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Plotted By: kevin.punlnske

DEPARTMENT OF PUBLIC WORKS

CITY OF VIRGINIA BEACH, VIRGINIA

ENGINEERING DIVISION

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

30% SUBMITTAL

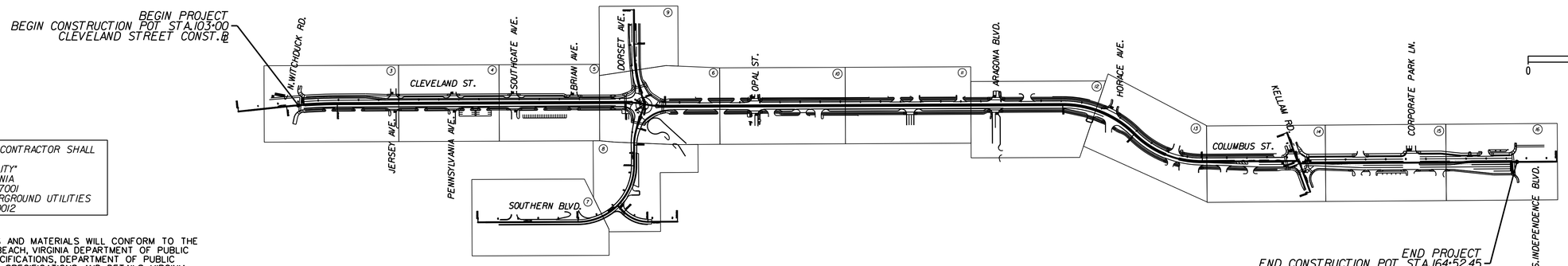
SEE SHEET IA FOR INDEX OF SHEETS

CLEVELAND STREET PHASE IV

CIP# 2-135

UPC# 110803

PWCN-20-0072



PRIOR TO CONSTRUCTION, CONTRACTOR SHALL CALL
"MISS UTILITY"
OF VIRGINIA
1-800-552-7001
FOR LOCATION OF UNDERGROUND UTILITIES
PWCN-12-0012

ALL CONSTRUCTION METHODS AND MATERIALS WILL CONFORM TO THE CURRENT CITY OF VIRGINIA BEACH, VIRGINIA DEPARTMENT OF PUBLIC WORKS STANDARDS AND SPECIFICATIONS, DEPARTMENT OF PUBLIC UTILITIES SEWER AND WATER SPECIFICATIONS AND DETAILS, VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE SPECIFICATIONS (2020), CITY OF VIRGINIA BEACH AMENDMENTS TO THE VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE STANDARDS (2022), VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE STANDARDS (2016), VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, THIRD EDITION, 1992, VIRGINIA DEPARTMENT OF CONSERVATION AND RECREATION DIVISION OF SOIL AND WATER CONSERVATION, AND ANY OTHER APPLICABLE CITY OR STATE ORDINANCES, CODES, AND LAWS PRIOR TO CONSTRUCTION.

ALL TRAFFIC CONTROL METHODS AND DEVICES SHALL CONFORM TO "FEDERAL HIGHWAY ADMINISTRATION, MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, 2009 EDITION" AND THE "VIRGINIA WORK AREA PROTECTION MANUAL, STANDARDS AND GUIDELINES FOR TEMPORARY TRAFFIC CONTROL, AUGUST 2011 (REVISION 2)".

CITY OF VIRGINIA BEACH	
APPROVED FOR CONSTRUCTION	
DATE	CITY ENGINEER
DATE	DIRECTOR OF PUBLIC WORKS
DATE	DIRECTOR OF PUBLIC UTILITIES
DATE	UTILITY ENGINEERING MANAGER
DATE	UTILITY OPERATIONS ADMINISTRATOR
DATE	OPERATIONS ENGINEER
DATE	REAL ESTATE

CONVENTIONAL SIGNS

STATE LINE
COUNTY LINE
CITY,TOWN OR VILLAGE
RIGHT OF WAY LINE
FENCE LINE
UNFENCED PROPERTY LINE
FENCED PROPERTY LINE
WATER LINE
SANITARY SEWER LINE
GAS LINE
ELECTRIC UNDERGROUND CABLE
TRAVELED WAY
GUARD RAIL
RETAINING WALL
RAILROADS
BASE OR SURVEY LINE

LEVEE OR EMBANKMENT
BRIDGES
CULVERTS
DROP INLET
POWER POLES
TELEPHONE OR TELEGRAPH POLES
TELEPHONE OR TELEGRAPH LINES
HEDGE
TREES
HEAVY WOODS
GROUND ELEVATION
GRADE ELEVATION

FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA

		Cleveland Street Urban Collector	Cleveland Street/ Columbus Street Urban Collector	Columbus Street Urban Collector	Dorset Ave / Southern Blvd Urban Collector	Kellam Rd Urban Collector
	Fr:	N Witchduck Rd	Dorset Ave/ Southern Blvd	Kellam Rd	Virginia Beach Blvd	Virginia Beach Blvd
	To:	Dorset Ave/ Southern Blvd	Kellam Rd	Independence Blvd	Cleveland St	Cleveland St
ADT (2022)		3491	8097	9920	3600	6200
ADT (2045)		5550	12800	15650	5700	9800
DHV		500	1300	1600	550	900
D (%) (design hour)		0.51	0.52	0.53	0.56	0.52
T (%) (design hour)		7	3	2	2	2
V (MPH)		25 MPH	VARIES 25-30 MPH	35 MPH	30 MPH	25 MPH

VSMP DESIGN CRITERIA TABLE

PROJECT ADDRESS	OWNER / APPLICANT NAME	OWNER / APPLICANT ADDRESS	TOTAL AREA OF PROJECT LIMIT (ACRES)	TOTAL AREA OF LAND DISTURBANCE (ACRES)	GRANDFATHERED? (YES OR NO)	VSMP DESIGN CRITERIA (IIB OR IIC)	WATERSHED / HUC CODE	JPA/WETLANDS REQUIRED? (YES OR NO)

No.	REVISIONS	DATE	BY

Kimley»Horn
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4525 MAIN STREET, SUITE 1000, VIRGINIA BEACH, VA 23462
PHONE: 757-213-8600
WWW.KIMLEY-HORN.COM

KHA PROJECT 116049105
DATE August 12, 2022
SCALE
DESIGNED BY
DRAWN BY
CHECKED BY

TITLE SHEET

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
1

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Plotted By: kevin.punlnske

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SHEET NO.	DESCRIPTION
1	TITLE SHEET
1A	INDEX OF SHEETS
1B	REVISION DATA*
1C(1)-1C(2)	RIGHT OF WAY DATA
1D(1)-1D(4)	SURVEY DATA
1E	ALIGNMENT LAYOUT
1F	ALIGNMENT DATA
1G	TRANSPORTATION MANAGEMENT PLAN*
1H(1)-1H(20)	MAINTENANCE OF TRAFFIC PLAN*
1J(1)-1J(5)	TEMPORARY SIGNAL PLAN*
2	GENERAL NOTES*
2A(1)-2A(2)	EROSION AND SEDIMENT CONTROL NOTES*
2B	UNDERGROUND UTILITY TESTHOLE DATA*
2C(1)-2C(2)	TYPICAL SECTIONS
2D(1)-2D(4)	DETAILS*
2E	INCIDENTAL SUMMARY*
2F	GRADING SUMMARY*
2G	PAVEMENT SUMMARY*
2H	ROADSIDE DEVELOPMENT*
2I	DRAINAGE SUMMARY*
2J	SIGNING AND MARKING SUMMARY*
2K	EROSION AND SEDIMENT CONTROL SUMMARY*
3	TOPOGRAPHIC INFORMATION
3A	ROADWAY PLAN STA.101+00 TO STA.108+00
3B	ROADWAY PROFILE STA.101+00 TO STA.108+00
3C	DEMOLITION AND EROSION AND SEDIMENT CONTROL PLAN PHASE I*
3D	EROSION AND SEDIMENT CONTROL PLAN PHASE 2*
4	TOPOGRAPHIC INFORMATION
4A	ROADWAY PLAN STA.108+00 TO STA.113+00
4B	ROADWAY PROFILE STA.108+00 TO STA.113+00
4C	DEMOLITION AND EROSION AND SEDIMENT CONTROL PLAN PHASE I*
4D	EROSION AND SEDIMENT CONTROL PLAN PHASE 2*
5	TOPOGRAPHIC INFORMATION
5A	ROADWAY PLAN STA.113+00 TO STA.118+00
5B	ROADWAY PROFILE STA.113+00 TO STA.118+00
5C	DEMOLITION AND EROSION AND SEDIMENT CONTROL PLAN PHASE I*
5D	EROSION AND SEDIMENT CONTROL PLAN PHASE 2*
6	TOPOGRAPHIC INFORMATION
6A	ROADWAY PLAN STA.118+00 TO STA.124+00
6B	ROADWAY PROFILE STA.118+00 TO STA.124+00
6C	DEMOLITION AND EROSION AND SEDIMENT CONTROL PLAN PHASE I*
6D	EROSION AND SEDIMENT CONTROL PLAN PHASE 2*
7	TOPOGRAPHIC INFORMATION
7A	ROADWAY PLAN STA.200+00 TO STA.206+25
7B	ROADWAY PROFILE STA.200+00 TO STA.206+25
7C	DEMOLITION AND EROSION AND SEDIMENT CONTROL PLAN PHASE I*
7D	EROSION AND SEDIMENT CONTROL PLAN PHASE 2*
8	TOPOGRAPHIC INFORMATION
8A	ROADWAY PLAN STA.206+25 TO STA.210+50
8B	ROADWAY PROFILE STA.206+25 TO STA.210+50
8C	DEMOLITION AND EROSION AND SEDIMENT CONTROL PLAN PHASE I*
8D	EROSION AND SEDIMENT CONTROL PLAN PHASE 2*
9	TOPOGRAPHIC INFORMATION
9A	ROADWAY PLAN STA.301+75 TO STA.304+75
9B	ROADWAY PROFILE STA.301+75 TO STA.304+75
9C	DEMOLITION AND EROSION AND SEDIMENT CONTROL PLAN PHASE I*
9D	EROSION AND SEDIMENT CONTROL PLAN PHASE 2*
10	TOPOGRAPHIC INFORMATION
10A	ROADWAY PLAN STA.124+00 TO STA.130+25
10B	ROADWAY PROFILE STA.124+00 TO STA.130+25
10C	DEMOLITION AND EROSION AND SEDIMENT CONTROL PLAN PHASE I*
10D	EROSION AND SEDIMENT CONTROL PLAN PHASE 2*
11	TOPOGRAPHIC INFORMATION
11A	ROADWAY PLAN STA.130+25 TO STA.136+50
11B	ROADWAY PROFILE STA.130+25 TO STA.136+50
11C	DEMOLITION AND EROSION AND SEDIMENT CONTROL PLAN PHASE I*
11D	EROSION AND SEDIMENT CONTROL PLAN PHASE 2*
12	TOPOGRAPHIC INFORMATION
12A	ROADWAY PLAN STA.136+50 TO STA.142+75
12B	ROADWAY PROFILE STA.136+50 TO STA.142+75
12C	DEMOLITION AND EROSION AND SEDIMENT CONTROL PLAN PHASE I*
12D	EROSION AND SEDIMENT CONTROL PLAN PHASE 2*
13	TOPOGRAPHIC INFORMATION
13A	ROADWAY PLAN STA.142+75 TO STA.149+00
13B	ROADWAY PROFILE STA.142+75 STA.149+00
13C	DEMOLITION AND EROSION AND SEDIMENT CONTROL PLAN PHASE I*
13D	EROSION AND SEDIMENT CONTROL PLAN PHASE 2*
14	TOPOGRAPHIC INFORMATION
14A	ROADWAY PLAN STA.149+00 TO STA.155+00
14B	ROADWAY PROFILE STA.149+00 TO STA.155+00
14C	DEMOLITION AND EROSION AND SEDIMENT CONTROL PLAN PHASE I*
14D	EROSION AND SEDIMENT CONTROL PLAN PHASE 2*
15	TOPOGRAPHIC INFORMATION
15A	ROADWAY PLAN STA.155+00 TO STA.161+00
15B	ROADWAY PROFILE STA.155+00 TO STA.161+00
15C	DEMOLITION AND EROSION AND SEDIMENT CONTROL PLAN PHASE I*
15D	EROSION AND SEDIMENT CONTROL PLAN PHASE 2*
16	TOPOGRAPHIC INFORMATION
16A	ROADWAY PLAN STA.161+00 TO STA.166+00
16B	ROADWAY PROFILE STA.161+00 TO STA.166+00
16C	DEMOLITION AND EROSION AND SEDIMENT CONTROL PLAN PHASE I*
16D	EROSION AND SEDIMENT CONTROL PLAN PHASE 2*
17(1)-17(3)	ENTRANCE PROFILES*
18(1)-18(3)	DRAINAGE DESCRIPTIONS*
19(1)-19(8)	STORM PROFILES*
20(1)-20(8)	TRAFFIC SIGNAL PLANS
21(1)-21(14)	SIGNING AND MARKING PLANS*
22(1)-22(14)	PUBLIC UTILITY PLANS*
23(1)-23(14)	PUBLIC UTILITY PROFILES*
24(1)-24(14)	LIGHTING PLANS*
25(1)-25(14)	PHOTOMETRIC PLANS*
26(1)-26(10)	LANDSCAPING PLANS*
XS1-XS77	CROSS SECTIONS - CLEVELAND STREET
XS78-XS91	CROSS SECTIONS - SOUTHERN BOULEVARD
XS92-XS94	CROSS SECTIONS - DORSET AVENUE

* SHEET INTENTIONALLY OMITTED FROM THIS SUBMITTAL

No.	REVISIONS	DATE	BY

Kimley»Horn
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4525 MAIN STREET, SUITE 1000, VIRGINIA BEACH, VA 23462
PHONE: 757-213-8600
WWW.KIMLEY-HORN.COM

KHA PROJECT	116049105
DATE	August 12, 2022
SCALE	
DESIGNED BY	
DRAWN BY	
CHECKED BY	

INDEX OF SHEETS

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
1A

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RIGHT OF WAY DATA

Parcel Information					Fee Take Summary			Easements		
Number	Landowner Name	Sheet Number	Deed Acreage	Remainder	Total (SF)	Prescriptive (SF)	Non-Prescr. (SF)	Permanent Drainage (SF)	Permanent Utility (SF)	Temporary Construction (SF)
1	CITY OF VIRGINIA BEACH	3	-							
2	CITY OF VIRGINIA BEACH	3	-							
3	CITY OF VIRGINIA BEACH	3	-							
4	212 DENN L.L.C.	3	-							
5	J&H LEGACY PROPERTIES, L.L.C.	3	-							
6	J&H LEGACY PROPERTIES, L.L.C.	3	6,045	0	6,045	0	6,045			
7	J&H LEGACY PROPERTIES, L.L.C.	3	6,251	0	6,251	0	6,251			
8	METRO HOLDINGS, LLC	3	11,987	0	11,987	0	11,987			
9	STEPHEN A. SILLIPHANT	3	-							
10	EDDIE R. CREEKMORE, JR. TRUST & SHARON P. CREEKMORE TRUST	3	-							
11	CLAS 210, L.L.C.	4	-							
12	5030 CLEVELAND STREET, LLC	4	15,749	0	15,749	0	15,749			
13	2J INVESTMENTS, LLC	4	6,476	0	6,476	0	6,476			
14	232 JERSEY AVE, LLC	4	-							
15	DONALD W. WERNICK	4	-							
16	GTD, L.C.	N/A	-							
17	BARRY ALLEN DAIL, SR. TRUSTEE	4	-							
18	DELRAND PROPERTIES, L.L.C.	4	15,001	0	15,001	0	15,001			
19	VIRGINIA BEACH SALVAGE EXCHANGE	4, 5	18,550	0	18,550	0	18,550	201	0	0
20	VIRGINIA BEACH SALVAGE EXCHANGE	4, 5	-							
21	TME HOLDINGS, LLC	N/A	-							
22	AL MASON LANDSCAPING, INC.	5	-							
23	AL MASON LANDSCAPING, INC.	5	-							
24	VIRGINIA BEACH SALVAGE EXCHANGE	5	-							
25	VIRGINIA BEACH SALVAGE EXCHANGE	5	-							
26	COE LIVING TRUST	5	6,644	0	6,644	0	6,644			
27	ALFRED M. MASON & BETTY B. MASON	5	12,939	0	12,939	0	12,939	971	0	0
28	RICHARD L. MCGHEE & SUSANNE B. MCGHEE	5	-							
29	BARNARD ENTERPRISES	N/A	-							
30	CHARLES ERVIN ELKS, JR. TRUST	5, 6	31,738	0	31,738	0	31,738			
31	DAVID BARNARD	N/A	-							
32	VERIZON COMMUNICATIONS, INC.	N/A	-							
33	VERIZON COMMUNICATIONS, INC.	9	-							
34	DAVID BARNARD	9	-							
35	ZIMMER PROPERTIES NO. 9, LLC	9	35,075	35,075	0	0	0	0	0	870
36	ZIMMER PROPERTIES NO. 9, LLC	9	6,126	6,126	0	0	0	0	0	273
37	GLORIA H. COVINGTON TRUSTEE	6, 9	13,387	13,387	0	0	0	0	0	274
38	REZAINIK MANAGEMENT GROUP, LLC	6	19,749	19,414	335	0	335	0	0	420
39	MDB ENTERPRISES, INC.	6	17,646	0	17,646	0	17,646			
40	EUCLID ASSOCIATES	6, 10	56,124	53,496	2,628	0	2,628	0	0	1,640
41	PHILLIPS PROPERTIES, LLC	10, 11	287,922	282,701	5,222	0	5,222	0	0	2,950
42	PARKER ENTERPRISES, LLC	11	18,750	17,324	1,426	0	1,426	0	0	1,053
43	TEL & ASSOCIATES, LLC	11	34,375	31,729	2,646	0	2,646	0	4,125	2,475
44	THOMAS A. LINDSEY REVOCABLE TRUST	11, 12	12,536	11,564	972	0	972	0	1,500	500
45	ARAGONA BLVD. STORM WATER MANAGEMENT CO., L.C.	12	2,814	2,570	244	0	244	0	375	125
46	200 ARAGONA BLVD, LLC	12	62,502	59,806	2,696	0	2,696	0	3,694	3,462
47	LAND & BUILDING L.C.	12	10,041	9,102	939	0	939	0	0	518
48	MITCHELL LEE DUNBAR & COLEY K. DUNBAR	12	2,079	1,925	154	0	154	0	0	75
49	LAND & BUILDING L.C.	12	12,601	12,199	401	0	401	0	0	714
50	LOT 32, LLC	12	-							
51	201 HORACE AVE, LLC	13	7,827	7,606	221	0	221	0	0	569
52	WAL-MART REAL ESTATE BUSINESS TRUST	13, 14	485,557	480,774	4,783	0	4,783	0	0	5,980
53	RACHEL JOE, L.L.C.	14, 15	538,206	535,104	3,102	0	3,102			4,670
54	COLUMBUS 4692 ASSOCIATES, L.L.C.	15, 16	230,681	230,331	350	0	350	0	0	2,290
55	CITY OF VIRGINIA BEACH	16	-							

REVISIONS | NO. | DATE | BY

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KHA PROJECT 116049105
DATE August 12, 2022
SCALE
DESIGNED BY
DRAWN BY
CHECKED BY

RIGHT OF WAY DATA

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
1C(1)

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Plotted By: kevin.punlnske

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RIGHT OF WAY DATA

Parcel Information					Fee Take Summary			Easements		
Number	Landowner Name	Sheet Number	Deed Acreage	Remainder	Total (SF)	Prescriptive (SF)	Non-Prescr. (SF)	Permanent Drainage (SF)	Permanent Utility (SF)	Temporary Construction (SF)
56	WEST NECK LLC	16	70,765	69,845	920	0	920	0	0	4,315
57	TCA 7 HOLDING, INC.	16	-							
58	TOWN CENTER ASSOCIATES 12, LLC	16	-							
59	CITY OF VIRGINIA BEACH	16	-							
60	CRAWFORD PROPERTIES, LLC	15, 16	78,105	74,917	3,187	0	3,187	0	0	8,706
61	VIRGINIA HICKORY ASSOCIATES, L.L.P.	15	54,929	53,946	983	0	983	0	0	5,861
62	COLUMBUS INVESTMENTS, L.L.C.	14, 15	57,935	57,671	264	0	264	0	0	2,074
63	COLUMBUS SUMMIT, INC.	14	74,749	74,749	0	0	0	0	0	2,165
64	CITY OF VIRGINIA BEACH	13, 14	-							
65	UNITED STATES POSTAL SERVICE	13	129,421	129,421	0	0	0	0	0	1,996
66	CITY OF VIRGINIA BEACH	12, 13	-							
67	CITY OF VIRGINIA BEACH	12	-							
68	LARAN ENTERPRISES, LLC	12	-							
69	RHEMA TC, LLC	12	13,206	0	13,206	0	13,206			
70	RHEMA TC, LLC	12	33,365	0	33,365	0	33,365			
71	B & C RENTALS, L.L.C.	N/A	-		0	0				
72	INTERMARK POPLAR SQUARE, LLC	11, 12	58,983	58,201	783	0	783	0	0	1,269
73	KGI CLEVELAND, LLC	11	209,589	207,563	2,026	0	2,026	0	0	5,440
74	PHILLIPS PROPERTIES, LLC	10, 11	90,367	86,461	3,906	0	3,906	0	0	3,000
75	MONDS RENTALS, LLC	10	41,429	38,671	2,758	0	2,758	0	1,422	2,651
76	CITY OF VIRGINIA BEACH	10	-							
77	J/R RENTALS CO.	10	6,101	5,147	954	0	954	0	0	1,214
78	J/R RENTALS CO.	10	15,320	15,297	23	0	23	0	0	169
79	VIRGINIA CELLULAR LIMITED PARTNERSHIP	N/A	-							
80	JOSEPH DESIMONE, JR & JOSEPH CARL DESIMONE	N/A	-							
81	J/R RENTALS CO.	6, 10	38,765	36,602	2,163	0	2,163	0	0	1,414
82	CITY OF VIRGINIA BEACH	6	-							
83	RUDY'S AND KELLY'S HAIRSTYLIST INC.	6, 8	14,803	14,337	467	0	467	0	0	154
84	EDDIE R. CREEKMORE, JR. & SHARON P. CREEKMORE TRUSTEES	6, 8	108,076	108,076	0	0	0	0	0	703
85	CITY OF VIRGINIA BEACH	7, 8	-							
86	CLEVELAND STREET GROUP, LLC	5, 6	30,825	30,812	13	0	13	0	1,238	0
87	P.I.E. LEASING, INC.	5	31,096	31,096	0	0	0	0	0	150
88	CITY OF VIRGINIA BEACH	7	-							
89	KELNIC, LLC	4, 5	18,227	18,227	0	0	0	0	0	2,353
90	EMILE KHALAF	4, 5	-							
91	CROWNED CRANE, L.C.	N/A	-							
92	CROWNED CRANE, L.C.	N/A	-							
93	CROWNED CRANE, L.C.	7	-							
94	FRANK YACONIELLO & SHERYL YACONIELLO	7	-							
95	FRANK YACONIELLO & SHERYL YACONIELLO	7	-							
96	FRANK YACONIELLO & SHERYL YACONIELLO	7	-							
97	FRANK YACONIELLO & SHERYL YACONIELLO	7	-							
98	E.L. HUDSON ENTERPRISES, LLC	7	-							
99	E.L. HUDSON ENTERPRISES, LLC	N/A	-							
100	E.L. HUDSON ENTERPRISES, LLC	4	-							
101	E.L. HUDSON ENTERPRISES, LLC	4	-							
102	CLEVELAND STREET GROUP, LLC	4	15,747	15,747	0	0	0	0	0	275
103	JNJ ENTERPRISES, LLC	4	18,576	18,576	0	0	0	0	0	400
104	CITY OF VIRGINIA BEACH DEVELOPMENT AUTHORITY	N/A	-							
105	MARGARIT S. HARRIS	3	-							
106	PRICE'S HOLDINGS, LLC	3	-							
107	WITCHDUCK ONE PARTNERSHIP	N/A	-							
					TOTAL = *		**41,463**	**0**	**12,353**	**68,498**

*EXCLUDING TOTAL TAKES

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KHA PROJECT 116049105
DATE August 12, 2022
SCALE
DESIGNED BY
DRAWN BY
CHECKED BY

RIGHT OF WAY DATA

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
1C(2)

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SURVEY DATA

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(1)
N/F
CITY OF VIRGINIA BEACH
Inst.#201603250002471140
Inst.#201603240002406801 (Plat)
GPIN 1467-74-7996
5100 Cleveland Street

(2)
N/F
CITY OF VIRGINIA BEACH
Inst.#201408290008174401
Inst.#201408250007954901 (Plat)
GPIN 1467-84-2685
0.267 AC.

(3)
N/F
CITY OF VIRGINIA BEACH
Inst.#201409160008777301
Inst.#201408250007954701 (Plat)
GPIN 1467-84-3776
208 N.Witchduck Road
0.260 AC.

(4)
N/F
212 DENN L.L.C.
Inst.#200906110006589001
M.B.4,Pg.62,63
GPIN 1467-84-4798
212 Denn Lane

(5)
N/F
J & H LEGACY PROPERTIES,L.L.C.
Inst.#200911190013413101
M.B.4,Pg.62,63
GPIN 1467-84-4783
250 Denn Lane

(6)
N/F
J & H LEGACY PROPERTIES,L.L.C.
Inst.#200911190013413101
M.B.4,Pg.62,63
M.B.93,Pg.34
GPIN 1467-84-5648
5048 Cleveland St.

(7)
N/F
J & H LEGACY PROPERTIES,L.L.C.
Inst.#200911190013413101
M.B.4,Pg.62,63
M.B.93,Pg.34
GPIN 1467-84-5643

(8)
N/F
METRO HOLDINGS,LLC
Inst.#200903120002570601
Inst.#200912140014173901 (Plat)
GPIN 1467-84-6647
5044 Cleveland St.

(9)
N/F
STEPHEN A.SILLIPHANT
& HALLIE L.SILLIPHANT
D.B.4198,Pg.823
Inst.#200912140014185101
Inst.#200912140014173901 (Plat)
GPIN 1467-84-6744
209 Jersey Ave.

(10)
N/F
EDDIE R.CREEKMORE,JR.TRUST
& SHARON P.CREEKMORE TRUST
D.B.3788,Pg.1254
M.B.4,Pg.62,63
GPIN 1467-84-6728
213 Jersey Ave.

(11)
N/F
CLAS 210,L.L.C.
Inst.#202103027737
M.B.4,Pg.62,63
GPIN 1467-84-8831
210 Jersey Ave.

(12)
N/F
5030 Cleveland Street,LLC
Inst.#202007200006318501
M.B.4,Pg.62,63
GPIN 1467-84-8606
5030 Cleveland St.

(13)
N/F
2J INVESTMENTS,LLC
Inst.#201709110007714201
M.B.4,Pg.62,63
GPIN 1467-84-9653
205 Pennsylvania Ave.

(14)
N/F
232 JERSEY AVE,LLC
Inst.#201508030007349601
M.B.4,Pg.62,63
GPIN 1467-84-9761
207 Pennsylvania Ave.

(15)
N/F
DONALD W.WERNICK
Inst.#202100016511
M.B.4,Pg.62
GPIN 1467-84-9768
213 Pennsylvania Ave.

(16)
N/F
GTD,LC.
D.B.3856 Pg.290
M.B.4,Pg.62,63
GPIN 1467-94-1841
218 Pennsylvania Ave.

(17)
N/F
BARRY ALLEN DAIL,SR.TRUSTEE
Inst.#202002240001793901
M.B.4,Pg.62,63
GPIN 1467-94-1706
214 Pennsylvania Ave.

(18)
N/F
DELRAND PROPERTIES,L.L.C.
D.B.4195,Pg.79
D.B.2390,Pg.391
M.B.4,Pg.62,63
GPIN 1467-94-0696
5018 Cleveland St.

(19)
N/F
VIRGINIA BEACH SALVAGE EXCHANGE
D.B.1587,Pg.184
M.B.4,Pg.62,63
GPIN 1467-94-2658
205 Southgate Ave.

(20)
N/F
VIRGINIA BEACH SALVAGE EXCHANGE
D.B.1379,Pg.415
M.B.4,Pg.62,63
GPIN 1467-94-2853
221 Southgate Ave.

(21)
N/F
TME HOLDINGS,LLC
Inst.#200602010001801501
D.B.2568,Pg.2147 (Plat)
GPIN 1467-94-4844
218 Southgate Ave.

(22)
N/F
AL MASON LANDSCAPING,INC.
D.B.1017,Pg.527
M.B.4,Pg.62,63
GPIN 1467-94-4748
212 Southgate Ave.

(23)
N/F
AL MASON LANDSCAPING,INC.
D.B.1398,Pg.24
M.B.4,Pg.62,63
GPIN 1467-94-4746

(24)
N/F
VIRGINIA BEACH SALVAGE EXCHANGE
D.B.1837,Pg.306
M.B.4,Pg.62,63
GPIN 1467-94-3793

(25)
N/F
VIRGINIA BEACH SALVAGE EXCHANGE
D.B.1837,Pg.306
M.B.4,Pg.62,63
GPIN 1467-94-4638

(26)
N/F
COE LIVING TRUST
Inst.# 201306120006798701
D.B.1601,Pg.274
M.B.4,Pg.62,63
GPIN 1467-94-4623
5008 Cleveland St.

(27)
N/F
ALFRED M.MASON &
BETTY B.MASON
D.B.1562,Pg.536
D.B.1580 Pg.543
M.B.4,Pg.62,63
GPIN 1467-94-5616
211 Brian Ave.

(28)
N/F
RICHARD L.McGHEE &
SUSANNE B.McGHEE
Inst.#200512020070403
M.B.4,Pg.62,63
GPIN 1467-94-5766
209 Brian Ave.

(29)
N/F
BARNARD ENTERPRISES
D.B.4125 Pg.1951
M.B.278,Pg.71,72
GPIN 1467-94-5848
5035 Euclid Road

(30)
N/F
CHARLES ERVIN ELKS,JR TRUST
Inst.#202103069021
D.B.2461 Pg.1923
M.B.4,Pg.62,63
GPIN 1467-94-7609
5025 Euclid Road

(31)
N/F
DAVID BARNARD
Inst.#200411160181921
D.B.2467,Pg.417
M.B.4,Pg.62,63
GPIN 1467-94-7859

(32)
N/F
VERIZON COMMUNICATIONS,INC.
D.B.472,Pg.377
M.B.4,Pg.62,63
GPIN 1467-94-7904

(33)
N/F
VERIZON COMMUNICATIONS,INC.
D.B.472,Pg.377
D.B.2443,Pg.1571 (Plat)
M.B.4,Pg.62,63
GPIN 1467-94-8914

(34)
N/F
DAVID BARNARD
Inst.#200411160181921
D.B.2467,Pg.417
M.B.4,Pg.62,63
GPIN 1467-94-8851
5018 Euclid Road

(35)
N/F
ZIMMER PROPERTIES NO.9,LLC
D.B.3723,Pg.1286
M.B.4,Pg.62,63
M.B.90,Pg.52
GPIN 1477-05-0041
5013 Virginia Beach Blvd.

(36)
N/F
ZIMMER PROPERTIES NO.9,LLC
D.B.3723,Pg.1286
D.B.2440,Pg.1573 (Plat)
M.B.4,Pg.62,63
GPIN 1467-94-9894

(37)
N/F
GLORIA H.COVINGTON TRUSTEE
D.B.4295,Pg.1088
D.B.2450,Pg.493 (Plat)
M.B.4,Pg.62,63
GPIN 1477-04-1749
212 Dorset Ave.

(38)
N/F
REZAINIK MANAGEMENT GROUP,LLC
D.B.4317,Pg.1058
D.B.2440,Pg.1569 (Plat)
M.B.4,Pg.62,63
GPIN 1477-04-1731
204 Dorset Ave.

(39)
N/F
MDB ENTERPRISES,INC.
D.B.3671,Pg.324
D.B.2440,Pg.1574 (Plat)
M.B.4,Pg.62,63
GPIN 1477-04-1624
200 Dorset Ave.

(40)
N/F
EUCLID ASSOCIATES
D.B.1898,Pg.597
M.B.4,Pg.62,63
GPIN 1477-04-3731
4984 Cleveland St.

(41)
N/F
PHILLIPS PROPERTIES,LLC
Inst.#201308140009660301
M.B.4,Pg.62,63
M.B.76,Pg.44
GPIN 1477-04-8837
4949 Virginia Beach Blvd.

(42)
N/F
PARKER ENTERPRISES,LLC
Inst.#201212270014652001
M.B.4,Pg.62,63
M.B.156,Pg.36
GPIN 1477-14-2639
4936 Cleveland St.

(43)
N/F
TEL & ASSOCIATES,LLC
Inst.#201510260010478901
D.B.4096,Pg.2189
M.B.4,Pg.62,63
GPIN 1477-14-4619
4920 Cleveland St.

(44)
N/F
THOMAS A.LINDSEY REVOCABLE TRUST
Inst.#201112020012332801
M.B.4,Pg.62,63
GPIN 1477-14-6628

(45)
N/F
Aragona Blvd.STORM WATER MANAGEMENT CO.,LC.
Inst.#200303280047377
M.B.4,Pg.62,63
GPIN 1477-14-6699

(46)
N/F
200 Aragona Blvd.,LLC
Inst.#202000115411
Inst.#200503240043700 Plat
M.B.4,Pg.62,63
GPIN 1477-14-8795
200 Aragona Blvd.

(47)
N/F
LAND & BUILDING,LC.
D.B.3448,Pg.59
M.B.4,Pg.62,63
GPIN 1477-24-0649
4856 Cleveland St.

(48)
N/F
MITCHELL LEE DUNBAR &
COLEY K.DUNBAR
D.B.1490,Pg.603
M.B.4,Pg.62,63
GPIN 1477-24-1606

(49)
N/F
LAND & BUILDING,LC.
D.B.3448,Pg.59
M.B.4,Pg.62,63
GPIN 1477-24-1750
4852 Cleveland St.

(50)
N/F
LOT 32,LLC
Inst.#201906110004716001
M.B.4,Pg.62,63
GPIN 1477-24-2851
4843 POTOMAC ST.

(51)
N/F
201 HORACE AVE,LLC
Inst.#201801300000820201
D.B.1542,Pg.626
M.B.4,Pg.62,63
GPIN 1477-24-2688
201 HORACE AVE.

(52)
N/F
WAL-MART REAL ESTATE BUSINESS TRUST
Inst.#201311010012977801
Inst.#201312060014092901 (Plat)
M.B.94,Pg.23
GPIN 1477-24-7625
4815 Virginia Beach Blvd.

(53)
N/F
RACHAEL JOE,L.L.C.
Inst.#200807220008620001
M.B.141,Pg.15
GPIN 1477-34-4753
4721 Virginia Beach Blvd.

(54)
N/F
COLUMBUS 4692 ASSOCIATES,L.L.C.
Inst.#200501040001669
Inst.#202001290001004501 (Plat)
GPIN 1477-34-9741
4661 Virginia Beach Blvd.

(55)
N/F
CITY OF VIRGINIA BEACH
D.B.2021,Pg.502
M.B.141,Pg.15
GPIN 1477-44-0388
4690 Columbus St.

(56)
N/F
WEST NECK,LLC
Inst.#201312200014507201
M.B.209,Pg.59,60
GPIN 1477-44-2539
125 Independence Blvd.

(57)
N/F
TCA 7 HOLDING,INC.
Inst.#200603290004765501
Inst.#200510110164836 (Plat)
GPIN 1477-44-7510
4545 Commerce St.

(58)
N/F
TOWN CENTER ASSOCIATES 12,LLC
Inst.#200308060121653
Inst.#200407230113929 (Plat)
GPIN 1477-44-7126
4603 Columbus St.

(59)
N/F
CITY OF VIRGINIA BEACH
D.B.2939,Pg.1267
M.B.204,Pg.20
M.B.90,Pg.3
GPIN 1477-44-2173

(60)
N/F
CRAWFORD PROPERTIES,LLC
Inst.#200403220045799
Inst.#200411160182318 (Plat)
GPIN 1477-44-0231
4677 Columbus St.

(61)
N/F
VIRGINIA HICKORY ASSOCIATES,L.L.P.
Inst.#200602070002116501
M.B.141,Pg.15
GPIN 1477-34-7113
4701 Columbus St.

(62)
N/F
COLUMBUS INVESTMENTS,L.L.C.
Inst.#201709180007907001
M.B.141,Pg.15
GPIN 1477-34-4122
4705 Columbus St.

(63)
N/F
COLUMBUS SUMMIT,INC.
D.B.2866,Pg.1033
M.B.156,Pg.44
M.B.205,Pg.30
GPIN 1477-34-1137
4801 Columbus St.

(64)
N/F
CITY OF VIRGINIA BEACH
Inst.#200909170011004601
M.B.205,Pg.30
GPIN 1477-24-8107
4817 Columbus St.

(65)
N/F
UNITED STATES POSTAL SERVICE
D.B.2394,Pg.177
D.B.2391,Pg.672 (Plat)
GPIN 1477-24-4222
4831 Columbus St.

(66)
N/F
CITY OF VIRGINIA BEACH
D.B.1582,Pg.55
M.B.115,Pg.45
GPIN 1477-24-1278
4841 Cleveland St.

(67)
N/F
CITY OF VIRGINIA BEACH
D.B.2382,Pg.909
D.B.2391,Pg.672 (Plat)
M.B.94,Pg.23
GPIN 1477-24-0355

(68)
N/F
LARAN ENTERPRISES,LLC
D.B.4262,Pg.413
M.B.194,Pg.31
GPIN 1477-14-9332
104 Aragona Blvd.

(69)
N/F
RHEMA TC,LLC
Inst.#201908080006632001
D.B.2686,Pg.641 (Plat)
GPIN 1477-24-0582

(70)
N/F
RHEMA TC,LLC
Inst.#201909030003955001
M.B.4,Pg.62,63
GPIN 1477-14-8590
4873 Cleveland St.

(71)
N/F
B & C RENTALS,L.L.C.
Inst.#200212263085289
M.B.199,Pg.95
GPIN 1477-14-4282
105 Aragona Blvd.

(72)
N/F
INTERMARK POPLAR SQUARE,LLC
Inst.#202103051940
M.B.194,Pg.31
GPIN 1477-14-5464
4901 Cleveland St.

(73)
N/F
KGI CLEVELAND,LLC
Inst.#201705310004541001
M.B.275,Pg.12
GPIN 1477-14-2343
4937 Cleveland St.

(74)
N/F
PHILLIPS PROPERTIES,LLC
Inst.#201308140009660301
M.B.258,Pg.3
GPIN 1477-04-9328
4945 CLEVELAND ST

(75)
N/F
MONDS RENTALS,LLC
Inst.#200602220002775901
M.B.4,Pg.62,63
GPIN 1477-04-7425
4967 Cleveland St.

(76)
N/F
CITY OF VIRGINIA BEACH
D.B.1153,Pg.109
M.B.4,Pg.62,63
GPIN 1477-04-5573
160 Opal Ave.

(77)
N/F
J/R RENTALS CO.
D.B.2092,Pg.339
M.B.4,Pg.62,63
GPIN 1477-04-4513

(78)
N/F
J/R RENTALS CO.
D.B.2092,Pg.344
M.B.4,Pg.62,63
GPIN 1477-04-4452
4977 Cleveland St.

(79)
N/F
VIRGINIA CELLULAR
LIMITED PARTNERSHIP
D.B.3057,Pg.2151
D.B.2791,Pg.645 (Plat)
GPIN 1477-04-4248
111 Opal Ave.

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2022 KIMLEY-HORN AND ASSOCIATES, INC.
4525 MAIN STREET, SUITE 1000, VIRGINIA BEACH, VA 23462
PHONE: 757-213-8600
WWW.KIMLEY-HORN.COM

KHA PROJECT 116049105
DATE August 12, 2022
SCALE
DESIGNED BY
DRAWN BY
CHECKED BY

SURVEY DATA

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
1D(1)

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SURVEY DATA

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(80)
N/F
JOSEPH DESIMONE, JR &
JOSEPH CARL DESIMONE
Inst.*201408130007535 80
D.B. 2893, Pg. 1742
M.B. 4, Pg. 62 & 63
GPIN 1477-04-3322
4998 Euclid Road

(81)
N/F
J/R RENTALS CO.
D.B. 1923, Pg. 473
M.B. 4, Pg. 62 & 63
GPIN 1477-04-2565
4987 Cleveland St.

(82)
N/F
CITY OF VIRGINIA BEACH
D.B. 1490, Pg. 632
M.B. 4, Pg. 62 & 63
GPIN 1467-94-9488

(83)
N/F
IDY'S AND KELLY'S HAIRSTYLIST INC.
D.B. 1786, Pg. 351
D.B. 2440, Pg. 1575 (Plat)
M.B. 120, Pg. 20
GPIN 1477-04-0308
5005 Euclid Road

(84)
N/F
EDDIE R. CREEKMORE JR. &
SHARON P. CREEKMORE TRUSTEES
D.B. 3788, Pg. 1249
M.B. 120, Pg. 20
GPIN 1477-04-1127
128 Dorset Ave.

(85)
N/F
CITY OF VIRGINIA BEACH
D.B. 829, Pg. 84
M.B. 4, Pg. 62 & 63
GPIN 1467-94-6490
100 Southgate Ave.

(86)
N/F
Cleveland Street GROUP, LLC
Inst.*200611010016590 70
M.B. 4, Pg. 62 & 63
GPIN 1467-94-7407
4997 Cleveland St.

(87)
N/F
P.J.E. LEASING, INC.
D.B. 1757, Pg. 255
M.B. 4, Pg. 62 & 63
GPIN 1467-94-5457
4999 Cleveland St.

(88)
N/F
CITY OF VIRGINIA BEACH
D.B. 829, Pg. 84
M.B. 4, Pg. 62 & 63
GPIN 1467-94-4400
100 Southgate Ave.

(89)
N/F
KELNIC, LLC
Inst.*200209053027909
M.B. 4, Pg. 62 & 63
GPIN 1467-94-2510
5017 Cleveland St.

(90)
N/F
EMILE KHALAF
D.B. 3157, Pg. 620
M.B. 4, Pg. 62 & 63
GPIN 1467-94-2412
129 Southgate Ave.

(91)
N/F
CROWNED CRANE, LLC.
Inst.*201206150006659 10
M.B. 4, Pg. 62 & 63
GPIN 1467-94-2325
125 Southgate Ave.

(92)
N/F
CROWNED CRANE, LLC.
Inst.*201206150006659 10
M.B. 4, Pg. 62 & 63
GPIN 1467-94-2217

(93)
N/F
CROWNED CRANE, LLC.
Inst.*201206150006659 10
M.B. 4, Pg. 62 & 63
GPIN 1467-94-2210

(94)
N/F
FRANK YACONIELLO &
SHERYL YACONIELLO
D.B. 4110, Pg. 1368
M.B. 4, Pg. 62 & 63
M.B. 98, Pg. 18
GPIN 1467-94-2117

(95)
N/F
FRANK YACONIELLO &
SHERYL YACONIELLO
D.B. 4110, Pg. 1368
M.B. 4, Pg. 62 & 63
M.B. 98, Pg. 18
GPIN 1467-94-2190
5024 Southern Blvd.

(96)
N/F
FRANK YACONIELLO &
SHERYL YACONIELLO
D.B. 4110, Pg. 1368
M.B. 4, Pg. 62 & 63
M.B. 98, Pg. 18
GPIN 1467-94-2143
5032 Southern Blvd.

(97)
N/F
FRANK YACONIELLO &
SHERYL YACONIELLO
D.B. 4110, Pg. 1368
M.B. 4, Pg. 62 & 63
M.B. 98, Pg. 18
GPIN 1467-94-1190
5024 Southern Blvd.

(98)
N/F
E.L. HUDSON ENTERPRISES, LLC
Inst.*201512180012131 70
M.B. 4, Pg. 62 & 63
GPIN 1467-94-1107
100 Pennsylvania Ave.

(99)
N/F
E.L. HUDSON ENTERPRISES, LLC
Inst.*201512180012131 80
M.B. 4, Pg. 62 & 63
GPIN 1467-94-0390
118 Pennsylvania Ave.

(100)
N/F
E.L. HUDSON ENTERPRISES, LLC
Inst.*201512180012131 80
M.B. 4, Pg. 62 & 63
GPIN 1467-94-0492
132 Pennsylvania Ave.

(101)
N/F
E.L. HUDSON ENTERPRISES, LLC
Inst.*201512180012131 80
M.B. 4, Pg. 62 & 63
GPIN 1467-94-0497
132 Pennsylvania Ave.

(102)
N/F
Cleveland Street GROUP, LLC
Inst.*200611010016590 60
M.B. 4, Pg. 62 & 63
GPIN 1467-84-9419
5029 Cleveland St.

(103)
N/F
JNJ ENTERPRISES, LLC
Inst.*201003230002710 80
Inst.*201602230001480 10 (Plat)
M.B. 4, Pg. 62 & 63
GPIN 1467-84-7495
5033 Cleveland St.

(104)
N/F
CITY OF VIRGINIA BEACH DEVELOPMENT AUTHORITY
Inst.*201906200005013 20
Inst.*200407290118226 (Plat)
Inst.*201601110000260 60 (Plat)
GPIN 1467-84-4236
104 N. Witchduck Road

(105)
N/F
MARGARET S. HARRIS
Inst.*201003110002359 70
Inst.*201604010002688 50 Plat
M.B. 4, Pg. 62 & 63
GPIN 1467-84-6427
5049 Cleveland St.

(106)
N/F
PRICE'S HOLDINGS, LLC
Inst.* 201403220001412 00
Inst.*201602230001480 00 Plat
M.B. 4, Pg. 62 & 63
GPIN 1467-84-3424
5059 Cleveland St.

