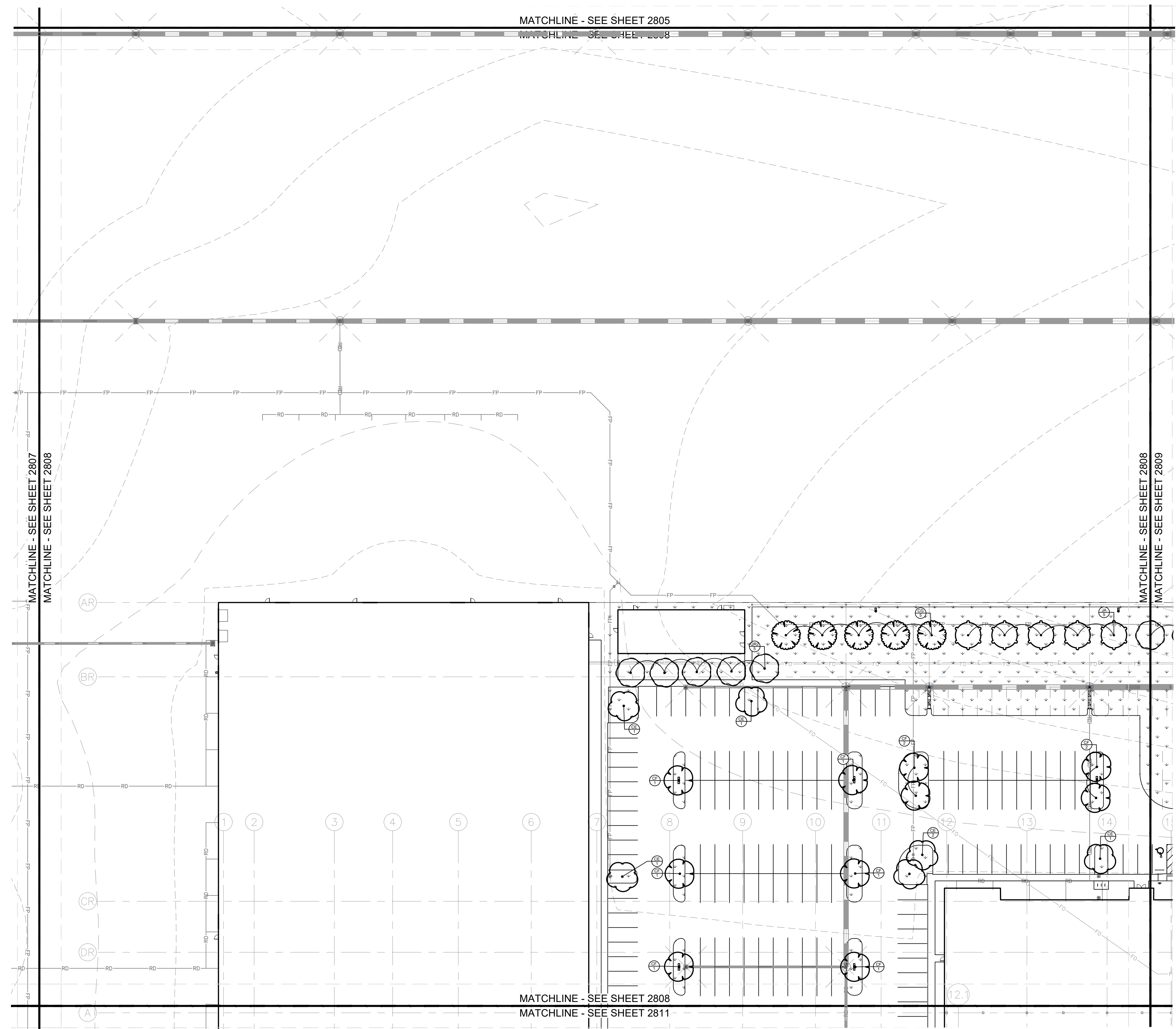
SCALE: AS NOTED
 DRWN.: VG
 CHKD.: AMM
 APPD.:
 APPD.:
 DATE : 10/10/24

Quad Plus
 Cooper & Associates, LLC
 Engineers - Project Managers
 2200 Ellis Road, New Lenox, Illinois, 60451
 Ph. (844) 251-7823 www.quadplus.com