(107)
N/F
WITCHDUCK ONE PARTNERSHIP
D.B. 2271 Pg. 829
Inst.*201705030003671 10 Plat
M.B. 138, Pg. 22
GPIN 1467-74-8423
PARCEL 5
5101 Cleveland Street

PLANIMETRIC LEGEND

- Advertising Sign
- Bore Hole
- BM — Bench Mark
- Bollard Post
- PHOTO CP — Photo Control Point
- Control Station
- Drainage Flow Arrow (Storm Drainage)
- FC — Filler Cap (Gas Stations)
- Flow Arrow (Streams & Rivers)
- Flag Pole
- Secondary Control Point
- FP — Filler Pipe (Gas Stations)
- GA — Gas Tank Access Manhole (Gas Stations)
- Gravesite Marker
- Guard Post
- V — Gas Vent Pipe (Gas Stations)
- Mail Box
- Mine Entrance
- Node Point
- Property Line Symbol
- Found Monumentation
- Property Monument
- Metal or Wooden Post
- Monitoring Well
- Road Arrow
- Reference
- Right of Way Monument
- VDOT Commission Monument
- Iron Right of Way Pin
- Railroad Mile Marker
- Railroad Right of Way Monument
- Railroad Signal Pole or Gate
- Railroad Telegraph Pole
- Railroad Telephone Pole
- Railroad Switch
- Shrub
- Storm Sewer Manhole
- Photogrammetric Target
- Tree
- Traffic Left Turn Arrow
- Traffic Left-Right Arrow
- Traffic Left-Thru Arrow
- Traffic Left-Thru-Right Arrow
- Traffic Right Turn Arrow
- Traffic Thru Arrow
- Traffic Thru-Right Arrow
- Traffic Springback Marker
- Wetland Flag Automatic
- Wetland Flag Manual
- Bridge Elevation
- Plan Elevation
- Water Elevation
- Elevation Tick Mark
- Connected Plat Symbol
- Brush Line
- Pipe Culverts *
- City Line
- County Line
- Curb Only
- Curb and Gutter
- Fence Line
- Guardrail
- Hedge Row
- Jersey Barrier
- OBSC — Obscure Areas
- Paved Ditches
- Railroad
- Right of Way
- State Line
- Edges of Water
- Sidewalks
- WL — Wetlands
- Woods
- * Designate size of culverts (Variable from 12" to 120")

UTILITY LEGEND

EB — Electric Box	TB — Telephone Booth
Electric Guy Pole	Telephone Guy Pole
Electric Ground Light	Telephone Guy Wire
Electric Guy Wire	Test Holes (All Utilities)
Electric Hand Hole	Telephone Cell Tower
Electric Meter	Telephone Hand Hole
Electric Manhole	Telephone Manhole
Electric Marker Post	Telephone Marker Post
Electric Pedestal	Telephone Pole
Electric Stub	Telephone Pedestal
Electric Power Pole	Telephone Riser Pole
Electric Power Riser Pole	Television Satellite Dish
Electric Light Pole	Tower Anchor
Electric Luminaire	Traffic Camera Pole
End of Information (All Utilities)	Traffic Control Hand Hole
Fire Hydrant	Traffic Control Manhole
Fiber Optic Hand Hole	Traffic Control Guy Wire
Fiber Optic Marker	Traffic Control Pedestal
Fiber Optic Manhole	Traffic Signal Guy Pole
Fiber Optic Pedestal	Traffic Signal Pole
Gas Meter	Traffic Signal Pole w/Luminaire
Gas Manhole	Telephone Stub
Gas Marker Post	Television Hand Hole
Gas Monitoring Well	Television Manhole
Gas Stub	Television Marker Post
Gas Test Station	Television Pedestal
Gas Valve	Television Stub
Gas Vent	Water Blow Off
Gas Well	Water Well
Sanitary Air Release Valve	Water Meter
Sanitary Flow Arrow	Water Manhole
Sanitary Stub	Water Marker Post
Sewer Clean Out	Water Spigot
Sanitary Force Main Valve	Water Siamese Connection
Sanitary Marker Post	Water Stub
Sanitary Manhole	Water Valve
Sewer Vent Pipe	Water Post Inspection Valve
Unknown Clean Out	Water Irrigation Valve
Unknown Hand Hole	Water Steam Manhole
Unknown Manhole	Water Steam Vent Pipe

- CAFO — Fiber Optic Cable Television
- CHEM — Chemical Line (above or below ground)
- FO Duct — Underground Fiber Optic Duct
- FUEL — Fuel Line (above or below ground)
- G — Gas Line *
- G Duct — Gas Line Duct
- SAN — Gravity Sewer *
- SFM — Sanitary Force Main *
- TCFO — Traffic Control Fiber Optic
- T/FO — Telephone Fiber Optic
- FO — Underground Fiber Optic
- Unk — Unknown Utility Line
- E — Underground Power Cable
- E Duct — Underground Power Cable Duct
- T/Tg — Underground Telephone Cable
- T/Tg Duct — Underground Telephone Cable Duct
- TC — Underground Traffic Control
- TC Duct — Underground Traffic Control Duct
- CATV — Underground Television Cable
- CATV Duct — Underground Television Cable Duct
- VS — Vacuum Sewer
- W — Water Line *
- W Duct — Water Line Duct
- Depicted According To Utility Records **
- Abandoned According To Utility Records **
- According To Miss Utility Information **

* Designate size (Variable from 0.75" to 54")
** Designate type (Unknown line is shown)

No.	REVISIONS	DATE	BY

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KHA PROJECT 116049105
DATE August 12, 2022
SCALE
DESIGNED BY
DRAWN BY
CHECKED BY

SURVEY DATA

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
1D(2)

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SURVEY DATA

STORM DRAIN STRUCTURE DATA

In Pl.DI #024
Rim = 14.73
Inv.= 11.28 (N)
Inv.= 11.28 (S)
Inv.= 11.53 (W)

In Pl.SDMH #025
Rim = 13.95
Inv.= 11.65 (NW)
Inv.= 11.65 (E)
Inv.= 11.65 (W)

In Pl.DI #027
Rim= 13.51
Inv.= 11.07 (N)
Inv.= 11.07 (W)
Inv.= 11.07 (E)

In Pl.DI #028
Rim = 14.16
Inv.= 11.11 (N)
Inv.= 11.11 (W)
Inv.= 11.11 (E)

In Pl.SDMH #090
Rim = 12.20
Inv.= 2.00 (N)
Inv.= 2.00 (S)
Inv.= 5.32 (W)

In Pl.DI #093
Rim = 12.10
Inv.= 7.38 (N)
Inv.= 7.38 (E)

In Pl.DI #096
Rim = 10.57
Inv.= 6.92 (NW)
Inv.= 6.85 (NE)
Inv.= 6.85 (W)

In Pl.DI #096
Rim = 10.57
Inv.= 6.92 (NW)
Inv.= 6.85 (NE)
Inv.= 6.85 (W)

In Pl.SDMH #099
Rim = 12.81
Inv.= 6.06 (E)
Inv.= 6.36 (SW)
Inv.= 6.83 (NNW)
Inv.= 7.91 (NW)
Inv.= 9.26 (S)

In Pl.DI #100
Rim = 11.91
Inv.= 8.80 (N)

In Pl.SDMH #101
Rim = 12.83
Inv.= 6.33 (N)
Inv.= 5.83 (W)
Inv.= 8.78 (S)
Inv.= 5.83 (E)

In Pl.DI #104
Rim = 13.22
Inv.= 9.47 (SE)
Inv.= 9.62 (NE)

In Pl.DI #105
Rim = 12.20
Inv.= 9.26 (W)
Inv.= 9.26 (E)

In Pl.DI #106
Rim = 12.02
Inv.= 9.19 (W)
Inv.= 9.17 (NE)
Inv.= 9.19 (NW)

In Pl.DI #107
Rim = 11.72
Inv.= 9.07 (SW)
Inv.= 9.07 (NE)

In Pl.SDMH #108
Rim = 12.91
Inv.= 5.11 (E)
Inv.= 5.11 (W)
Inv.= 5.34 (S)

In Pl.DI #116
Rim = 10.61
Inv.= 7.11 (SE)

In Pl.SDMH #117
Rim = 12.76
Inv.= 2.76 (NNW)
Inv.= 2.76 (SE)
Inv.= 6.61 (NW)

In Pl.SDMH #118
Rim = 12.83
Inv.= 3.02 (NW)
Inv.= 3.02 (SW)
Inv.= 4.48 (W)
Inv.= 5.53 (NE)

In Pl.DI #129
Rim = 13.21
Inv.= -0.07 (E)
Inv.= -0.07 (W)
Inv.= -0.07 (NW)

In Pl.SDMH #147
Rim = 8.03
Inv.= 3.81 (E)
Inv.= 3.91 (W)
Inv.= 3.87 (N)

In Pl.DI #148
Rim = 7.08
Inv.= 4.19 (S)

In Pl.SDMH #200
Rim = 12.18
Inv.= 5.93 (N)
Inv.= 5.73 (S)

In Pl.SDMH #201
Rim = 10.88
Bottom = 4.33
(Filtration System
No Pipes Visable)

In Pl.SDMH #202
Rim = 10.85
Bottom = 1.70
(Filtration System
No Pipes Visable)

In Pl.SDMH #206
Rim = 12.32
Inv.= -0.43 (E)
Inv.= -0.43 (S)
Inv.= -0.43 (N)

In Pl.SDMH #207
Rim = 9.31
Inv.= 3.51 (E)
Inv.= 2.28 (S)
Inv.= 2.28 (N)

In Pl. DI #500
Rim - 6.87
Inv. = 3.66 (E)

In Pl. CDI #501
Rim = 7.23
Inv.In = 3.31 (E)

In Pl. DI #504
Rim = 8.00
Inv. = 3.95 (S)

In Pl. SDMH #505
Rim = 8.00
Inv. = 3.74 (N)
Inv. = 1.50 (W)
Inv.Out = 1.46 (E)

In Pl. DI #506
Rim = 8.00
Inv. = 6.24 (N)

In Pl. DI #507
Rim = 10.51
Inv. = 6.04 (N)
Inv. = 6.02 (S)

In Pl. SDMH #508
Rim = 10.51
Inv. = 2.03 (NW)
Inv. = 2.03 (S)

In Pl. SDMH #509
Rim = 9.91
Inv. = 1.81 (N)
Inv. = 1.71 (E)

In Pl. SDMH #512
Rim = 9.67
Inv. = 2.04 (W)
Inv. = 2.04 (SW)
Inv. = 2.04 (SE)

In Pl. DI #513
Rim = 8.90
Inv. = 2.62 (W)
Inv. = 2.45 (N)
Inv. = 2.37 (E)

In Pl. SDMH #514
Rim = 9.76
Inv. = 2.31 (SW)
Inv. = 2.16 (NE)

In Pl. DI #515
Rim = 7.65
Inv. = 5.20 (W)
(In Pl. 12" Conc.
w/ CPP Sleeve)
Inv. = 5.20 (E)

In Pl. SDMH #516
Rim = 7.95
Inv. = 5.81 (S)
Inv. = 5.45 (E)

In Pl. DI #517
Rim = 8.66
Inv. = 2.37 (W)
1'x0.7' Wall Opening
= 2.18 (E)
(Reverse Flow)
Bottom = -3.39

In Pl. SDMH #521
Rim = 11.07
Inv. = 2.97 (NW)
Inv. = 2.96 (N)
Inv. = 2.81 (E)

In Pl. SDMH #522
Rim = 11.06
Inv. = 5.86 (W)
Inv. = 4.03 (SE)
Inv. = 4.03 (N)
Inv. = 4.03 (S)

In Pl. DI #523
Rim = 10.87
Inv. = 4.25 (N)
Inv. = 4.12 (NW)

In Pl. DI #524
Rim = 10.87
Inv. = 3.41 (W)
Inv. = 3.36 (SE)

In Pl. DI #525
Rim = 9.79
Inv. = 3.76 (W)
Inv. = 3.68 (E)

In Pl. DI #526
Rim = 9.32
Inv. = 4.31 (NW)
Inv. = 4.19 (E)

In Pl. SDMH #527
Rim = 11.61
Inv. = 4.53 (N)
Inv. = 4.51 (SE)

In Pl. DI #528
Rim = 9.04
Inv. = 4.91 (N)
Inv. = 4.85 (NE)
Inv. = 4.85 (S)

In Pl. CDI #529
Rim = 13.09
(No Pipes Found)

In Pl. CDI #529
Rim = 13.09
(No Pipes Found)

In Pl. CDI #532
Rim = 10.93
Inv. = 4.63 (S)

In Pl. CDI #533
Rim = 12.97
Inv. = 6.09 (W)

In Pl. DI #534
Rim = 12.17
Inv. = 6.09 (SW)
Inv. = 4.93 (N)
Inv. = 4.93 (E)

In Pl. CDI #536
Rim = 13.18
Inv. = 7.75 (E)

In Pl. SDMH #537
Rim = 12.89
Inv. = 7.00 (E)
Inv. = 2.73 (W)
Inv. = -0.40 (N)
Inv. = -0.63 (S)

In Pl. CDI #538
Rim = 12.83
Inv. = 9.24 (W)

In Pl. SDMH #539
Rim = 10.11
Inv. = 6.04 (E)
Inv. = 0.57 (W)
Inv. = 0.57 (S)

In Pl. DI #540
Rim = 12.50
Inv. = 5.05 (NW)
Inv. = 5.05 (S)

In Pl. DI #541
Rim = 11.48
Inv. = 5.24 (SE)

In Pl. DI #542a
Rim = 11.62
Inv. = 8.12 (E)
Inv. = 4.92 (N)
Inv. = 4.70 (S)

In Pl. DI #542b
Rim = 11.61
Bottom = 4.88

In Pl. DI #543
Rim = 11.53
Inv. = 8.98 (W)
Inv.Out = 5.05 (SE)

In Pl. DI #544
Rim = 11.64
Inv. = 8.84 (W)

In Pl. DI #545
Rim = 11.59
Inv. = 8.98 (N)
Inv.Out = 5.05 (S)

In Pl. DI #546
Rim = 11.08
Inv. In = 7.62 (W)
Inv. In = 5.36 (N)
Inv.Out = 5.28 (S)

In Pl. DI #547
Rim = 6.90
Inv.In = 0.52 (E)
Inv.In = 0.27 (N)
Inv.Out = -0.06 (S)

In Pl. SDMH #548
Rim = 6.64
Inv. = 0.44 (N)
Inv. = 0.44 (S)

In Pl. SDMH #549
Rim = 6.79
Inv. = 2.21 (W)
Inv. = 0.83 (N)
Inv. = 0.83 (S)

In Pl. DI #550
Rim = 7.19
Inv. = 2.16 (W)
Inv. = 1.43 (N)
Inv. = 0.68 (S)

In Pl. CDI #551
Rim = 7.80
Inv. = 2.99 (E)
Inv. = 0.97 (W)
Inv. = 0.81 (N)
Inv. = 0.79 (S)
Inv. = 0.79 (S)
Inv. = 0.79 (S)

In Pl. CDI #552
Rim = 7.51
Inv. = 0.84 (N)
Inv. = 0.84 (S)

In Pl. CDI #553
Rim = 7.22
(1.0'x1.0' Opening)

In Pl. CDI #559
Rim = 8.22
Inv. = 5.82 (W)

In Pl. CDI #560
Rim = 8.31
Inv. = 4.28 (N)
Inv. = 4.22 (S)

In Pl. CDI #561
Rim = 8.35
Inv. = 4.65 (N)
Inv. = 4.60 (S)

In Pl. CDI #562
Rim = 9.45
Inv. = 5.77 (S)

In Pl. DI #563
Rim = 7.89
Inv. = 5.24 (N)
Inv. = 5.19 (W)
Inv. = 5.19 (S)

In Pl. DI #564
Rim = 9.69
Inv. = 5.58 (N)
Inv. = 5.40 (E)
Inv. = 5.35 (S)

In Pl. DI #565
Rim = 8.57
Inv. = 5.03 (E)
Inv. = 5.01 (N)
Inv. = 5.00 (W)

In Pl. DI #566
Rim = 8.06
Inv. = 5.63 (S)
Inv. = 5.48 (N)

In Pl. CDI #567
Rim = 8.29
Inv. = 3.99 (W)

In Pl. CDI #568
Rim = 9.71
Inv. = 3.61 (E)
Inv. =3.61 (W)

In Pl. SDMH #569
Rim = 9.36
Inv. = 4.75 (N)
Inv. = 4.75 (E)
Inv. = 4.36 (S)

In Pl. SDMH #573
Rim = 8.68
Inv. = 3.47 (E)
Inv. = 3.29 (N)
Inv. = 3.13 (S)

In Pl. SDMH #574
Rim = 9.86
Inv. = 4.50 (E)
Inv. = 4.29 (N)

In Pl. CDI #575
Rim = 9.82
Inv. = 5.03 (W)

In Pl. CDI #576
Rim = 9.27
Inv. = 5.55 (E)
Inv. = 5.34 (NE)

In Pl. SDMH #577
Rim = 8.71
Inv. = 4.26 (SE)
Inv. = 4.11 (SW)
Inv. = 4.08 (NW)

In Pl. CDI #578
Rim = 9.02
Inv. = 5.02 (W)

In Pl. CDI #579
Rim = 9.31
Inv. = 6.64 (N)
Inv. = 6.33 (S)

In Pl. SDMH #580
Rim = 9.39
Inv. = 5.75 (N)
Inv. = 5.67 (S)

In Pl. DI #582
Rim = 7.91
Inv. = 4.91 (N)
Inv. = 4.74 (S)

In Pl. SDMH #583
Rim = 8.14
Inv. = 4.47 (N)
Inv. = 4.47 (E)
Inv. = 4.46 (SW)

In Pl. SDMH #585
Rim = 8.28
Inv. = 4.24 (NE)
Inv. = 4.23 (SW)

In Pl. SDMH #586
Rim = 8.48
Inv. = 3.88 (S)
Inv. = 3.39 (N)
Inv. = 1.43 (W)

In Pl. CDI #589
Rim = 11.55
Inv. = 7.45 (NW)

In Pl. CDI #590A
Rim = 9.74
Inv. = 6.12 (SE)
Inv. = 5.80 (W)

In Pl. CDI #590B
Rim = 9.74
Inv. = 5.99 (NE)

In Pl. CDI #591
Rim = 10.73
Inv. = 7.91 (SW)

In Pl. CDI #592
Rim = 9.59
Inv. = 5.50 (E)
Inv. = 5.50 (NW)

In Pl. DI #593
Rim = 10.37
Inv. = 5.87 (W)
Inv. = 5.78 (N)
Inv. = 5.30 (SE)
Inv. = 5.22 (NE)

In Pl. SDMH #594
Rim = 11.52
Inv. = 6.28 (N)
Inv. = 6.20 (E)
Inv. = 6.20 (SW)

In Pl. DI #595
Rim = 10.70
Inv. = 7.78 (W)
Inv. = 5.89 (E)

In Pl. DI #596
Rim = 10.72
Inv. = 7.45 (E)
Inv. = 3.72 (N)
Inv. = 3.72 (S)

In Pl. DI #597
Rim = 11.02
Inv. = 6.97 (W)
Inv. = 3.73 (S)

In Pl. DI #598
Rim = 10.39
Inv. = 7.18 (S)

In Pl. DI #599
Rim = 11.27
Inv. = 3.69 (N)
Inv. = 3.69 (S)
Top =5.94 (Conflict)

In Pl. DI #5003
Rim = 12.38
Inv. = 9.70 (SW)
Inv. = 9.23 (W)
Inv.Out = 9.19 (E)

In Pl. CDI #5004
Rim = 13.04
Inv. = 10.27 (SW)
Inv. = 9.59 (W)
Inv.Out = 9.41 (E)

In Pl. CDI #5005
Rim = 13.04
Inv. = 10.00 (E)

In Pl. CDI #5006
Rim = 12.53
Inv. = 8.60 (E)

In Pl. CDI #5007
Rim = 11.84
Inv. = 8.09 (S)
Inv. = 8.09 (W)

In Pl. CDI #5008
Rim = 12.89
Inv. = 7.56 (N)
Inv. = 7.49 (S)

In Pl. SDMH #5013
Rim = 12.30
Inv. = 3.58 (W)
Inv. = 3.56 (S)

In Pl. SDMH #5014
Rim = 12.30
Inv. = 2.89 (N)
Inv. = 2.53 (SW)

In Pl. SDMH #5015
Rim = 11.64
Inv. = 2.09 (NE)
Inv. = 1.90 (S)

In Pl. SDMH #5016
Rim = 11.78
Inv. = 5.59 (S)
Inv. = 2.22 (NE)
Inv. = 2.03 (N)

In Pl. SDMH #5017
Rim = 12.37
Inv. = 7.49 (W)
Inv. = 4.92 (E)
Inv. = 2.26 (N)
Inv. = 2.24 (S)

In Pl. DI #5018
Rim = 11.62
Inv. = 8.83 (W)
Inv. = 8.60 (NE)

In Pl. CDI #5020
Rim = 11.22
Inv. = 8.69 (S)

In Pl. CDI #5021
Rim = 11.42
Inv. = 7.87 (N)
Inv. = 7.82 (S)

In Pl. CDI #5022
Rim = 10.27
Inv. = 7.47 (N)
Inv. = 2.94 (SW)
Inv. = 2.92 (NE)

In Pl. CDI #5024
Rim = 12.05
Inv. = 9.05 (SW)

In Pl. SDMH #5025
Rim = 12.07
Inv. = 8.89 (N)
Inv. = 8.89 (NE)
Inv. = 8.87 (S)

In Pl. DI #5026
Rim = 11.95
Inv. = 6.85 (N)
Inv. = 4.66 (W)
Inv. = 3.80 (E)

In Pl. CDI #5027
Rim = 11.82
Inv. = 8.07 (NW)
Inv. = 7.94 (S)

In Pl. DI #5028
Rim = 11.55
Inv. = 8.81 (SE)

In Pl. CDI #5029
Rim = 12.09
Inv. = 4.74 (W)
Inv. = 4.73 (N)
Inv. = 4.69 (E)

In Pl. CDI #5030
Rim = 11.92
Inv. = 7.56 (NW)
Inv. = 6.85 (S)

In Pl. DI #5031
Rim = 11.07
Inv. = 9.04 (W)
Inv. = 8.53 (SE)

In Pl. CDI #5032
Rim = 11.99
Inv. = 9.54 (S)

In Pl. DI #5033
Rim = 11.43
Inv. = 8.96 (N)
Inv. = 5.30 (W)
Inv. = 5.30 (E)
Top = 8.33 (Conflict)

In Pl. SDMH #5034
Rim = 12.09
Inv. = 8.04 (N)
Inv. = 5.41 (W)
Inv. = 5.39 (E)

In Pl. SDMH #5035
Rim = 12.26
Inv. = 7.71 (SW)
Inv. = 7.64 (W)
Inv. = 7.64 (S)

In Pl. CDI #5036
Rim = 11.62
Inv. = 7.93 (N)

In Pl. CDI #5037
Rim = 11.62
Inv. = 9.33 (N)
Inv. = 8.70 (E)
Inv. = 8.66 (S)

In Pl. SDMH #5040
Rim = 11.73
Inv. = 7.11 (N)
Inv. = 7.11 (S)

In Pl. CDI #5042A
Rim = 10.79
Inv. = 6.93 (N)
Inv. = 5.49 (E)

In Pl. CDI #5042B
Rim = 10.78
Inv. = 5.48 (W)

In Pl. CDI #504A
Rim = 11.13
Inv. = 7.41 (S)

In Pl. CDI #5043B
Rim = 11.13
Bottom = 7.48

In Pl. SDMH #5044
Rim = 11.21
Inv. = 5.51 (W)
Inv. = 5.51 (E)
Top = 7.16 (Conflict)

In Pl. CDI #5046
Rim = 11.11
Inv. = 6.06 (W)
Inv. = 6.06 (E)

In Pl. CDI #5047
Rim = 13.16
Inv. = 10.31 (S)

In Pl. CDI #5048
Rim = 13.63
Inv. = 10.04 (N)
Inv. = 10.03 (E)
Inv. = 10.03 (W)

In Pl. CDI #5049
Rim = 13.75
Inv. = 9.95 (N)
Inv. = 9.85 (E)
Inv. = 9.75 (W)

In Pl. CDI #5050
Rim = 13.42
Inv. = 10.42 (S)

In Pl. CDI #5051
Rim = 12.67
Inv. = 10.47 (W)

In Pl. CDI #5052
Rim = 14.12
Inv. = 9.50 (W)
Inv. = 9.50 (E)

In Pl. CDI #5053
Rim = 12.02
Inv. = 9.62 (S)
Inv. = 9.44 (N)

In Pl. SDMH #5054
Rim = 12.87
Inv. = 9.17 (S)
Inv. = 9.17 (E)

In Pl. SDMH #5055
Rim = 11.89
Inv. = 6.87 (W)
Inv. = 6.70 (E)

In Pl. CDI #5056
Rim = 11.53
Inv. = 7.42 (N)
Inv. = 6.71 (W)
Inv. = 6.62 (E)

In Pl. CDI #5057A
Rim = 11.75
Inv. = 9.04 (N)
Inv. = 8.05 (S)

In Pl. CDI #5057B
Rim = 11.75
Bottom = 8.19

In Pl. CDI #5058A
Rim = 11.35
Bottom = 9.40

In Pl. CDI #5058B
Rim = 11.33
Inv. = 9.38 (S)

In Pl. CDI #5059
Rim = 13.01
Inv. = 10.44 (W)
Inv. = 10.37 (SE)

In Pl. CDI #5060
Rim = 11.96
Inv. = 7.06 (W)
Inv. = 6.96 (E)

In Pl. DI #5064
Rim = 13.18
Inv. = 10.90 (E)

In Pl. CDI #5066A
Rim = 12.47
Inv. = 10.13 (S)
Inv. = 8.54 (N)
Inv. = 7.78 (E)

In Pl. CDI #5066B
Rim = 12.44
Inv. = 7.78 (W)

In Pl. DI #5067
Rim = 12.56
Inv. = 10.22 (N)

In Pl. CDI #5068A
Rim = 12.52
Inv. = 10.67 (N)
Inv. = 8.93 (S)

In Pl. CDI #5068B
Rim = 12.55
Bottom = 8.95

In Pl. CDI #5069
Rim = 13.62
Inv. = 11.21 (E)
Inv. = 11.19 (S)

In Pl. CDI #5071
Rim = 12.83
Inv. = 9.91 (W)
Inv. = 9.90 (NW)

In Pl. SDMH #5072
Rim = 12.81
Inv. = 9.57 (SE)
Inv. = 8.72 (W)
Inv. = 8.61 (E)

In Pl. CDI #5073
Rim = 12.78
Inv. = 9.93 (E)

In Pl. CDI #5074
Rim = 13.30
Inv. = 9.70 (N)

In Pl. CDI #5075A
Rim = 13.16
Inv. = 9.47 (N)
Inv. = 8.81 (E)

In Pl. CDI #5075B
Rim = 13.15
Inv. = 9.74 (W)
Inv. = 9.19 (S)

In Pl. CDI #5076
Rim = 13.20
Inv. = 10.50 (NE)
Inv. = 10.17 (W)
Inv. = 10.15 (S)

In Pl. CDI #5077
Rim = 13.16
Inv. = 10.36 (NE)
Inv. = 10.30 (E)
Inv. = 10.30 (W)

In Pl. CDI #5078
Rim = 13.66
Inv. = 10.37 (SW)

In Pl. CDI #5079
Rim = 13.50
Inv. = 11.01 (E)
Inv. = 11.00 (SW)

In Pl. CDI #5080
Rim = 13.43
Inv. = 11.14 (W)
Inv. = 10.82 (NE)

In Pl. CDI #5081
Rim = 13.93
Inv. = 11.32 (E)
Inv. = 11.32 (SW)

In Pl. CDI #5082
Rim = 13.82
Inv. = 11.62 (W)

In Pl. DI #5085
Rim = 13.05
Inv. = 9.35 (N)
Inv. = 9.31 ()
Inv. = 9.31 ()

In Pl. SDMH #5086
Rim = 13.79
Inv. In = 9.35 (N)
Inv. In = 9.31 (W)
Inv. Out = 9.31 (E)

In Pl. CDI #5088
Rim = 13.76
Inv. = 10.36 (W)
Inv. = 10.36 (S)

In Pl. CDI #5089
Rim = 13.73
Inv. = 10.13 (N)
Inv. = 10.04 (E)

In Pl. CDI #5090
Rim = 14.00
Inv. = 10.93 (S)

In Pl. CDI #5091
Rim = 13.50
Inv. = 10.92 (W)
Inv. = 10.78 (E)

In Pl. CDI #5095A
Rim = 13.88
Inv. = 11.48 (S)

In Pl. CDI #5095B
Rim = 13.88
Inv. = 11.48 (N)

In Pl. CDI #5096
Rim = 13.15
Inv. = 10.81 (N)
Inv. = 10.66 (S)

In Pl. CDI #5097
Rim = 13.01
Inv. = 10.56 (N)
Inv. = 10.50 (S)

In Pl. CDI #5098
Rim = 13.01
Inv. = 10.92 (N)
Inv. = 10.92 (W)
Inv. = 10.78 (E)

In Pl. CDI #5099
Rim = 13.32
Inv. = 10.98 (S)

In Pl. SDMH #5100
Rim = 13.88
Inv. = 11.12 (N)
Inv. = 11.08 (E)

In Pl. CDI #5102A
Rim = 14.54
Inv. = 11.64 (S)

In Pl. CDI #5102B
Rim = 14.52
Inv. = 11.64 (N)

In Pl. CDI #5103
Rim = 15.12
Inv. = 12.34 (S)
Inv. = 12.08 (N)
Top = 11.97 (Conflict)

In Pl. SDMH #5106
Rim = 15.12
Inv. = 12.36 (W)
Inv. = 12.32 (N)
Inv. = 12.28 (E)
Inv. = 12.27 (S)

In Pl. CDI #5107
Rim = 14.10
Inv. = 12.40 (E)

In Pl. SDMH #5108
Rim = 15.20
Inv. = 12.49 (N)
Inv. = 12.40 (E)
Inv. = 12.39 (S)

In Pl. CDI #5109
Rim = 14.03
Inv. = 12.44 (W)

In Pl. CDI #5110
Rim = 15.06
Inv. = 12.50 (N)
Inv. = 12.50 (S)

In Pl. SDMH #5111
Rim = 15.39
Inv. = 12.78 (E)
Inv. = 12.56 (N)
Inv. = 12.53 (S)

In Pl. CDI #5112
Rim = 15.08
Inv. = 12.78 (W)

In Pl. CDI #5113
Rim = 15.59
Inv. = 12.89 (E)
Inv. = 12.86 (S)

In Pl. CDI #5114
Rim = 15.71
Inv. = 13.04 (W)

In Pl. CDI #5117A
Rim = 14.98
Inv. = 12.73 (E)

In Pl. CDI #5117B
Rim = 15.00
Bottom = 12.75

In Pl. CDI #5121
Rim = 14.58
Inv. = 12.38 (W)

In Pl. SDMH #5122
Rim = 14.70
Inv. = 11.95 (E)
Inv. = 11.67 (N)
Inv. = 11.67 (W)
Inv. = 11.67 (S)

In Pl. CDI #5123
Rim = 14.83
Inv. = 11.16 (N)
Inv. = 10.89 (S)

In Pl. CDI #5124
Rim = 15.10
Inv. = 12.90 (W)

In Pl. CDI #5125
Rim = 14.39
Inv. = 12.25 (SE)

In Pl. CDI #5127
Rim = 14.49
Inv. = 13.46 (E)
Inv. = 13.31 (W)

In Pl. CDI #5128
Rim = 14.28
Inv. = 12.58 (E)
Inv. = 12.28 (S)
Inv. = 12.28 (N)

In Pl. DI #5129
Rim = 14.71
Inv. = 13.06 (N)
Inv. = 13.06 (S)

In Pl. DI #5130
Rim = 15.00
Inv. = 13.06 (S)
Inv. = 12.96 (N)

In Pl. CDI #5131
Rim = 14.28
Inv. = 12.55 (S)
Inv. = 12.55 (N)

In Pl. DI #5134
Rim = 15.08
Inv. = 12.59 (W)

In Pl. DI #5135
Rim = 14.36
Inv. = 12.24 (E)
Inv. = 12.19 (N)
Inv. = 12.19 (S)

In Pl. DI #5137
Rim = 14.29
Inv. = 12.78 (W)
Inv. = 12.78 (S)
Inv. = 12.19 (E)

In Pl. DI #5138
Rim = 14.52
Inv. = 12.72 (N)
Inv. = 12.72 (S)

In Pl. DI #5139
Rim = 14.68
Inv. = 11.70 (W)

In Pl. DI #5140
Rim = 15.50
Inv. = 13.02 (N)
Inv. = 11.20 (E)
Inv. = 11.20 (W)

In Pl. DI #5141
Rim = 15.57
Inv. = 13.47 (N)
Inv. = 13.09 (S)

In Pl. DI #5142
Rim = 15.57
Inv. = 10.90 (E)
Inv. = 10.88 (W)

In Pl. DI #5143
Rim = 15.70
Inv. = 11.16 (S)
Inv. = 11.12 (E)
Inv. = 11.12 (W)

In Pl. DI #5144
Rim = 15.08
Inv. = 11.34 (W)

In Pl. DI #5146
Rim = 15.51
Inv. = 10.86 (E)
Inv. = 10.86 (W)

In Pl. DI #5147
Rim = 15.35
Inv. = 11.01 (W)
Inv. = 10.50 (E)
Inv. = 10.32 (SW)

In Pl. DI #5148
Rim = 15.35
Inv. = 13.68 (E)

In Pl. SDMH #5149
Rim = 15.53
Inv. = 11.75 (NE)
Inv. = 10.13 (E)
Inv. = 10.13 (S)
Inv. = 10.13 (W)

In Pl. SDMH #5150
Rim = 15.88
Inv. = 11.06 (S)
Inv. = 10.18 (E)
Inv. = 10.17 (W)

In Pl. DI #5151
Rim = 15.10
Inv. = 11.50 (N)

In Pl. DI #5152
Rim = 15.15
Inv. = 11.85 (N)

In Pl. DI #5153
Rim = 15.26
Inv. = 10.86 (S)
Inv. = 9.63 (E)
Inv. = 9.37 (W)

In Pl. DI #5155
Rim = 15.25
Inv. = 13.39 (S)
Inv. = 13.39 (N)

In Pl. DI #5156
Rim = 15.09
Inv. = 13.49 (N)

In Pl. SDMH #5162
Rim = 15.48
Inv. = 12.12 (N)
Inv. = 10.29 (NW)

In Pl. CDI #5158
Rim = 15.15
Inv. = 9.69 (E)
Inv. = 9.56 (S)

In Pl. CDI #5159
Rim = 15.57
Inv. = 10.01 (E)
Inv. = 10.01 (W)

In Pl. DI #5160
Rim = 14.66
Inv. = 9.41 (N)
Inv. = 9.37 (E)
Inv. = 9.26 (W)

In Pl. CDI #5164
Rim = 15.85
Inv. = 8.15 (W)

In Pl. CDI #5165
Rim = 15.37
Inv. = 8.76 (W)

In Pl. CDI #5166
Rim = 15.79
Inv. = 8.35 (W)

In Pl. DI #5167
Rim = 15.31
Inv. = 10.62 (S)
Inv. = 10.62 (NW)

In Pl. DI #5168
Rim = 14.99
Inv. = 11.08 (S)
Inv. = 11.08 (N)

In Pl. SDMH #5169
Rim = 14.69
Inv. = 11.53 (S)
Inv. = 11.49 (E)
Inv. = 11.46 (N)

In Pl. DI #5170
Rim = 14.40
Inv. = 11.70 (S)
Inv. = 11.70 (N)

In Pl. DI #5171
Rim = 14.21
Inv. = 11.91 (N)

In Pl. DI #5172
Rim = 15.34
Inv. = 13.59 (E)
Inv. = 13.54 (W)

In Pl. DI #5173
Rim = 15.20
Inv. = 14.33 (W)

In Pl. DI #5174
Rim = 15.50
Inv. = 14.66 (N)

In Pl. DI #5175
Rim = 15.16
Inv. = 13.06 (NE)
Inv. = 13.04 (SW)
Inv. = 12.56 (SE)

In Pl. DI #5176
Rim = 15.81
Inv. = 12.11 (NW)
Inv. = 12.09 (SE)

In Pl. DI #5177
Rim = 15.20
Inv. = 9.12 (S)

In Pl. DI #5178
Rim = 15.13
Inv. = 8.14 (N)
Inv. = 8.13 (SE)

In Pl. DI #5179
Rim = 14.82
Inv. = 5.77 (N)
Inv. = 5.77 (S)

In Pl. DI #5180
Rim = 14.82
Inv. = 9.07 (S)

In Pl. DI #5181
Rim = 14.54
Inv. = 8.18 (E)

In Pl. CDI #5184
Rim = 15.65
Inv. = 10.23 (E)
Inv. = 9.95 (W)

In Pl. DI #5185
Rim = 15.81
Inv. = 12.85 (SE)

In Pl. DI #5186
Rim = 14.75
Inv. = 9.38 (NW)
Inv. = 9.37 (W)
Inv. = 9.37 (SE)

In Pl. CDI #5187
Rim = 14.63
Inv. = 9.61 (S)

In Pl. CDI #5188
Rim = 15.73
Inv. = 10.43 (SE)

In Pl. DI #5189
Rim = 15.69
Inv. = 10.93 (N)
Inv. = 10.92 (W)
Inv. = 10.69 (E)

In Pl. DI #5190
Rim = 15.62
Inv. = 11.40 (E)

In Pl. DI #5191
Rim = 14.98
Inv. = 11.40 (N)
Inv. = 11.35 (S)

In Pl. DI #5184
Rim = 15.65
Inv. = 10.23 (W)
Inv. = 9.95 (E)

In Pl. DI #5192
Rim = 14.98
Inv. = 11.41 (S)

In Pl. SDMH #5194
Rim = 14.33
Inv. = 9.53 (NE)
Inv. = 8.93 (NW)
Inv. = 8.93 (SE)

In Pl. SDMH #5197
Rim = 15.11
Inv. = 7.70 (N)
Inv. = 7.70 (S)
Top = 10.11

In Pl. DI #5199
Rim = 14.49
Inv. = 12.59 (N)

In Pl. SDMH #5200
Rim = 15.86
Inv. In = 7.31 (N)
Inv. Out = 7.31 (S)

In Pl. SDMH #5201
Rim = 15.60
Inv. = 7.90 (NW)
Inv. = 7.67 (N)
Inv. = 7.67 (S)

In Pl. SDMH #5203
Rim = 15.49
Inv. = 7.71 (NW)
Inv. = 7.69 (S)
Inv. = 7.69 (S)

In Pl. SDMH #5204
Rim = 15.55
Inv. = 8.17 (NW)
Inv. = 7.72 (N)
Inv. = 7.72 (S)

In Pl. SDMH #5205
Rim = 15.42
Inv.= 8.12 (W)
Inv.= 7.56 (N)
Inv.= 7.56 (S)

In Pl. SDMH #5206
Rim = 15.99
Inv. = 9.69 (W)
Inv. = 7.89 (N)
Inv. = 7.89 (S)

In Pl. SDMH #5207
Rim = 15.32
Inv. = 10.47 (SW)
Inv. = 9.47 (W)
Inv. = 9.47 (E)

In Pl. SDMH #5208
Rim = 15.49
Inv. = 7.28 (N)
Inv. = 7.28 (S)

In Pl. SDMH #5210
Rim = 15.44
Inv. = 9.49 (NW)
Inv. = 7.51 (NE)
Inv. = 7.51 (S)

In Pl. SDMH #5211
Rim = 15.07
Inv. = 8.32 (E)
Inv. = 8.27 (W)
Inv. = Plugged (N)

In Pl. SDMH #5212
Rim = 15.44
Inv. = 7.70 (N)
Inv. = 7.70 (SW)
Top = 9.58 (E-W)

In Pl. SDMH #5213
Rim = 15.27
Inv. = 8.27 (NE)
Inv. = 8.07 (N)
Inv. = 8.07 (S)

In Pl. SDMH #5214
Rim = 15.54
Inv. = 8.09 (E)
Inv. = 8.07 (N)
Inv. = 8.07 (S)

In Pl. SDMH #5215
Rim = 15.80
Inv. = 8.80 (E)
Inv. = 8.19 (N)
Inv. = 8.19 (S)

In Pl. CDI #5216
Rim = 16.10
Inv. = 12.51 (N)
Inv. = 11.54 (NE)

In Pl. SDMH #5217
Rim = 16.02
Inv. = 7.02 (N)
Inv. = 7.02 (SW)

In Pl. DI #5218
Rim = 8.58
Inv. = 5.68 (S)
Inv. = 5.59 (N)

In Pl. SDMH #5219
Rim = 9.52
Inv. = 5.87 (E)
Inv. = 5.48 (N)

In Pl. DI #5220
Rim = 9.81
Inv. = 6.21 (E)
Inv. = 6.16 (W)

In Pl. DI #5221
Rim = 10.05
Inv. = 7.25 (NE)
Inv. = 7.25 (W)
Inv. = 6.25 (SW)

In Pl. DI #5222A
Rim = 8.66
Inv. = 5.49 (N)
Inv. = 5.47 (S)
Inv. = 5.46 (E)

In Pl. DI #5222B
Rim = 8.67
Inv. = 5.47 (N)
Inv. = 5.47 (S)
Inv. = 5.47 (W)

In Pl. CDI #5023
Rim = 11.09
Inv. = 9.18 (S)

In Pl. DI #5223A
Rim = 8.68
Inv. = 5.49 (S)
Inv. = 5.48 (N)
Inv. = 5.48 (E)

In Pl. DI #5223B
Rim = 8.69
Inv. = 5.50 (N)
Inv. = 5.50 (S)

In Pl. CDI #5224
Rim = 11.58
Inv. = 7.17 (SE)
Inv. = 7.13 (SW)
Inv. = 7.01 (N)
Inv. = 7.00 (NE)

In Pl. DI #5225
Rim = 11.81
Inv. = 7.54 (SW)
Inv. = 7.20 (NW)

In Pl. CDI #5226
Rim = 11.56
Inv. = 6.91 (SW)
Inv. = 6.86 (NE)

In Pl. CDI #5229A
Rim = 12.52
Inv. = 9.61 (W)
Inv. = 9.32 (SE)

In Pl. CDI #5229B
Rim = 12.53
Bottom = 9.35

In Pl. SDMH #5230
Rim = 12.40
Inv. = 10.53 (S)
Inv. = 10.51 (W)
Inv. = 10.50 (N)

In Pl. SDMH #5231
Rim = 13.21
Inv. = 10.31 (S)
Inv. = 10.31 (E)
Inv. = 10.29 (N)

In Pl. DI #5232
Rim = 12.17
Inv. = 9.27 (W)
Inv. = 9.27 (E)

In Pl. DI #5233
Rim = 11.33
Inv. = 7.33 (E)
Inv. = 7.33 (W)

In Pl. CDI #5234
Rim = 12.01
Inv. = 9.28 (S)
Inv. = 9.28 (NE)

In Pl. DI #5235
Rim = 11.78
Inv. = 9.53 (N)

In Pl. DI #5238
Rim = 15.08
Inv. = 14.05 (E)
Inv. = 14.01 (W)

In Pl. DI #5239
Rim = 14.24
Inv. = 12.19 (NW)
Inv. = 12.16 (SE)

In Pl. SDMH #8000
Rim = 12.91
Inv. = 8.04 (S)
(Plugged)
Inv. = 8.04 (W)
Inv. = 7.98 (E)

No.	REVISIONS	DATE	BY

Kimley»Horn

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KHA PROJECT 116049105
DATE August 12, 2022
SCALE
DESIGNED BY
DRAWN BY
CHECKED BY

SURVEY DATA

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
1D(3)

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I1080300Id4.dgn
Plotted By: kevin.punlnske

SURVEY DATA

SAINTARY SEWER STRUCTURE DATA

In Pl. SMH *502
Rim = 7.38
Inv. = 0.68 (N)
Inv. = 0.68 (W)
Inv. = 0.68 (E)

In Pl. SMH *503
Rim = 7.38
Inv. = 1.18 (W)
Inv. = 1.06 (E)

In Pl. SMH *510
Rim = 10.26
Inv. = 4.95 (S)
Inv. = 2.52 (W)
Inv. = 1.46 (N)
Inv. = 1.41 (E)

In Pl. SMH *511
Rim = 9.86
Inv. = 2.96 (E)
Inv. = 2.71 (N)
Inv. = 2.56 (S)

In Pl. SMH *518
Rim = 10.03
Inv. = 5.98 (SE)
Inv. = 5.73 (W)
Inv. = 5.69 (N)

In Pl. SMH *519
Rim = 12.21
Inv. = 8.16 (SW)
Inv. = 7.59 (E)
Inv. = 7.32 (W)

In Pl. SMH *520
Rim = 13.79
Inv. = 10.77 (S)
Inv. = 9.26 (W)
Inv. = 9.23 (E)

In Pl. SCO *520A
Rim = 13.36
Inv. = 11.66

In Pl. SMH *530
Rim = 11.80
Top = 6.38 (W)

In Pl. SMH *531
Rim = 11.72
Inv. = 2.04 (E)
Inv. = 1.95 (S)

In Pl. SMH *554
Rim = 7.46
Inv. = -0.74 (S)
Inv. = -1.08 (E)
Inv. = -1.08 (W)

In Pl. SMH *555
Rim = 7.28
Inv. = 0.25 (W)
Inv. = -0.32 (N)

In Pl. SMH *556
Rim = 7.81
Inv. = 4.81 (NE)
Inv. = -0.58 (SE)
Inv. = -1.03 (W)

In Pl. SCO *556A
Rim = 8.13
Inv. = 6.43

In Pl. SMH *557
Rim = 7.61
(Unable To Open)

In Pl. SMH *558
Rim = 8.06
Inv. = 0.74 (E)
Inv. = 0.64 (W)

In Pl. SMH *570
Rim = 9.01
(Unable To Open)

In Pl. SMH *571
Rim = 8.73
(Unable To Open)

In Pl. SMH *572
Rim = 8.30
Inv. = 2.17 (N)
Inv. = 2.14 (W)

In Pl. SMH *581
Rim = 9.95
Inv. = -1.86 (e)
Top = 2.50 (W)
Top = -1.30 (W)

In Pl. SMH *5000
Rim = 11.41
(Unable To Open)

In Pl. SMH *5001
Rim = 13.03
Inv. = 9.87 (NW)
Inv. = 9.87 (E)

In Pl. SMH *5002
Rim = 13.20
Inv. = 9.81 (SE)
Inv. = 9.75 (NW)

In Pl. SMH *5009
Rim = 11.57
(Unable To Open)

In Pl. SMH *5011
Rim = 13.09
Inv. = 8.81 (SE)
Inv. = 8.80 (NW)

In Pl. SMH *5012
Rim = 13.03
Inv. = 8.41 (S)
Inv. = 8.34 (SE)
Inv. = 8.34 (N)

In Pl. SMH *5038
Rim = 12.00
Inv. = 3.35 (S)
Inv. = 3.30 (E)
Inv. = 3.26 (N)
Inv. = 3.24 (W)

In Pl. SMH *5039
Rim = 12.02
Inv. = 4.85 (W)
Inv. = 4.82 (SE)
Inv. = 4.77 (SW)

In Pl. SMH *5041
Rim = 11.59
Inv. = 6.85 (N)
Inv. = 6.31 (S)
Inv. = 5.62 (NW)
Inv. = 2.02 (E)
Inv. = 2.00 (W)

In Pl. SMH *5045
Rim = 12.72
Inv. = 4.80 (E)
Inv. = 4.62 (W)
Inv. = 4.48 (N)
Inv. = 4.48 (S)

In Pl. SMH *5061
Rim = 12.16
Inv. = 7.48 (S)
Inv. = 6.51 (N)
Inv. = 1.06 (S)
Inv. = 0.97 (E)
Inv. = 0.94 (W)

In Pl. SMH *5062
Rim = 12.45
Inv. = 3.86 (S)
Inv. = -0.42 (W)
Inv. = -0.41 (N)

In Pl. SMH *5065
Rim = 13.27
Inv. = 5.83 (N)
Inv. = 5.39 (S)
Inv. = 5.37 (SW)

In Pl. SMH *5083
Rim = 13.25
(Unable To Open)

In Pl. SMH *5084
Rim = 13.30
Inv. = 7.38 (S)
Inv. = 6.70 (S)
Inv. = 6.37 (N)
Inv. = 1.00 (S)
Inv. = -0.19 (W)
Inv. = -0.20 (E)

In Pl. SMH *5087
Rim = 13.79
Inv. = 9.75 (NE)
Inv. = 9.54 (N)
Inv. = 9.48 (S)

In Pl. SMH *5092
Rim = 13.90
Inv. = 9.52 (NE1)
Inv. = 6.70 (NE2)
Inv. = 8.47 (E1)
Inv. = 7.53 (S1)
Inv. = 4.51 (W1)
Inv. = 1.18 (S2)
Inv. = 1.12 (W2)
Inv. = 1.10 (E2)

In Pl. SMH *5093
Rim = 14.28
Inv. = 7.10 (E)
Inv. = 7.08 (N)
Inv. = 6.99 (NW)
Inv. = 6.98 (S)

In Pl. SMH *5094
Rim = 13.34
Inv. = 7.84 (SE)
Inv. = 7.80 (SW)
Inv. = 7.78 (S)
Inv. = 7.78 (N)

In Pl. SMH *5105
Rim = 15.20
Inv. = 2.74 (N)
Inv. = 2.74 (SE)

In Pl. SMH *5115
Rim = 15.83
Inv. = 3.77 (N)
Inv. = 3.77 (S)

In Pl. SMH *5116
Rim = 15.61
Inv. = 10.08 (W)
Inv. = 9.81 (E)
Inv. = 9.11 (NW)
Inv. = 4.46 (E)
Inv. = 3.79 (N)
Inv. = 3.79 (SW)

In Pl. SMH *5118
Rim = 14.51
Inv. = 7.65 (SW)
Inv. = 2.25 (NW)
Inv. = 2.21 (SW)
Inv. = 2.21 (N)

In Pl. SMH *5119
Rim = 14.71
Inv. = 10.03 (NE)
Inv. = 5.62 (NE)
Inv. = 4.99 (NW)
Inv. = 4.86 (SE)

In Pl. SMH *5120
Rim = 14.67
Inv. = 9.67 (NE)
Inv. = 6.42 (NW)
Inv. = 6.41 (SE)

In Pl. SMH *5126
Rim = 14.68
Inv. = 3.80 (SW)
Inv. = 3.17 (W)
Inv. = 2.95 (E)

In Pl. SMH *5136
Rim = 14.68
Inv. = 5.34 (N)
Inv. = 5.31 (S)
Inv. = 5.26 (W)
Inv. = 5.23 (E)

In Pl. SMH *5145
Rim = 16.13
Inv. = 7.26 (W)
Inv. = 7.15 (S)
Inv. = 7.14 (N)
Inv. = 7.14 (E)

In Pl. SMH *5154
Rim = 16.13
Inv. = 8.00 (N)
Inv. = 7.96 (W)
Inv. = 7.94 (E)

In Pl. SMH *5157
Rim = 15.33
Inv. = 10.28 (E)
Inv. = 10.03 (N)
Inv. = 9.95 (S)

In Pl. SMH *5163
Rim = 15.30
Inv. = 10.79 (SW)
Inv. = 10.50 (S)
Inv. = 10.47 (N)

In Pl. SMH *5195
Rim = 16.68
Inv. In = 10.98 (W)
Inv. In = 10.97 (E)
Inv. In = 10.87 (S)
Inv. In = 10.86 (N)

In Pl. SMH *5196
Rim = 15.55
Inv. = 10.15 (E)
Inv. = 10.10 (S)
Inv. = 10.09 (N)

In Pl. SMH *5209
Rim = 15.51
Inv. = 10.15 (E)
Inv. = 10.10 (S)
Inv. = 10.09 (N)

General Utility Notes:

1)Date of submittal: 7/8/22

2)Accumark,Inc.performed an underground utility designation effort in March,April,May and June 2022 within the project limits specified by the client.