Kimley»Horn
 ©2024 KIMLEY-HORN AND ASSOCIATES, INC.
 500 EAST 96TH STREET, SUITE 300,
 INDIANAPOLIS, IN 46240
 PHONE: 317-218-9560
 WWW.KIMLEY-HORN.COM
 KHA PROJECT # 170509000

Malarkey Roofing Products
 MALARKEY,IND FRANKLIN,IN

PROJ. NO. 170509000
 DWG. NO. 2807
 SHEET 0
 TITLE - PHASE 2 - FINAL BUILDOUT LANDSCAPE PLAN



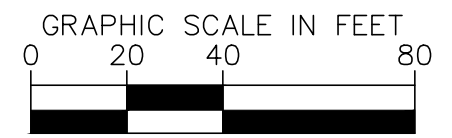
SEEDING LEGEND	
	PERMANENT SEEDING AMERITURF FRONTRUNNER BLEND TALL FESCUE; APPLY AT A RATE OF 350 LBS/ACRE (8LBS/1000 SQFT)

MULCHING LEGEND	
	MULCH HARDWOOD SHREDDED MULCH, NATURAL BROWN COLOR

PLANT SCHEDULE

CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	HT
DECIDUOUS TREES						
AR	72	ACER SACCHARUM	SUGAR MAPLE	B & B	2' CAL MIN	---
BR	7	BETULA NIGRA	RIVER BIRCH	B & B	2' CAL MIN	---
CE	16	CERCIS CANADENSIS	EASTERN REDBUD MULTI-TRUNK	B & B	2' CAL MIN	---
CF	17	CORNUS FLORIDA	FLOWERING DOGWOOD	B & B	2' CAL MIN	---
CG	69	CARYA GLABRA	FRONT HICKORY	B & B	2' CAL MIN	---
CL	42	CARYA LACINIOSA	SHELLBARK HICKORY	B & B	2' CAL MIN	---
CP	42	CRATAEGUS PHAENOPYRUM	WASHINGTON HAWTHORN	B & B	2' CAL MIN	---
GD	11	GYMNOCLADUS DIOICUS 'ESPRESSO'	KENTUCKY COFFEETREE	B & B	2' CAL MIN	---
JA	66	JUGLANS NIGRA	EASTERN BLACK WALNUT	B & B	2' CAL MIN	---
NS	7	NYSSA SILVATICA	TUPELO	B & B	2' CAL MIN	---
QRZ	73	QUERCUS RUBRA	NORTHERN RED OAK	B & B	2' CAL MIN	---
EVERGREEN TREES						
PR	45	PINUS RESINOSA	RED PINE	B & B	---	6' HT MIN
TD	10	TAXODIUM DISTICHUM	BALD CYPRESS	B & B	---	6' HT MIN
TO	41	THUJA OCCIDENTALIS	AMERICAN ARBORVITAE	B & B	---	6' HT MIN
CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	SPACING	SIZE
DECIDUOUS SHRUBS						
AP	41	ARONIA MELANOCAPA	---	---	SEE PLAN	24" HT MIN

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND_DEV\170509000_Cooper&Associates_Planting_Framlin_IN\2_Site Improvements\10-LANDSCAPE PLAN.dwg 2808 Oct 10, 2024 1:47pm By: AnthonyMagarity



NOTICE
 THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.