3)Accumark,Inc.does not guarantee that utilities shown comprise all utilities within the project limits provided by the client

4)Field designating and marking performed by Accumark,Inc.in accordance with quality level B standards unless otherwise noted hereon as quality levels C or D.

5)Quality control / Quality assurance review performed by Todd Schuster - Accumark,Inc.

6)The utility sizes shown herein are based on information provided by the utility company's owner,by written records,by verbal information or by observed visual evidence.

7)Surveyed locations of designated utilities may not represent the exact centerline of the utility. Test holes will be necessary to identify the exact centerline.

8)Accumark recommends test holes on any utility that may present a conflcit with designed facilities.

Utility field location reference notes:

All horizontal and vertical survey data contained in utility mapping file "VB22-082 Cleveland St Accumark Utilities 7-8-22 .dwg" are referenced to traverse stations / control points as shown in a txt file entitled "20489-survey baseline_leveled.txt" provided by pmy via email on 2/28/22.

Note:

All non gravity lines are shown at Quality Level B unless otherwise noted QLC or QLD based on available information. All services represented QLC or QLD represents possible service connections based on records or field information.

SUE Quality Levels of Service (Accuracy)

QL A = Quality Level A (Test Holes)
Data typically acquired at one point on an underground utility feature exposed by air vacuum excavation or other means. The horizontal and vertical location of this reference point is acquired and reported to acceptable survey tolerances. The acquired data fulfills Section 5.4.5 on Page 6 of ASCE Standard 38-02.

QL B = Quality Level B (Utility Designation)
Depiction of an underground utility line established by sensing the location with electronic instrumentation. Linework and utility surface features are acquired by surveying points along alignment to acceptable survey tolerances.

QL C = Quality Level C (Records Plotting)
Utility information obtained from record information and plotted to correlate with surface utility features which have been survey located and accurately reduced onto design/ construction documents.

QL D = Quality Level D (Records Drafting)
Depiction of underground utility lines by transposition from utility records or placed from verbal recollections without benefit of surveyed surface features. Accuracy of information is questionable.

EOI = End of Information pertains to the loss of signal that has been applied to an underground utility and then detected to electronically locate the utility. Commonly found where utilities change to non-conductive materials,are cut or at end of utility.

UTILITY NOTES

(7) *Source of the Electric line at the E.O.I for the Light Pole is unknown. No Record information shown.*

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2022 KIMLEY-HORN AND ASSOCIATES, INC.
4525 MAIN STREET, SUITE 1000, VIRGINIA BEACH, VA 23462
PHONE: 757-213-8600
WWW.KIMLEY-HORN.COM

KHA PROJECT 116049105
DATE August 12, 2022
SCALE
DESIGNED BY
DRAWN BY
CHECKED BY

SURVEY DATA

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
1D(4)

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I1080300le.dgn
7:44:31 PM

I1080300le.dgn
Plotted By: kevin.punlnske

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

C1
Curve CLEVELAND_ST_3
PI = 103+68.10
DELTA = 5° 47' 26.37" (RT)
D = 2° 17' 31"
T = 126.44'
L = 252.67'
R = 2,500.00'
PC = 102+41.66
PT = 104+94.32

C2
Curve CLEVELAND_ST_6
PI = 119+79.51
DELTA = 11° 31' 50.93" (RT)
D = 11° 27' 33"
T = 50.48'
L = 100.63'
R = 500.00'
PC = 119+29.03
PRC = 120+29.65

C3
Curve CLEVELAND_ST_7
PI = 120+80.14
DELTA = 11° 31' 50.93" (LT)
D = 11° 27' 33"
T = 50.48'
L = 100.63'
R = 500.00'
PRC = 120+29.65
PT = 121+30.28

C4
Curve CLEVELAND_ST_10
PI = 143+16.30
DELTA = 44° 58' 01.35" (RT)
D = 11° 20' 45"
T = 209.01'
L = 396.34'
R = 505.00'
PC = 141+07.29
PRC = 145+03.63

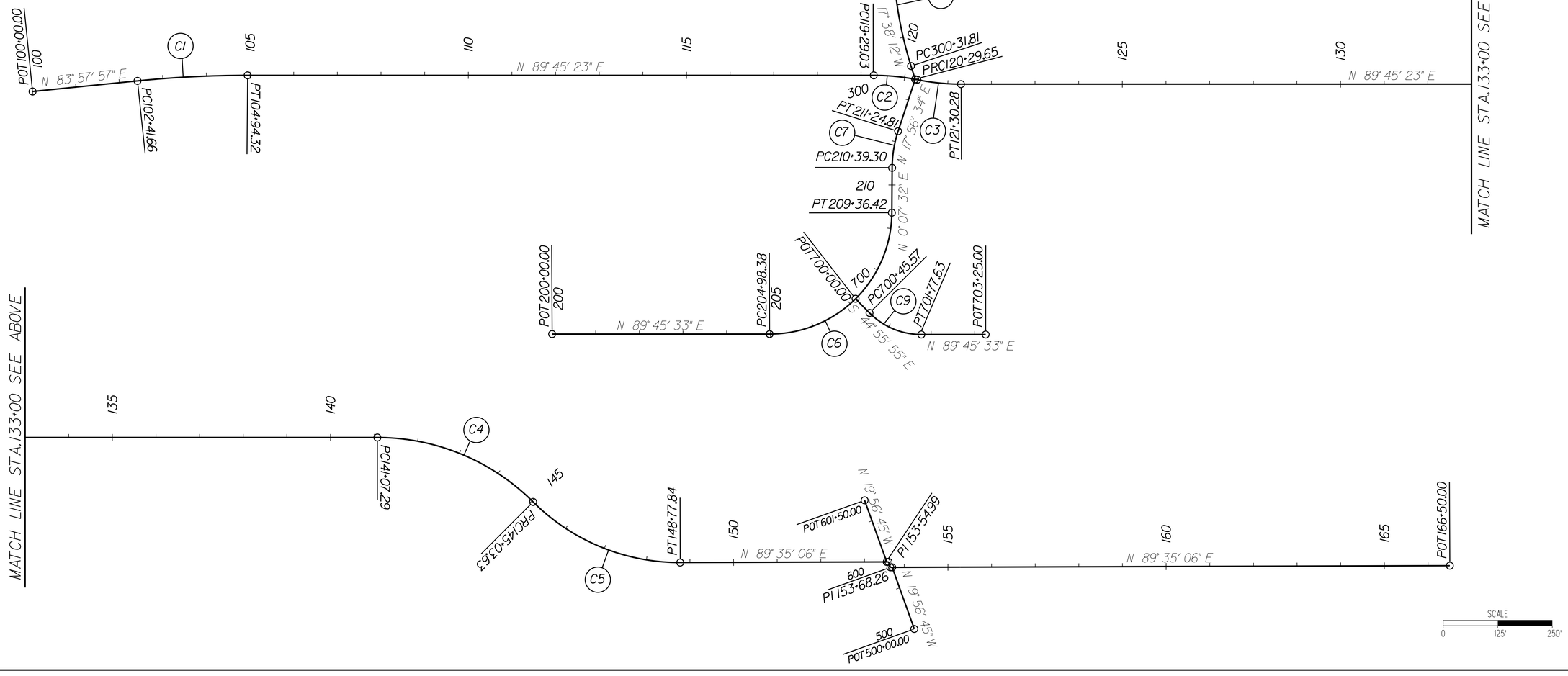
C5
Curve CLEVELAND_ST_11
PI = 147+01.05
DELTA = 45° 08' 18.21" (LT)
D = 12° 03' 44"
T = 197.42'
L = 374.21'
R = 475.00'
PRC = 145+03.63
PT = 148+77.84

C6
Curve DORSET_AVE_3
PI = 301+69.10
DELTA = 17° 20' 46.47" (RT)
D = 6° 21' 58"
T = 137.29'
L = 272.47'
R = 900.00'
PC = 300+31.81
PT = 303+04.28

C7
Curve SOUTHERN_BLVD_3
PI = 207+76.60
DELTA = 89° 38' 00.76" (LT)
D = 20° 27' 46"
T = 278.21'
L = 438.03'
R = 280.00'
PC = 204+98.38
PT = 209+36.42

C8
Curve SOUTHERN_BLVD_6
PI = 210+82.40
DELTA = 17° 49' 02.30" (RT)
D = 20° 50' 05"
T = 43.11'
L = 85.52'
R = 275.00'
PC = 210+39.30
PT = 211+24.81

C9
Curve SOUTHERN_CNCT_3
PI = 701+15.27
DELTA = 45° 18' 32.45" (LT)
D = 34° 18' 32"
T = 69.70'
L = 132.06'
R = 167.00'
PC = 700+45.57
PT = 701+77.63



No.	REVISIONS	DATE	BY

Kimley»Horn
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PHONE: 757-213-8600
WWW.KIMLEY-HORN.COM

KHA PROJECT	116049105
DATE	August 12, 2022
SCALE	
DESIGNED BY	
DRAWN BY	
CHECKED BY	

ALIGNMENT LAYOUT

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
1E

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

Chain CLEVELAND_ST contains:
67 CUR CLEVELAND_ST_3 CUR CLEVELAND_ST_6 CUR CLEVELAND_ST_7 CUR CLEVELAND_ST_I-
0 CUR CLEVELAND_ST_II 68 69 70

Beginning chain CLEVELAND_ST description
Feature: - 25 Scale Baselines

****

Point 67 N 3,474,564.46 E 12,167,943.80 Sta 100+00.00

Course from 67 to PC CLEVELAND_ST_3 N 83° 57' 56.95" E Dist 241.66

Curve Data

Curve CLEVELAND_ST_3
P.I. Station 103+68.10 N 3,474,603.16 E 12,168,309.85
Delta = 5° 47' 26.37" (RT)
Degree = 2° 17' 30.59"
Tangent = 126.44
Length = 252.67
Radius = 2,500.00
External = 3.20
Long Chord = 252.56
Mid.Ord. = 3.19
P.C. Station 102+41.66 N 3,474,589.87 E 12,168,184.11
P.T. Station 104+94.32 N 3,474,603.69 E 12,168,436.29
C.C. N 3,472,103.72 E 12,168,446.92
Back = N 83° 57' 56.95" E
Ahead = N 89° 45' 23.32" E
Chord Bear = N 86° 51' 40.14" E

Course from PT CLEVELAND_ST_3 to PC CLEVELAND_ST_6 N 89° 45' 23.32" E Dist 1,434.70

Curve Data

Curve CLEVELAND_ST_6
P.I. Station 119+79.51 N 3,474,610.01 E 12,169,921.47
Delta = 11° 31' 50.93" (RT)
Degree = 11° 27' 32.96"
Tangent = 50.48
Length = 100.63
Radius = 500.00
External = 2.54
Long Chord = 100.46
Mid.Ord. = 2.53
P.C. Station 119+29.03 N 3,474,609.79 E 12,169,870.98
P.T. Station 120+29.65 N 3,474,600.13 E 12,169,970.97
C.C. N 3,474,109.80 E 12,169,873.11
Back = N 89° 45' 23.32" E
Ahead = S 78° 42' 45.75" E
Chord Bear = S 84° 28' 41.21" E

Curve Data

Curve CLEVELAND_ST_7
P.I. Station 120+80.14 N 3,474,590.24 E 12,170,020.48
Delta = 11° 31' 50.93" (LT)
Degree = 11° 27' 32.96"
Tangent = 50.48
Length = 100.63
Radius = 500.00
External = 2.54
Long Chord = 100.46
Mid.Ord. = 2.53
P.C. Station 120+29.65 N 3,474,600.13 E 12,169,970.97
P.T. Station 121+30.28 N 3,474,590.46 E 12,170,070.96
C.C. N 3,475,090.45 E 12,170,068.84
Back = S 78° 42' 45.75" E
Ahead = N 89° 45' 23.32" E
Chord Bear = S 84° 28' 41.21" E

Course from PT CLEVELAND_ST_7 to PC CLEVELAND_ST_10 N 89° 45' 23.32" E Dist 1,977.02

Curve Data

Curve CLEVELAND_ST_10
P.I. Station 143+16.30 N 3,474,599.75 E 12,172,256.97
Delta = 44° 58' 01.35" (RT)
Degree = 11° 20' 44.52"
Tangent = 209.01
Length = 396.34
Radius = 505.00
External = 41.54
Long Chord = 386.24
Mid.Ord. = 38.39
P.C. Station 141+07.29 N 3,474,598.86 E 12,172,047.96
P.T. Station 145+03.63 N 3,474,452.67 E 12,172,405.47
C.C. N 3,474,093.87 E 12,172,050.11
Back = N 89° 45' 23.32" E
Ahead = S 45° 16' 35.33" E
Chord Bear = S 67° 45' 36.00" E

Curve Data

Curve CLEVELAND_ST_11
P.I. Station 147+01.05 N 3,474,313.75 E 12,172,545.74
Delta = 45° 08' 18.21" (LT)
Degree = 12° 03' 44.17"
Tangent = 197.42
Length = 374.21
Radius = 475.00
External = 39.39
Long Chord = 364.61
Mid.Ord. = 36.38
P.C. Station 145+03.63 N 3,474,452.67 E 12,172,405.47
P.T. Station 148+77.84 N 3,474,315.18 E 12,172,743.16
C.C. N 3,474,790.17 E 12,172,739.72
Back = S 45° 16' 35.33" E
Ahead = N 89° 35' 06.46" E
Chord Bear = S 67° 50' 44.43" E

Course from PT CLEVELAND_ST_11 to 68 N 89° 35' 06.46" E Dist 477.15

Point 68 N 3,474,318.63 E 12,173,220.30 Sta 153+54.99

Course from 68 to 69 S 19° 56' 44.92" E Dist 13.26

Point 69 N 3,474,306.17 E 12,173,224.82 Sta 153+68.26

Course from 69 to 70 N 89° 35' 06.46" E Dist 1,281.75

Point 70 N 3,474,315.45 E 12,174,506.54 Sta 166+50.00

****

Chain SOUTHERN_BLVD contains:
65 CUR SOUTHERN_BLVD_3 CUR SOUTHERN_BLVD_6 66

Beginning chain SOUTHERN_BLVD description
Feature: - 25 Scale Baselines

****

Point 65 N 3,474,013.53 E 12,169,136.57 Sta 200+00.00

Course from 65 to PC SOUTHERN_BLVD_3 N 89° 45' 32.77" E Dist 498.38

Curve Data

Curve SOUTHERN_BLVD_3
P.I. Station 207+76.60 N 3,474,016.79 E 12,169,913.16
Delta = 89° 38' 00.16" (LT)
Degree = 20° 27' 46.00"
Tangent = 278.21
Length = 438.03
Radius = 280.00
External = 114.72
Long Chord = 394.71
Mid.Ord. = 81.38
P.C. Station 204+98.38 N 3,474,015.62 E 12,169,634.95
P.T. Station 209+36.42 N 3,474,295.01 E 12,169,913.77
C.C. N 3,474,295.62 E 12,169,633.77
Back = N 89° 45' 32.77" E
Ahead = N 0° 07' 32.01" E
Chord Bear = N 44° 56' 32.39" E

Course from PT SOUTHERN_BLVD_3 to PC SOUTHERN_BLVD_6 N 0° 07' 32.01" E Dist 102.88

Curve Data

Curve SOUTHERN_BLVD_6
P.I. Station 210+82.40 N 3,474,440.99 E 12,169,914.09
Delta = 17° 49' 02.30" (RT)
Degree = 20° 50' 05.38"
Tangent = 43.11
Length = 85.52
Radius = 275.00
External = 3.36
Long Chord = 85.17
Mid.Ord. = 3.32
P.C. Station 210+39.30 N 3,474,397.89 E 12,169,914.00
P.T. Station 211+24.81 N 3,474,482.00 E 12,169,927.37
C.C. N 3,474,397.28 E 12,170,189.00
Back = N 0° 07' 32.01" E
Ahead = N 17° 56' 34.31" E
Chord Bear = N 9° 02' 03.16" E

Course from PT SOUTHERN_BLVD_6 to 66 N 17° 56' 34.31" E Dist 125.19

Point 66 N 3,474,601.10 E 12,169,965.94 Sta 212+50.00

****

Chain DORSET_AVE contains:
63 CUR DORSET_AVE_3 64

Beginning chain DORSET_AVE description
Feature: - 25 Scale Baselines

****

Point 63 N 3,474,601.10 E 12,169,965.94 Sta 300+00.00

Course from 63 to PC DORSET_AVE_3 N 17° 38' 11.92" W Dist 31.81

Curve Data

Curve DORSET_AVE_3
P.I. Station 301+69.10 N 3,474,762.25 E 12,169,914.70
Delta = 17° 20' 46.47" (RT)
Degree = 6° 21' 58.31"
Tangent = 137.29
Length = 272.47
Radius = 900.00
External = 10.41
Long Chord = 271.43
Mid.Ord. = 10.29
P.C. Station 300+31.81 N 3,474,631.42 E 12,169,956.30
P.T. Station 303+04.28 N 3,474,899.54 E 12,169,914.01
C.C. N 3,474,904.10 E 12,170,814.00
Back = N 17° 38' 11.92" W
Ahead = N 0° 17' 25.45" W
Chord Bear = N 8° 57' 48.69" W

Course from PT DORSET_AVE_3 to 64 N 0° 17' 25.45" W Dist 170.72

Point 64 N 3,475,070.25 E 12,169,913.14 Sta 304+75.00

****

Chain KELLAM_SOUTH contains:
73 74

Beginning chain KELLAM_SOUTH description
Feature: - 25 Scale Baselines

****

Point 73 N 3,474,165.19 E 12,173,280.01 Sta 500+00.00

Course from 73 to 74 N 19° 56' 44.92" W Dist 150.00

Point 74 N 3,474,306.20 E 12,173,228.84 Sta 501+50.00

****

Chain KELLAM_NORTH contains:
71 72

Beginning chain KELLAM_NORTH description
Feature: - 25 Scale Baselines

****

Point 71 N 3,474,318.61 E 12,173,216.28 Sta 600+00.00

Course from 71 to 72 N 19° 56' 44.92" W Dist 150.00

Point 72 N 3,474,459.61 E 12,173,165.11 Sta 601+50.00

****

Chain SOUTHERN_CNCT contains:
81 CUR SOUTHERN_CNCT_3 82

Beginning chain SOUTHERN_CNCT description
Feature: - 25 Scale Baselines

****

Point 81 N 3,474,097.40 E 12,169,831.53 Sta 700+00.00

Course from 81 to PC SOUTHERN_CNCT_3 S 44° 55' 54.78" E Dist 45.57

Curve Data

Curve SOUTHERN_CNCT_3
P.I. Station 701+15.27 N 3,474,015.79 E 12,169,912.94
Delta = 45° 18' 32.45" (LT)
Degree = 34° 18' 31.86"
Tangent = 69.70
Length = 132.06
Radius = 167.00
External = 13.96
Long Chord = 128.65
Mid.Ord. = 12.89
P.C. Station 700+45.57 N 3,474,065.14 E 12,169,863.71
P.T. Station 701+77.63 N 3,474,016.08 E 12,169,982.64
C.C. N 3,474,183.08 E 12,169,981.94
Back = S 44° 55' 54.78" E
Ahead = N 89° 45' 32.77" E
Chord Bear = S 67° 35' 11.00" E

Course from PT SOUTHERN_CNCT_3 to 82 N 89° 45' 32.77" E Dist 147.37

Point 82 N 3,474,016.70 E 12,170,130.01 Sta 703+25.00

****

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No.	REVISIONS	DATE	BY

Kimley»Horn
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KHA PROJECT	116049105
DATE	August 12, 2022
SCALE	
DESIGNED BY	
DRAWN BY	
CHECKED BY	

ALIGNMENT DATA

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
1F

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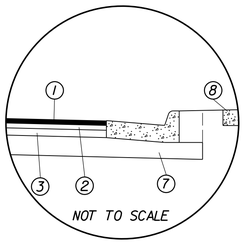
INSET A



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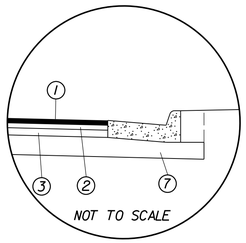

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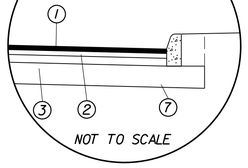

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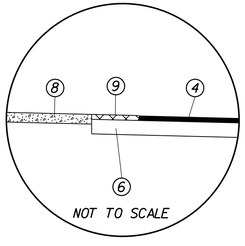

(1) 2" ASPHALT CONCRETE SURFACE COURSE. TYPE SM-12.5D @ 220 LBS/SY

(2) 2" ASPHALT CONCRETE INTERMEDIATE COURSE. TYPE IM-19.0D @ 220 LBS/SY

(3) 3" ASPHALT CONCRETE BASE COURSE. TYPE BM-25.0A @ 440 LBS/SY

(4) 2" ASPHALT CONCRETE SURFACE COURSE. TYPE SM-12.5A @ 220 LBS/SY

(5) 4" ASPHALT CONCRETE BASE COURSE. TYPE BM-25.0A @ 440 LBS/SY

(6) 6" AGGREGATE BASE MATERIAL,TYPE I,NO.21A OR 21B

(7) 8" AGGREGATE BASE MATERIAL,TYPE I,NO.21A OR 21B

(8) 4" HYDRAULIC CEMENT CONCRETE SIDEWALK

(9) MODULAR PAVERS

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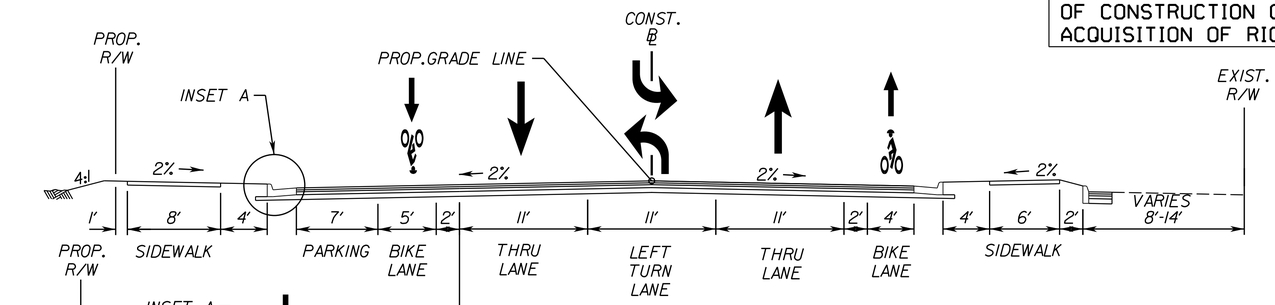
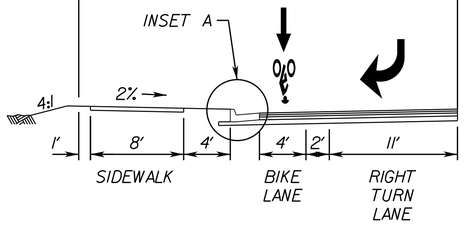
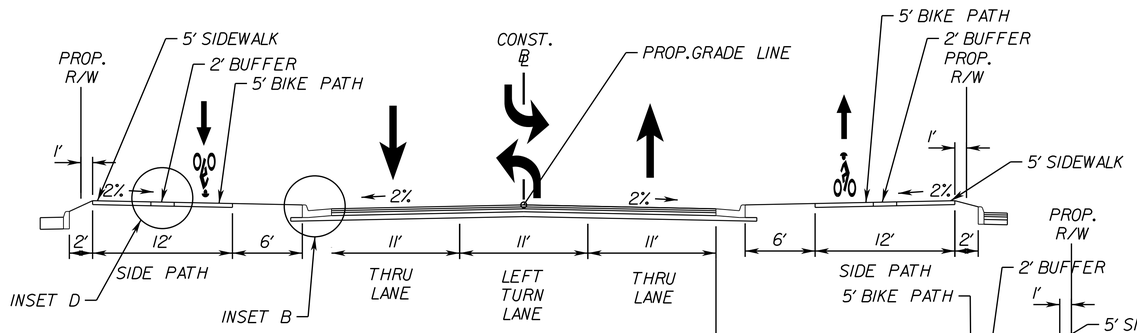


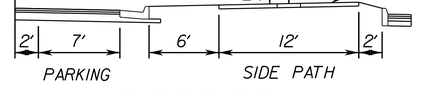
CLEVELAND STREET
STA.103+00 TO 120+00



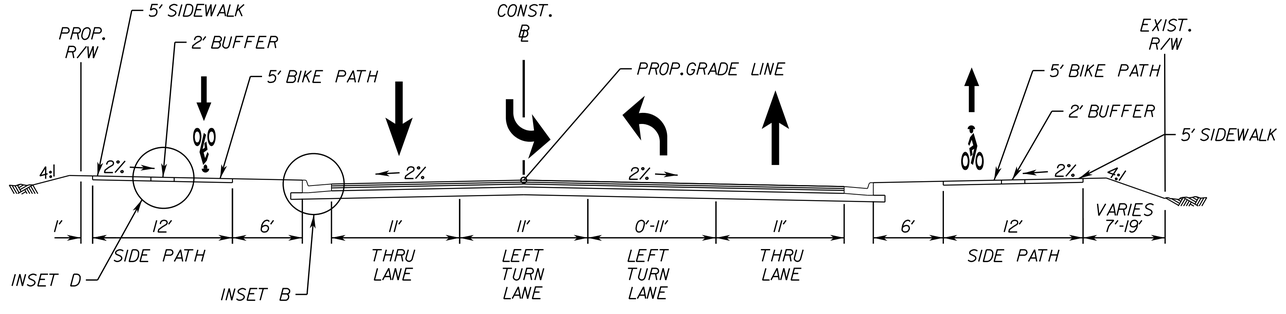
STA.103+00 TO 107+30



CLEVELAND STREET
STA.120+00 TO 149+00



STA.127+00 TO 137+50



CLEVELAND STREET
STA.149+00 TO 153+50

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No.	REVISIONS	DATE	BY

KHA PROJECT 116049105
DATE August 12, 2022
SCALE
DESIGNED BY
DRAWN BY
CHECKED BY

TYPICAL SECTIONS

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
2C(1)

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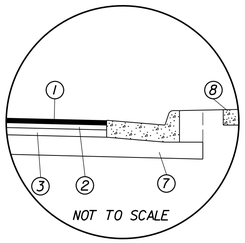
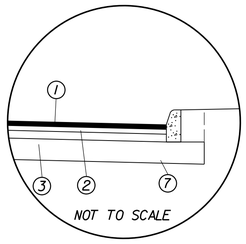
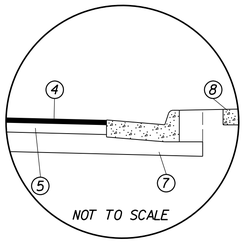
INSET A



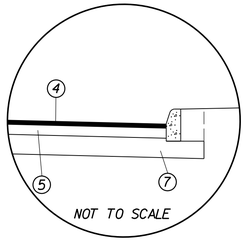
INSET B



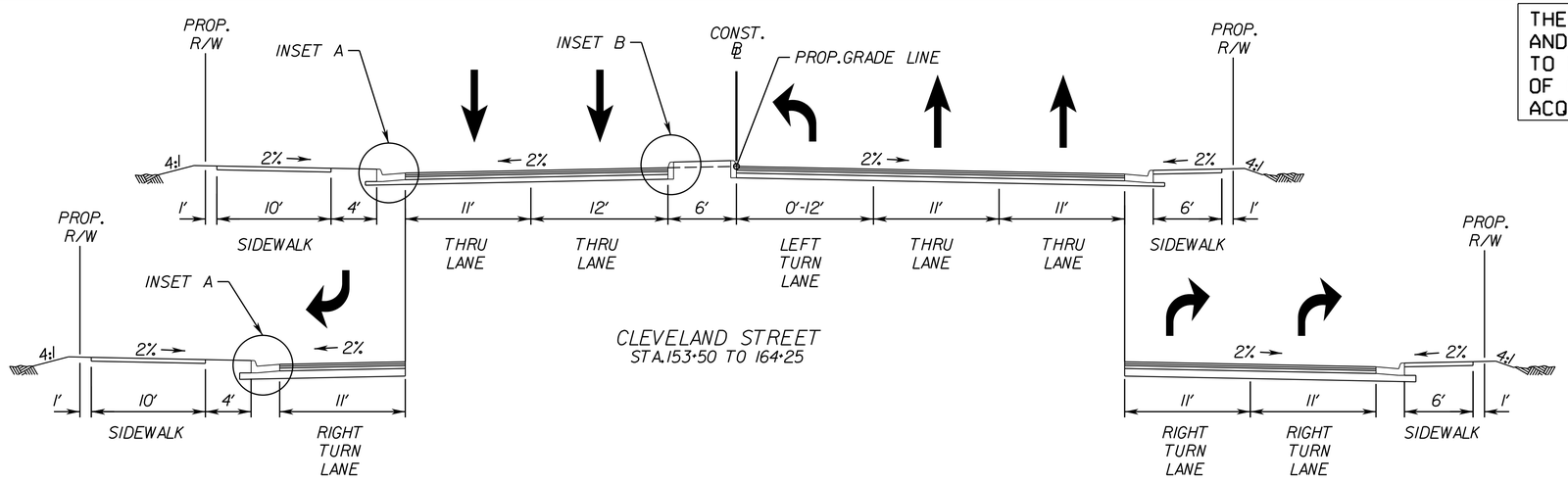
INSET C



INSET D



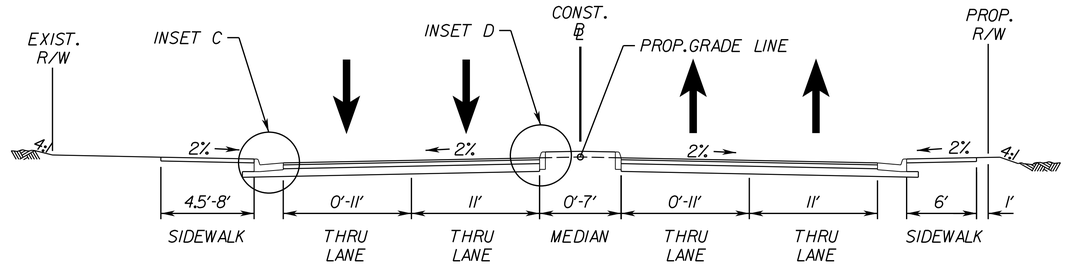
1. 2" ASPHALT CONCRETE SURFACE COURSE. TYPE SM-12.5D @ 220 LBS/SY
2. 2" ASPHALT CONCRETE INTERMEDIATE COURSE. TYPE IM-19.0D @ 220 LBS/SY
3. 3" ASPHALT CONCRETE BASE COURSE. TYPE BM-25.0A @ 440 LBS/SY
4. 2" ASPHALT CONCRETE SURFACE COURSE. TYPE SM-12.5A @ 220 LBS/SY
5. 4" ASPHALT CONCRETE BASE COURSE. TYPE BM-25.0A @ 440 LBS/SY
6. 6" AGGREGATE BASE MATERIAL,TYPE I,NO.21A OR 21B
7. 8" AGGREGATE BASE MATERIAL,TYPE I,NO.21A OR 21B
8. 4" HYDRAULIC CEMENT CONCRETE SIDEWALK
9. MODULAR PAVERS



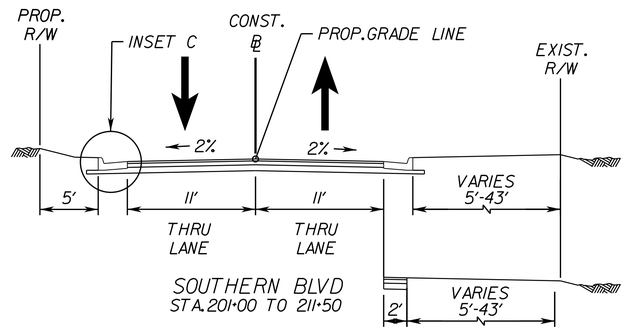
CLEVELAND STREET
STA.153+50 TO 164+25

STA.159+75 TO 161+75

STA.161+25 TO 164+25

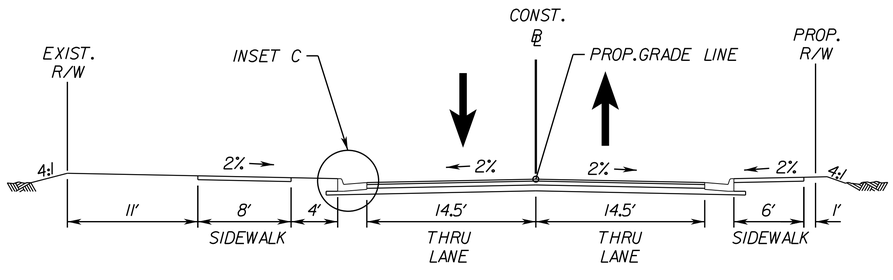


DORSET AVE
STA.300+75 TO 304+00

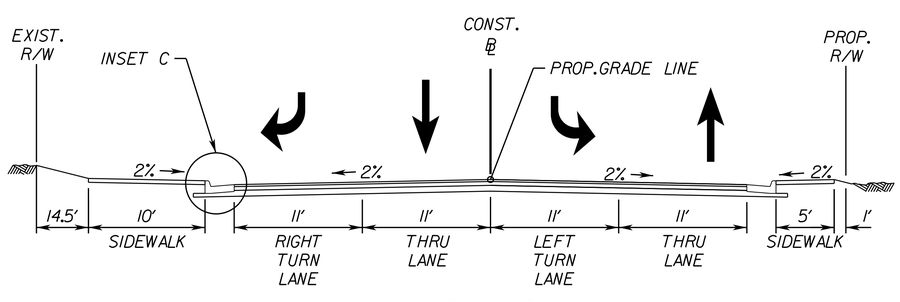


SOUTHERN BLVD
STA.201+00 TO 211+50

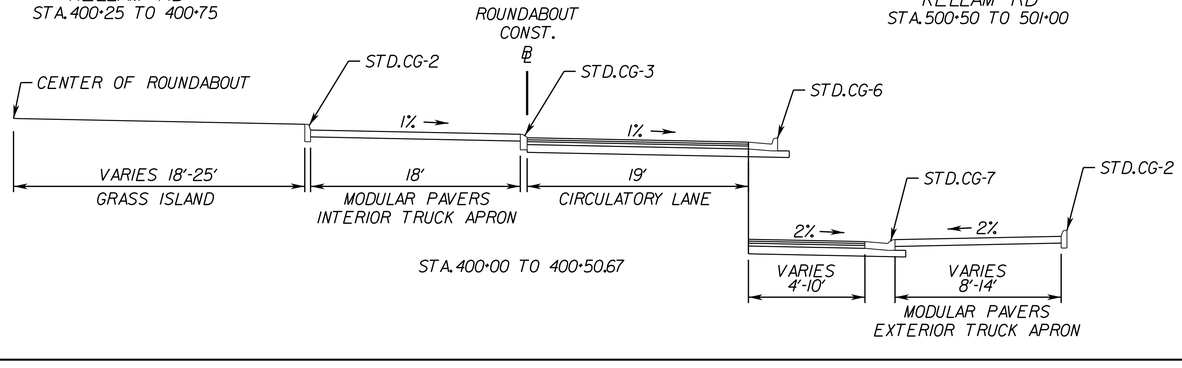
STA.201+00 TO 207+25



KELLAM RD
STA.400+25 TO 400+75



KELLAM RD
STA.500+50 TO 501+00



STA.400+00 TO 400+50.67

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No.	REVISIONS	DATE	BY

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KHA PROJECT	116049105
DATE	August 12, 2022
SCALE	
DESIGNED BY	
DRAWN BY	
CHECKED BY	

TYPICAL SECTIONS

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
2C(2)

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I10803003.dgn
Plotted By: kevin.punlnske

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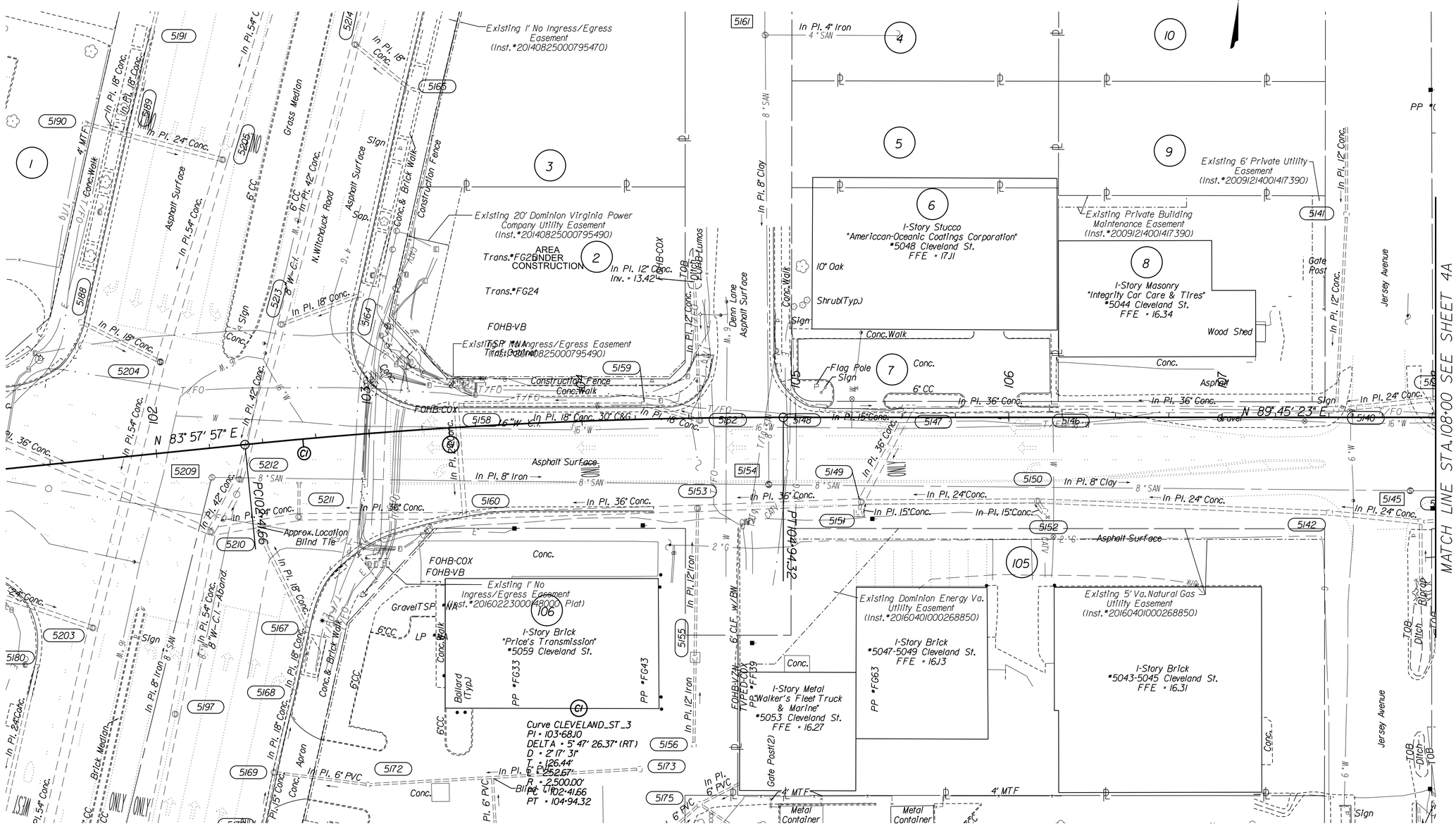

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)	
3A	ROADWAY PLAN
3B	ROADWAY PROFILE

SCALE
0 25' 50'

No.	REVISIONS	DATE	BY

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TOPOGRAPHIC SURVEY
CLEVELAND STREET
STA. 101+00 TO STA. 113+00

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
3

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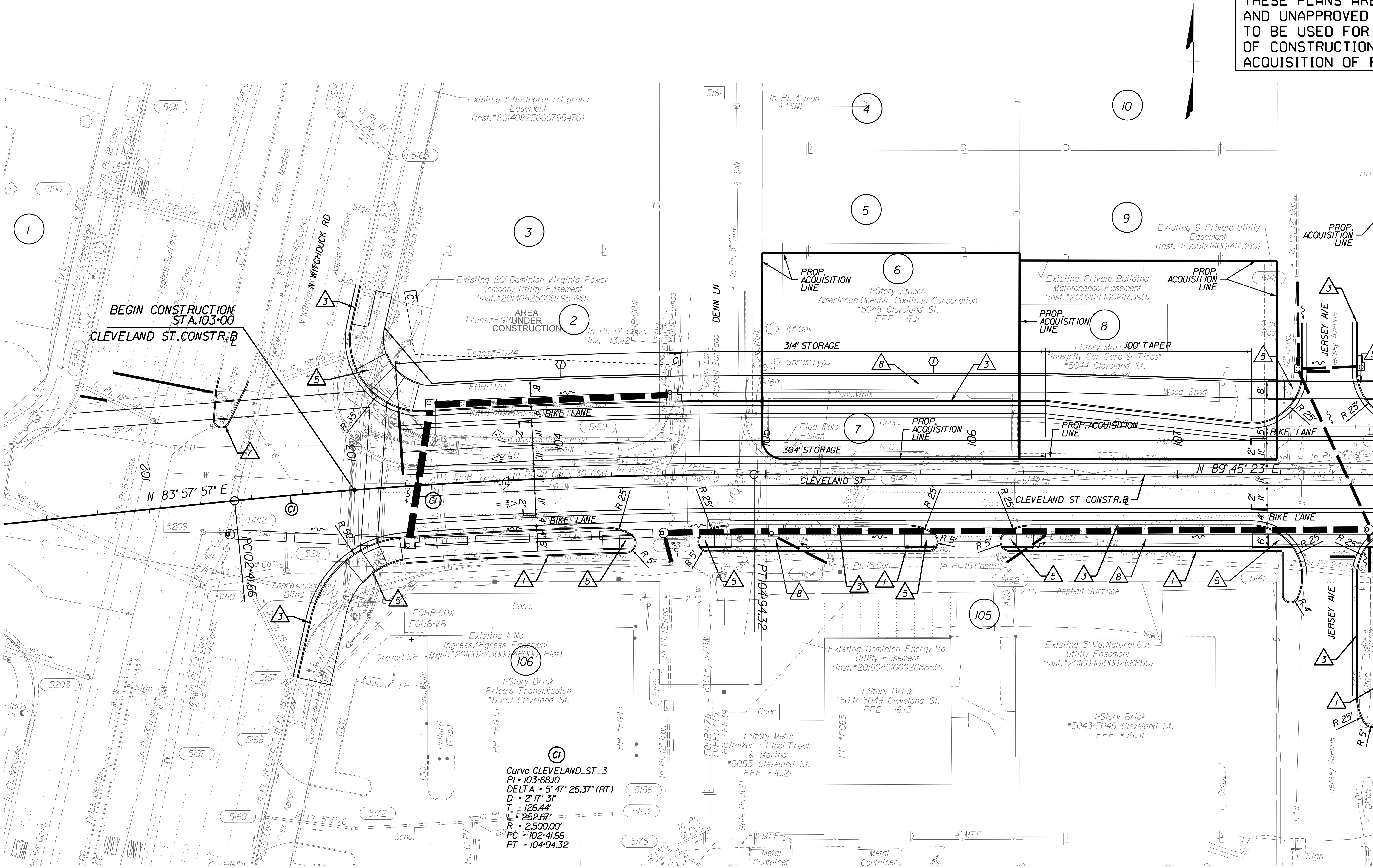

<u>LEGEND</u>

(shaded box)	PROP.ASPHALT PAVEMENT
(dotted box)	PROP.MILLING AND OVERLAY
(box)	PROP.CONC.ITEMS
F	DENOTES PROP.FILL LINE
C	DENOTES PROP.CUT LINE
1	PROP.R/W
2	PROP.PERM.DRAIN.EASEMENT
3	PROP.PERM.UTILITY EASEMENT
4	PROP.TEMP.CONSTR.EASEMENT
△1	ST'D.CG-2 REQ'D
△2	ST'D.CG-3 REQ'D
△3	ST'D.CG-6 REQ'D
△4	ST'D.CG-12 TYPE A REQ'D
△5	ST'D.CG-12 TYPE B REQ'D
△6	ST'D.CG-12 TYPE R12 REQ'D
△7	ST'D.CG-12 TYPE M2 REQ'D
△8	HYDR.CEMENT CONC.SIDEWALK REQ'D
△9	SHARED SIDE PATH
△10	ST'D.MS-1 REQ'D
△11	ST'D.MS-2 REQ'D
△12	ST'D.HRPDC CI_10 REQ'D
△13	CONCRETE TRUCK APRON

REFERENCES
(PROFILES,DETAIL & DRAINAGE DESCRIPTION SHEETS,ETC.)