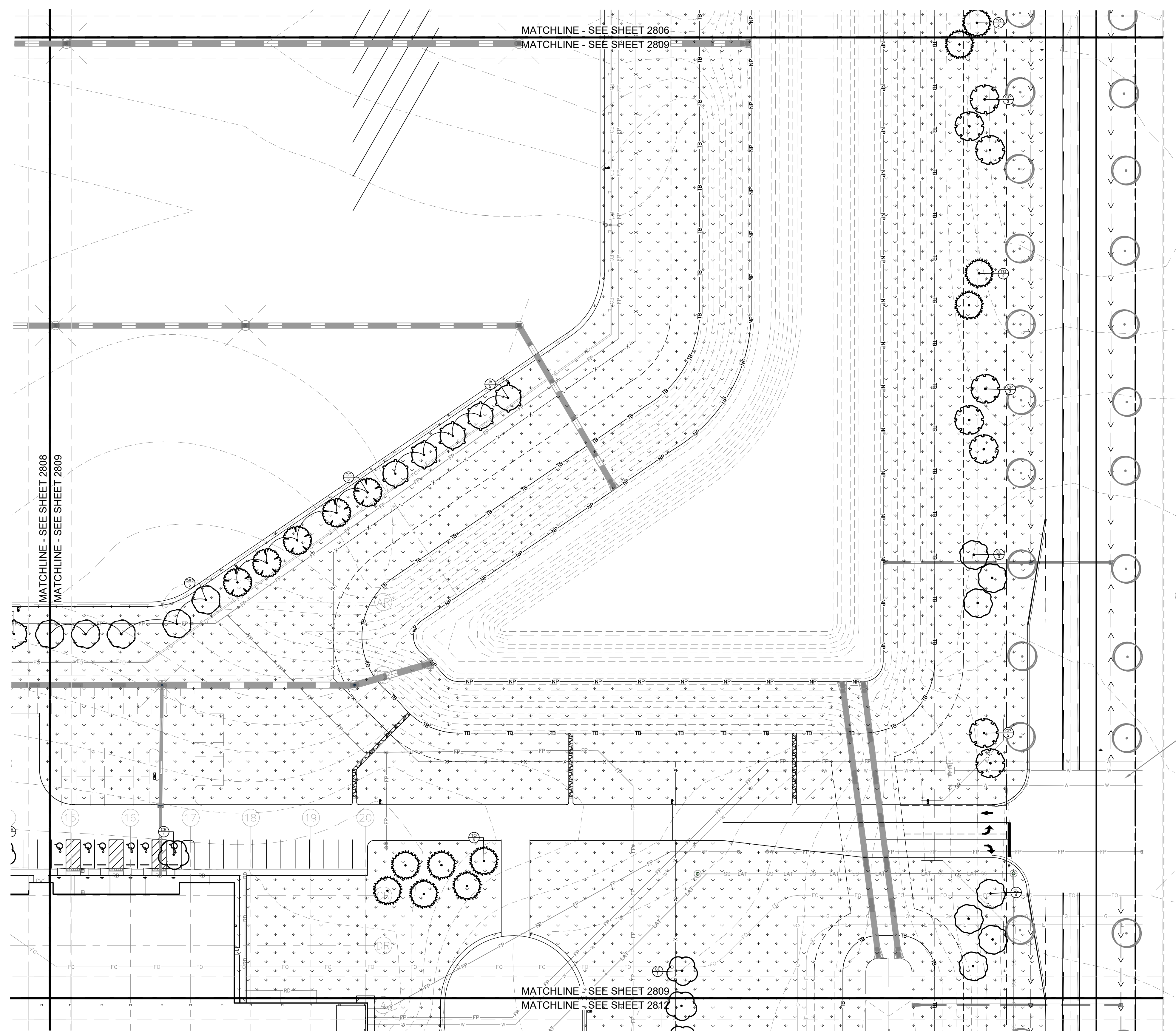
DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

Quad Plus
 Cooper & Associates, LLC
 Engineers - Project Managers
 2200 Ellis Road, New Lenox, Illinois, 60451
 Ph. (844) 251-7823 www.quadplus.com

Kimley»Horn
 ©2024 KIMLEY-HORN AND ASSOCIATES, INC.
 500 EAST 96TH STREET, SUITE 300,
 INDIANAPOLIS, IN 46240
 PHONE: 317-218-9560
 WWW.KIMLEY-HORN.COM
 KHA PROJECT # 170509000