3	TOPOGRAPHIC SURVEY
3B	ROADWAY PROFILE

SCALE 0 25' 50'

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KHA PROJECT 116049105
DATE August 12, 2022
SCALE
DESIGNED BY
DRAWN BY
CHECKED BY

ROADWAY PLAN CLEVELAND STREET
STA. 101+00 TO STA. 113+00

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
3A

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CLEVELAND STREET CONST.℄

STA = 103+55.00
EL = 14.89
ex = 0.12'
K = 101
L = 100.00
V = 50 MPH

PROPOSED GRADE LINE

-0.50%

STA = 107+25.00
EL = 16.76
SSD = 107.3'
ex = -0.13'
K = 95
L = 100.00
V = 50 MPH

-0.55%

BEGIN PROJECT
BEGIN CONSTRUCTION POT STA.103+00
CLEVELAND STREET CONST.℄

EXISTING GRADE LINE

NORTH JERSEY AVE. CONST.℄ STA.107+73.77

SOUTH JERSEY AVE. CONST.℄ STA.107+73.77

MATCH LINE SHEET 4B
CLEVELAND ST CONST.℄ STA.108+00

NC

20
15
10
5

15.16 15.16 | 15.04 15.06 | 14.91 15.02 | 15.01 15.04 | 15.22 15.12 | 15.35 15.25 | 15.42 15.37 | 15.53 15.50 | 15.51 15.62 | 15.31 15.75 | 15.41 15.88 | 15.60 16.00 | 15.60 16.13 | 15.55 16.26 | 15.66 16.38 | 15.62 16.51 | 15.75 16.60 | 15.76 16.83 | 15.58 16.59 | 16.04 16.49 | 15.15 16.35

103+00.00 | 104+00.00 | 105+00.00 | 106+00.00 | 107+00.00 | 108+00.00

SOUTH JERSEY AVE. CONST.℄

PROPOSED GRADE LINE

15.96 -0.54% -2.00% 16.49

EXISTING GRADE LINE

STA = 10+87.50
EL = 15.74
ex = 0.06'
K = 8
L = 20.00

15.60 15.98 | 15.95 15.94 | 16.00 15.81 | 16.12 15.99 | 16.04 16.49

11+00.00

NORTH JERSEY AVE. CONST.℄

STA = 10+53.50
EL = 16.25
ex = -0.03'
K = 4
L = 10.00

EXISTING GRADE LINE

16.49 -2.00% -2.17% -0.11% 16.25

STA = 10+33.50
EL = 15.82
ex = 0.08'
K = 4
L = 15.00

PROPOSED GRADE LINE

16.04 16.49 | 16.12 15.99 | 16.26 16.8

10+00.00

HORIZONTAL SCALE
0 25' 50'

VERTICAL SCALE
0 5' 10'

No.	REVISIONS	DATE	BY

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KHA PROJECT 116049105
DATE August 12, 2022
SCALE 1" = 25'
DESIGNED BY KMP
DRAWN BY KMP
CHECKED BY

PROFILE CLEVELAND STREET
STA. 102+50 TO STA. 108+00

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
3B

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I10803004.dgn
7:45:18 PM
I10803004.dgn
Plotted By: kevin.puninske

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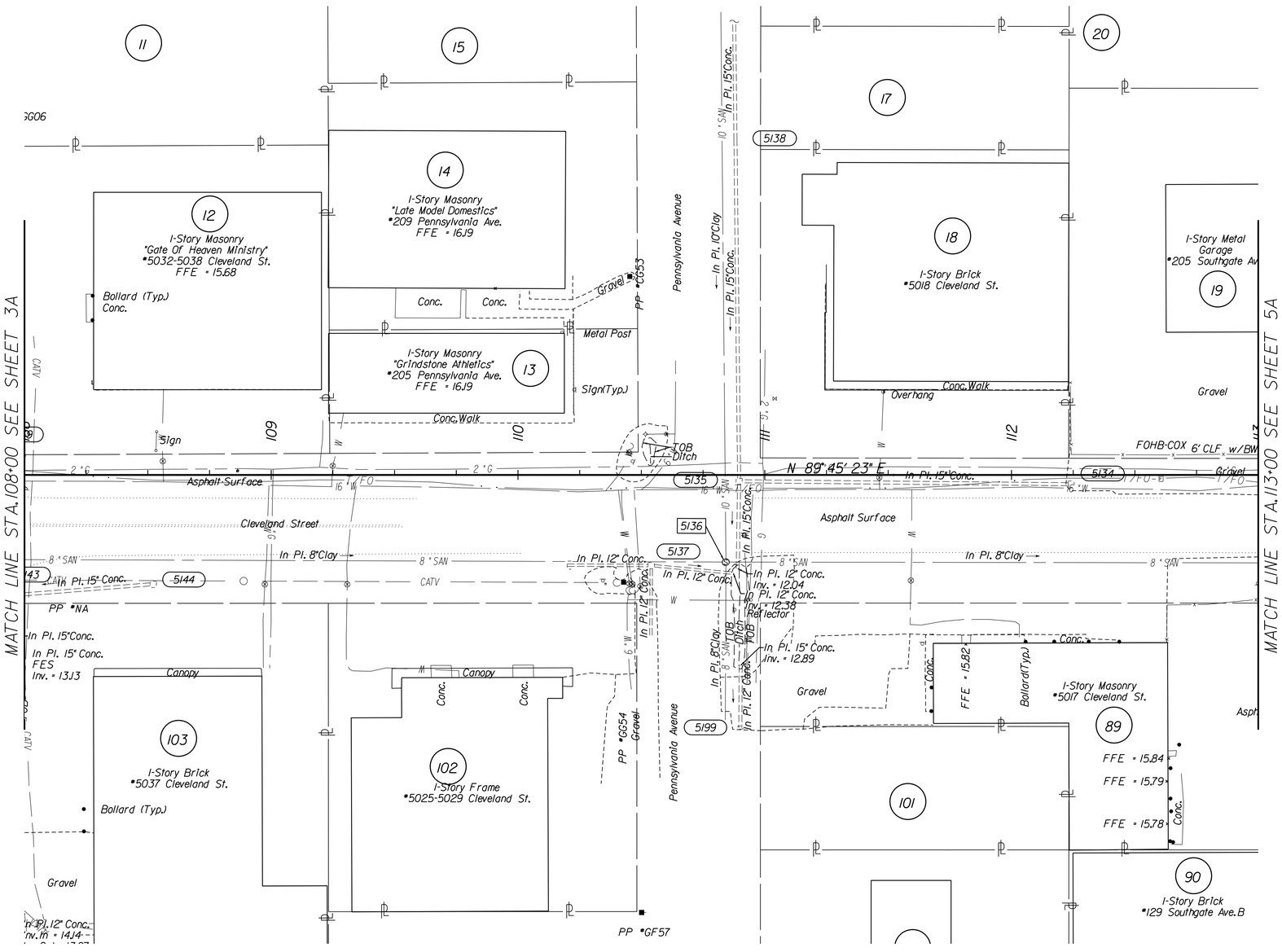

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)	
4A	ROADWAY PLAN
4B	ROADWAY PROFILE

SCALE
0 25' 50'

No.	REVISIONS	DATE	BY

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KHA PROJECT	116049105
DATE	August 12, 2022
SCALE	
DESIGNED BY	
DRAWN BY	
CHECKED BY	

TOPOGRAPHIC SURVEY
CLEVELAND STREET
STA. 108+00 TO STA. 113+00

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
4

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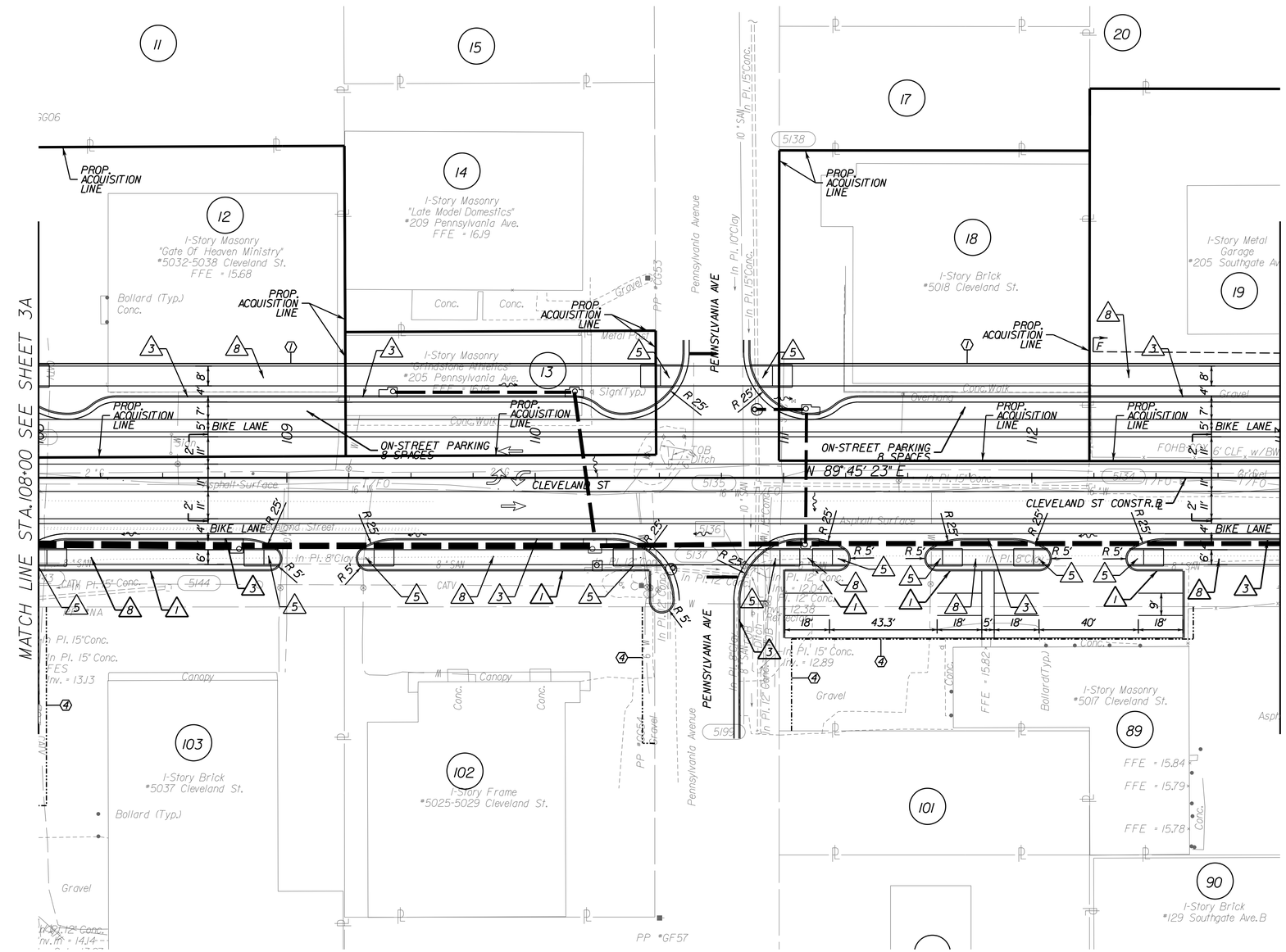

LEGEND

- PROP. ASPHALT PAVEMENT
- PROP. MILLING AND OVERLAY
- PROP. CONC. ITEMS
- F — DENOTES PROP. FILL LINE
- C — DENOTES PROP. CUT LINE
- 1 — PROP. R/W
- 2 — PROP. PERM. DRAIN. EASEMENT
- 3 — PROP. PERM. UTILITY EASEMENT
- 4 — PROP. TEMP. CONSTR. EASEMENT

1. ST'D. CG-2 REQ'D
2. ST'D. CG-3 REQ'D
3. ST'D. CG-6 REQ'D
4. ST'D. CG-12 TYPE A REQ'D
5. ST'D. CG-12 TYPE B REQ'D
6. ST'D. CG-12 TYPE RI2 REQ'D
7. ST'D. CG-12 TYPE M2 REQ'D
8. HYDR. CEMENT CONC. SIDEWALK REQ'D
9. SHARED SIDE PATH
10. ST'D. MS-1 REQ'D
11. ST'D. MS-2 REQ'D
12. ST'D. HRPDC CI_10 REQ'D
13. CONCRETE TRUCK APRON

SCALE
0 25' 50'

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

4	TOPOGRAPHIC SURVEY
4B	ROADWAY PROFILE

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KHA PROJECT 116049105
DATE August 12, 2022
SCALE
DESIGNED BY
DRAWN BY
CHECKED BY

ROADWAY PLAN CLEVELAND STREET
STA. 108+00 TO STA. 113+00

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
4A

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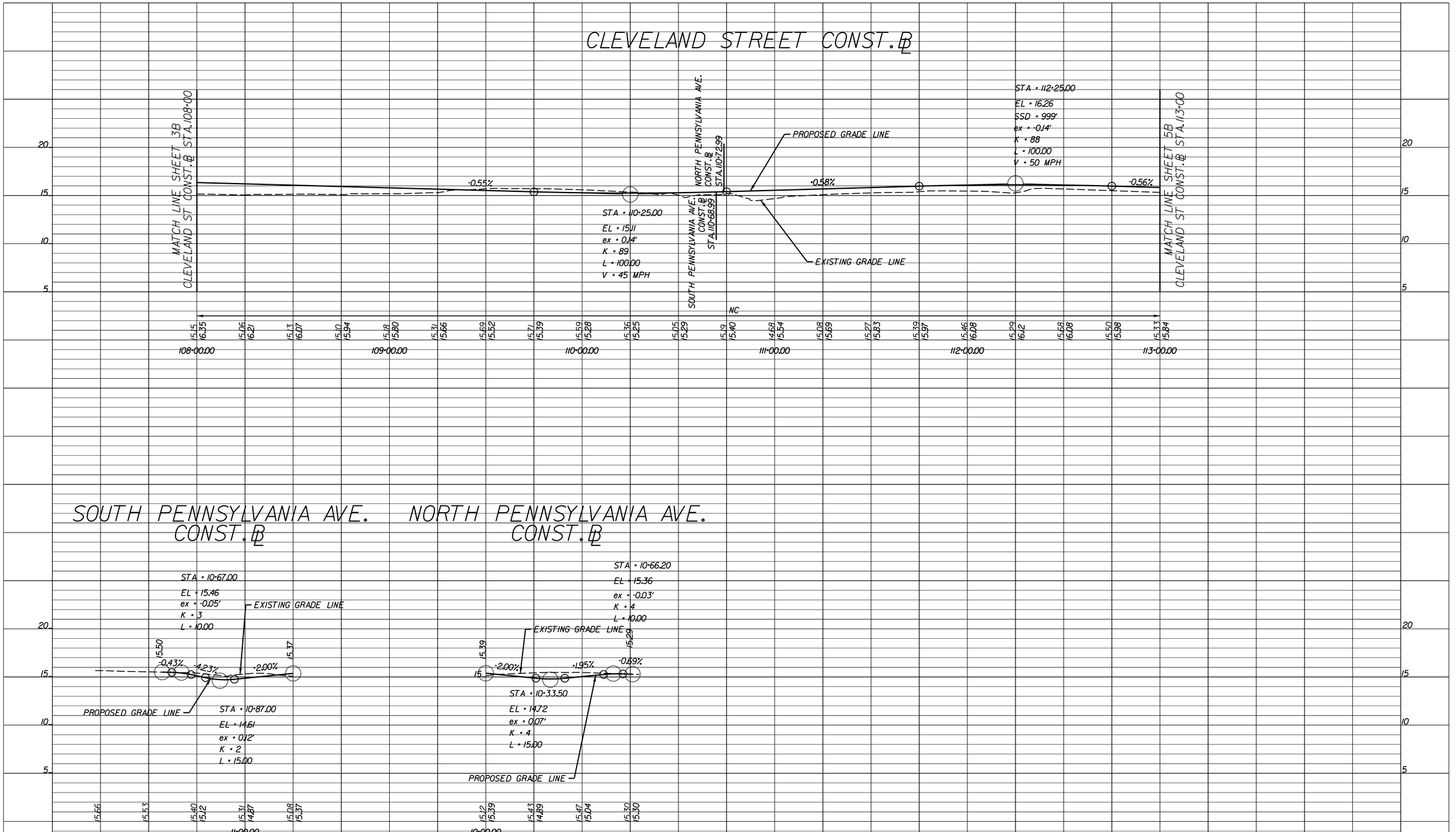
CLEVELAND STREET CONST.℄



SOUTH PENNSYLVANIA AVE. CONST.℄

NORTH PENNSYLVANIA AVE. CONST.℄

HORIZONTAL SCALE
0 25' 50'

VERTICAL SCALE
0 5' 10'

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No.	REVISIONS	DATE	BY

KHA PROJECT 116049105
DATE August 12, 2022
SCALE 1" = 25'
DESIGNED BY KMP
DRAWN BY KMP
CHECKED BY

PROFILE CLEVELAND STREET
STA. 108+00 TO STA. 113+00

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
4B

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I10803005.dgn
Plotted By: kevin.puninske

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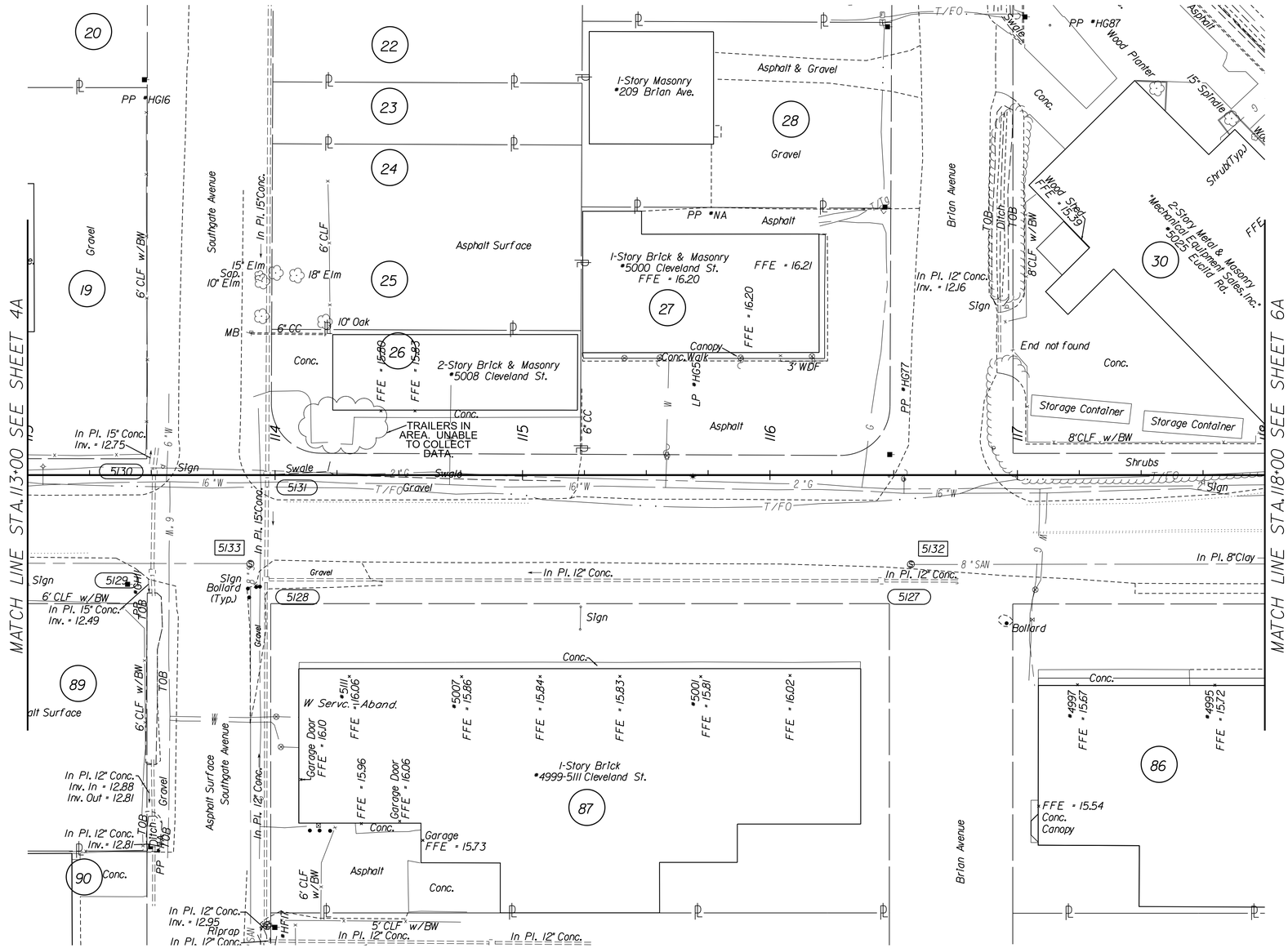

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)	
5A	ROADWAY PLAN
5B	ROADWAY PROFILE

SCALE
0 25' 50'

No.	REVISIONS	DATE	BY

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KHA PROJECT	116049105
DATE	August 12, 2022
SCALE	
DESIGNED BY	
DRAWN BY	
CHECKED BY	

TOPOGRAPHIC SURVEY
CLEVELAND STREET
STA. 113+00 TO STA. 118+00

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
5

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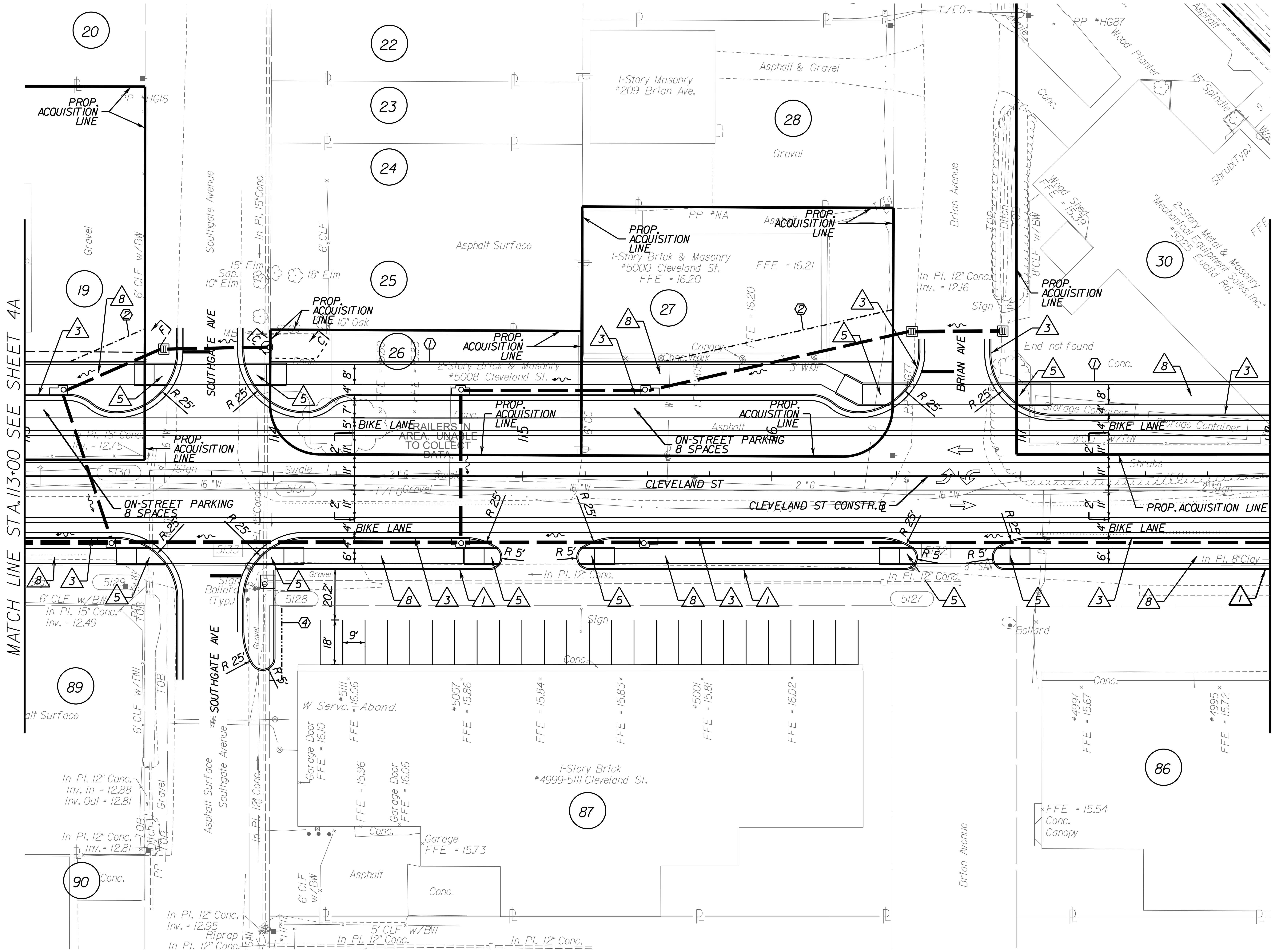

LEGEND

PROP.ASPHALT PAVEMENT
PROP.MILLING AND OVERLAY
PROP.CONC.ITEMS
F DENOTES PROP.FILL LINE
C DENOTES PROP.CUT LINE
1 PROP.R/W
2 PROP.PERM.DRAIN.EASEMENT
3 PROP.PERM.UTILITY EASEMENT
4 PROP.TEMP.CONSTR.EASEMENT

1 ST'D.CG-2 REQ'D
2 ST'D.CG-3 REQ'D
3 ST'D.CG-6 REQ'D
4 ST'D.CG-12 TYPE A REQ'D
5 ST'D.CG-12 TYPE B REQ'D
6 ST'D.CG-12 TYPE R12 REQ'D
7 ST'D.CG-12 TYPE M2 REQ'D

8 HYDR.CEMENT CONC.SIDEWALK REQ'D
9 SHARED SIDE PATH
10 ST'D.MS-1 REQ'D
11 ST'D.MS-2 REQ'D
12 ST'D.HRPDC CI_10 REQ'D
13 CONCRETE TRUCK APRON

SCALE 0 25' 50'

REFERENCES
(PROFILES,DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

5	TOPOGRAPHIC SURVEY
5B	ROADWAY PROFILE

No.	REVISIONS	DATE	BY

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KHA PROJECT 116049105
DATE August 12, 2022
SCALE
DESIGNED BY
DRAWN BY
CHECKED BY

ROADWAY PLAN CLEVELAND STREET
STA. 113+00 TO STA. 118+00

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
5A

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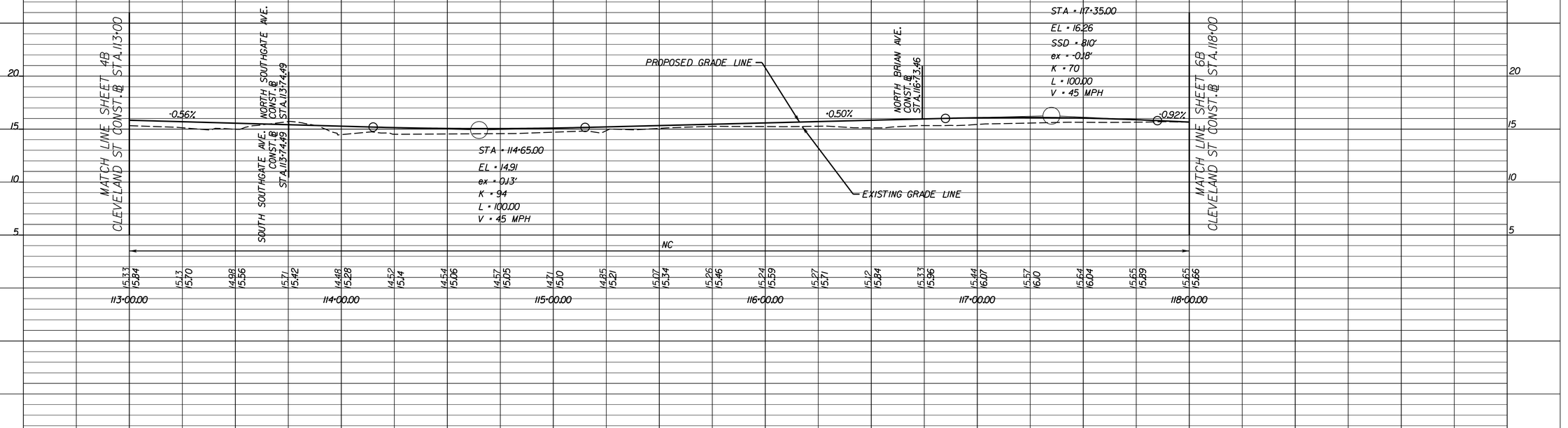
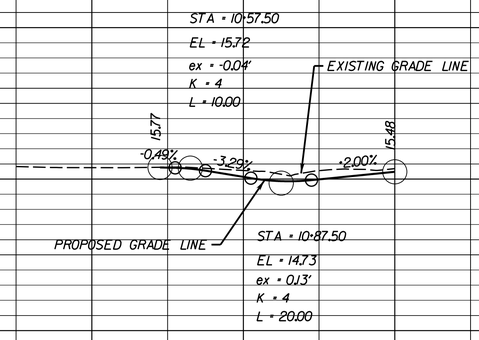
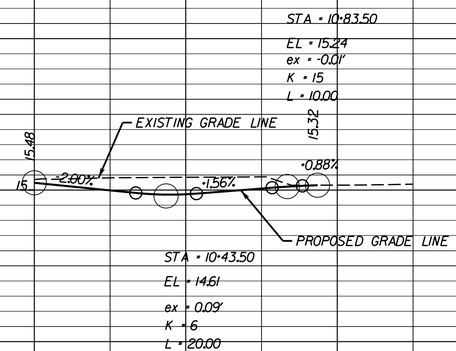
CLEVELAND STREET CONST.℄



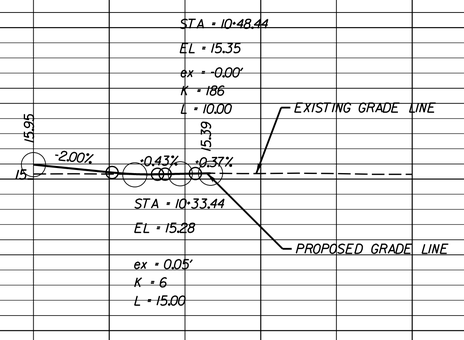
SOUTH SOUTHGATE AVE. CONST.℄



NORTH SOUTHGATE AVE. CONST.℄



NORTH BRIAN AVE. CONST.℄



HORIZONTAL SCALE
0 25' 50'

VERTICAL SCALE
0 5' 10'

No.	REVISIONS	DATE	BY

Kimley»Horn
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PHONE: 757-213-8600
WWW.KIMLEY-HORN.COM

KHA PROJECT	116049105
DATE	August 12, 2022
SCALE	1" = 25'
DESIGNED BY	KMP
DRAWN BY	KMP
CHECKED BY	

PROFILE CLEVELAND STREET
STA. 112+00 TO STA. 118+00

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
5B

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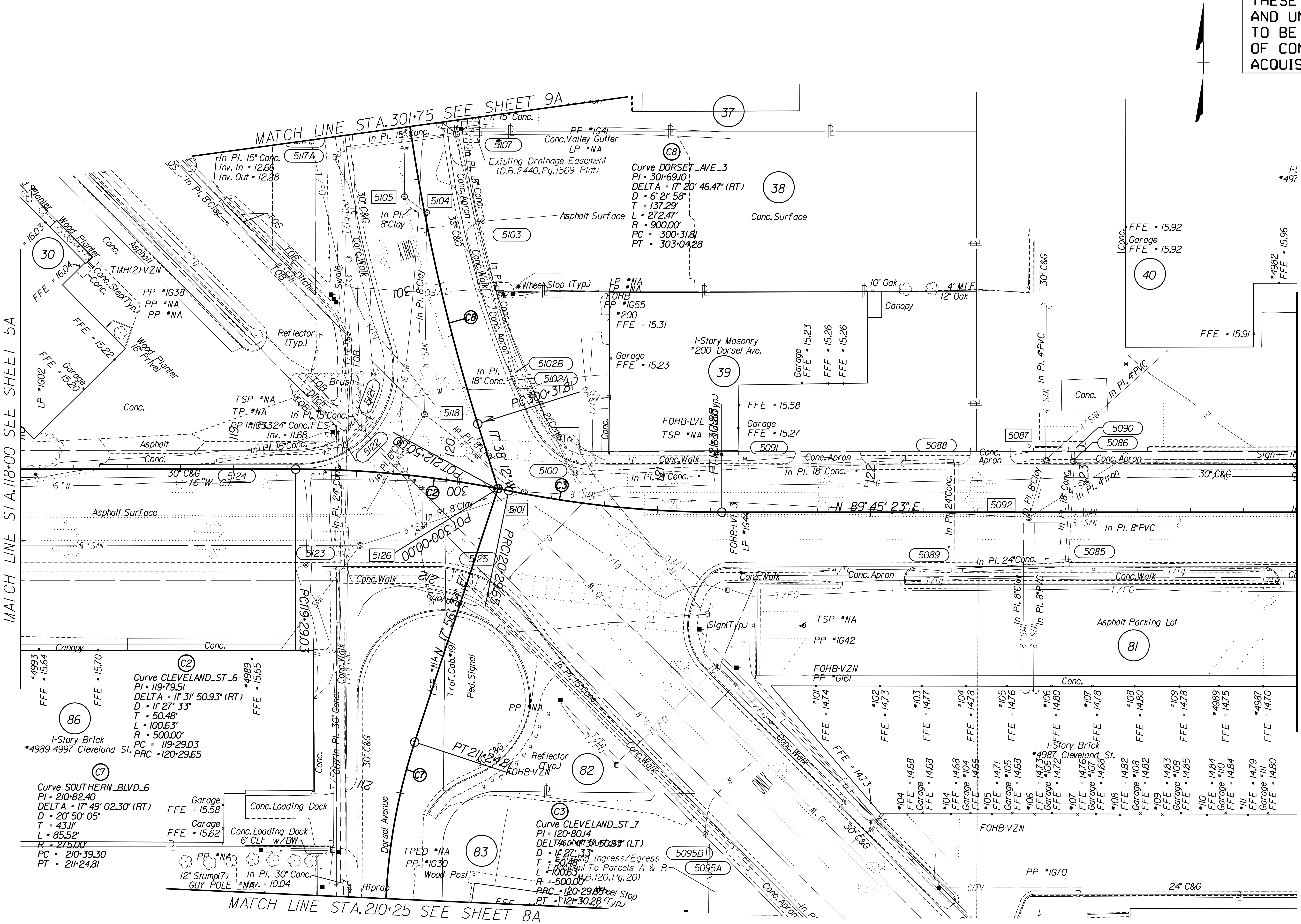

REFERENCES
(PROFILES,DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

6A	ROADWAY PLAN
6B	ROADWAY PROFILE

SCALE 0 25' 50'

No.	REVISIONS	DATE	BY

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KHA PROJECT 116049105
DATE August 12, 2022
SCALE
DESIGNED BY
DRAWN BY
CHECKED BY

TOPOGRAPHIC SURVEY
CLEVELAND STREET
STA. 118+00 TO STA. 124+00

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
6

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Plotted By: kevin.punlnske

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

MATCH LINE STA.301+75 SEE SHEET 9A

MATCH LINE STA.118+00 SEE SHEET 5A

MATCH LINE STA.124+00 SEE SHEET 10A

MATCH LINE STA.210+25 SEE SHEET 8A

EUCLID AVE

DORSET AVE

DORSET AVE CONSTR.E

CLEVELAND ST

CLEVELAND ST CONSTR.E

SOUTHERN BLVD CONSTR.E

PROP. ACQUISITION LINE

BIKE LANE

Curve DORSET_AVE_3
PI = 301+69.10
DELTA = 17° 20' 46.47" (RT)
D = 6° 21' 58"
T = 137.29'
L = 272.47'
R = 900.00'
PC = 300+31.81
PT = 303+04.28

Curve CLEVELAND_ST_6
PI = 119+79.51
DELTA = 11° 31' 50.93" (RT)
D = 11° 27' 33"
T = 50.48'
L = 100.63'
R = 500.00'
PC = 119+29.03
PRC = 120+29.65

Curve SOUTHERN_BLVD_6
PI = 210+82.40
DELTA = 17° 49' 02.30" (RT)
D = 20° 50' 05"
T = 43.11'
L = 85.52'
R = 275.00'
PC = 210+39.30
PT = 211+24.81

Curve CLEVELAND_ST_7
PI = 120+80.14
DELTA = 11° 31' 50.93" (LT)
D = 11° 27' 33"
T = 50.48'
L = 100.63'
R = 500.00'
PRC = 120+29.65
PT = 121+30.28

N 89° 45' 23" E

NS DECORATIVE FENCE

I-Story Masonry #200 Dorset Ave.

I-Story Brick #4987 Cleveland St.

I-Story Brick #4989-4997 Cleveland St.

Asphalt Parking Lot

Conc. Surface

Asphalt Surface

Canopy

Garage

Conc. Loading Dock

Conc. Apron

Conc. Walk

Reflector (Typ.)

Steel Stop (Typ.)

Sign

Existing Drainage Easement (D.B.2440, Pg.1569 Plat)

Existing Ingress/Egress Easement To Parcels A & B (D.B.120, Pg.20)

30' C&G

24" C&G

18" Conc.

In Pl. 15" Conc.

In Pl. 8" PVC

In Pl. 4" PVC

In Pl. 30" Conc.

Inv. In = 12.66
Inv. Out = 12.28

Inv. In = 11.68
Inv. Out = 11.28

12" Stump(T)
GUY POLE
Inv. = 10.04

10" Oak

4" MTR
Oak

Wood Post

FOHB-VZN

TSP *NA

PP *IG42

PP *IG70

PP *IG55

PP *IG41

PP *IG38

PP *NA

CATV

LEGEND

PROP. ASPHALT PAVEMENT
PROP. MILLING AND OVERLAY
PROP. CONC. ITEMS
DENOTES PROP. FILL LINE
DENOTES PROP. CUT LINE
PROP. R/W
PROP. PERM. DRAIN. EASEMENT
PROP. PERM. UTILITY EASEMENT
PROP. TEMP. CONSTR. EASEMENT

1 ST'D.CG-2 REQ'D
2 ST'D.CG-3 REQ'D
3 ST'D.CG-6 REQ'D
4 ST'D.CG-12 TYPE A REQ'D
5 ST'D.CG-12 TYPE B REQ'D
6 ST'D.CG-12 TYPE RI2 REQ'D
7 ST'D.CG-12 TYPE M2 REQ'D
8 HYDR.CEMENT CONC.SIDEWALK REQ'D
9 SHARED SIDE PATH
10 ST'D.MS-1 REQ'D
11 ST'D.MS-2 REQ'D
12 ST'D.HRPDC CI_10 REQ'D
13 CONCRETE TRUCK APRON

SCALE
0 25' 50'

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

6 TOPOGRAPHIC SURVEY
6B ROADWAY PROFILE

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No.	REVISIONS	DATE	BY

KHA PROJECT 116049105
DATE August 12, 2022
SCALE
DESIGNED BY
DRAWN BY
CHECKED BY

ROADWAY PLAN CLEVELAND STREET
STA. 118+00 TO STA. 124+00

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
6A

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CLEVELAND STREET CONST. ℄

MATCH LINE SHEET 5B
CLEVELAND ST CONST. ℄ STA. 118+00

-0.92%

-0.50%

STA = 119+05.00
EL = 14.70
ex = 0.18'
K = 70
L = 100.00
V = 40 MPH

-1.00%

-1.00%

DORSET AVE. CONST. ℄ STA. 120+24.52

SOUTHERN BLVD. CONST. ℄ STA. 120+24.52

-1.56%

-1.00%

-1.00%

-0.50%

EXISTING GRADE LINE

PROPOSED GRADE LINE

STA = 122+50.00
EL = 13.48
ex = 0.14'
K = 91
L = 100.00
V = 45 MPH

-0.60%

MATCH LINE SHEET 10B
CLEVELAND ST CONST. ℄ STA. 108+00

NC

ROUNDABOUT

NC

15.65 15.66 | 15.32 15.43 | 14.90 15.20 | 14.81 15.00 | 14.66 14.89 | 14.46 14.86 | 14.55 14.92 | 14.74 15.11 | 14.87 15.58 | 14.81 15.81 | 14.60 14.97 | 14.36 14.39 | 14.26 14.23 | 14.22 14.11 | 14.4 13.98 | 14.0 13.86 | 14.03 13.73 | 13.89 13.64 | 13.94 13.62 | 13.88 13.67 | 13.77 13.79 | 13.76 13.94 | 13.73 14.09 | 13.73 14.18 | 13.71 14.46

118+00.00 | 119+00.00 | 120+00.00 | 121+00.00 | 122+00.00 | 123+00.00 | 124+00.00

SOUTHERN BLVD. CONST. ℄

MATCH LINE SHEET 5B
SOUTHERN BLVD. CONST. ℄ STA. 210+50

EXISTING GRADE LINE

STA = 211+20.00
EL = 14.83
SSD = 112.0'
ex = -0.13'
K = 99
L = 100.00
V = 50 MPH

0.51%

-1.00%

STA = 211+86.20
EL = 14.49

PROPOSED GRADE LINE

ROUNDABOUT GRADING TO BE PROVIDED WITH FUTURE SUBMITTAL

14.92 14.48 | 14.98 14.60 | 14.90 14.69 | 15.9 14.70 | 15.33 14.66 | 15.36 14.55 | 14.40 14.63

211+00.00 | 212+00.00

ROUNDABOUT CONST. ℄

PROPOSED GRADE LINE

14.75

-1.00%

STA = 400+70.33
EL = 15.45
SSD = 59.0'
ex = -0.25'
K = 50
L = 100.00

-1.00%

EXISTING GRADE LINE

-1.00%

14.75

STA = 401+95.67
EL = 14.20
ex = 0.25'
K = 50
L = 100.00

14.40 14.75 | 14.40 15.00 | 14.74 15.16 | 14.71 15.20 | 14.87 15.12 | 14.37 14.91 | 14.33 14.66 | 14.35 14.49 | 14.76 14.45 | 14.37 14.54 | 14.39 14.74

400+00.00 | 401+00.00 | 402+00.00

DORSET AVE. CONST. ℄

ROUNDABOUT GRADING TO BE PROVIDED WITH FUTURE SUBMITTAL

15.12

-1.00%

STA = 300+54.77
EL = 14.93

PROPOSED GRADE LINE

-0.31%

STA = 301+10.00
EL = 14.76
ex = 0.09'
K = 141
L = 100.00
V = 60 MPH

EXISTING GRADE LINE

MATCH LINE SHEET 9B
DORSET AVE CONST. ℄ STA. 301+75

14.73 14.98 | 14.75 14.87 | 14.90 14.84 | 14.96 14.86 | 15.01 14.92 | 15.09 15.02

301+00.00

HORIZONTAL SCALE
0 25' 50'

VERTICAL SCALE
0 5' 10'

No.	REVISIONS	DATE	BY

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KHA PROJECT 116049105
DATE August 12, 2022
SCALE 1" = 25'
DESIGNED BY KMP
DRAWN BY KMP
CHECKED BY

PROFILE CLEVELAND STREET
STA. 118+00 TO STA. 124+00

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
6B

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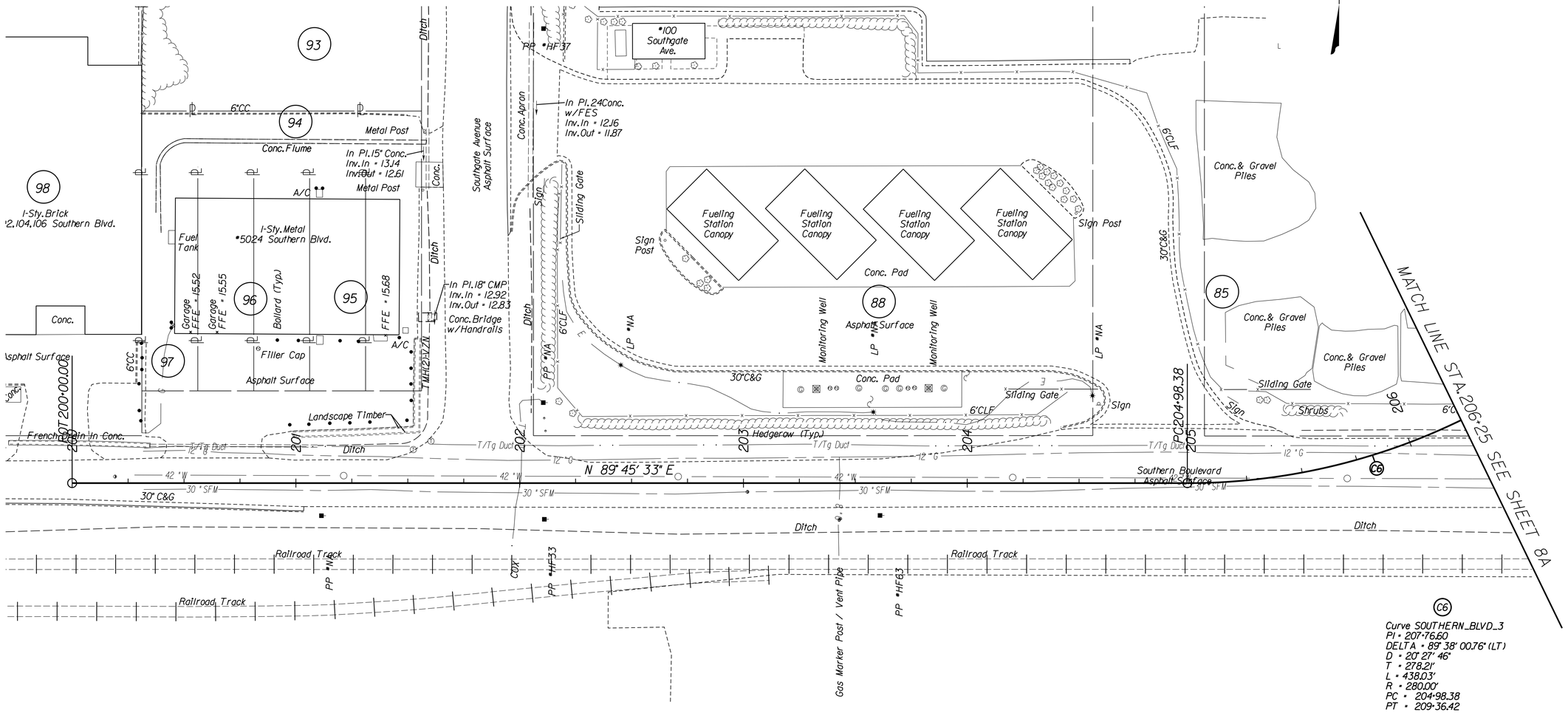

C6

Curve SOUTHERN_BLVD_3
PI = 207+76.60
DELTA = 89° 38' 00.76" (LT)
D = 20° 27' 46"
T = 278.21'
L = 438.03'
R = 280.00'
PC = 204+98.38
PT = 209+36.42

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

7A	ROADWAY PLAN
7B	ROADWAY PROFILE

SCALE
0 25' 50'

No.	REVISIONS	DATE	BY

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KHA PROJECT 116049105
DATE August 12, 2022
SCALE
DESIGNED BY
DRAWN BY
CHECKED BY

TOPOGRAPHIC SURVEY
SOUTHERN BOULEVARD
STA. 200+00 TO STA. 206+25

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
7

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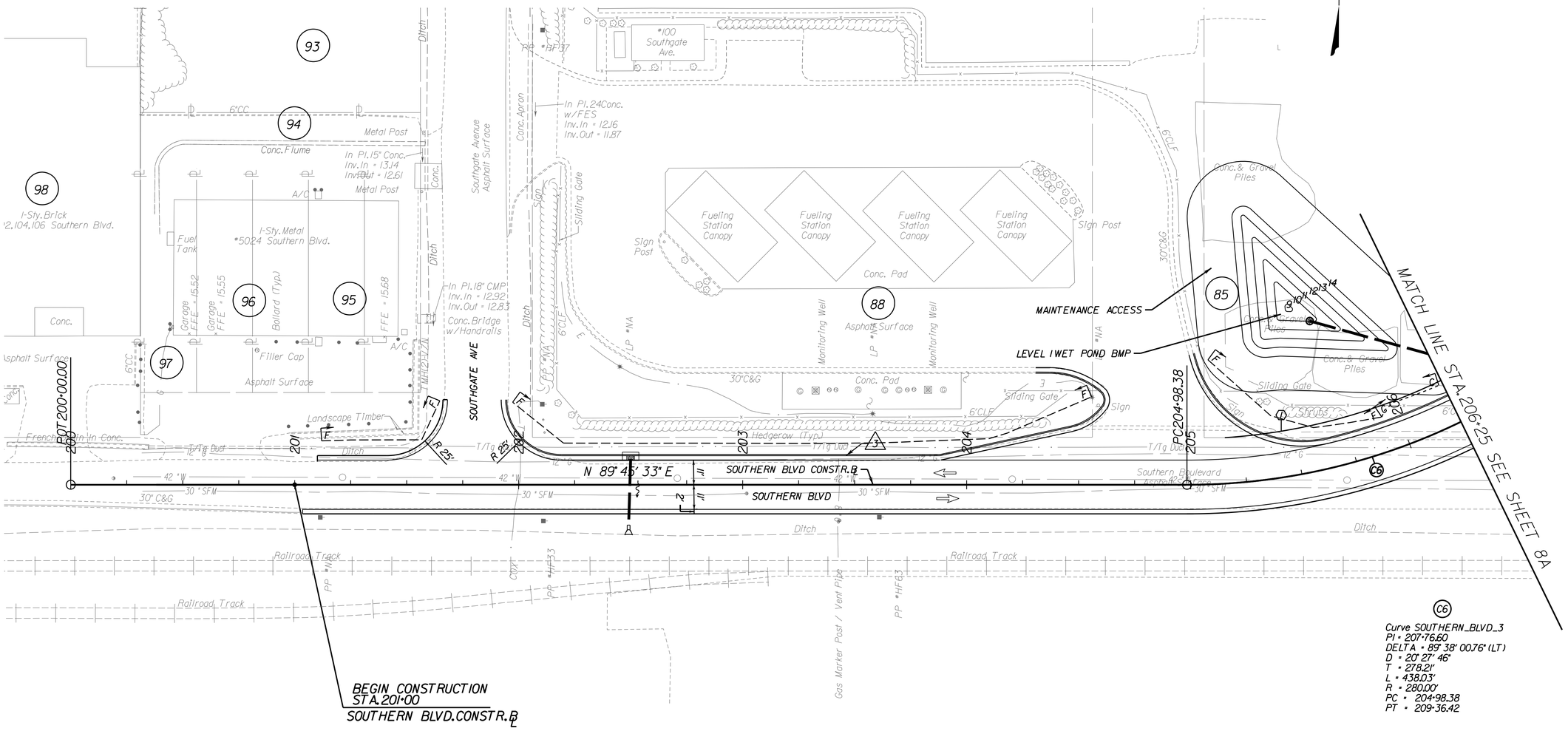

LEGEND

- PROP.ASPHALT PAVEMENT
- PROP.MILLING AND OVERLAY
- PROP.CONC.ITEMS
- F — DENOTES PROP.FILL LINE
- C — DENOTES PROP.CUT LINE
- ① PROP.R/W
- ② PROP.PERM.DRAIN.EASEMENT
- ③ PROP.PERM.UTILITY EASEMENT
- ④ PROP.TEMP.CONSTR.EASEMENT

- ① ST'D.CG-2 REQ'D
- ② ST'D.CG-3 REQ'D
- ③ ST'D.CG-6 REQ'D
- ④ ST'D.CG-12 TYPE A REQ'D
- ⑤ ST'D.CG-12 TYPE B REQ'D
- ⑥ ST'D.CG-12 TYPE RI2 REQ'D
- ⑦ ST'D.CG-12 TYPE M2 REQ'D
- ⑧ HYDR.CEMENT CONC.SIDEWALK REQ'D
- ⑨ SHARED SIDE PATH
- ⑩ ST'D.MS-1 REQ'D
- ⑪ ST'D.MS-2 REQ'D
- ⑫ ST'D.HRPDC CI_10 REQ'D
- ⑬ CONCRETE TRUCK APRON

SCALE
0 25' 50'

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

7	TOPOGRAPHIC SURVEY
7B	ROADWAY PROFILE

No.	REVISIONS	DATE	BY

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ROADWAY PLAN SOUTHERN BOULEVARD
STA. 200+00 TO STA. 206+25

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
7A

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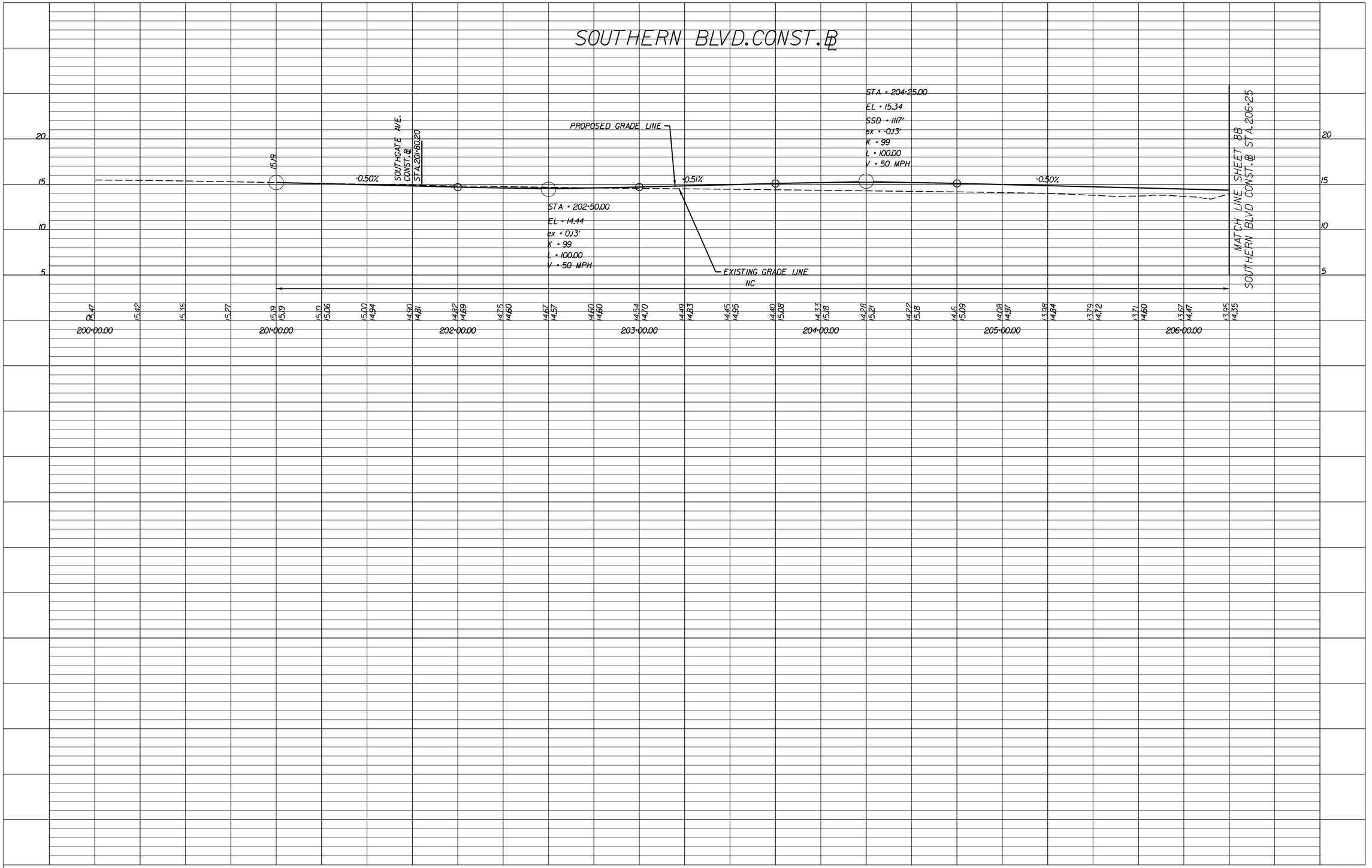
SOUTHERN BLVD. CONST. ℄



HORIZONTAL SCALE
0 25' 50'

VERTICAL SCALE
0 5' 10'

No.	REVISIONS	DATE	BY

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DATE August 12, 2022
SCALE 1" = 25'
DESIGNED BY KMP
DRAWN BY KMP
CHECKED BY

PROFILE SOUTHERN BLVD.
STA. 200+00 TO STA. 206+25

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
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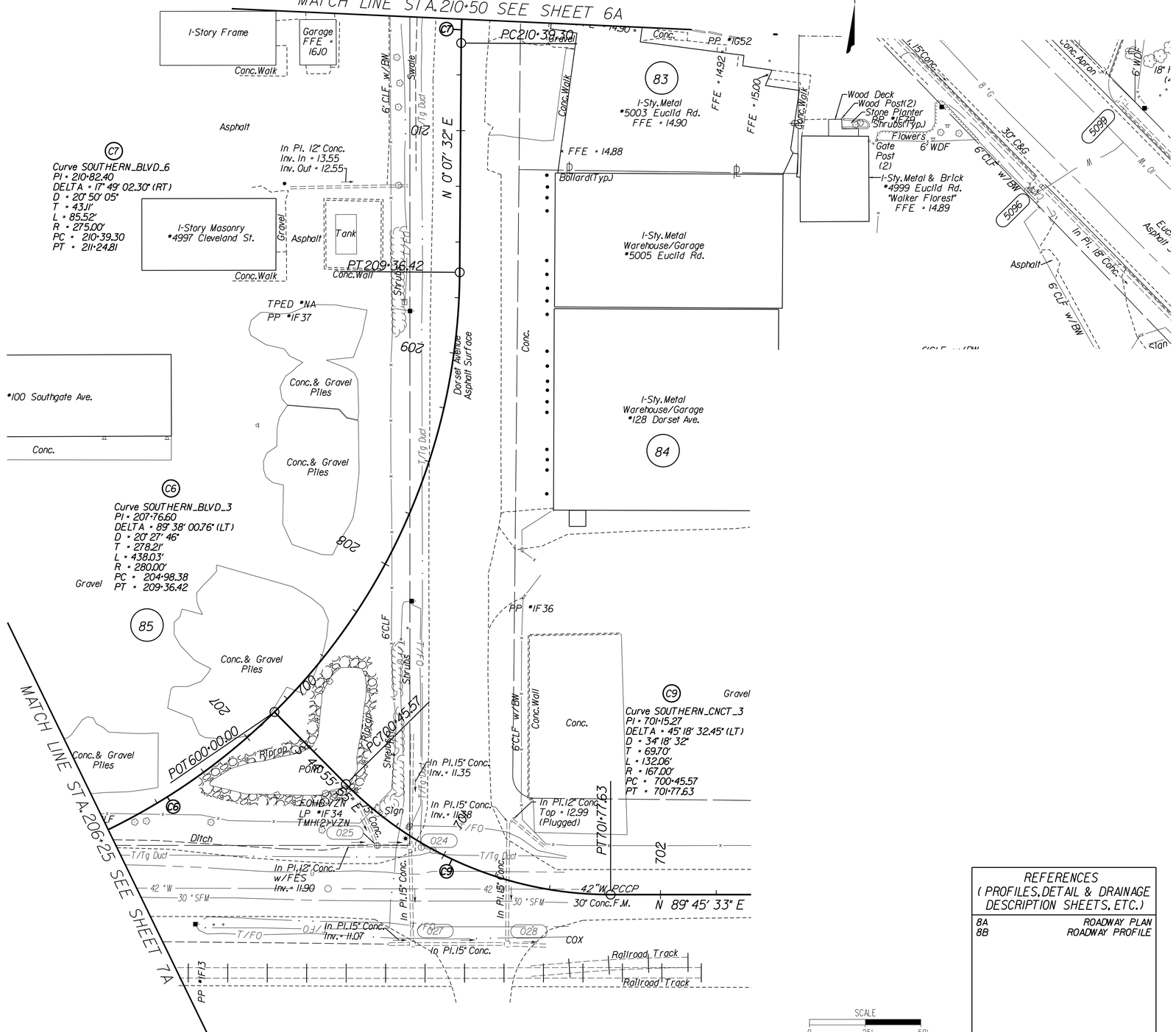

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

8A	ROADWAY PLAN
8B	ROADWAY PROFILE

No.	REVISIONS	DATE	BY

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KHA PROJECT 116049105
DATE August 12, 2022
SCALE
DESIGNED BY
DRAWN BY
CHECKED BY

TOPOGRAPHIC SURVEY
SOUTHERN BOULEVARD
STA. 206+25 TO STA. 210+50

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
8

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Plotted By: kevin.punlnske

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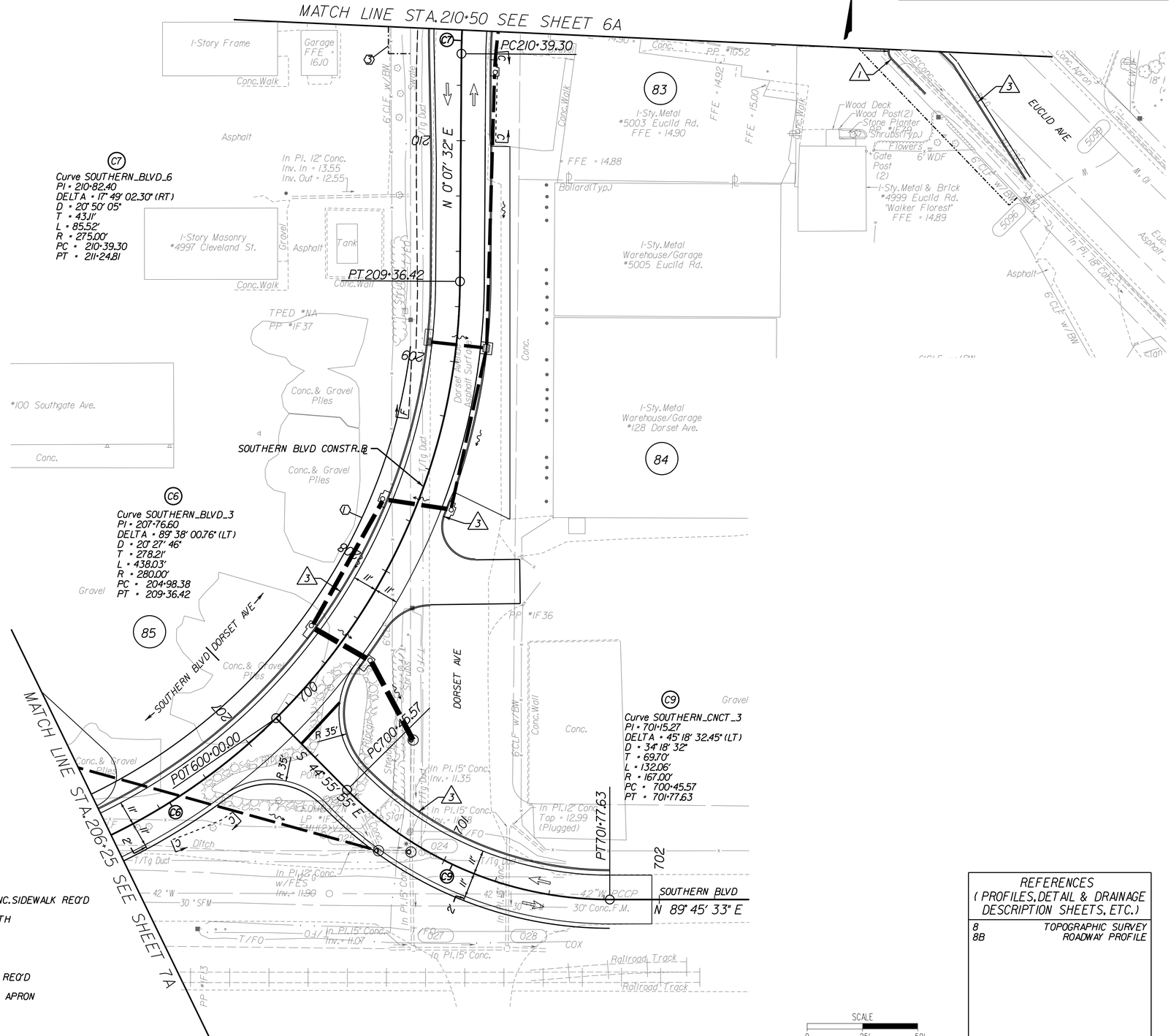

LEGEND

- PROP.ASPHALT PAVEMENT
- PROP.MILLING AND OVERLAY
- PROP.CONC.ITEMS
- F — DENOTES PROP.FILL LINE
- C — DENOTES PROP.CUT LINE
- 1 PROP.R/W
- 2 PROP.PERM.DRAIN.EASEMENT
- 3 PROP.PERM.UTILITY EASEMENT
- 4 PROP.TEMP.CONSTR.EASEMENT

- 1 ST'D.CG-2 REQ'D
- 2 ST'D.CG-3 REQ'D
- 3 ST'D.CG-6 REQ'D
- 4 ST'D.CG-12 TYPE A REQ'D
- 5 ST'D.CG-12 TYPE B REQ'D
- 6 ST'D.CG-12 TYPE RI2 REQ'D
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- 9 SHARED SIDE PATH
- 10 ST'D.MS-1 REQ'D
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- 12 ST'D.HRPDC CI_10 REQ'D
- 13 CONCRETE TRUCK APRON

SCALE
0 25' 50'

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

8	TOPOGRAPHIC SURVEY
8B	ROADWAY PROFILE

No.	REVISIONS	DATE	BY

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ROADWAY PLAN SOUTHERN BOULEVARD
STA. 206+25 TO STA. 210+50

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
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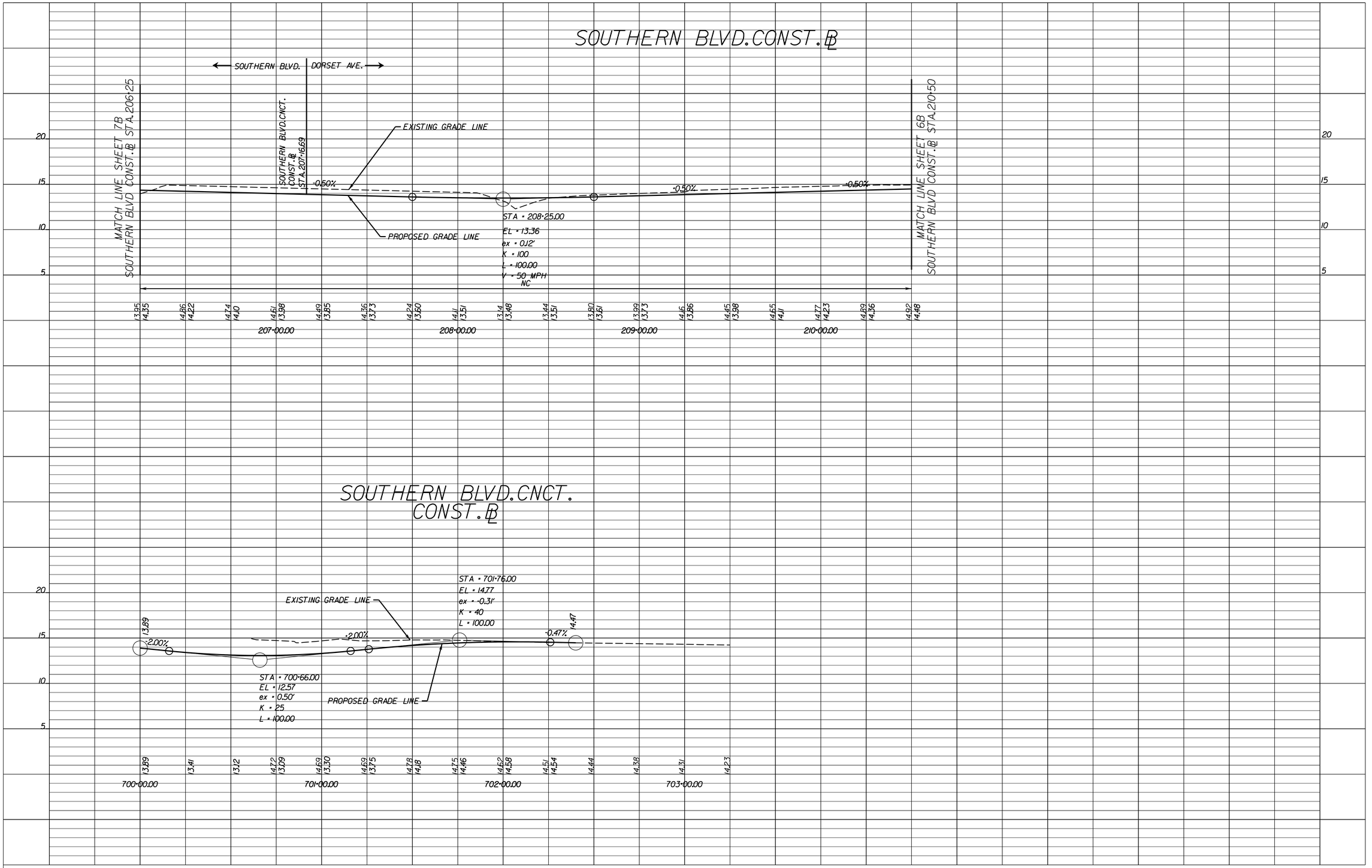
SOUTHERN BLVD. CONST. ℄



SOUTHERN BLVD.CNCT. CONST. ℄

HORIZONTAL SCALE
0 25' 50'

VERTICAL SCALE
0 5' 10'

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DRAWN BY KMP
CHECKED BY

PROFILE SOUTHERN BLVD.
STA. 206+25 TO STA. 210+50

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
8B

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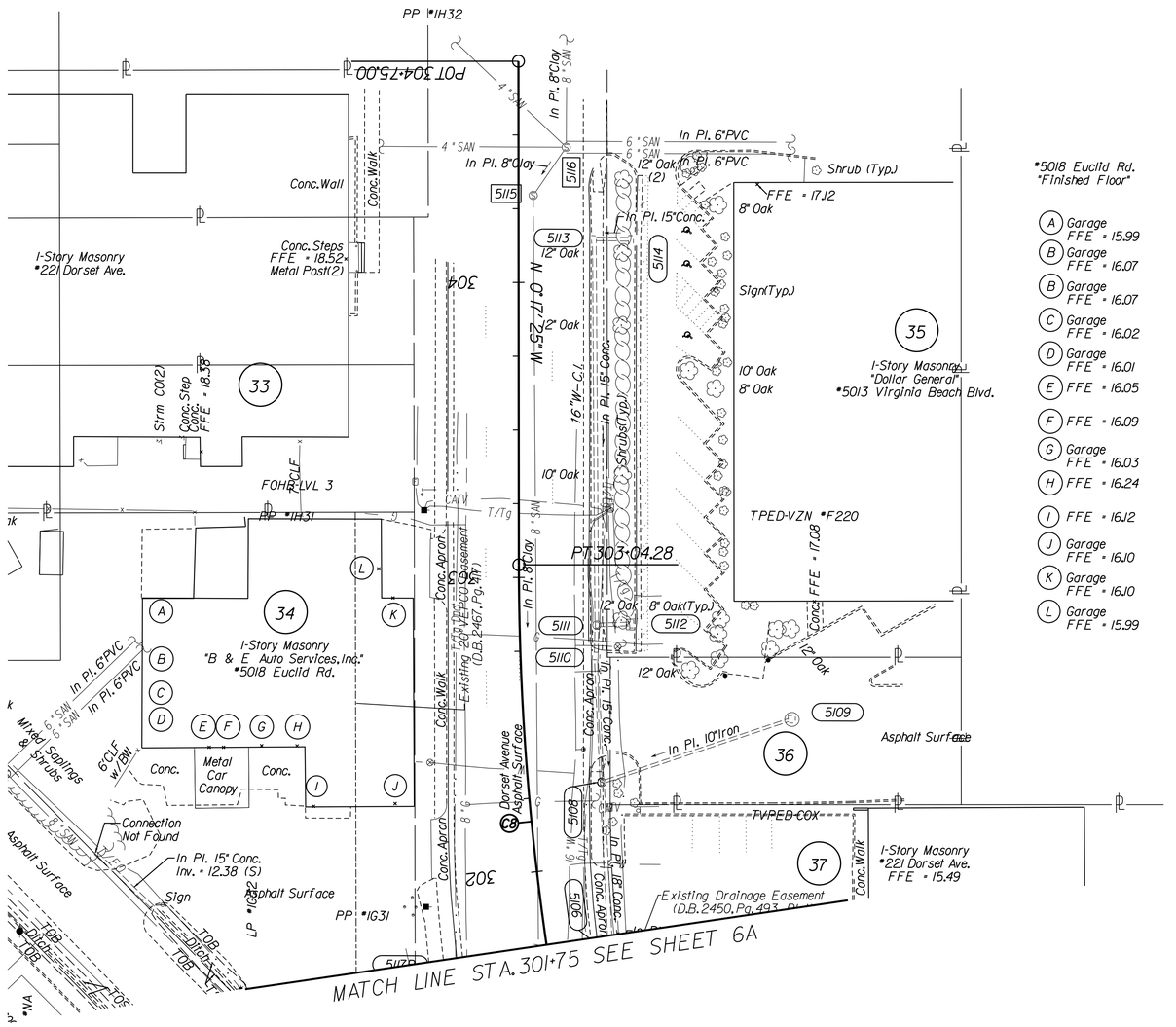

#5018 Euclid Rd.
Finished Floor

- (A) Garage FFE = 15.99
- (B) Garage FFE = 16.07
- (B) Garage FFE = 16.07
- (C) Garage FFE = 16.02
- (D) Garage FFE = 16.01
- (E) FFE = 16.05
- (F) FFE = 16.09
- (G) Garage FFE = 16.03
- (H) FFE = 16.24
- (I) FFE = 16.12
- (J) Garage FFE = 16.10
- (K) Garage FFE = 16.10
- (L) Garage FFE = 15.99

SCALE
0 25' 50'

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

9A	ROADWAY PLAN
9B	ROADWAY PROFILE

No.	REVISIONS	DATE	BY

Kimley»Horn

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4525 MAIN STREET, SUITE 1000, VIRGINIA BEACH, VA 23462
PHONE: 757-213-8600
WWW.KIMLEY-HORN.COM

KHA PROJECT 116049105
DATE August 12, 2022
SCALE
DESIGNED BY
DRAWN BY
CHECKED BY

TOPOGRAPHIC SURVEY
DORDET AVENUE
STA. 301+75 TO STA. 304+75

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
9

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Plotted By: kevin.puninske

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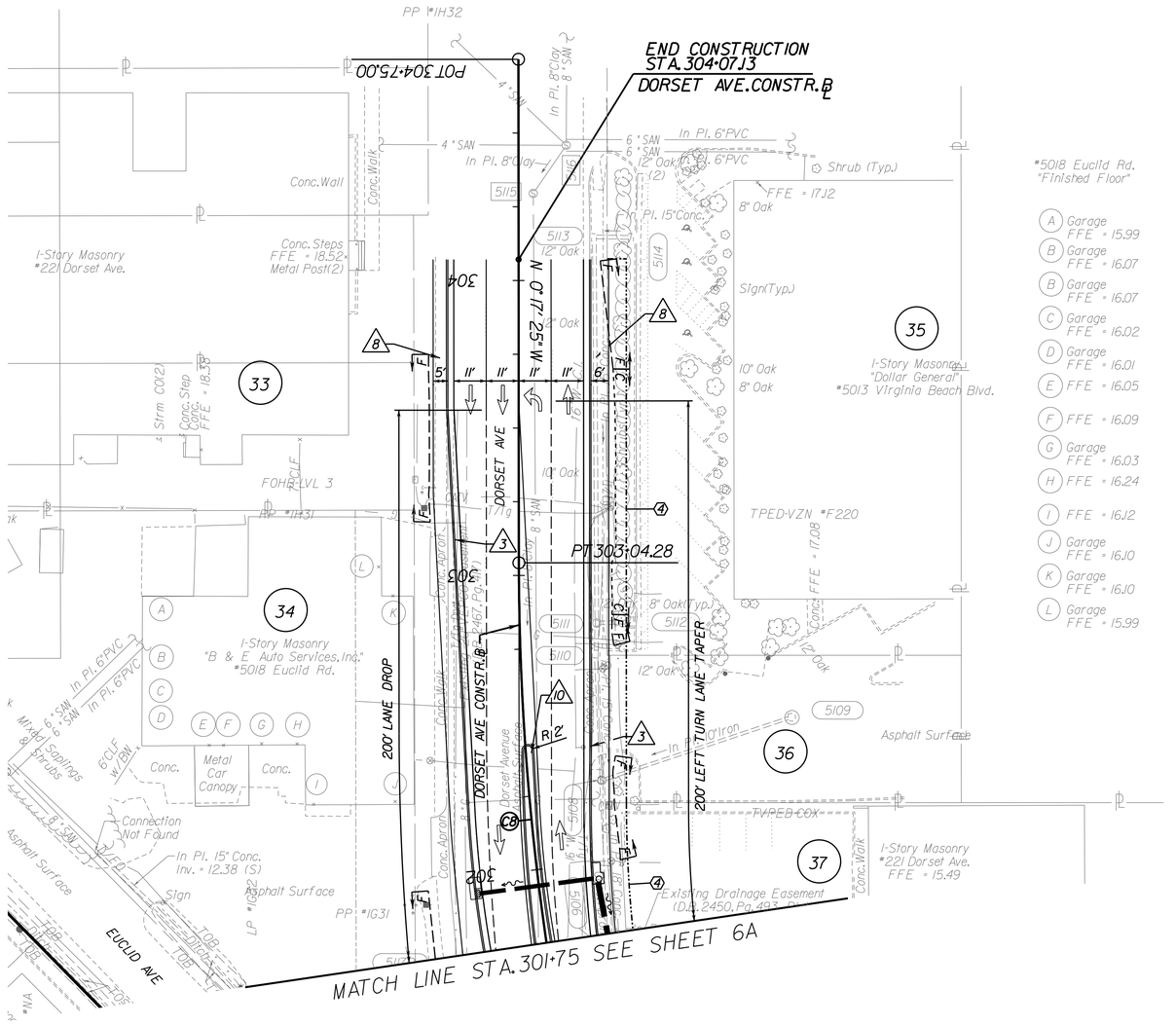

*5018 Euclid Rd.
Finished Floor

- (A) Garage FFE = 15.99
- (B) Garage FFE = 16.07
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- (C) Garage FFE = 16.02
- (D) Garage FFE = 16.01
- (E) FFE = 16.05
- (F) FFE = 16.09
- (G) Garage FFE = 16.03
- (H) FFE = 16.24
- (I) FFE = 16.12
- (J) Garage FFE = 16.10
- (K) Garage FFE = 16.10
- (L) Garage FFE = 15.99

LEGEND

- PROP. ASPHALT PAVEMENT
- PROP. MILLING AND OVERLAY
- PROP. CONC. ITEMS
- F_ DENOTES PROP. FILL LINE
- C_ DENOTES PROP. CUT LINE
- 1 PROP. R/W
- 2 PROP. PERM. DRAIN. EASEMENT
- 3 PROP. PERM. UTILITY EASEMENT
- 4 PROP. TEMP. CONSTR. EASEMENT

- 1 ST'D. CG-2 REQ'D
- 2 ST'D. CG-3 REQ'D
- 3 ST'D. CG-6 REQ'D
- 4 ST'D. CG-12 TYPE A REQ'D
- 5 ST'D. CG-12 TYPE B REQ'D
- 6 ST'D. CG-12 TYPE RI2 REQ'D
- 7 ST'D. CG-12 TYPE M2 REQ'D
- 8 HYDR. CEMENT CONC. SIDEWALK REQ'D
- 9 SHARED SIDE PATH
- 10 ST'D. MS-1 REQ'D
- 11 ST'D. MS-2 REQ'D
- 12 ST'D. HRPDC CI_10 REQ'D
- 13 CONCRETE TRUCK APRON

SCALE
0 25' 50'

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

9	TOPOGRAPHIC SURVEY
9B	ROADWAY PROFILE

No.	REVISIONS	DATE	BY

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PHONE: 757-213-8600
WWW.KIMLEY-HORN.COM

KHA PROJECT 116049105
DATE August 12, 2022
SCALE
DESIGNED BY
DRAWN BY
CHECKED BY

ROADWAY PLAN DORDET AVENUE
STA. 301+75 TO STA. 304+75

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
9A

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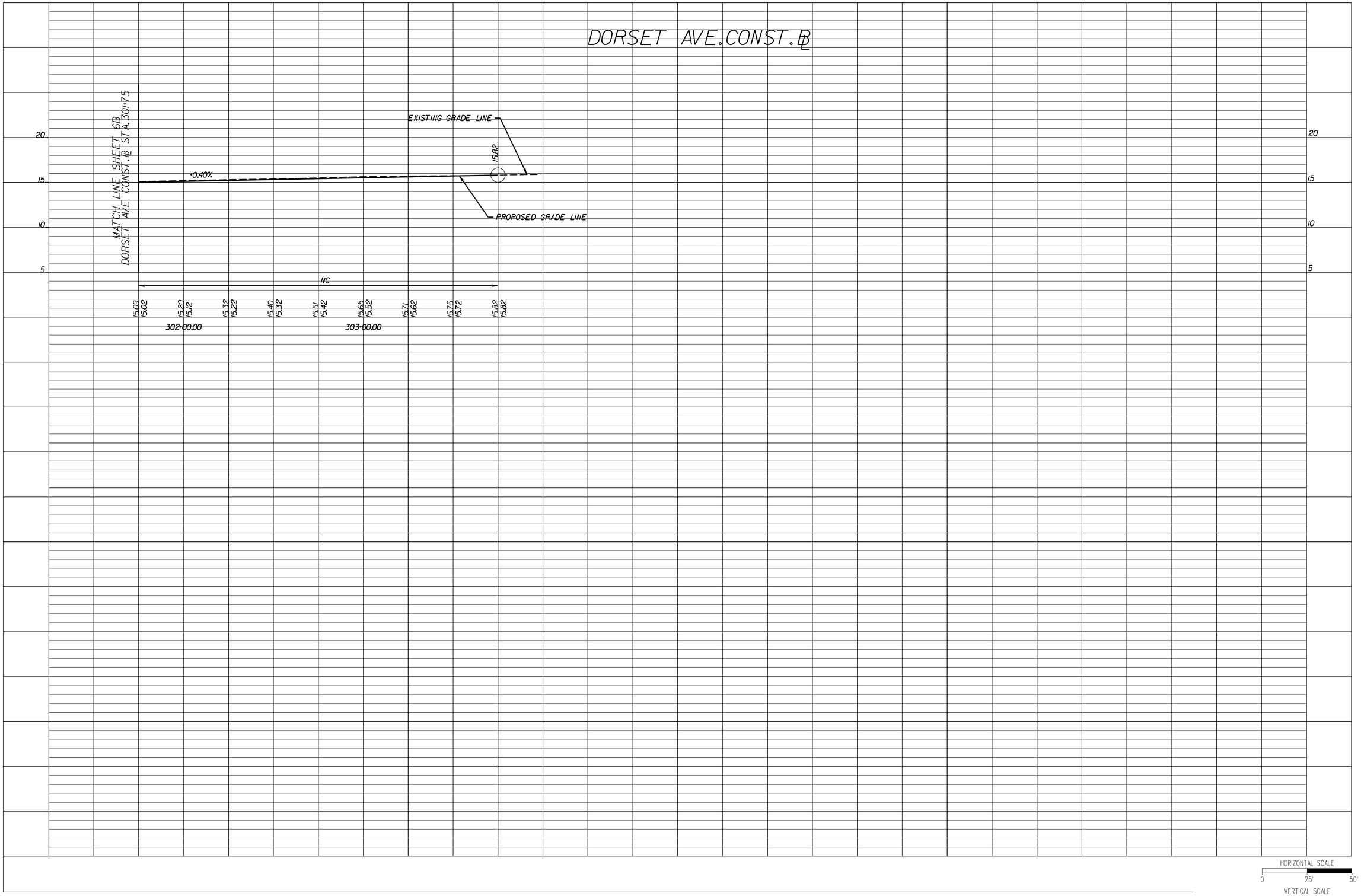
DORSET AVE. CONST. ℄



HORIZONTAL SCALE
0 25' 50'

VERTICAL SCALE
0 5' 10'

Kimley»Horn

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No.	REVISIONS	DATE	BY

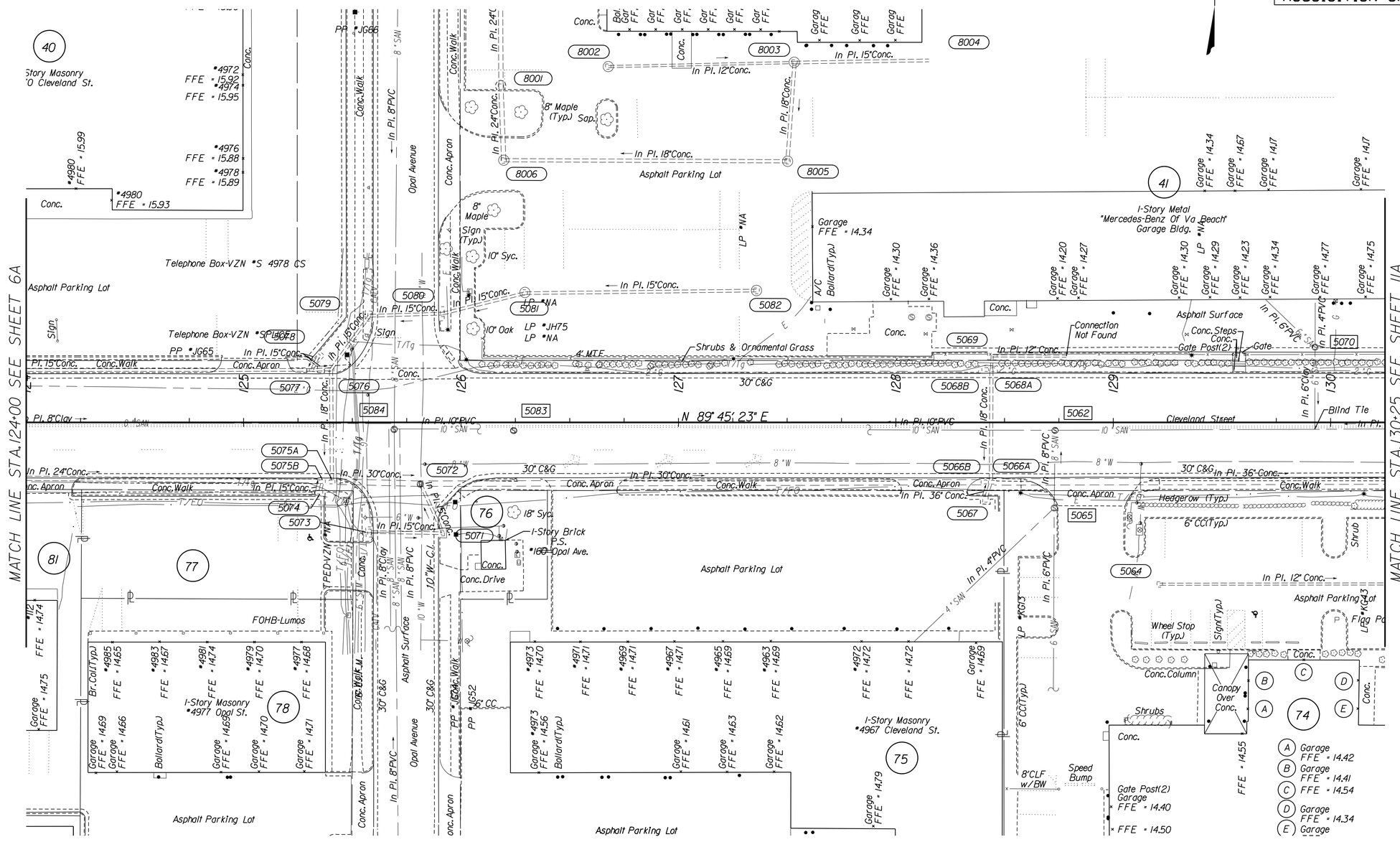
KHA PROJECT 116049105
DATE August 12, 2022
SCALE 1" = 25'
DESIGNED BY KMP
DRAWN BY KMP
CHECKED BY

PROFILE DORSET AVE.
STA. 301+75 TO STA. 304+00

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
9B

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.



SCALE
0 25' 50'

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)	
10A	ROADWAY PLAN
10B	ROADWAY PROFILE

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KHA PROJECT 116049105
DATE August 12, 2022
SCALE
DESIGNED BY
DRAWN BY
CHECKED BY

TOPOGRAPHIC SURVEY
CLEVELAND STREET
STA. 124+00 TO STA. 130+25

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
10

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Plotted By: kevin.punlnske

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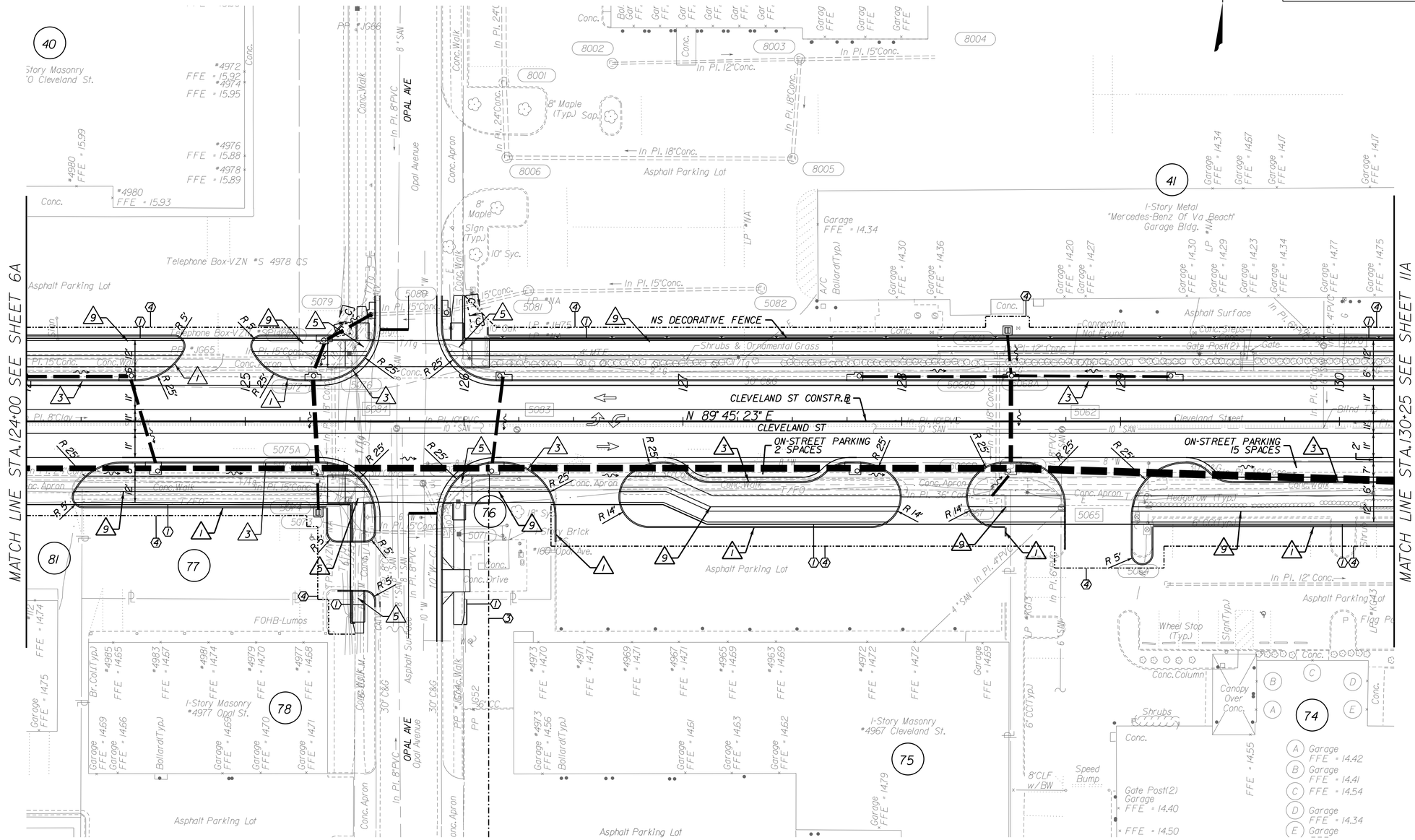

LEGEND

- PROP.ASPHALT PAVEMENT
- PROP.MILLING AND OVERLAY
- PROP.CONC.ITEMS
- F — DENOTES PROP.FILL LINE
- C — DENOTES PROP.CUT LINE
- 1 PROP.R/W
- 2 PROP.PERM.DRAIN.EASEMENT
- 3 PROP.PERM.UTILITY EASEMENT
- 4 PROP.TEMP.CONSTR.EASEMENT

- 1 ST'D.CG-2 REQ'D
- 2 ST'D.CG-3 REQ'D
- 3 ST'D.CG-6 REQ'D
- 4 ST'D.CG-12 TYPE A REQ'D
- 5 ST'D.CG-12 TYPE B REQ'D
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- 8 HYDR.CEMENT CONC.SIDEWALK REQ'D
- 9 SHARED SIDE PATH
- 10 ST'D.MS-1 REQ'D
- 11 ST'D.MS-2 REQ'D
- 12 ST'D.HRPDC CI_10 REQ'D
- 13 CONCRETE TRUCK APRON

SCALE
0 25' 50'

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

10	TOPOGRAPHIC SURVEY
10B	ROADWAY PROFILE

No.	REVISIONS	DATE	BY

Kimley»Horn
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KHA PROJECT 116049105
DATE August 12, 2022
SCALE
DESIGNED BY
DRAWN BY
CHECKED BY

ROADWAY PLAN CLEVELAND STREET
STA. 124+00 TO STA. 130+25

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
10A

CLEVELAND STREET CONST.℄

MATCH LINE SHEET 6B
CLEVELAND ST CONST.℄ STA.124+00

STA = 124+00.00
EL = 14.39
SSD = 629'
ex = -0.23'
K = 54
L = 100.00
V = 40 MPH

-1.26%

STA = 125+15.00
EL = 12.94
ex = 0.22'
K = 57
L = 100.00
V = 35 MPH

SOUTH OPAL AVE. CONST.℄ STA.1257+63

PROPOSED GRADE LINE

-0.50%

STA = 127+25.00
EL = 13.99
SSD = 1129'
ex = -0.13'
K = 100
L = 100.00
V = 50 MPH

EXISTING GRADE LINE

NC

-0.50%

STA = 128+50.00
EL = 13.36
ex = 0.13'
K = 100
L = 100.00
V = 50 MPH

-0.50%

STA = 130+00.00
EL = 14.11
SSD = 1129'
ex = -0.12'
K = 100
L = 100.00
V = 50 MPH

-0.50%

MATCH LINE SHEET 11B
CLEVELAND ST CONST.℄ STA.130+25

20 15 10 5

13.71 14.46 | 13.65 14.01 | 13.59 13.76 | 13.52 13.45 | 13.51 13.24 | 13.38 13.13 | 13.26 13.13 | 13.25 13.24 | 13.18 13.36 | 13.17 13.49 | 13.10 13.61 | 13.06 13.74 | 13.06 13.83 | 13.01 13.86 | 12.89 13.83 | 12.81 13.74 | 12.74 13.61 | 12.73 13.52 | 12.68 13.49 | 12.51 13.52 | 12.55 13.61 | 12.57 13.74 | 12.52 13.86 | 12.52 13.96 | 12.43 13.99 | 12.37 13.96

124+00.00 | 125+00.00 | 126+00.00 | 127+00.00 | 128+00.00 | 129+00.00 | 130+00.00

SOUTH OPAL AVE. CONST.℄

STA = 10+63.50
EL = 12.87
ex = 0.00'
K = 47
L = 10.00

EXISTING GRADE LINE

-0.47% -0.58% +2.00%

PROPOSED GRADE LINE

STA = 10+93.50
EL = 12.66
ex = 0.07'
K = 7
L = 20.00

12.91 12.84 12.87

20 15 10 5

12.75 12.91 12.93 12.84 12.79 12.87 12.80

10+00.00 | 11+00.00

NORTH OPAL AVE. CONST.℄

13.24 -2.00% -1.77% 13.07

PROPOSED GRADE LINE

STA = 10+28.50
EL = 12.67
ex = 0.07'
K = 4
L = 15.00

EXISTING GRADE LINE

13.25 13.24 | 12.57 12.76 | 13.05 13.05 | 13.39 | 13.62

10+00.00 | 11+00.00

HORIZONTAL SCALE
0 25' 50'

VERTICAL SCALE
0 5' 10'

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KHA PROJECT 116049105
DATE August 12, 2022
SCALE 1" = 25'
DESIGNED BY KMP
DRAWN BY KMP
CHECKED BY

PROFILE CLEVELAND STREET
STA. 124+00 TO STA. 130+25

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
10B

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Plotted By: kevin.punlnske

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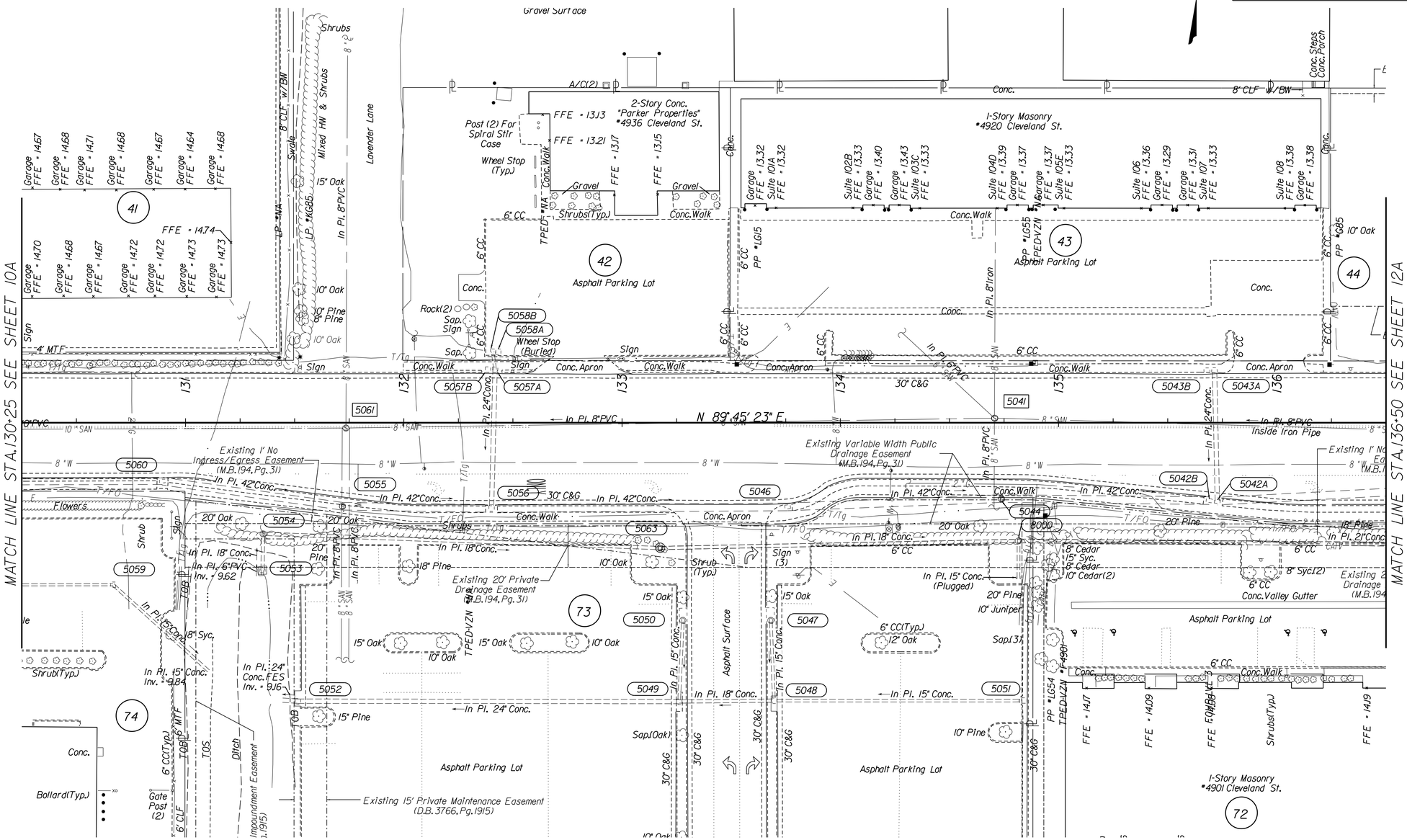

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

IIA	ROADWAY PLAN
IIB	ROADWAY PROFILE

SCALE
0 25' 50'

No.	REVISIONS	DATE	BY

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KHA PROJECT 116049105
DATE August 12, 2022
SCALE
DESIGNED BY
DRAWN BY
CHECKED BY