Malarkey Roofing Products
 MALARKEY,IND FRANKLIN,IN
 PROJ. NO. 170509000
 DWG. NO. 2808
 SHEET 0
 TITLE - PHASE 2 - FINAL BUILDOUT LANDSCAPE PLAN



SEEDING LEGEND	
	PERMANENT SEEDING AMERITURF FRONTRUNNER BLEND TALL FESCUE; APPLY AT A RATE OF 350 LBS/ACRE (8LBS/1000 SQFT)

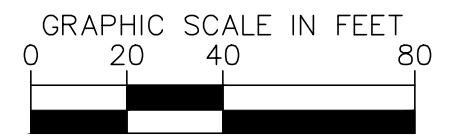
MULCHING LEGEND	
	MULCH HARDWOOD SHREDDED MULCH, NATURAL BROWN COLOR

PLANT SCHEDULE

CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	HT
DECIDUOUS TREES						
AR	12	ACER SACCHARUM	SUGAR MAPLE	B & B	2' CAL MIN	---
BR	7	BETULA NIGRA	RIVER BIRCH	B & B	2' CAL MIN	---
CE	16	CERCIS CANADENSIS	EASTERN REDBUD MULTI-TRUNK	B & B	2' CAL MIN	---
CF	17	CORNUS FLORIDA	FLOWERING DOGWOOD	B & B	2' CAL MIN	---
CG	69	CARYA GLABRA	PINKT HICKORY	B & B	2' CAL MIN	---
CL	42	CARYA LACINIOSA	SHELLBARK HICKORY	B & B	2' CAL MIN	---
CP	42	CORTAEGUS PHAENOPYRUM	WASHINGTON HAWTHORN	B & B	2' CAL MIN	---
GD	11	GYMNOCLADUS DIOICUS 'ESPRESSO'	KENTUCKY COFFEETREE	B & B	2' CAL MIN	---
JA	66	JUGLANS NIGRA	EASTERN BLACK WALNUT	B & B	2' CAL MIN	---
NS	7	NYSSA SILVATICA	TUPELO	B & B	2' CAL MIN	---
QRZ	73	QUERCUS RUBRA	NORTHERN RED OAK	B & B	2' CAL MIN	---
EVERGREEN TREES						
PR	45	PINUS RESINOSA	RED PINE	B & B	---	6' HT MIN
TD	10	TAXODIUM DISTICHUM	BALD CYPRESS	B & B	---	6' HT MIN
TO	41	THUJA OCCIDENTALIS	AMERICAN ARBORVITAE	B & B	---	6' HT MIN
CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	SPACING	SIZE
DECIDUOUS SHRUBS						
AP	41	ARONIA MELANOCAPA	---	---	SEE PLAN	24" HT MIN

REFER TO ROADWAY IMPROVEMENT PLANS FOR ROW LANDSCAPE

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. Drawing name: K:\IND_DEV\170509000_Cooper&Associates_Plant_Schedule.dwg Site Improvements\170-LANDSCAPE PLAN.dwg 2809 Oct 10, 2024 1:46pm By: AnthonyMagarity



NOTICE
 THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.

DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

SCALE: AS NOTED
 DRWN.: VG
 CHKD.: AMM
 APPD.:
 APPD.:
 DATE : 10/10/24

Quad Plus
 Cooper & Associates, LLC
 Engineers - Project Managers
 2200 Ellis Road, New Lenox, Illinois, 60451
 Ph. (844) 251-7823 www.quadplus.com

Kimley»Horn
 ©2024 KIMLEY-HORN AND ASSOCIATES, INC.
 500 EAST 96TH STREET, SUITE 300,
 INDIANAPOLIS, IN 46240
 PHONE: 317-218-9560
 WWW.KIMLEY-HORN.COM
 KHA PROJECT # 170509000

Malarkey Roofing Products
 MALARKEY,IND FRANKLIN,IN

PROJ. NO. 170509000
 DWG. NO. 2809
 SHEET 0
 REV 0

TITLE - PHASE 2 - FINAL BUILDOUT LANDSCAPE PLAN