TOPOGRAPHIC SURVEY
CLEVELAND STREET
STA. 130+25 TO STA. 136+50

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
11

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Plotted By: kevin.punlnske

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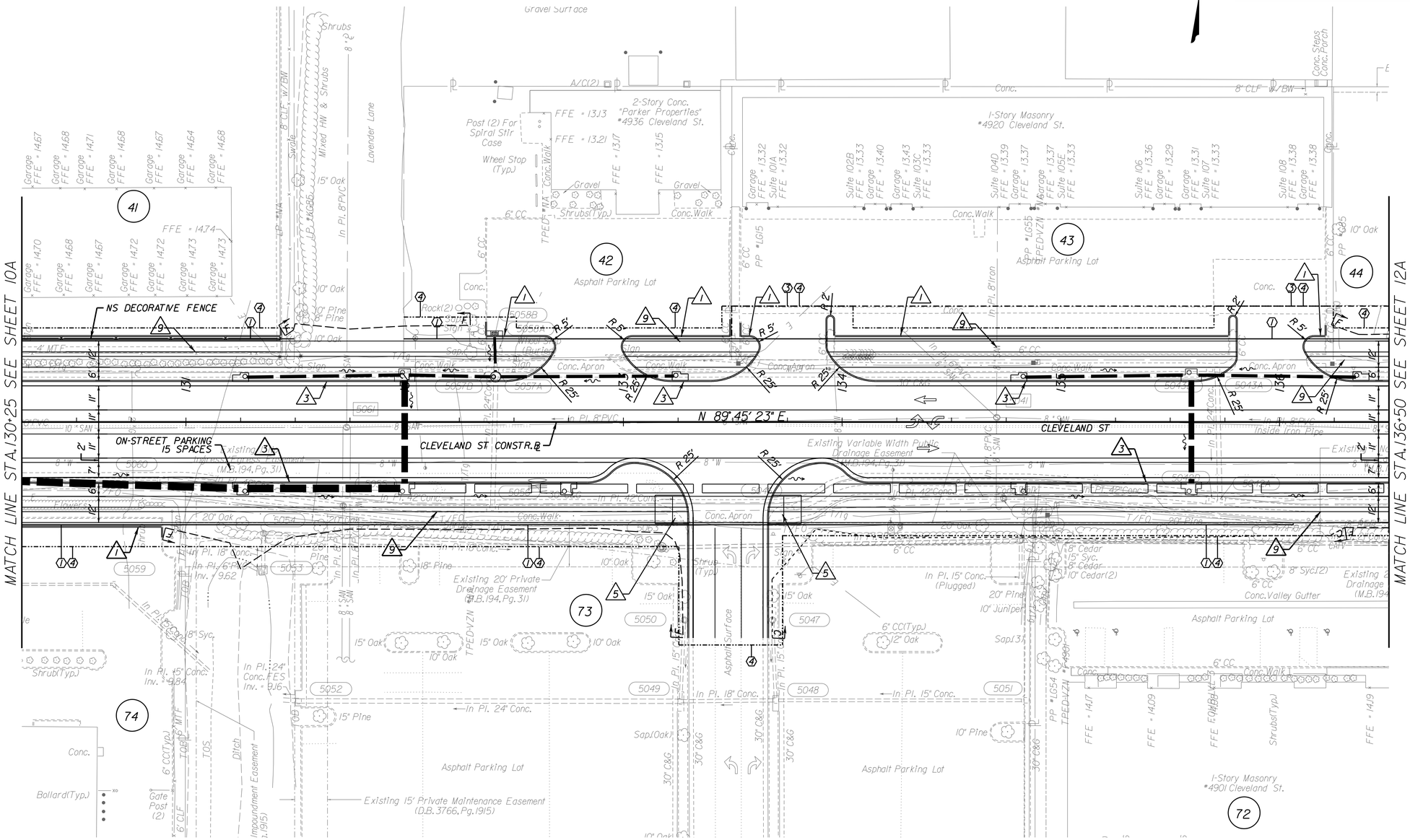

LEGEND

- PROP. ASPHALT PAVEMENT
- PROP. MILLING AND OVERLAY
- PROP. CONC. ITEMS
- F_ DENOTES PROP. FILL LINE
- C_ DENOTES PROP. CUT LINE
- ① PROP. R/W
- ② PROP. PERM. DRAIN. EASEMENT
- ③ PROP. PERM. UTILITY EASEMENT
- ④ PROP. TEMP. CONSTR. EASEMENT

- ① ST'D. CG-2 REQ'D
- ② ST'D. CG-3 REQ'D
- ③ ST'D. CG-6 REQ'D
- ④ ST'D. CG-12 TYPE A REQ'D
- ⑤ ST'D. CG-12 TYPE B REQ'D
- ⑥ ST'D. CG-12 TYPE RI2 REQ'D
- ⑦ ST'D. CG-12 TYPE M2 REQ'D
- ⑧ HYDR. CEMENT CONC. SIDEWALK REQ'D
- ⑨ SHARED SIDE PATH
- ⑩ ST'D. MS-1 REQ'D
- ⑪ ST'D. MS-2 REQ'D
- ⑫ ST'D. HRPDC CI_10 REQ'D
- ⑬ CONCRETE TRUCK APRON

SCALE 0 25' 50'

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

II	TOPOGRAPHIC SURVEY
IIB	ROADWAY PROFILE

No.	REVISIONS	DATE	BY

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PHONE: 757-213-8600
WWW.KIMLEY-HORN.COM

KHA PROJECT 116004105
DATE August 12, 2022
SCALE
DESIGNED BY
DRAWN BY
CHECKED BY

ROADWAY PLAN CLEVELAND STREET STA. 130+25 TO STA. 136+50

CLEVELAND STREET PHASE IV (CIP 2-135)

SHEET NUMBER 11A

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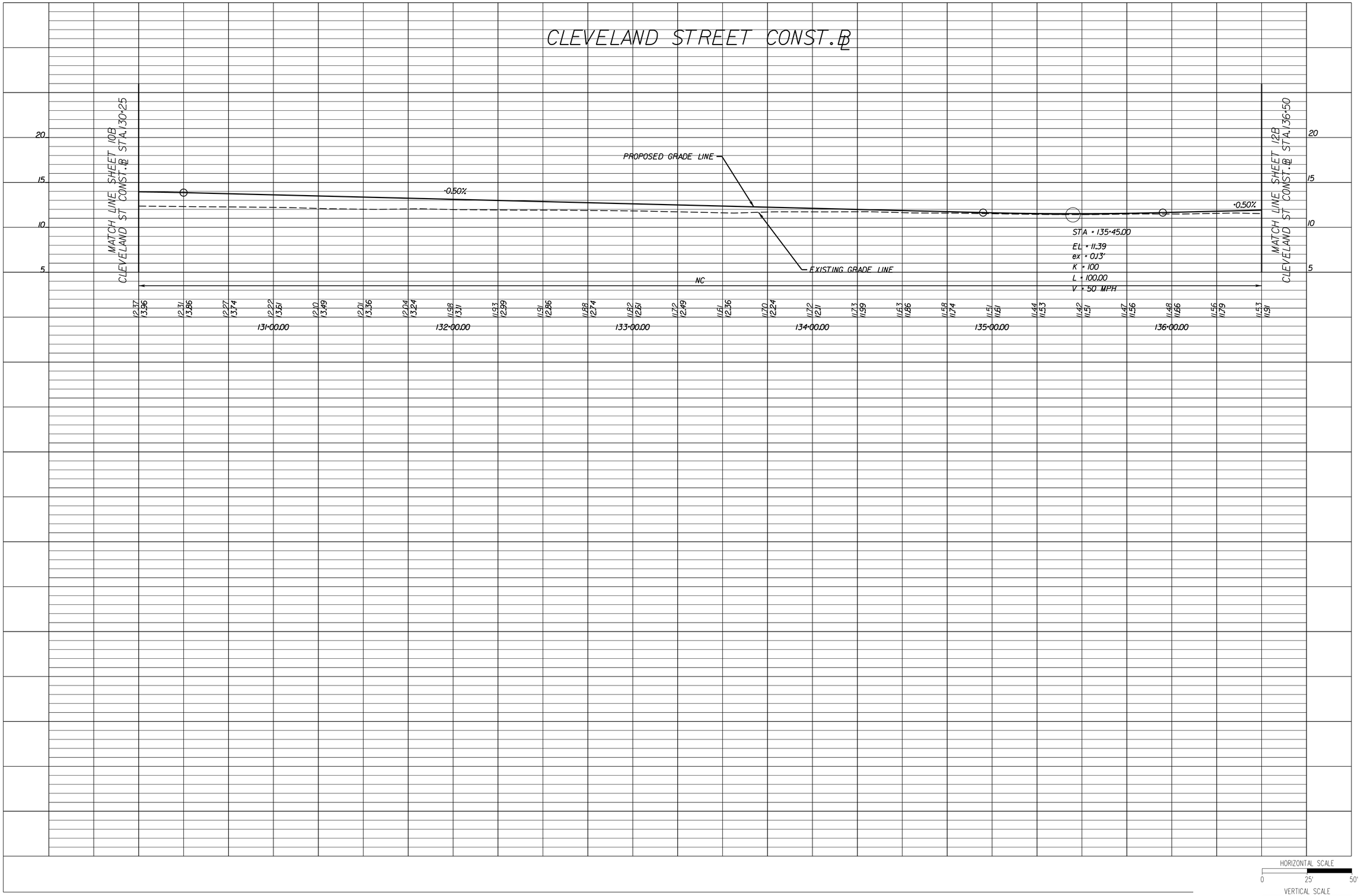
CLEVELAND STREET CONST.℄



HORIZONTAL SCALE
0 25' 50'

VERTICAL SCALE
0 5' 10'

No.	REVISIONS	DATE	BY

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PHONE: 757-213-8600
WWW.KIMLEY-HORN.COM

KHA PROJECT 116049105
DATE August 12, 2022
SCALE 1" = 25'
DESIGNED BY KMP
DRAWN BY KMP
CHECKED BY

PROFILE CLEVELAND STREET
STA. 130+25 TO STA. 136+50

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
11B

110803001 2.dgn
7:46:53 PM
110803001 2.dgn
Plotted By: kevin.puninske

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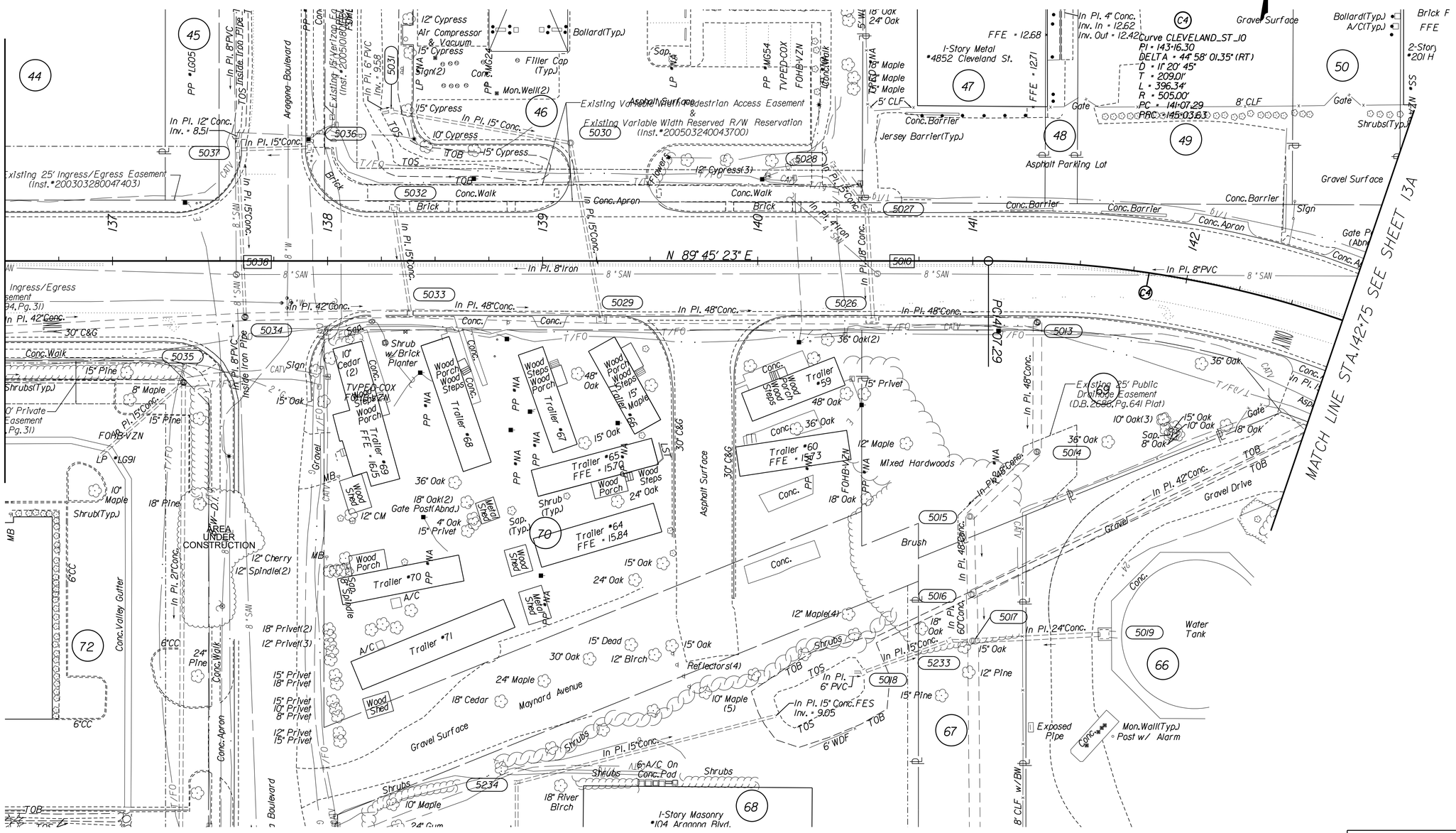

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)	
12A	ROADWAY PLAN
12B	ROADWAY PROFILE

No.	REVISIONS	DATE	BY

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KHA PROJECT 116049105
DATE August 12, 2022
SCALE
DESIGNED BY
DRAWN BY
CHECKED BY

TOPOGRAPHIC SURVEY
CLEVELAND STREET
STA. 136+50 TO STA. 142+75

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
12

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MATCH LINE STA.136+50 SEE SHEET 7A

MATCH LINE STA.142+75 SEE SHEET 13A

N 89° 45' 23" E
CLEVELAND ST
CLEVELAND ST CONSTR.
107' RIGHT TURN TAPER
100' RIGHT TURN STORAGE
ARAGONA BLVD
PROP. ACQUISITION LINE
SAFETY BENCH
AQUATIC BENCH
FOREBAY
2 PANNEL SWINGING GATE
ON-STREET PARKING 6 SPACES
AREA UNDER CONSTRUCTION
LEVEL 2 WET POND BMP
NORMAL POND WATER SURFACE ELEV. 25'
MAINTENANCE ACCESS
Existing Variable Width Pedestrian Access Easement
Existing Variable Width Reserved R/W Reservation (Inst.#200510240043700)
Existing 6' Vertical Fence
Curve CLEVELAND_ST_10
PI = 143+16.30
DELTA = 44° 58' 01.35" (RT)
D = 11° 20' 45"
T = 209.01'
L = 396.34'
R = 505.00'
PC = 141+07.29
PRC = 145+03.63
1-Story Metal #4852 Cleveland St.
1-Story Masonry #104 Aragona Blvd.
2-Story #201 H
Gravel Surface
Asphalt Parking Lot
Water Tank
Ingress/Egress Easement (Inst.#200503280004140 51, Pg.31)
10' Private Easement Pg.31)
Shrub(Typ.)
Conc.Valley Gutter
Conc.Apron
Conc.Walk
Conc.Barrier
Jersey Barrier(Typ.)
Gate
Sign
Exposed Pipe
Mon.Wall(Typ.) ◦ Post w/ Alarm
Trailer #64
Trailer #60
Trailer #57
Trailer #52
Wood Steps
Wood Porch
Reflectors(4)
Shrubs
Gravel Surface
Conc. Pad
A/C On
Water Tank
Public Drainage Easement (D.B.2008,Pg.641 Plat)
Existing 6' Vertical Fence
Gravel Drive
Conc.
Asphalt Surface
Brick
Brick F FFE
Gravel Surface
Bollard(Typ.)
A/C(Typ.)
Filler Cap (Typ.)
Air Compressor & Vacuum
Sign(2)
Conc.
Mon.Well(2)
Sap
Maple
Oak
Pine
Cypress
Cherry
Birch
Cedar
Privet
Spindle(2)
Dead
Gum
River Birch
Exposed Pipe
Mon.Wall(Typ.) ◦ Post w/ Alarm
Water Tank
Shrubs
Gravel Surface
Conc.Barrier
Conc.Walk
Conc.Apron
Asphalt Parking Lot
Gravel Drive
Gate
Sign
Shrubs(Typ.)
Brick F FFE
2-Story #201 H
Curve CLEVELAND_ST_10
PI = 143+16.30
DELTA = 44° 58' 01.35" (RT)
D = 11° 20' 45"
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L = 396.34'
R = 505.00'
PC = 141+07.29
PRC = 145+03.63
1-Story Metal #4852 Cleveland St.
1-Story Masonry #104 Aragona Blvd.
2-Story #201 H
Gravel Surface
Asphalt Parking Lot
Water Tank
Ingress/Egress Easement (Inst.#200503280004140 51, Pg.31)
10' Private Easement Pg.31)
Shrub(Typ.)
Conc.Valley Gutter
Conc.Apron
Conc.Walk
Conc.Barrier
Jersey Barrier(Typ.)
Gate
Sign
Exposed Pipe
Mon.Wall(Typ.) ◦ Post w/ Alarm
Trailer #64
Trailer #60
Trailer #57
Trailer #52
Wood Steps
Wood Porch
Reflectors(4)
Shrubs
Gravel Surface
Conc. Pad
A/C On
Water Tank
Public Drainage Easement (D.B.2008,Pg.641 Plat)
Existing 6' Vertical Fence
Gravel Drive
Conc.
Asphalt Surface
Brick
Brick F FFE
Gravel Surface
Bollard(Typ.)
A/C(Typ.)
Filler Cap (Typ.)
Air Compressor & Vacuum
Sign(2)
Conc.
Mon.Well(2)
Sap
Maple
Oak
Pine
Cypress
Cherry
Birch
Cedar
Privet
Spindle(2)
Dead
Gum
River Birch
Exposed Pipe
Mon.Wall(Typ.) ◦ Post w/ Alarm
Water Tank
Shrubs
Gravel Surface
Conc.Barrier
Conc.Walk
Conc.Apron
Asphalt Parking Lot
Gravel Drive
Gate
Sign
Shrubs(Typ.)

LEGEND

- PROP.ASPHALT PAVEMENT
- PROP.MILLING AND OVERLAY
- PROP.CONC.ITEMS
- F — DENOTES PROP.FILL LINE
- C — DENOTES PROP.CUT LINE
- ① PROP.R/W
- ② PROP.PERM.DRAIN.EASEMENT
- ③ PROP.PERM.UTILITY EASEMENT
- ④ PROP.TEMP.CONSTR.EASEMENT

① ST'D.CG-2 REQ'D
② ST'D.CG-3 REQ'D
③ ST'D.CG-6 REQ'D
④ ST'D.CG-12 TYPE A REQ'D
⑤ ST'D.CG-12 TYPE B REQ'D
⑥ ST'D.CG-12 TYPE RI2 REQ'D
⑦ ST'D.CG-12 TYPE M2 REQ'D
⑧ HYDR.CEMENT CONC.SIDEWALK REQ'D
⑨ SHARED SIDE PATH
⑩ ST'D.MS-1 REQ'D
⑪ ST'D.MS-2 REQ'D
⑫ ST'D.HRPDC CI_10 REQ'D
⑬ CONCRETE TRUCK APRON

SCALE
0 25' 50'

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

12	TOPOGRAPHIC SURVEY
12B	ROADWAY PROFILE

No.	REVISIONS	DATE	BY

Kimley»Horn

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4525 MAIN STREET, SUITE 1000, VIRGINIA BEACH, VA 23462
PHONE: 757-213-8600
WWW.KIMLEY-HORN.COM

KHA PROJECT 116049105
DATE August 12, 2022
SCALE
DESIGNED BY
DRAWN BY
CHECKED BY

ROADWAY PLAN CLEVELAND STREET
STA. 136+50 TO STA. 142+75

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
12A

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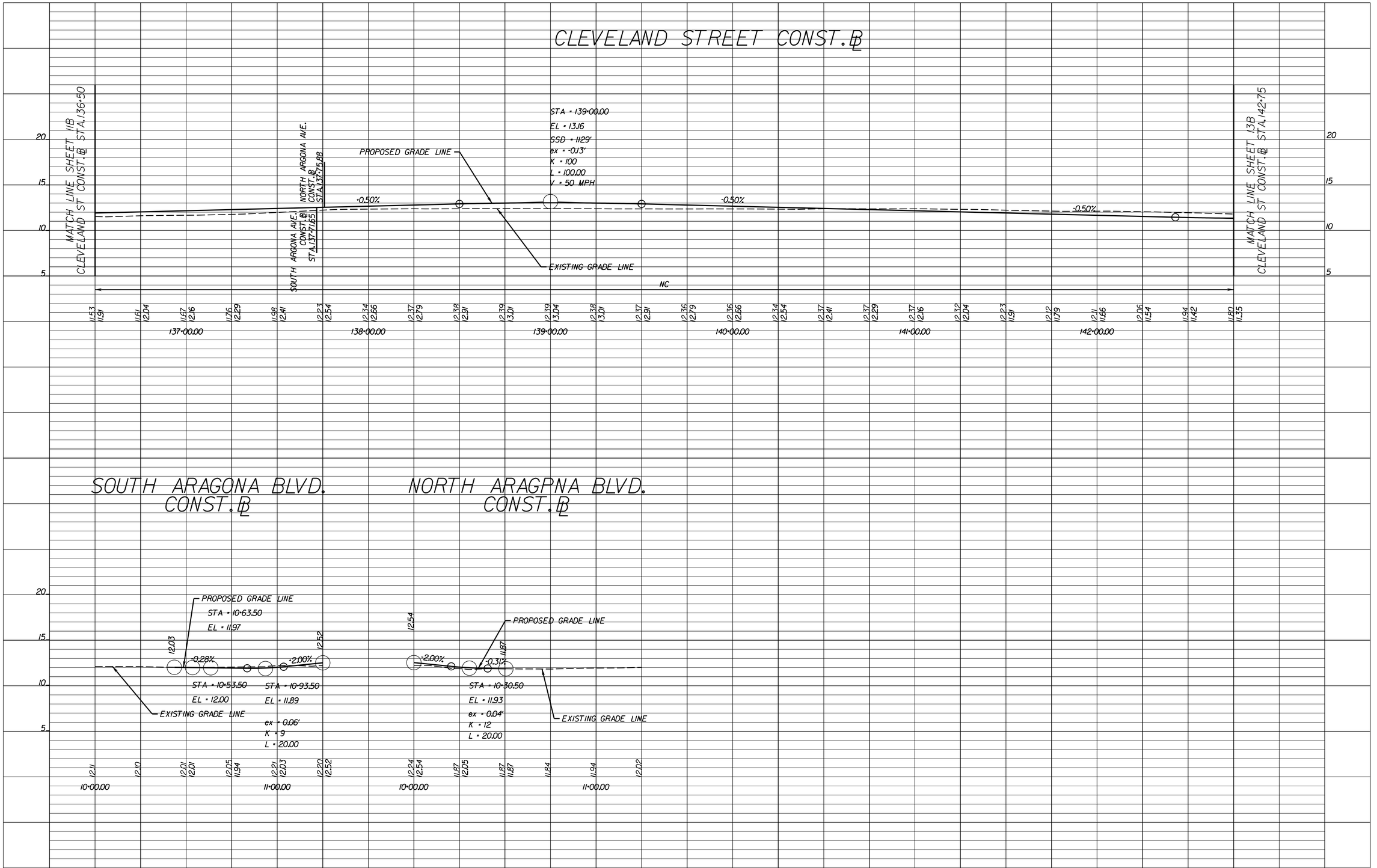
CLEVELAND STREET CONST. ℄



SOUTH ARAGONA BLVD. CONST.℄

NORTH ARAGPNA BLVD. CONST.℄

HORIZONTAL SCALE
0 25' 50'

VERTICAL SCALE
0 5' 10'

No.	REVISIONS	DATE	BY

Kimley»Horn
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KHA PROJECT 116049105
DATE August 12, 2022
SCALE 1" = 25'
DESIGNED BY KMP
DRAWN BY KMP
CHECKED BY

PROFILE CLEVELAND STREET
STA. 136+50 TO STA. 142+75

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
12B

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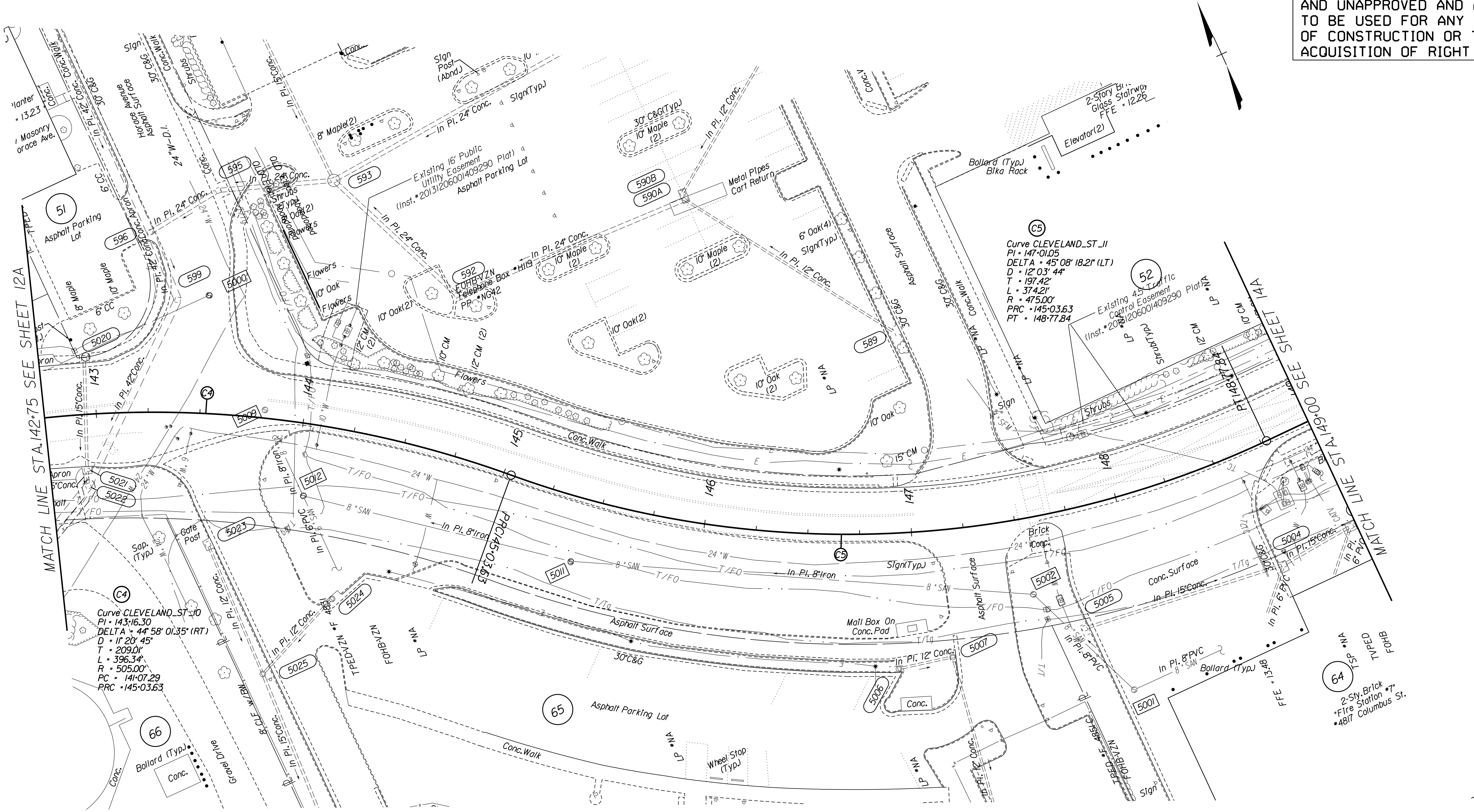

SCALE
0 25' 50'

REFERENCES
(PROFILES,DETAIL & DRAINAGE DESCRIPTION SHEETS,ETC.)

13A	ROADWAY PLAN
13B	ROADWAY PROFILE

No.	REVISIONS	DATE	BY

Kimley»Horn

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KHA PROJECT 116049105
DATE August 12, 2022
SCALE
DESIGNED BY
DRAWN BY
CHECKED BY

TOPOGRAPHIC SURVEY
CLEVELAND STREET
STA. 142+75 TO STA. 149+00

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
13

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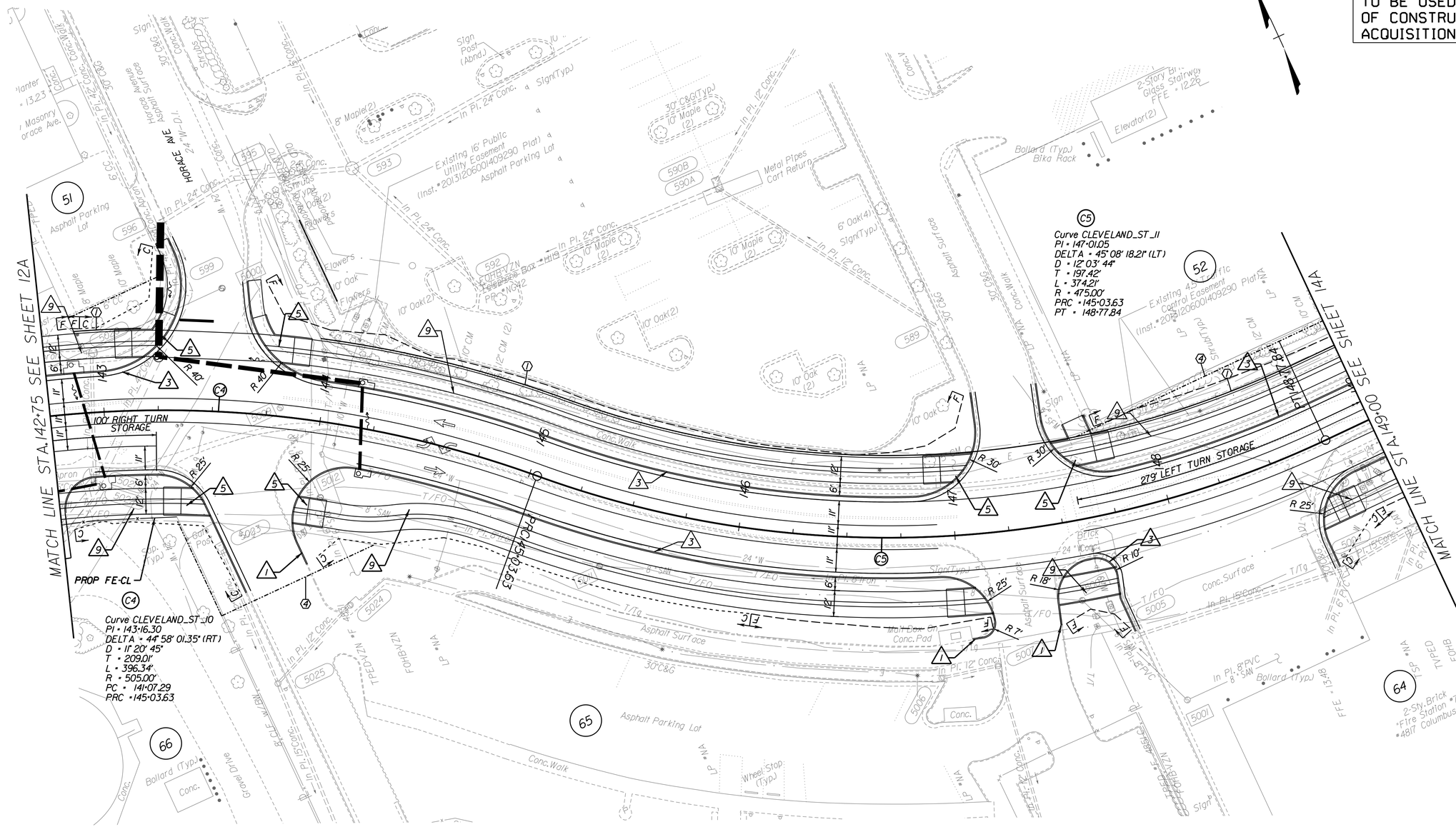

LEGEND

- PROP.ASPHALT PAVEMENT
- PROP.MILLING AND OVERLAY
- PROP.CONC.ITEMS
- F — DENOTES PROP.FILL LINE
- C — DENOTES PROP.CUT LINE
- ① PROP.R/W
- ② PROP.PERM.DRAIN.EASEMENT
- ③ PROP.PERM.UTILITY EASEMENT
- ④ PROP.TEMP.CONSTR.EASEMENT

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- 2 ST'D.CG-3 REQ'D
- 3 ST'D.CG-6 REQ'D
- 4 ST'D.CG-12 TYPE A REQ'D
- 5 ST'D.CG-12 TYPE B REQ'D
- 6 ST'D.CG-12 TYPE RI2 REQ'D
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- 8 HYDR.CEMENT CONC.SIDEWALK REQ'D
- 9 SHARED SIDE PATH
- 10 ST'D.MS-1 REQ'D
- 11 ST'D.MS-2 REQ'D
- 12 ST'D.HRPDC CI_10 REQ'D
- 13 CONCRETE TRUCK APRON

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

13	TOPOGRAPHIC SURVEY
13B	ROADWAY PROFILE

SCALE 0 25' 50'

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KHA PROJECT	116049105
DATE	August 12, 2022
SCALE	
DESIGNED BY	
DRAWN BY	
CHECKED BY	

ROADWAY PLAN CLEVELAND STREET
STA. 142+75 TO STA. 149+00

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
13A

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CLEVELAND STREET CONST. ℄

MATCH LINE SHEET 12B
CLEVELAND ST CONST. ℄ STA. 142+75

NORTH HORACE BLVD. CONST. ℄ STA. 143+49.09

SOUTH HORACE BLVD. CONST. ℄ STA. 143+59.51

STA = 142+93.00
EL = 11.20
ex = 0.14'
K = 89
L = 100.00
V = 45 MPH

-0.62%

PROPOSED GRADE LINE

EXISTING GRADE LINE

NC

STA = 146+80.00
EL = 13.59
SSD = 1016'
ex = -0.14'
K = 89
L = 100.00
V = 50 MPH

-0.50%

MATCH LINE SHEET 14B
CLEVELAND ST CONST. ℄ STA. 149+00

20 / 15 / 10 / 5

11.80 11.35 | 11.71 11.34 | 11.67 11.41 | 11.67 11.55 | 11.56 11.70 | 11.76 11.86 | 11.97 12.01 | 12.08 12.17 | 12.17 12.32 | 12.25 12.48 | 12.34 12.53 | 12.43 12.79 | 12.51 12.94 | 12.55 13.09 | 12.59 13.25 | 12.62 13.38 | 12.56 13.44 | 12.49 13.44 | 12.38 13.36 | 12.30 13.24 | 12.25 13.11 | 12.22 12.99 | 12.16 12.86 | 12.07 12.74 | 11.97 12.61 | 11.92 12.49

143+00.00 | 144+00.00 | 145+00.00 | 146+00.00 | 147+00.00 | 148+00.00 | 149+00.00

SOUTH HORACE BLVD. CONST. ℄

STA = 10+23.53
EL = 11.12
ex = -0.00'
K = 81
L = 10.00

PROPOSED GRADE LINE

11.21 | 11.82

-0.94% | -1.06% | -2.00%

STA = 10+38.53
EL = 10.96
ex = 0.06'
K = 5
L = 15.00

EXISTING GRADE LINE

11.12 11.10 | 11.28 11.19 | 11.52 11.69

10+00.00

NORTH HORACE BLVD. CONST. ℄

PROPOSED GRADE LINE

STA = 10+60.00
EL = 11.53
SSD = 616'
ex = -0.02'
K = 6
L = 10.00

11.54 | 11.48

-2.00% | -1.16% | -0.61%

STA = 10+22.50
EL = 11.09
ex = 0.04'
K = 3
L = 10.00

EXISTING GRADE LINE

11.67 11.54 | 11.45 11.13 | 11.21 11.41 | 11.43 | 11.32 | 11.18

10+00.00 | 11+00.00

HORIZONTAL SCALE
0 25' 50'

VERTICAL SCALE
0 5' 10'

No.	REVISIONS	DATE	BY

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KHA PROJECT 116049105
DATE August 12, 2022
SCALE 1" = 25'
DESIGNED BY KMP
DRAWN BY KMP
CHECKED BY

PROFILE CLEVELAND STREET
STA. 142+75 TO STA. 149+00

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
13B

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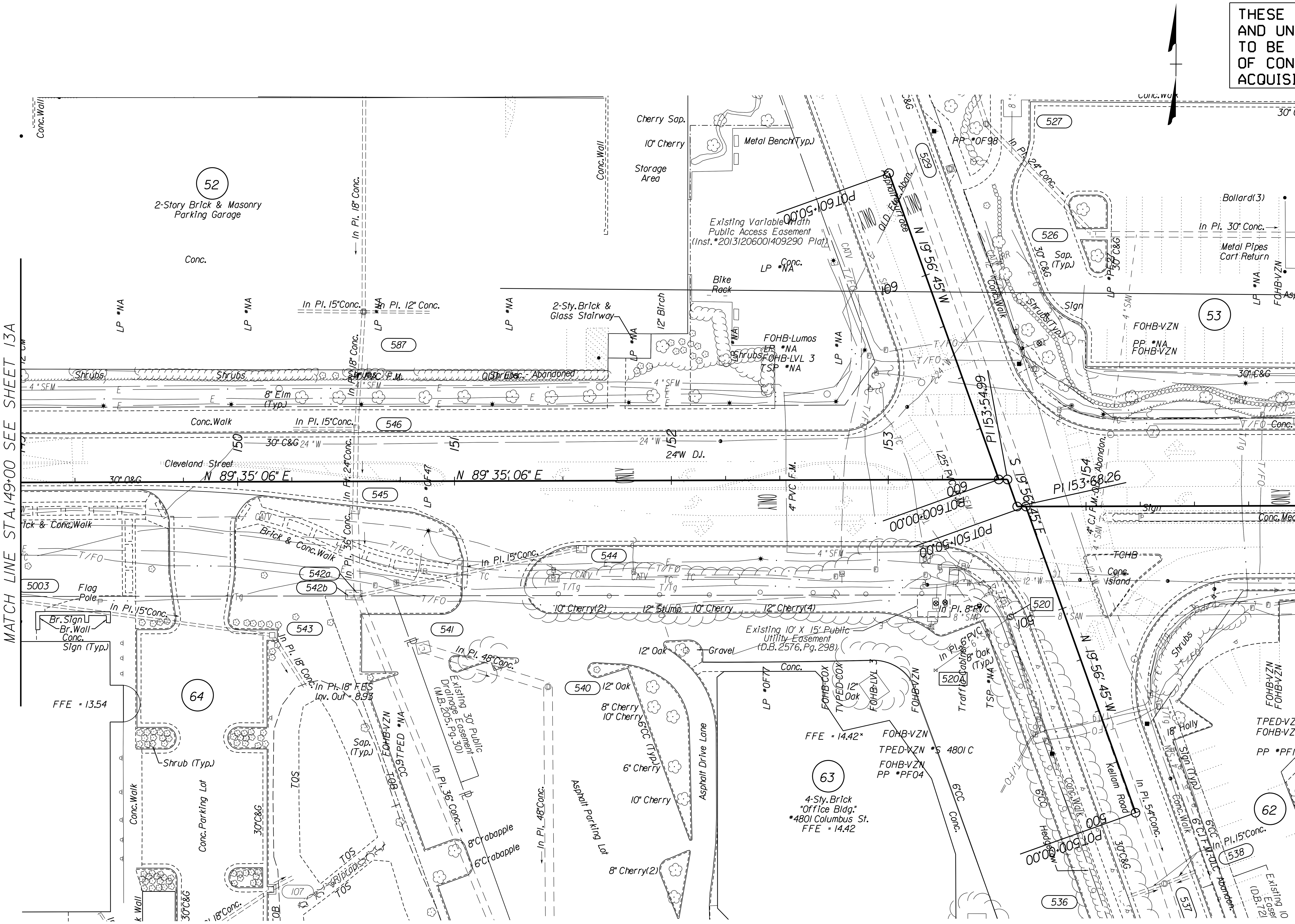

REFERENCES
(PROFILES,DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

14A	ROADWAY PLAN
14B	ROADWAY PROFILE

SCALE 0 25' 50'

No.	REVISIONS	DATE	BY

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KHA PROJECT 116049105
DATE August 12, 2022
SCALE
DESIGNED BY
DRAWN BY
CHECKED BY

TOPOGRAPHIC SURVEY
CLEVELAND STREET
STA. 149+00 TO STA. 155+00

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
14

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Plotted By: kevin.punlnske

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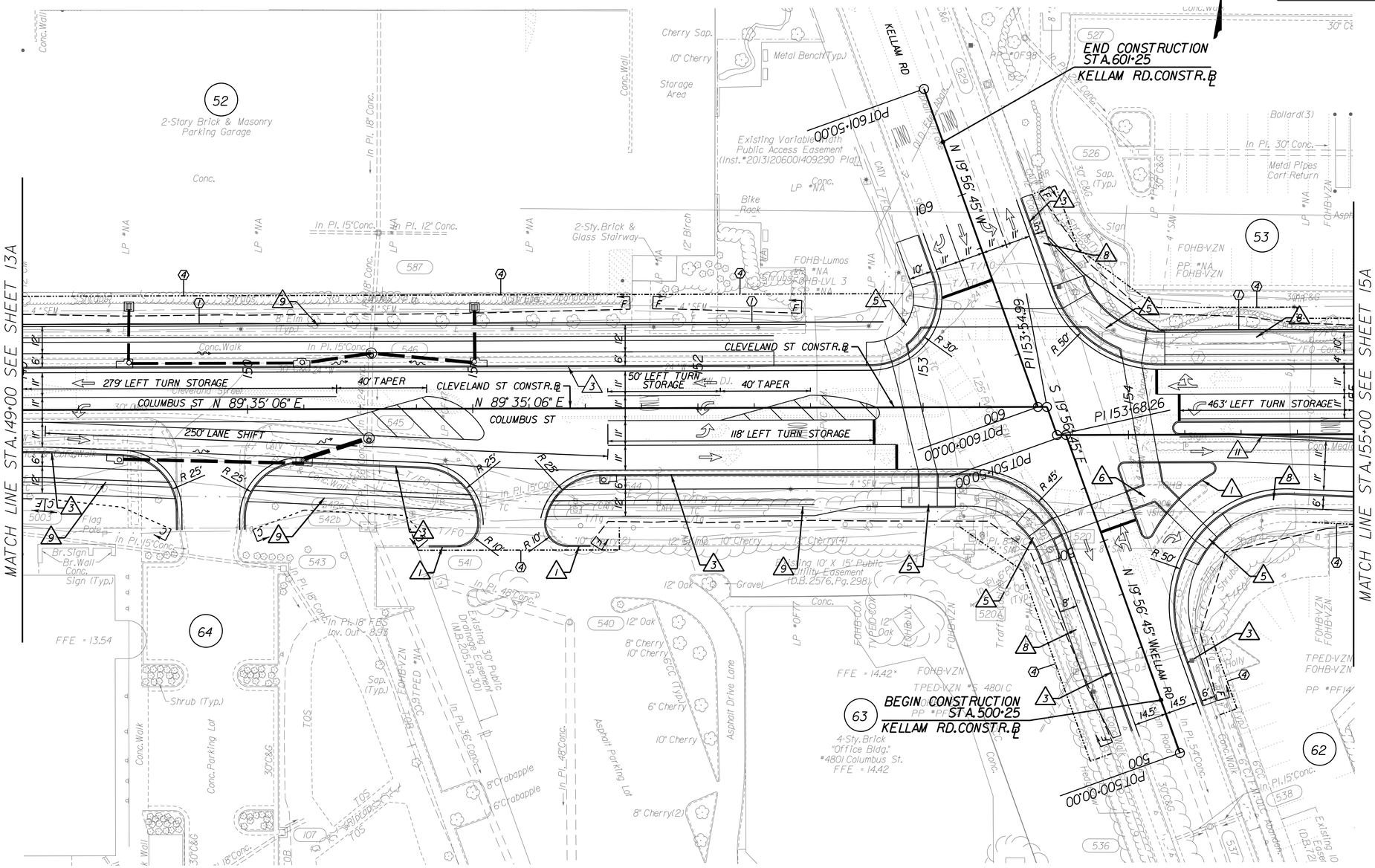

LEGEND

- PROP.ASPHALT PAVEMENT
- PROP.MILLING AND OVERLAY
- PROP.CONC.ITEMS
- F — DENOTES PROP.FILL LINE
- C — DENOTES PROP.CUT LINE
- 1 — PROP.R/W
- 2 — PROP.PERM.DRAIN.EASEMENT
- 3 — PROP.PERM.UTILITY EASEMENT
- 4 — PROP.TEMP.CONSTR.EASEMENT

- 1 ST'D.CG-2 REQ'D
- 2 ST'D.CG-3 REQ'D
- 3 ST'D.CG-6 REQ'D
- 4 ST'D.CG-12 TYPE A REQ'D
- 5 ST'D.CG-12 TYPE B REQ'D
- 6 ST'D.CG-12 TYPE RI2 REQ'D
- 7 ST'D.CG-12 TYPE M2 REQ'D
- 8 HYDR.CEMENT CONC.SIDEWALK REQ'D
- 9 SHARED SIDE PATH
- 10 ST'D.MS-1 REQ'D
- 11 ST'D.MS-2 REQ'D
- 12 ST'D.HRPDC CI_10 REQ'D
- 13 CONCRETE TRUCK APRON

SCALE 0 25' 50'

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

14	TOPOGRAPHIC SURVEY
14B	ROADWAY PROFILE

No.	REVISIONS	DATE	BY

Kimley»Horn

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PHONE: 757-213-8600
WWW.KIMLEY-HORN.COM

KHA PROJECT 116049105
DATE August 12, 2022
SCALE
DESIGNED BY
DRAWN BY
CHECKED BY

ROADWAY PLAN CLEVELAND STREET
STA. 149+00 TO STA. 155+00

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
14A

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CLEVELAND STREET CONST.℄

MATCH LINE SHEET 13B
CLEVELAND ST CONST.℄ STA.149+00

STA = 150+40.00
EL = 11.79
ex = 0.17'
K = 74
L = 100.00
V = 40 MPH

-0.50%

PROPOSED GRADE LINE

-0.85%

EXISTING GRADE LINE

NC

SOUTH KELLAM BLVD.
CONST.℄
STA.153+50.98

NORTH KELLAM BLVD.
CONST.℄
STA.153+49.98

STA = 153+50.00
EL = 14.42
SSD = 795'
ex = -0.18'
K = 69
L = 100.00
V = 45 MPH

-0.60%

MATCH LINE SHEET 15B
CLEVELAND ST CONST.℄ STA.155+00

20 15 10 5

149+00.00	150+00.00	151+00.00	152+00.00	153+00.00	154+00.00	155+00.00
11.92 12.49	11.90 12.36	11.82 12.24	11.67 12.11	11.59 11.99	11.61 11.95	11.55 11.98
11.92 12.10	12.06 12.30	12.14 12.51	12.24 12.72	12.36 12.93	12.57 13.15	12.80 13.36
12.97 13.57	13.12 13.78	13.36 14.00	13.66 14.46	13.75 14.24	13.69 14.22	13.56 14.12
13.57 13.97	13.50 13.82	13.38 13.67	13.25 13.52			

SOUTH KELLAM BLVD. CONST.℄

PROPOSED GRADE LINE

-0.55%

-1.23%

EXISTING GRADE LINE

STA = 500+80.00
EL = 13.37
ex = 0.08'
K = 148
L = 100.00

20 15 10 5

500+00.00	501+00.00
13.04 13.07	13.23 13.22
13.41 13.41	13.37 13.65
13.50 13.52	13.71 14.23

NORTH KELLAM BLVD. CONST.℄

PROPOSED GRADE LINE

-1.14%

-0.50%

EXISTING GRADE LINE

STA = 600+70.00
EL = 13.45
ex = 0.08'
K = 157
L = 100.00

600+00.00	601+00.00
13.24 14.24	13.55 13.56
13.52 13.70	13.40 13.48
13.26 13.31	13.17 13.17
13.09	

HORIZONTAL SCALE
0 25' 50'

VERTICAL SCALE
0 5' 10'

No.	REVISIONS	DATE	BY

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PHONE: 757-213-8600
WWW.KIMLEY-HORN.COM

KHA PROJECT 116049105
DATE August 12, 2022
SCALE 1" = 25'
DESIGNED BY KMP
DRAWN BY KMP
CHECKED BY

PROFILE CLEVELAND STREET
STA. 149+00 TO STA. 155+00

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
14B

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Plotted By: kevin.punlnske

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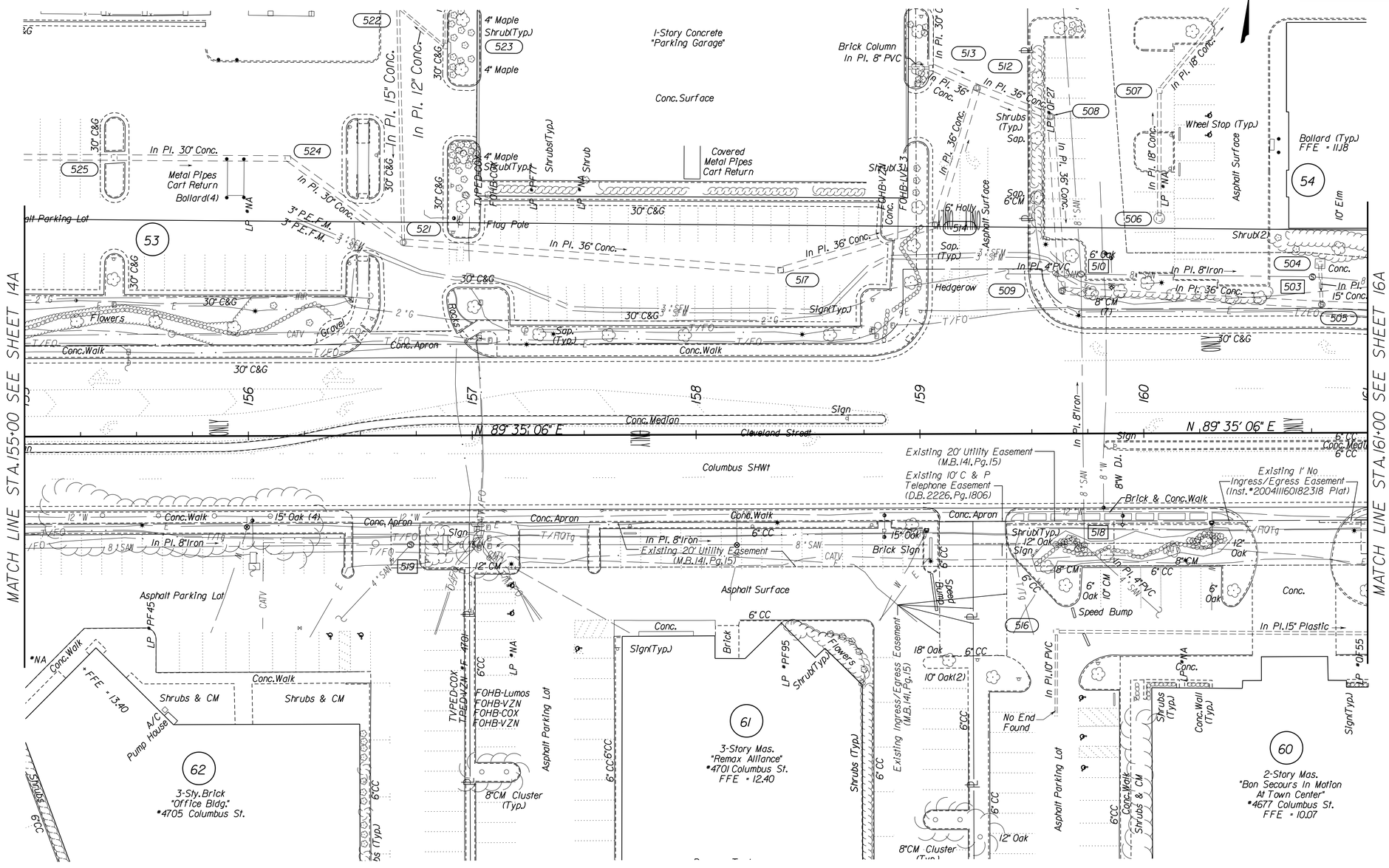

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

15A	ROADWAY PLAN
15B	ROADWAY PROFILE

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No.	REVISIONS	DATE	BY

KHA PROJECT 116049105
DATE August 12, 2022
SCALE
DESIGNED BY
DRAWN BY
CHECKED BY

TOPOGRAPHIC SURVEY
CLEVELAND STREET
STA. 155+00 TO STA. 161+00

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
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Plotted By: kevin.punlnske

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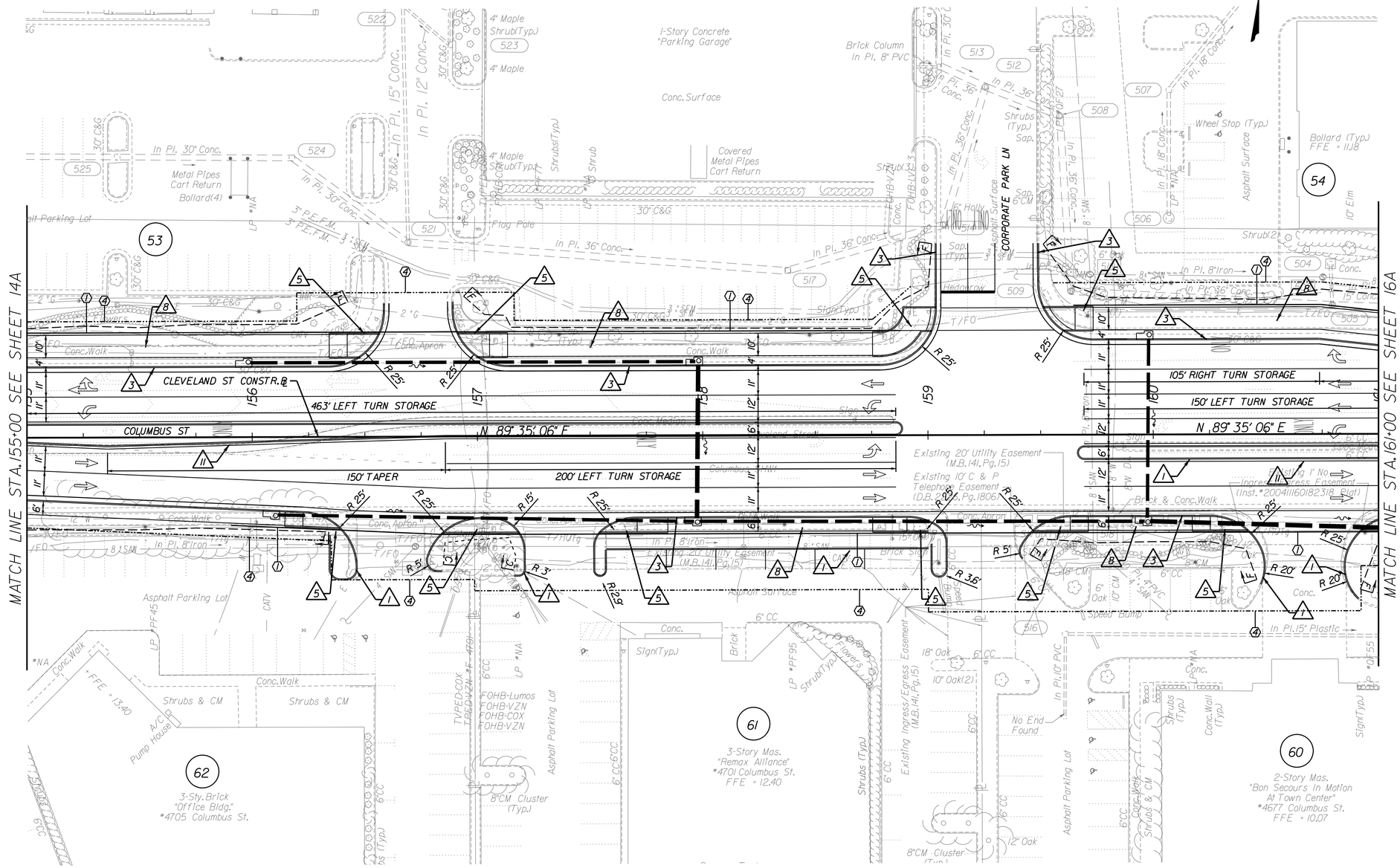

LEGEND

- PROP.ASPHALT PAVEMENT
- PROP.MILLING AND OVERLAY
- PROP.CONC.ITEMS
- F_ DENOTES PROP.FILL LINE
- C_ DENOTES PROP.CUT LINE
- ① PROP.R/W
- ② PROP.PERM.DRAIN.EASEMENT
- ③ PROP.PERM.UTILITY EASEMENT
- ④ PROP.TEMP.CONSTR.EASEMENT

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- ② ST'D.CG-3 REQ'D
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- ④ ST'D.CG-12 TYPE A REQ'D
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- ⑦ ST'D.CG-12 TYPE M2 REQ'D
- ⑧ HYDR.CEMENT CONC.SIDEWALK REQ'D
- ⑨ SHARED SIDE PATH
- ⑩ ST'D.MS-1 REQ'D
- ⑪ ST'D.MS-2 REQ'D
- ⑫ ST'D.HRPDC CI_10 REQ'D
- ⑬ CONCRETE TRUCK APRON

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

15	TOPOGRAPHIC SURVEY
15B	ROADWAY PROFILE

No.	REVISIONS	DATE	BY

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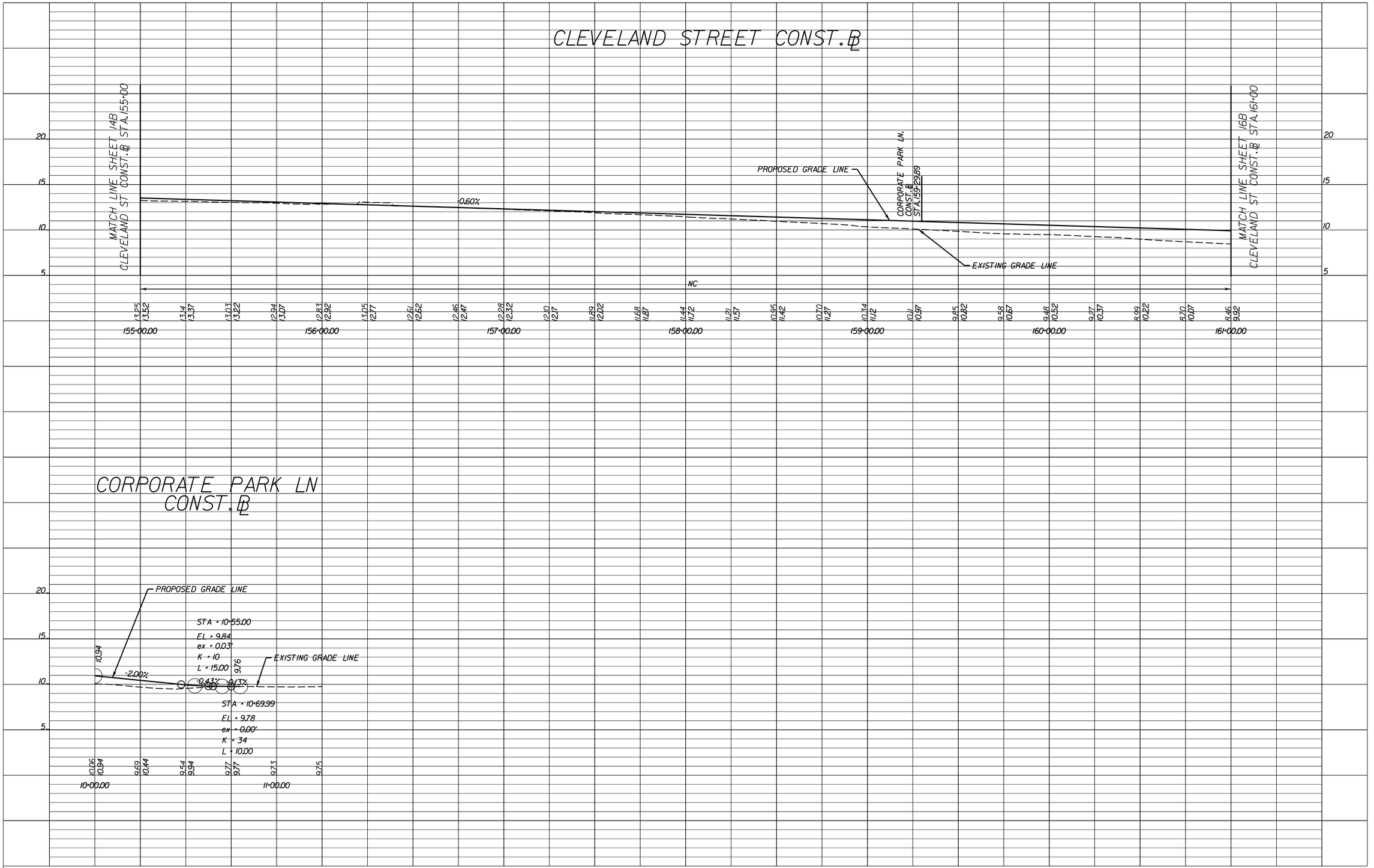
CLEVELAND STREET CONST. ℄



CORPORATE PARK LN CONST. ℄

HORIZONTAL SCALE
0 25' 50'

VERTICAL SCALE
0 5' 10'

No.	REVISIONS	DATE	BY

Kimley»Horn
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4525 MAIN STREET, SUITE 1000, VIRGINIA BEACH, VA 23462
PHONE: 757-213-8600
WWW.KIMLEY-HORN.COM

KHA PROJECT 116049105
DATE August 12, 2022
SCALE 1" = 25'
DESIGNED BY KMP
DRAWN BY KMP
CHECKED BY

PROFILE CLEVELAND STREET
STA. 155+00 TO STA. 161+00

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
15B

110803001 6.dgn
7:47:47 PM
110803001 6.dgn
Plotted By: kevin.puninske

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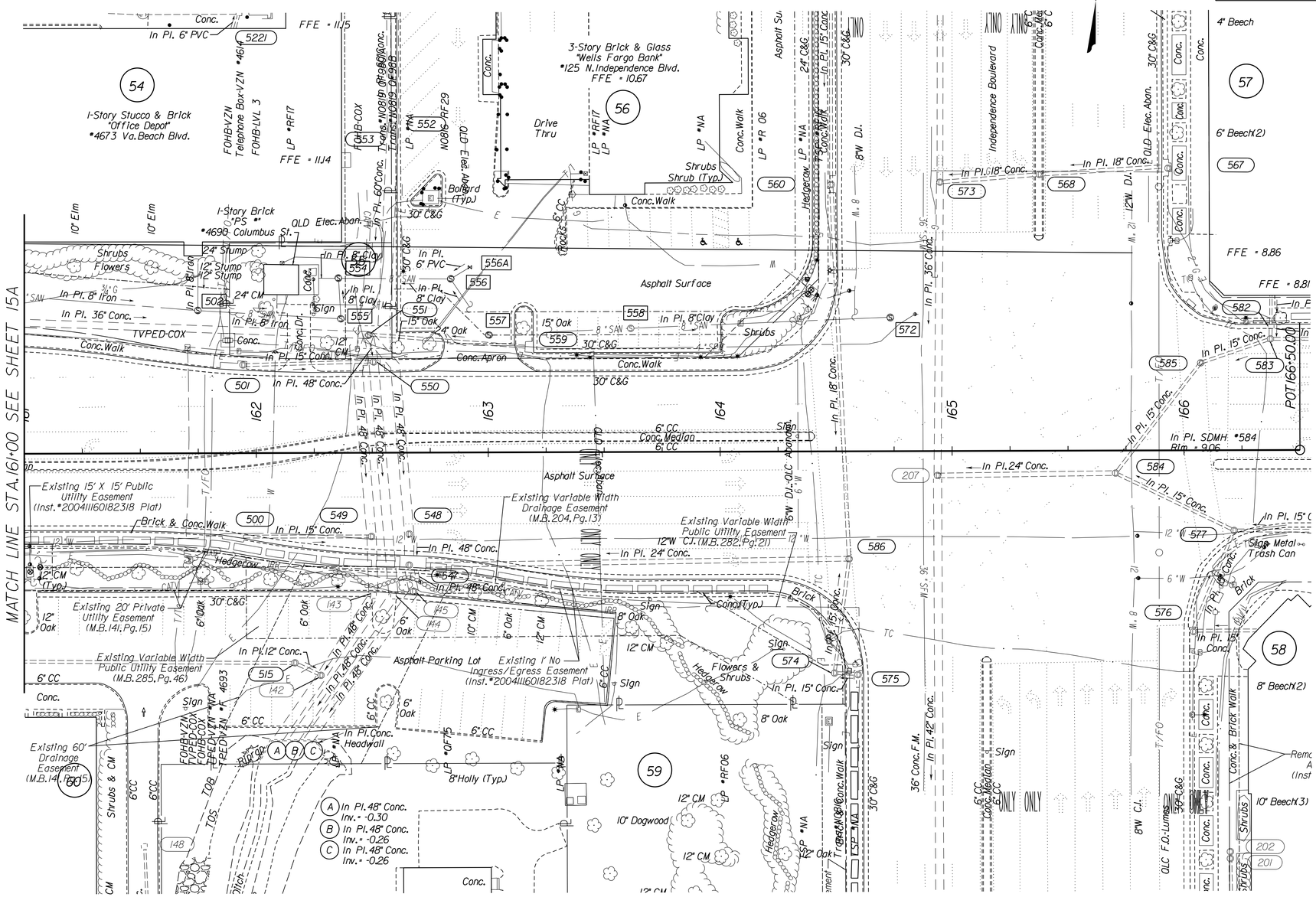

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)	
16A	ROADWAY PLAN
16B	ROADWAY PROFILE

No.	REVISIONS	DATE	BY

Kimley»Horn

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KHA PROJECT 116049105
DATE August 12, 2022
SCALE
DESIGNED BY
DRAWN BY
CHECKED BY

TOPOGRAPHIC SURVEY
CLEVELAND STREET
STA. 161+00 TO STA. 166+00

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
16

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I10803001l6a.dgn
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Plotted By: kevin.punlnske

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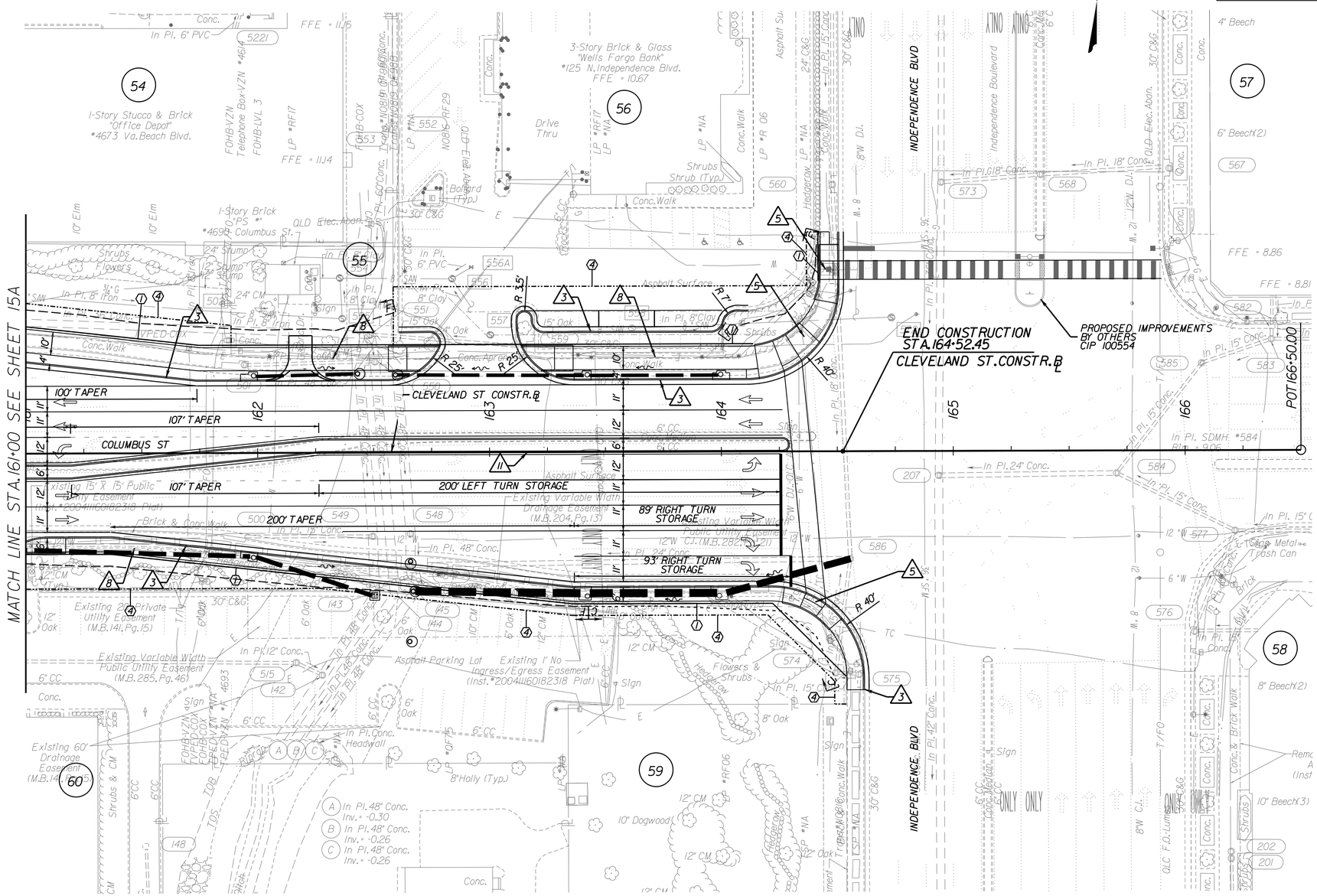

LEGEND

- PROP.ASPHALT PAVEMENT
- PROP.MILLING AND OVERLAY
- PROP.CONC.ITEMS
- F_ DENOTES PROP.FILL LINE
- C_ DENOTES PROP.CUT LINE
- ① PROP.R/W
- ② PROP.PERM.DRAIN.EASEMENT
- ③ PROP.PERM.UTILITY EASEMENT
- ④ PROP.TEMP.CONSTR.EASEMENT

- ① ST'D.CG-2 REQ'D
- ② ST'D.CG-3 REQ'D
- ③ ST'D.CG-6 REQ'D
- ④ ST'D.CG-12 TYPE A REQ'D
- ⑤ ST'D.CG-12 TYPE B REQ'D
- ⑥ ST'D.CG-12 TYPE RI2 REQ'D
- ⑦ ST'D.CG-12 TYPE M2 REQ'D
- ⑧ HYDR.CEMENT CONC.SIDEWALK REQ'D
- ⑨ SHARED SIDE PATH
- ⑩ ST'D.MS-1 REQ'D
- ⑪ ST'D.MS-2 REQ'D
- ⑫ ST'D.HRPDC CI_10 REQ'D
- ⑬ CONCRETE TRUCK APRON

SCALE
0 25' 50'

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

16	TOPOGRAPHIC SURVEY
16B	ROADWAY PROFILE

			BY
		DATE	
	REVISIONS		
		No.	

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KHA PROJECT	116049105
DATE	August 12, 2022
SCALE	
DESIGNED BY	
DRAWN BY	
CHECKED BY	

ROADWAY PLAN CLEVELAND STREET
STA. 161+00 TO STA. 166+00

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
16A

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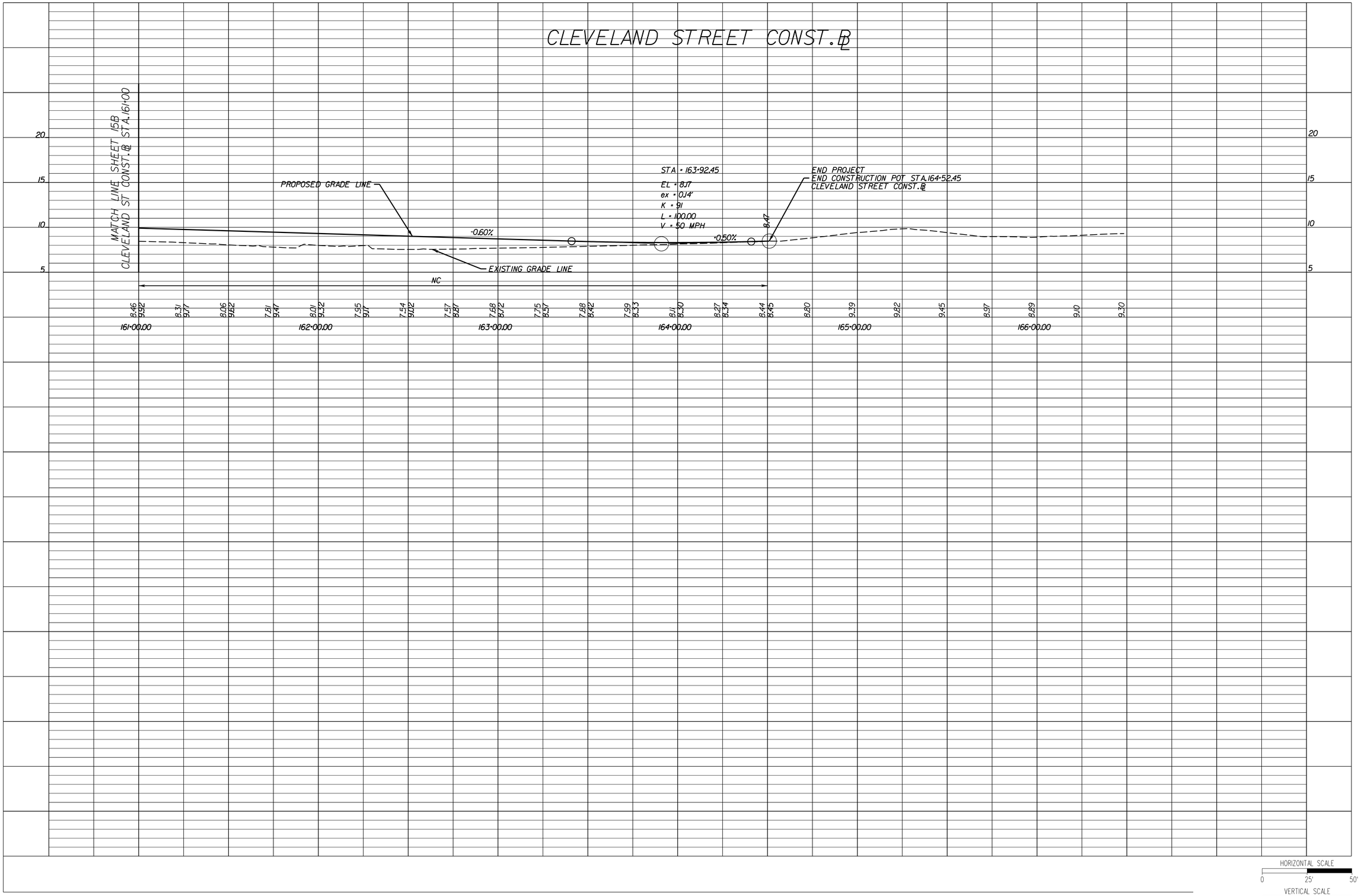
CLEVELAND STREET CONST.℄



HORIZONTAL SCALE
0 25' 50'

VERTICAL SCALE
0 5' 10'

No.	REVISIONS	DATE	BY

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KHA PROJECT	116049105
DATE	August 12, 2022
SCALE	1" = 25'
DESIGNED BY	KMP
DRAWN BY	KMP
CHECKED BY	

PROFILE CLEVELAND STREET
STA. 161+00 TO STA. 166+00

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
16B

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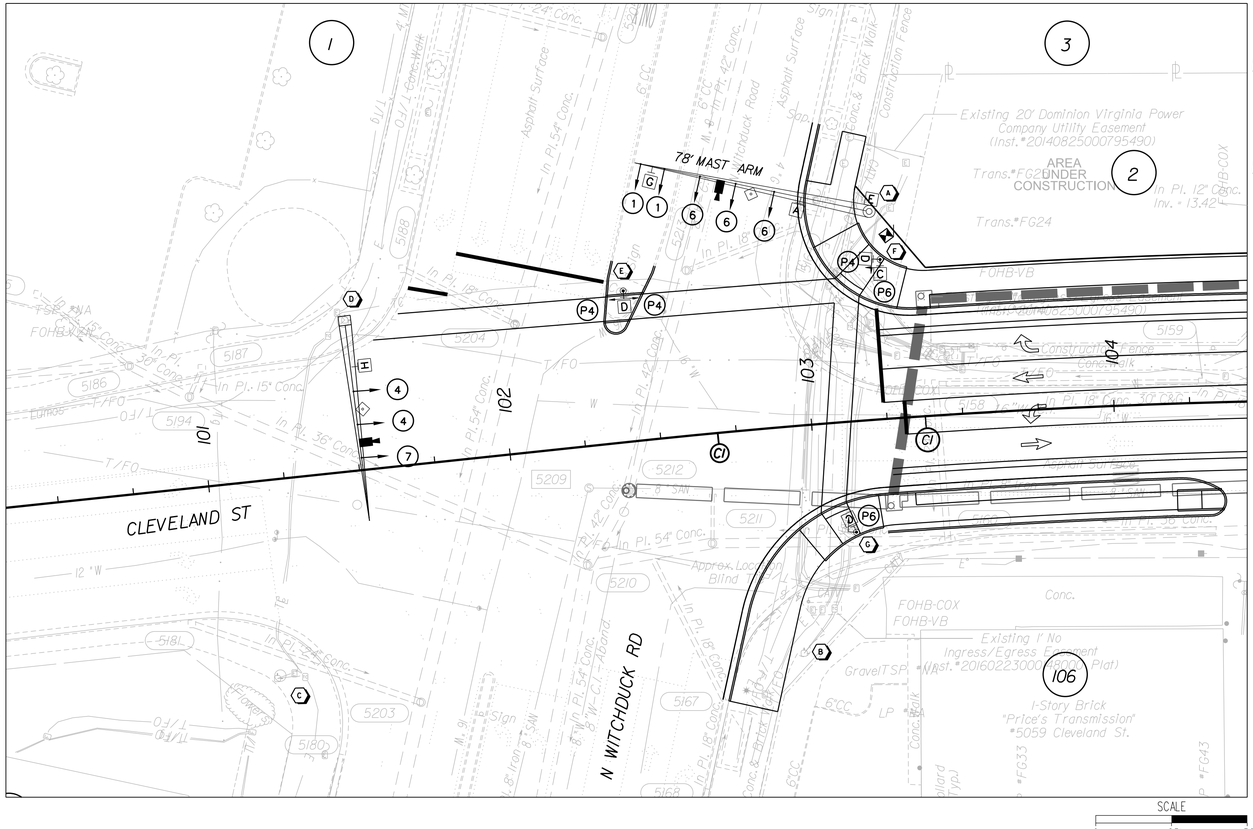


THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROPOSED SIGNAL HEADS

3 SECTION WITH BACK PLATE (12") — (6) (8)

3 SECTION WITH BACK PLATE (12") — (1) (3)

4 SECTION WITH BACK PLATE (12") — (8A) *FLASHING

PROPOSED PEDESTRIAN SIGNAL HEADS

SP-8 18" (11" x 91") — P4 P6

EXISTING SIGNAL HEADS

3 SECTION WITH BACK PLATE (12") — (2)

3 SECTION WITH BACK PLATE (12") — (5)

RELOCATED SIGNAL HEADS

3 SECTION WITH BACK PLATE (12") — (4)

3 SECTION WITH BACK PLATE (12") — (7)

EXISTING PEDESTRIAN SIGNAL HEADS

SP-8 18" (11" x 91") — P2 P4 P6

PROPOSED SIGNS

[A] Cleveland St 5000 — 18" X 96" (MAX)

[B] N Witchduck Rd 100 — 18" X 96" (MAX)

RELOCATED SIGNS

[H] N Witchduck Rd 200 — 18" X 96" (MAX)

[C] R10-3e — 18" X 96" (MAX)
START CROSSING Watch For Vehicles
DON'T START Flash Crossing Started
TIME REMAINING To Flash Crossing
DON'T CROSS
TO CROSS CLEVELAND ST PUSH BUTTON

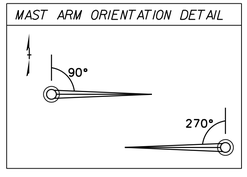
[D] R10-3e — 18" X 96" (MAX)
START CROSSING Watch For Vehicles
DON'T START Flash Crossing Started
TIME REMAINING To Flash Crossing
DON'T CROSS
TO CROSS N WITCHDUCK RD PUSH BUTTON

[E] NOT USED RESERVED FOR ELECTRICAL SERVICE

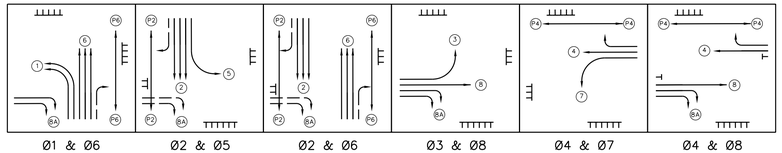
[F] RIGHT TURN SIGNAL — R10-10 — 30" X 36"

[G] U-TURN YIELD TO RIGHT TURN — R10-16 — 30" X 36"

MAST ARM ORIENTATION DETAIL



PHASING DIAGRAM



PROTECTED
PERMISSIVE

POLE SCHEDULE

	STANDARD				SIGNAL MOUNTING (DISTANCE FROM FACE OF POLE)					PED SIGNAL MOUNTING HEIGHT		EVP DISTANCE FROM POLE	VDC DISTANCE FROM POLE	TRAFFIC SIGN MOUNTING DISTANCE OR HEIGHT ON POLE				POLE LOCATION		MAST ARM ORIENTATION	LUMINAIRE ARM MOUNTING HEIGHT	LUMINAIRE ARM ORIENTATION	
NO.	TYPE	POLE HEIGHT	MAST ARM LENGTH	MAST ARM HEIGHT														STATION	OFFSET				
[A]	MP-3 TYPE EI	30'	78'	19'	31' Ø6	44' Ø6	56' Ø6	68' Ø1	76' Ø1	-	-	38'	49'	22' [A]	72' [G]	-	-	103+24.02	68.71' LT	280°	29'	285°	195°
[B]	EXIST.	EXIST.	EXIST.	EXIST.	-	-	-	-	-	-	-	-	-	-	-	-	-	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	
[C]	EXIST.	EXIST.	EXIST.	EXIST.	-	-	-	-	-	-	-	-	-	-	-	-	-	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	
[D]	EXIST.	EXIST.	EXIST.	EXIST.	22' Ø4	33' Ø4	44' Ø7	-	-	-	-	28'	29'	14' [C]	-	-	-	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	
[E]	PF-2	10'	-	-	-	-	-	-	-	△ 10' Ø P4	△ 10' Ø P4	-	-	△ 4' [D]	-	-	-	102+42.77	49.77' LT	-	-	-	
[F]	PF-2	10'	-	-	-	-	-	-	-	△ 10' Ø P4	△ 10' Ø P6	-	-	△ 4' [C]	△ 4' [D]	-	-	103+26.44	52.64' LT	-	-	-	
[G]	PF-2	10'	-	-	-	-	-	-	-	△ 10' Ø P4		-	-	△ 4' [C]	-	-	-	103+12.05	36.53' LT	-	-	-	

(MP-3) = VDOT STANDARD MAST ARM POLE.MODIFIED AS REQUIRED BY CITY OF VIRGINIA BEACH SUPPLEMENTAL SPECIFICATIONS.
(PF-2) = VDOT STANDARD PEDESTAL POLE.MODIFIED AS REQUIRED BY CITY OF VIRGINIA BEACH SUPPLEMENTAL SPECIFICATIONS.
* REFER TO LIGHTING PLANS FOR COMPLETE INFORMATION
△ INDICATES HEIGHT MOUNTED DIRECTLY ON POLE
BOLD INDICATES NEW OR RELOCATED EQUIPMENT

COLOR SEQUENCE CHART

PHASE	Ø1 & Ø6	Ø2 & Ø5	Ø2 & Ø6	Ø3 & Ø8	Ø4 & Ø7	Ø4 & Ø8	FLASH
SIGNAL	R/W	R/W	R/W	R/W	R/W	R/W	
1	~~G~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~
2	R	G	G	R	R	R	Y
3	~~R~~	~~R~~	~~R~~	~~G~~	~~R~~	~~R~~	~~R~~
4	R	R	R	R	G	G	R
5	~~R~~	~~G~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~
6	G	R	G	R	R	R	Y
7	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~
8	R	R	R	G	R	G	R
8A	~~G~~	~~FY~~	~~FY~~ ~~G~~	~~G~~	~~FY~~ ~~R~~	~~G~~	~~R~~
P2	DW	WALK	WALK	DW	DW	DW	BLANK
P4	DW	DW	DW	DW	WALK	WALK	BLANK
P6	WALK	DW	WALK	DW	DW	DW	BLANK

LEGEND

EXISTING	PROPOSED	
		SIGNAL POLE & MAST ARM
		SIGNAL HEAD
		PEDESTRIAN HEAD
		PEDESTAL POLE
		EMERGENCY VEHICLE PRE-EMPTION DEVICE
		VIDEO DETECTION CAMERA & CAMERA NUMBER
		VIDEO DETECTION ZONE
		MAST ARM OR POLE MOUNTED SIGNS
		STREET SIGN
		RIGHT OF WAY BOUNDARY
		SIGNAL POLE IDENTIFIER
TB TSBOX		GROUND MOUNTED CONTROLLER CABINET (UNLESS OTHERWISE NOTED)
		UNINTERRUPTIBLE POWER SUPPLY
E EBOX		ELECTRICAL SERVICE SE-3 TYPE B
		JUNCTION BOX (JB-S2 UNLESS OTHERWISE NOTED)
		NOTES
		PROPOSED LUMINAIRE SEE PHOTOMETRIC PLANS FOR DETAILS
		CONDUIT
		CONDUIT DESIGNATION
		FIBER OPTIC CABLE SPLICE
		PED PUSHBUTTON

No.	REVISIONS	DATE	BY

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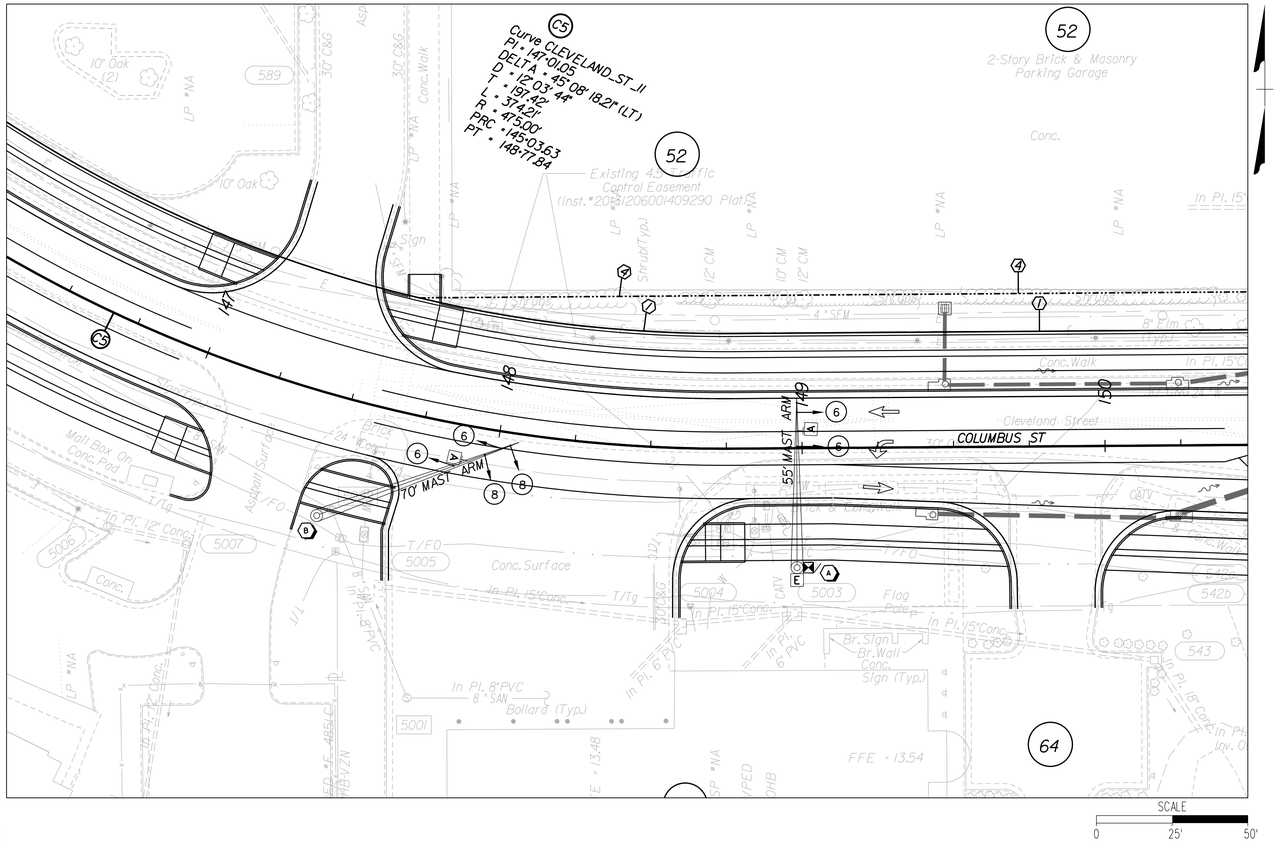
KHA PROJECT 116049105
DATE August 12, 2022
SCALE
DESIGNED BY
DRAWN BY
CHECKED BY

TRAFFIC SIGNAL PLAN
CLEVELAND STREET AND WITCHDUCK ROAD

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
20(1)



TRAFFIC CONSTRUCTION NOTES

1. PROPOSED TRAFFIC CONTROL CABINET TO BE POLE MOUNTED

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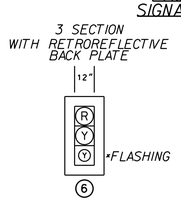
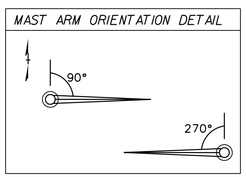
PROPOSED SIGNAL HEADS



PROPOSED SIGNS

MAST ARM ORIENTATION DETAIL



POLE SCHEDULE

	STANDARD				SIGNAL MOUNTING (DISTANCE FROM FACE OF POLE)				PED SIGNAL MOUNTING HEIGHT		EVP DISTANCE FROM POLE	VDC DISTANCE FROM POLE	TRAFFIC SIGN MOUNTING DISTANCE OR HEIGHT ON POLE			POLE LOCATION		MAST ARM ORIENTATION	LUMINAIRE ARM MOUNTING HEIGHT	LUMINAIRE ARM ORIENTATION
NO.	TYPE	POLE HEIGHT	MAST ARM LENGTH	MAST ARM HEIGHT												STATION	OFFSET			
A	MP-3 TYPE EI	30'	55'	19'	39' Ø6	50' Ø6	-	-	-	-	-	-	44' A	-	-	148+98.06	39.43' RT	0°	30'	5°
B	MP-3 TYPE BI	20'	70'	19'	47' Ø6	58' Ø8	64' Ø6	67' Ø8	-	-	-	-	52' A	-	-	147+48.77	39.98' RT	70°	-	-

(MP-3) = VDOT STANDARD MAST ARM POLE, MODIFIED AS REQUIRED BY CITY OF VIRGINIA BEACH SUPPLEMENTAL SPECIFICATIONS.
• REFER TO LIGHTING PLANS FOR COMPLETE INFORMATION
△ INDICATES HEIGHT MOUNTED DIRECTLY ON POLE

COLOR SEQUENCE CHART

PHASE	Ø6	Ø8	FLASH
SIGNAL	R/W	R/W	
6	FY	R	Y
8	R	G	R

LEGEND

EXISTING	PROPOSED	
		SIGNAL POLE & MAST ARM
		SIGNAL HEAD
		PEDESTRIAN HEAD
		PEDESTAL POLE
		EMERGENCY VEHICLE PRE-EMPTION DEVICE
		VIDEO DETECTION CAMERA & CAMERA NUMBER
		VIDEO DETECTION ZONE
		MAST ARM OR POLE MOUNTED SIGNS
		STREET SIGN
		RIGHT OF WAY BOUNDARY
		SIGNAL POLE IDENTIFIER
TB TSBOX		GROUND MOUNTED CONTROLLER CABINET (UNLESS OTHERWISE NOTED)
	UPS	UNINTERRUPTIBLE POWER SUPPLY
E EBOX	E	ELECTRICAL SERVICE SE-3 TYPE B
		JUNCTION BOX (JB-S2 UNLESS OTHERWISE NOTED)
	X	NOTES
		PROPOSED LUMINAIRE SEE PHOTOMETRIC PLANS FOR DETAILS
		CONDUIT
	A	CONDUIT DESIGNATION
		FIBER OPTIC CABLE SPLICE
		PED PUSHBUTTON

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PHONE: 757-213-8600
WWW.KIMLEY-HORN.COM

KHA PROJECT	116049105
DATE	August 12, 2022
SCALE	
DESIGNED BY	
DRAWN BY	
CHECKED BY	

TRAFFIC SIGNAL PLAN
COLUMBUS STREET
EMERGENCY SIGNAL

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
20(3)

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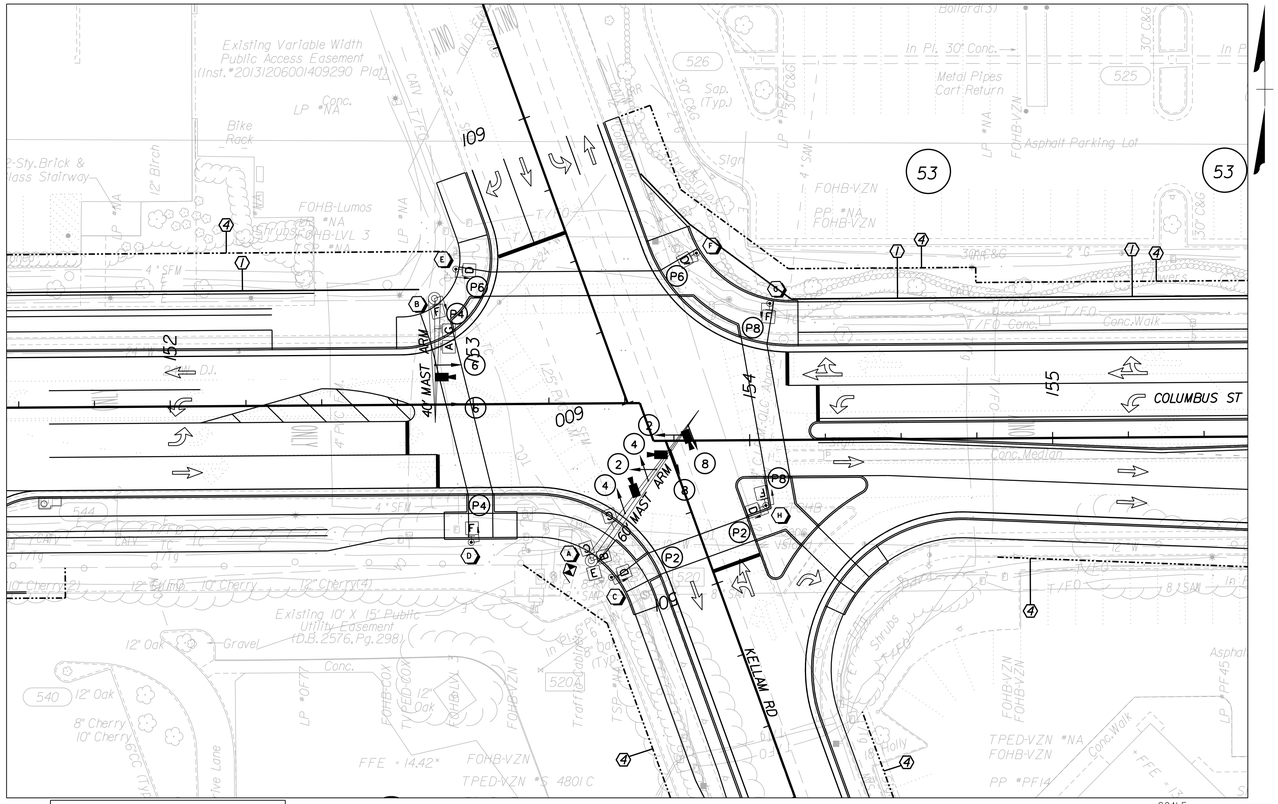
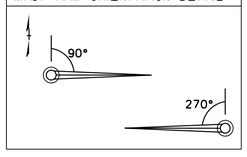


SCALE
0 25' 50'

MAST ARM ORIENTATION DETAIL



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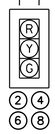
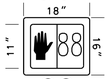
PROPOSED SIGNAL HEADS

3 SECTION WITH RETROREFLECTIVE BACK PLATE



PROPOSED PEDESTRIAN SIGNAL HEADS

SP-8



PROPOSED SIGNS

Columbus St 4800
18" X 96" (MAX)
A

Kellam Rd 100
12" X 36" (MAX)
B

Columbus St 4800
12" X 36" (MAX)
C

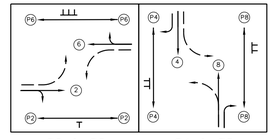
R10-3e
9" X 12"
D

NOT USED
RESERVED FOR ELECTRICAL SERVICE
E

R10-3e
9" X 12"
F

R10-15
30" X 36"
G

PHASING DIAGRAM



Ø2 & Ø6 Ø4 & Ø8

PROTECTED
PERMISSIVE

COLOR SEQUENCE CHART

PHASE / SIGNAL	Ø2 & Ø6 R/W	Ø4 & Ø8 R/W	FLASH
2	G	R	R
4	R	G	Y
6	G	R	R
8	R	G	Y
P2	WALK	DW	BLANK
P4	DW	WALK	BLANK
P6	WALK	DW	BLANK
P8	DW	WALK	BLANK

POLE SCHEDULE

NO.	TYPE	STANDARD: POLE HEIGHT	STANDARD: MAST ARM LENGTH	STANDARD: MAST ARM HEIGHT	SIGNAL MOUNTING (DISTANCE FROM FACE OF POLE)	PED SIGNAL MOUNTING HEIGHT	EVP DISTANCE FROM POLE	VDC DISTANCE FROM POLE	TRAFFIC SIGN MOUNTING DISTANCE OR HEIGHT ON POLE	POLE LOCATION: STATION	POLE LOCATION: OFFSET	MAST ARM ORIENTATION	LUMINAIRE ARM MOUNTING HEIGHT	LUMINAIRE ARM ORIENTATION
A	MP-3 TYPE E2	30'	60'	19'	18' Ø4; 31' Ø4; 36' Ø2; 44' Ø8; 50' Ø2; 54' Ø8; -	- ; -	46' ; 48'	25' ; 42' ; 52'	△16' C ; △18' D ; 12' G	153+68.26	44.56' RT	35°	30'	65°
B	MP-3 TYPE A	20'	40'	19'	20' Ø6; 32' Ø6; - - - - -	△10' Ø4 ; -	-	25'	△4' G ; 9' G ; 13' B	152+87.47	35.04' LT	180°	-	-
C	PF-2	10'	-	-	- - - - - - -	△10' Ø2 ; -	-	-	△4' F ; - ; -	153+68.26	47.12' RT	-	-	-
D	PF-2	10'	-	-	- - - - - - -	△10' Ø4 ; -	-	-	△4' G ; - ; -	152+99.02	45.55' RT	-	-	-
E	PF-2	10'	-	-	- - - - - - -	△10' Ø6 ; -	-	-	△4' F ; - ; -	152+94.58	44.65' LT	-	-	-
F	PF-2	10'	-	-	- - - - - - -	△10' Ø6 ; -	-	-	△4' F ; - ; -	153+54.99	52.92' LT	-	-	-
G	PF-2	10'	-	-	- - - - - - -	△10' Ø8 ; -	-	-	△4' G ; - ; -	154+06.96	45.09' LT	-	-	-
H	PF-2	10'	-	-	- - - - - - -	△10' Ø8 ; △10' Ø2	-	-	△4' F ; △4' G ; -	154+05.18	21.58' RT	-	-	-

(MP-3) = VDOT STANDARD MAST ARM POLE. MODIFIED AS REQUIRED BY CITY OF VIRGINIA BEACH SUPPLEMENTAL SPECIFICATIONS.
(PF-2) = VDOT STANDARD PEDESTAL POLE. MODIFIED AS REQUIRED BY CITY OF VIRGINIA BEACH SUPPLEMENTAL SPECIFICATIONS.
* REFER TO LIGHTING PLANS FOR COMPLETE INFORMATION
△ INDICATES HEIGHT MOUNTED DIRECTLY ON POLE

LEGEND

EXISTING	PROPOSED	
		SIGNAL POLE & MAST ARM
		SIGNAL HEAD
		PEDESTRIAN HEAD
		PEDESTAL POLE
		EMERGENCY VEHICLE PRE-EMPTION DEVICE
		VIDEO DETECTION CAMERA & CAMERA NUMBER
		VIDEO DETECTION ZONE
		MAST ARM OR POLE MOUNTED SIGNS
		STREET SIGN
		RIGHT OF WAY BOUNDARY
		SIGNAL POLE IDENTIFIER
TB TSBOX		GROUND MOUNTED CONTROLLER CABINET (UNLESS OTHERWISE NOTED)
		UNINTERRUPTIBLE POWER SUPPLY
E EBOX	E	ELECTRICAL SERVICE SE-3 TYPE B
		JUNCTION BOX (JB-S2 UNLESS OTHERWISE NOTED)
	X	NOTES
		PROPOSED LUMINAIRE SEE PHOTOMETRIC PLANS FOR DETAILS
		CONDUIT
	X	CONDUIT DESIGNATION
	S	FIBER OPTIC CABLE SPLICE
		PED PUSHBUTTON

No.	REVISIONS	DATE	BY

Kimley»Horn
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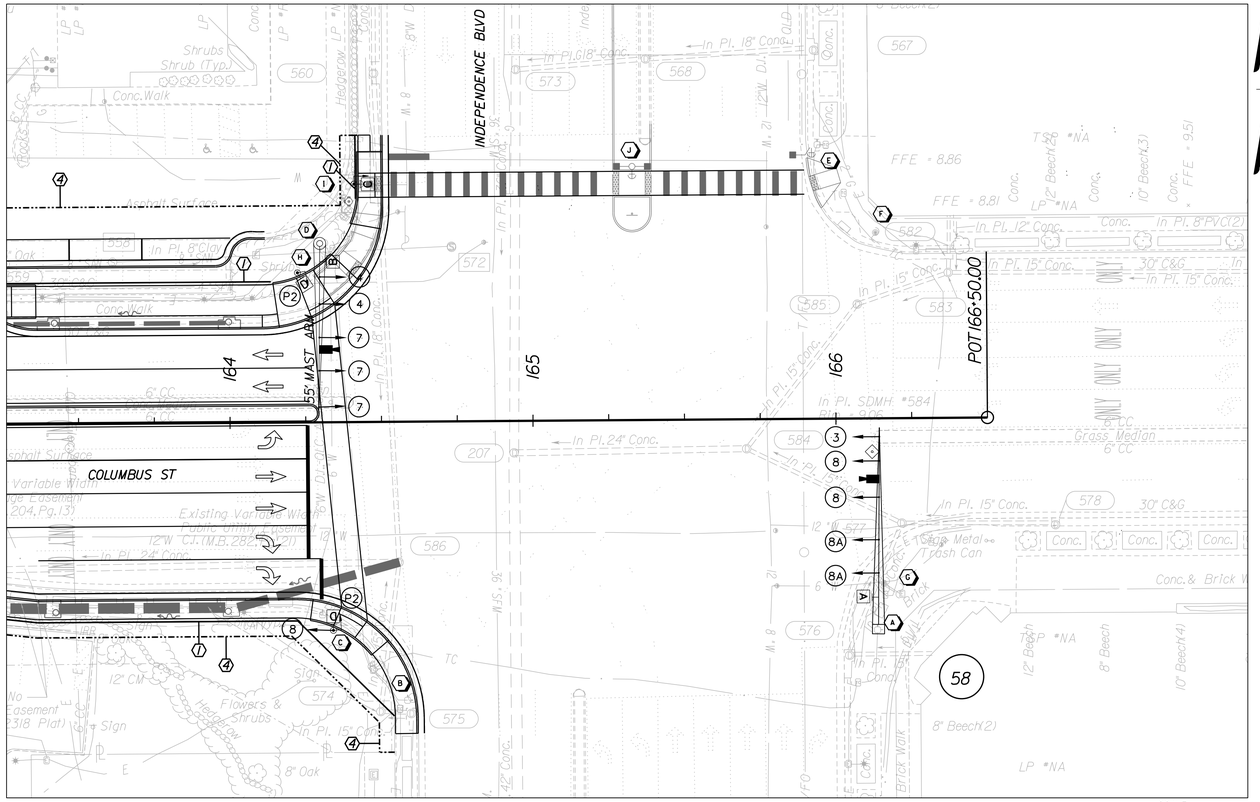
4525 MAIN STREET, SUITE 1000, VIRGINIA BEACH, VA 23462
PHONE: 757-213-8600
WWW.KIMLEY-HORN.COM

KHA PROJECT 116049105
DATE August 12, 2022
SCALE
DESIGNED BY
DRAWN BY
CHECKED BY

TRAFFIC SIGNAL PLAN
COLUMBUS STREET AND KELLAM ROAD

CLEVELAND STREET PHASE IV
(CIP 2-135)

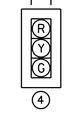
SHEET NUMBER
20(5)



THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROPOSED SIGNAL HEADS

3 SECTION WITH RETROREFLECTIVE BACK PLATE (12")



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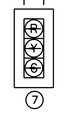
3 SECTION WITH RETROREFLECTIVE BACK PLATE (12")



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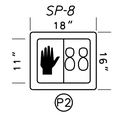
PROPOSED PEDESTRIAN SIGNAL HEADS



EXISTING SIGNAL HEADS

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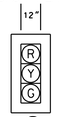

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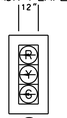
3 SECTION WITH RETROREFLECTIVE BACK PLATE (12")



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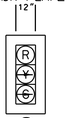
3 SECTION WITH RETROREFLECTIVE BACK PLATE (12")



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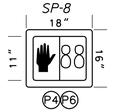
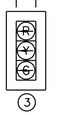
EXISTING PEDESTRIAN SIGNAL HEADS



RELOCATED SIGNAL HEADS

3 SECTION WITH RETROREFLECTIVE BACK PLATE (12")



③

EXISTING SIGNS

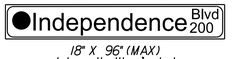
18" X 96" (MAX)
Internally Illuminated

A

RIO-3e
9" X 12"

C

PROPOSED SIGNS



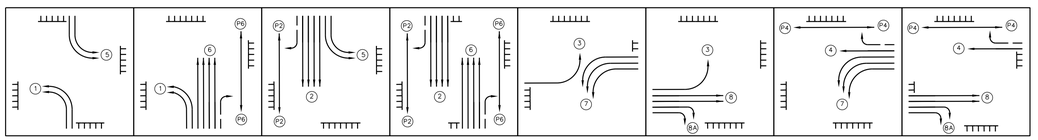
18" X 96" (MAX)
Internally Illuminated

B

RIO-3e
9" X 12"

D

PHASING DIAGRAM

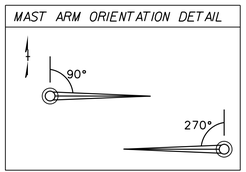


POLE SCHEDULE

NO.	STANDARD TYPE	STANDARD POLE HEIGHT	STANDARD MAST ARM LENGTH	STANDARD MAST ARM HEIGHT	SIGNAL MOUNTING (DISTANCE FROM FACE OF POLE)					PED SIGNAL MOUNTING HEIGHT		EVP DISTANCE FROM POLE	VDC DISTANCE FROM POLE	TRAFFIC SIGN MOUNTING DISTANCE OR HEIGHT ON POLE			POLE LOCATION STATION	POLE LOCATION OFFSET	MAST ARM ORIENTATION	LUMINAIRE ARM MOUNTING HEIGHT	LUMINAIRE ARM ORIENTATION
A	EXIST.	EXIST.	65'	EXIST.	-	-	-	-	62' Ø3	-	-	57'	-	-	-	-	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.
B	EXIST.	EXIST.	40'	EXIST.	-	-	-	-	-	-	-	-	-	-	-	-	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.
C	PF-2	15'	-	-	△15' Ø8	-	-	-	-	△10' Ø P2	-	-	-	△4' [D]	-	-	164+33.64	68.69' RT	-	-	-
D	MP-3 TYPE E1	30'	55'	19'	10' Ø4	19' Ø4	30' Ø7	41' Ø7	53' Ø7	-	-	-	34'	5' [B]	-	-	164+30.01	59.03' LT	180°	30'	90°
E	EXIST.	10'	65'	EXIST.	-	-	-	-	-	-	-	-	-	-	-	-	EXIST.	EXIST.	-	-	-
F	PF-2	EXIST.	EXIST.	EXIST.	-	-	-	-	-	-	-	-	-	-	-	-	EXIST.	EXIST.	-	-	-
G	PF-2	EXIST.	EXIST.	EXIST.	-	-	-	-	-	-	-	-	-	-	-	-	EXIST.	EXIST.	-	-	-
H	PF-2	10'	-	-	-	-	-	-	-	△10' Ø P2	-	-	-	△4' [D]	-	-	164+22.59	49.39' RT	-	-	-
I	PF-2	EXIST.	EXIST.	EXIST.	-	-	-	-	-	-	-	-	-	-	-	-	EXIST.	EXIST.	-	-	-
J	PF-2	EXIST.	EXIST.	EXIST.	-	-	-	-	-	-	-	-	-	-	-	-	EXIST.	EXIST.	-	-	-

(MP-3) = VDOT STANDARD MAST ARM POLE MODIFIED AS REQUIRED BY CITY OF VIRGINIA BEACH SUPPLEMENTAL SPECIFICATIONS.
(PF-2) = VDOT STANDARD PEDESTAL POLE MODIFIED AS REQUIRED BY CITY OF VIRGINIA BEACH SUPPLEMENTAL SPECIFICATIONS.
* INDICATES EQUIPMENT IS EXISTING AND SHALL REMAIN. ALL MEASURMENTS AND LENGTHS ARE APPROXIMATE
** REFER TO LIGHTING PLANS FOR COMPLETE INFORMATION
△ INDICATES HEIGHT MOUNTED DIRECTLY ON POLE
BOLD INDICATES NEW OR RELOCATED EQUIPMENT

MAST ARM ORIENTATION DETAIL



COLOR SEQUENCE CHART

PHASE / SIGNAL	Ø1 & Ø5	Ø1 & Ø6	Ø2 & Ø5	Ø2 & Ø6	Ø3 & Ø7	Ø3 & Ø8	Ø4 & Ø7	Ø4 & Ø8	FLASH
1	~~G~~	~~G~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~
2	R	R	G	G	R	R	R	R	Y
3	~~R~~	~~R~~	~~R~~	~~R~~	~~G~~	~~G~~	~~R~~	~~R~~	~~R~~
4	R	R	R	R	R	R	G	G	R
5	~~G~~	~~R~~	~~G~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~
6	R	G	R	G	R	R	R	R	Y
7	~~R~~	~~R~~	~~R~~	~~R~~	~~G~~	~~R~~	~~G~~	~~R~~	~~R~~
8	R	R	R	R	R	G	R	G	R
8A	R	R	R	R	R	~~G~~	R	~~G~~	R
P2	DW	DW	WALK	WALK	DW	DW	DW	DW	BLANK
P4	DW	DW	DW	DW	DW	DW	WALK	WALK	BLANK
P6	DW	WALK	DW	WALK	DW	DW	DW	DW	BLANK

LEGEND

EXISTING	PROPOSED	
		SIGNAL POLE & MAST ARM
		SIGNAL HEAD
		PEDESTRIAN HEAD
		PEDESTAL POLE
		EMERGENCY VEHICLE PRE-EMPTION DEVICE
		VIDEO DETECTION CAMERA & CAMERA NUMBER
		VIDEO DETECTION ZONE
		MAST ARM OR POLE MOUNTED SIGNS
		STREET SIGN
		RIGHT OF WAY BOUNDARY
		SIGNAL POLE IDENTIFIER
TB TSBOX		GROUND MOUNTED CONTROLLER CABINET (UNLESS OTHERWISE NOTED)
		UNINTERRUPTIBLE POWER SUPPLY
E EBOX		ELECTRICAL SERVICE SE-3 TYPE B
		JUNCTION BOX (JB-S2 UNLESS OTHERWISE NOTED)
		NOTES
		PROPOSED LUMINAIRE SEE PHOTOMETRIC PLANS FOR DETAILS
		CONDUIT
		CONDUIT DESIGNATION
		FIBER OPTIC CABLE SPLICE
		PED PUSHBUTTON

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No.	REVISIONS	DATE	BY

Kimley»Horn
© 2022 KIMLEY-HORN AND ASSOCIATES, INC.
4525 MAIN STREET, SUITE 1000, VIRGINIA BEACH, VA 23462
PHONE: 757-213-8600
WWW.KIMLEY-HORN.COM

KHA PROJECT 116049105
DATE August 12, 2022
SCALE
DESIGNED BY
DRAWN BY
CHECKED BY

TRAFFIC SIGNAL PLAN
COLUMBUS STREET AND
INDEPENDENCE BOULEVARD

CLEVELAND STREET PHASE IV
(CIP 2-135)

SHEET NUMBER
20(7)

dll0803xssheets_cleveland.dgn
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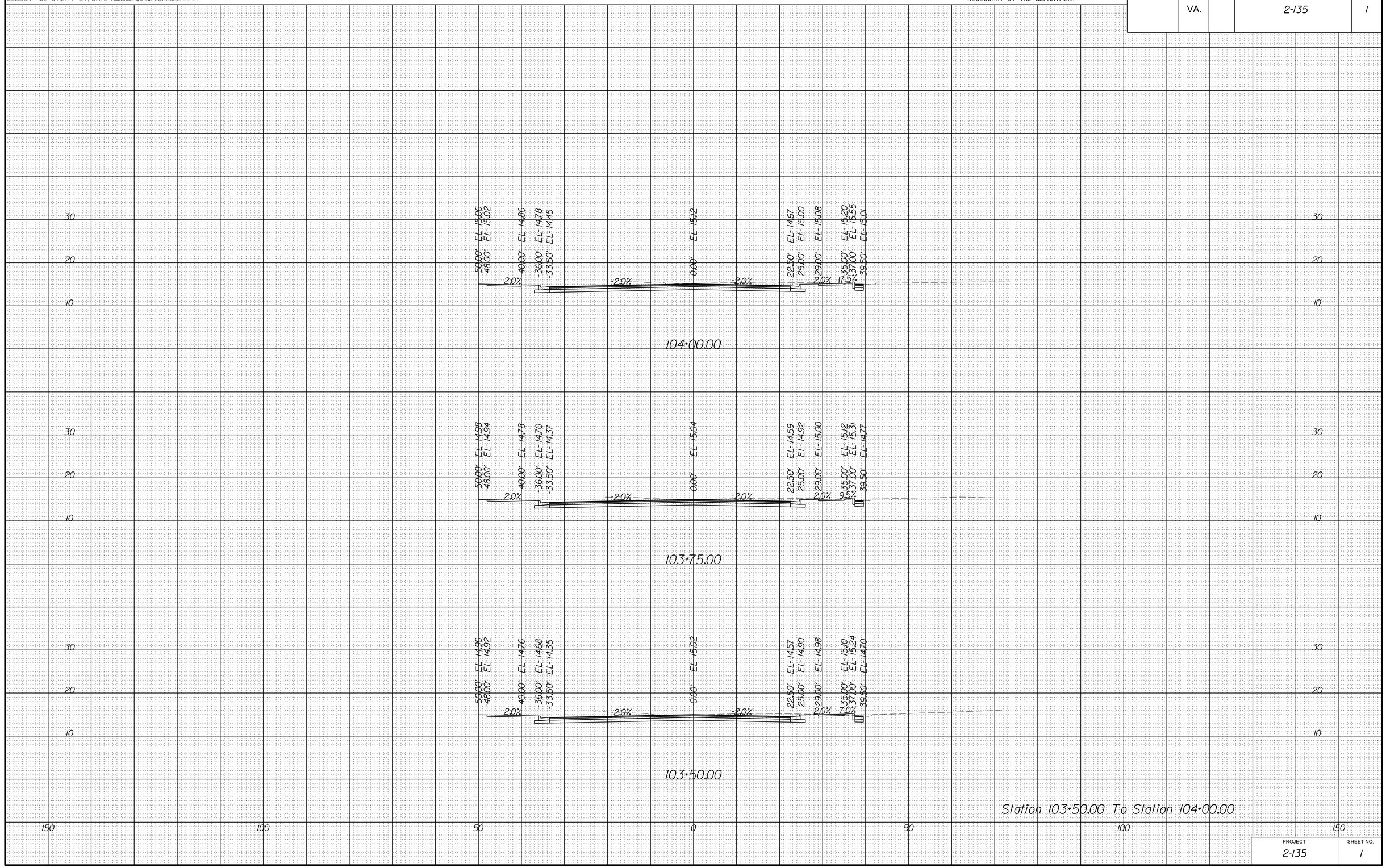
PROJECT MANAGER _Stephen_Holland_(Kimley-Horn)_____
SURVEYED BY, DATE Precision_Measurements_Inc._6/16/2022___
DESIGN BY Kimley-Horn_____
SUBSURFACE UTILITY BY, DATE Accumark_Inc._7/8/2022___

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		2-135	1



Station 103+50.00 To Station 104+00.00

PROJECT	SHEET NO.
2-135	1

8/18/2022

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PROJECT MANAGER _Stephen_Holland_(Kimley-Horn)_ _ _ _ _ _ _ _
SURVEYED BY, DATE Precision_Measurements_Inc_6/16/2022 _ _
DESIGN BY Kimley-Horn _
SUBSURFACE UTILITY BY, DATE Accumark_Inc_7/8/2022 _ _ _.

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
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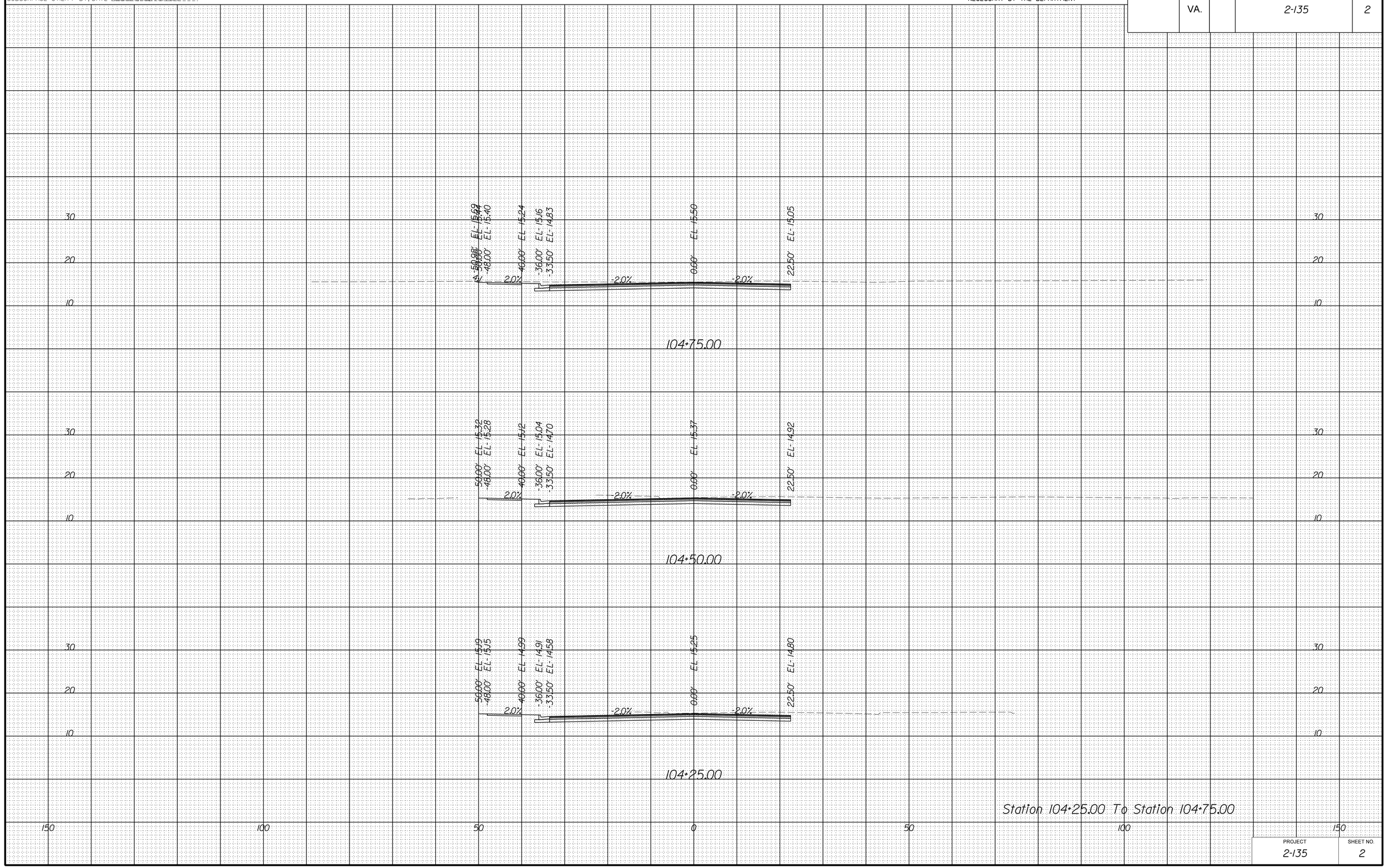

Station 104+25.00 To Station 104+75.00

PROJECT	SHEET NO.
2-135	2

8/18/2022

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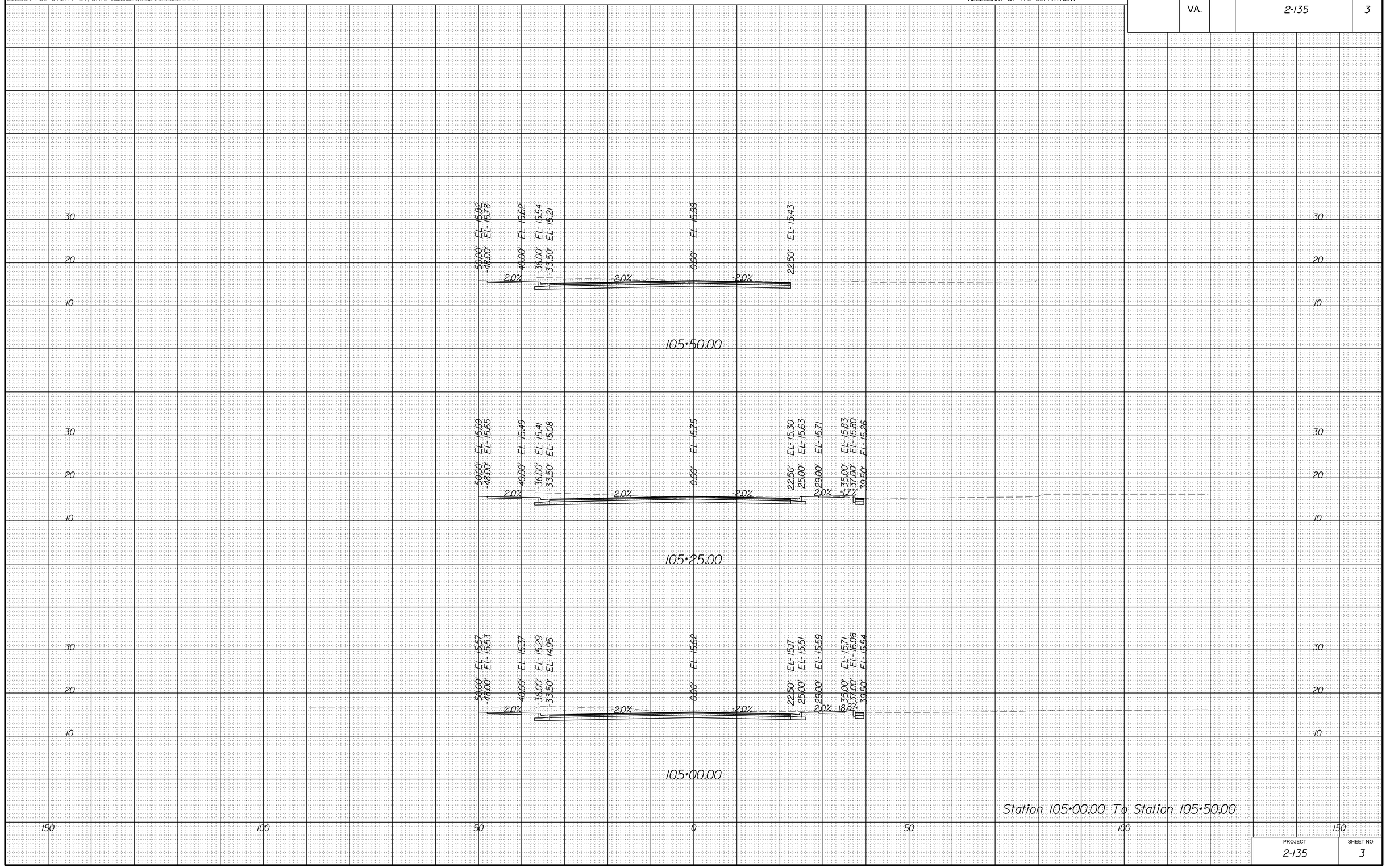
PROJECT MANAGER _Stephen_Holland_(Kimley-Horn)_____
SURVEYED BY, DATE Precision_Measurements_Inc._6/16/2022___
DESIGN BY Kimley-Horn_____
SUBSURFACE UTILITY BY, DATE Accumark_Inc._7/8/2022____

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		2-135	3



Station 105+00.00 To Station 105+50.00

PROJECT	SHEET NO.
2-135	3

8/18/2022

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PROJECT MANAGER _Stephen_Holland_(Kimley-Horn)_____
SURVEYED BY, DATE Precision_Measurements_Inc._6/16/2022___
DESIGN BY Kimley-Horn_____
SUBSURFACE UTILITY BY, DATE Accumark_Inc._7/8/2022____

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
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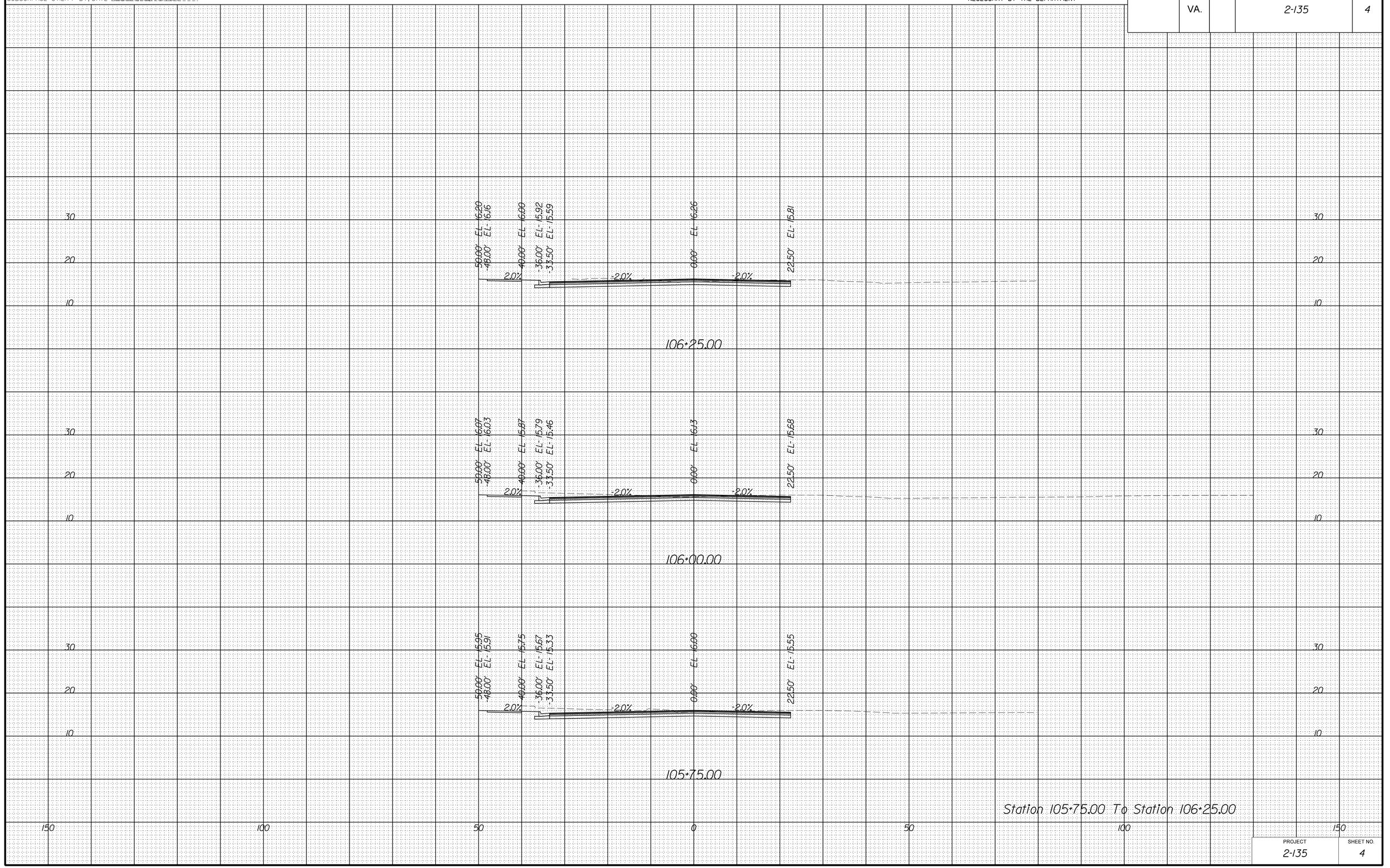

Station 105+75.00 To Station 106+25.00

PROJECT	SHEET NO.
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8/18/2022

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PROJECT MANAGER _Stephen_Holland_(Kimley-Horn)_
SURVEYED BY, DATE Precision_Measurements_Inc_6/16/2022_
DESIGN BY Kimley-Horn_
SUBSURFACE UTILITY BY, DATE Accumark_Inc_7/8/2022_

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
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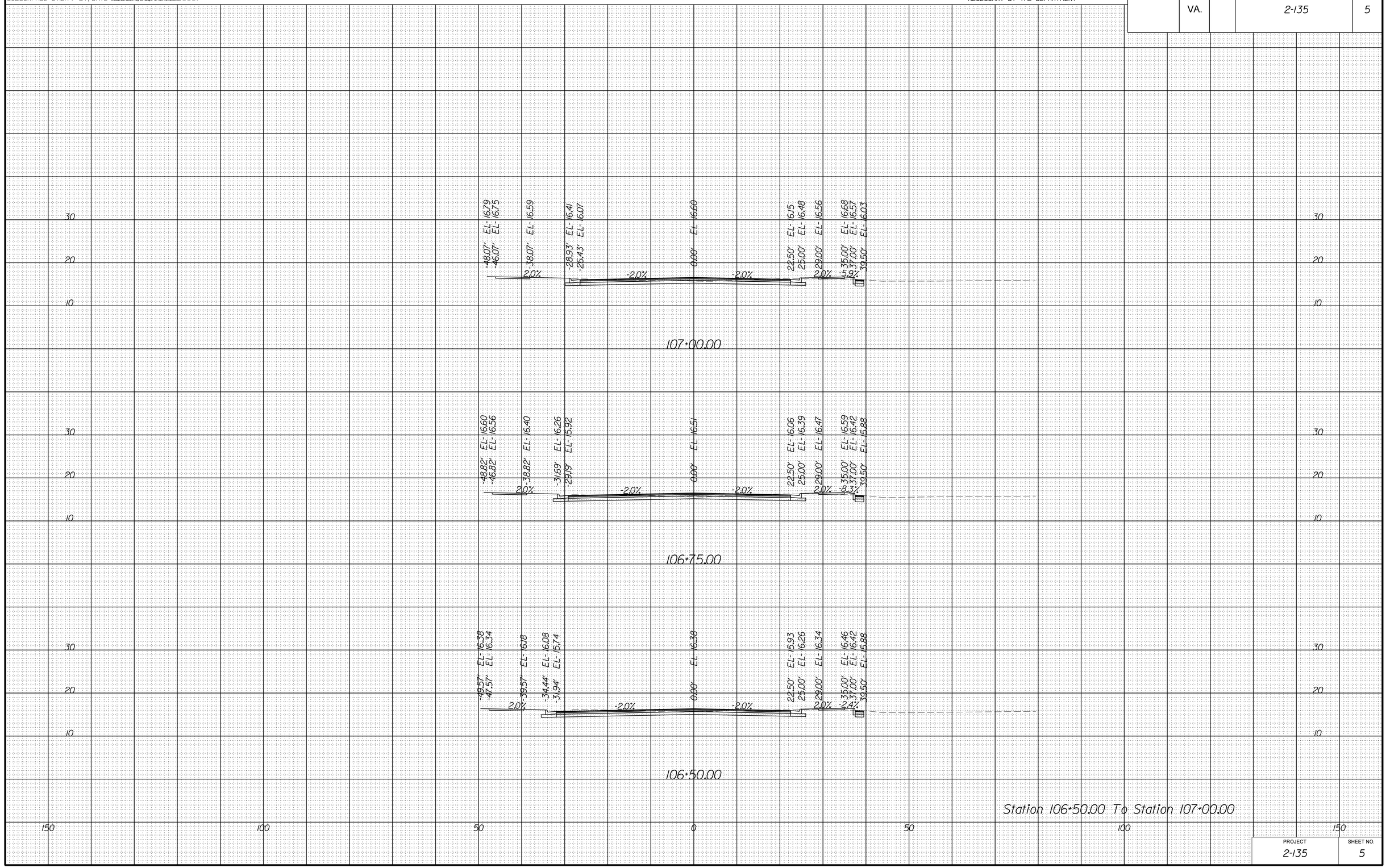

Station 106+50.00 To Station 107+00.00

PROJECT	SHEET NO.
2-135	5

8/18/2022

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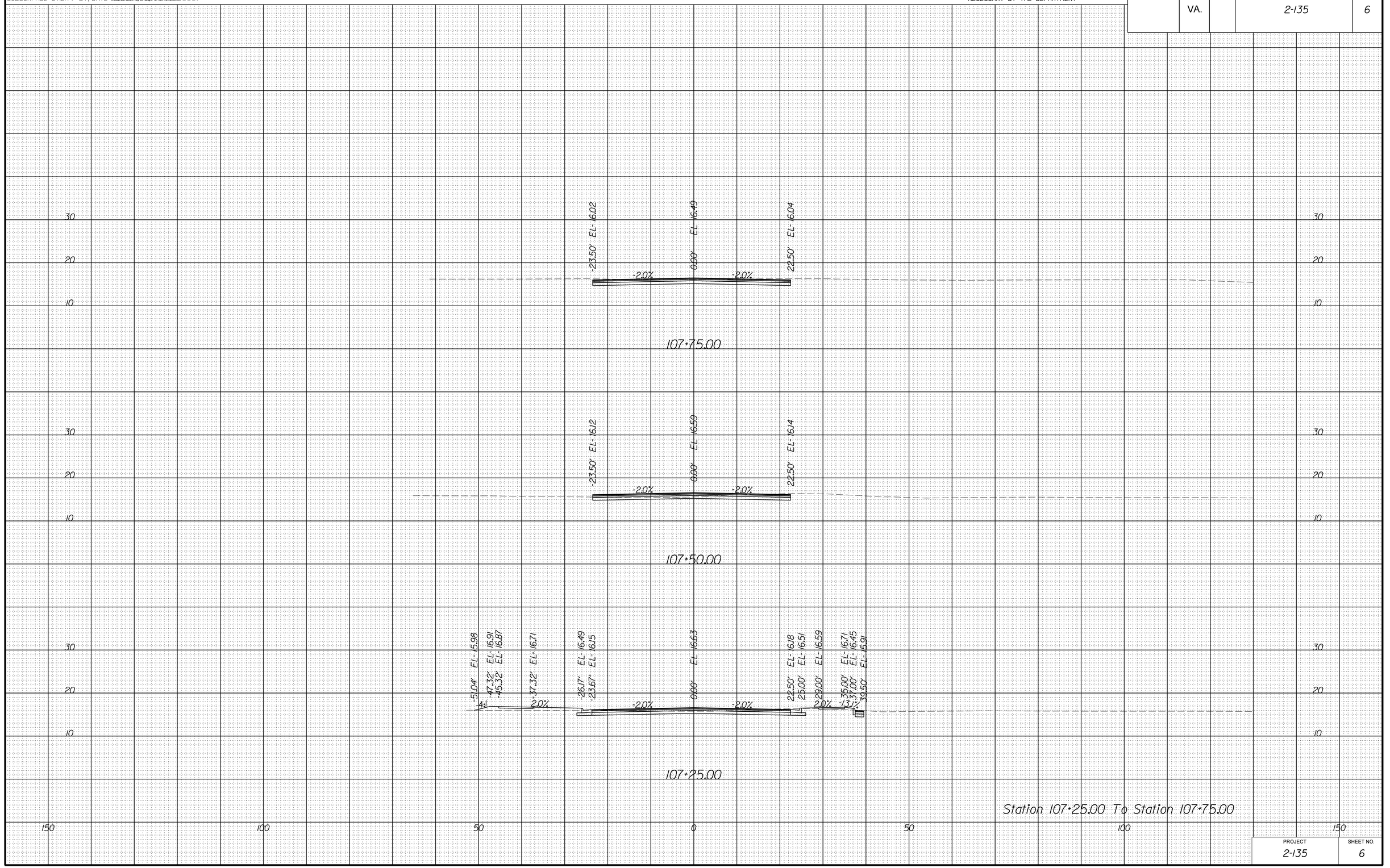
PROJECT MANAGER _Stephen_Holland_(Kimley-Horn)_ _ _ _ _ _ _ _
SURVEYED BY, DATE Precision_Measurements_Inc_6/16/2022 _ _
DESIGN BY Kimley-Horn _
SUBSURFACE UTILITY BY, DATE Accumark_Inc_7/8/2022 _ _ _.

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		2-135	6



Station 107+25.00 To Station 107+75.00

PROJECT	SHEET NO.
2-135	6

8/18/2022

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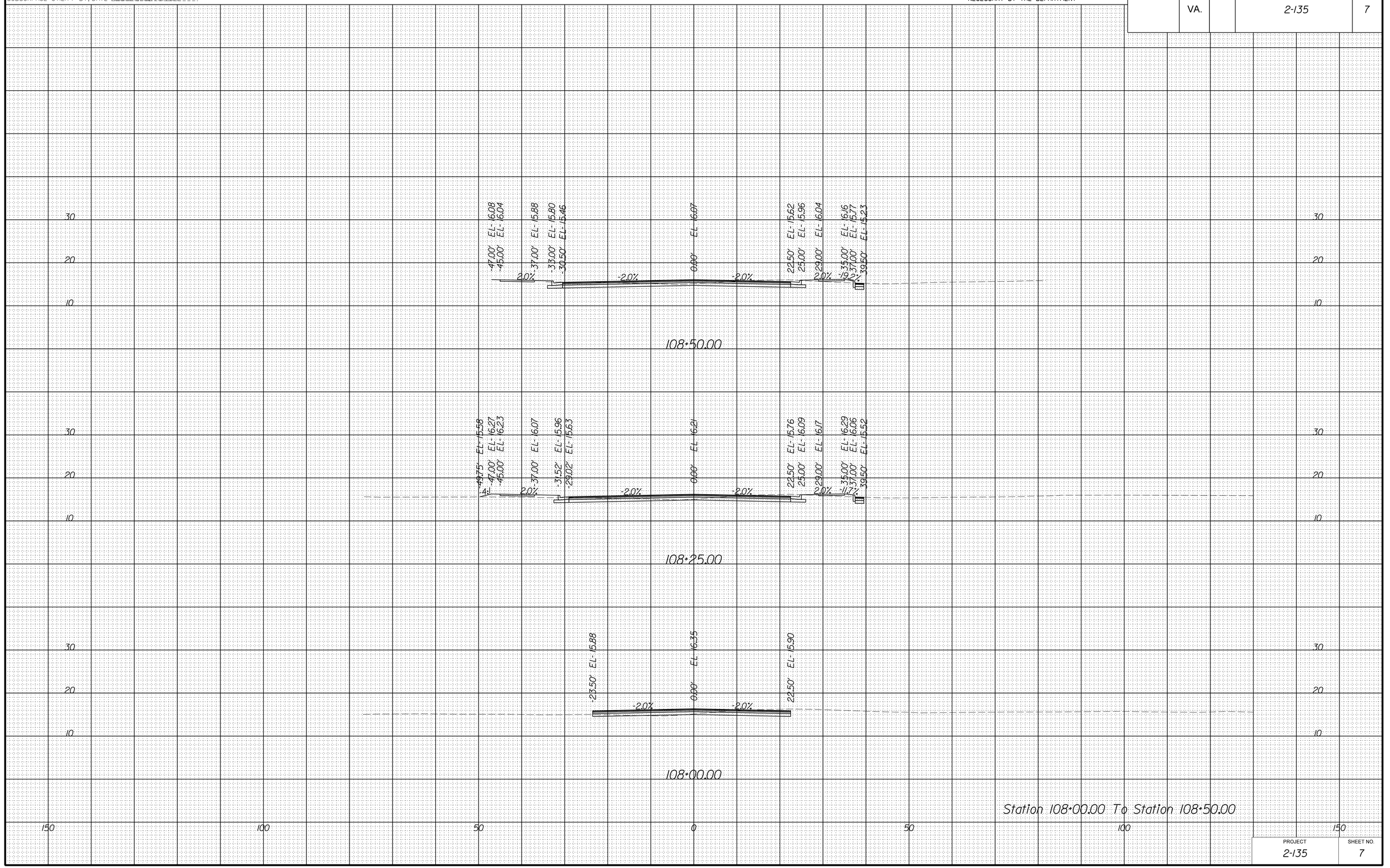
PROJECT MANAGER _Stephen_Holland_(Kimley-Horn)_____
SURVEYED BY, DATE Precision_Measurements_Inc_6/16/2022___
DESIGN BY Kimley-Horn_____
SUBSURFACE UTILITY BY, DATE Accumark_Inc_7/8/2022____

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		2-135	7



Station 108+00.00 To Station 108+50.00

PROJECT	SHEET NO.
2-135	7

8/18/2022

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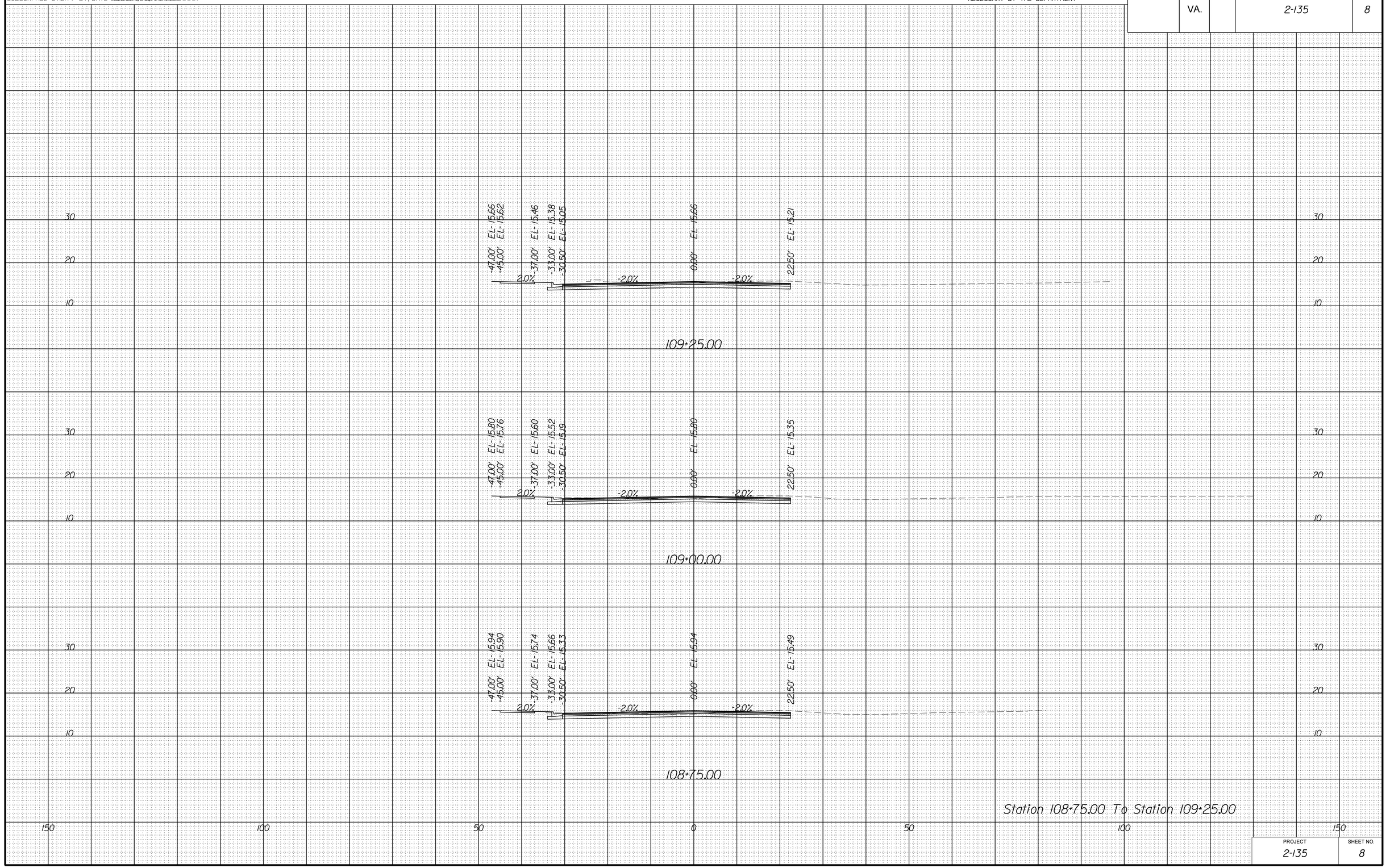
PROJECT MANAGER _Stephen_Holland_(Kimley-Horn)_____
SURVEYED BY, DATE Precision_Measurements_Inc._6/16/2022___
DESIGN BY Kimley-Horn_____
SUBSURFACE UTILITY BY, DATE Accumark_Inc._7/8/2022____

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		2-135	8



Station 108+75.00 To Station 109+25.00

PROJECT	SHEET NO.
2-135	8

8/18/2022

dll0803xssheets_cleveland.dgn
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PROJECT MANAGER _Stephen_Holland_(Kimley-Horn)_____
SURVEYED BY, DATE Precision_Measurements_Inc_6/16/2022___
DESIGN BY Kimley-Horn_____
SUBSURFACE UTILITY BY, DATE Accumark_Inc_7/8/2022____

CROSS SECTIONS

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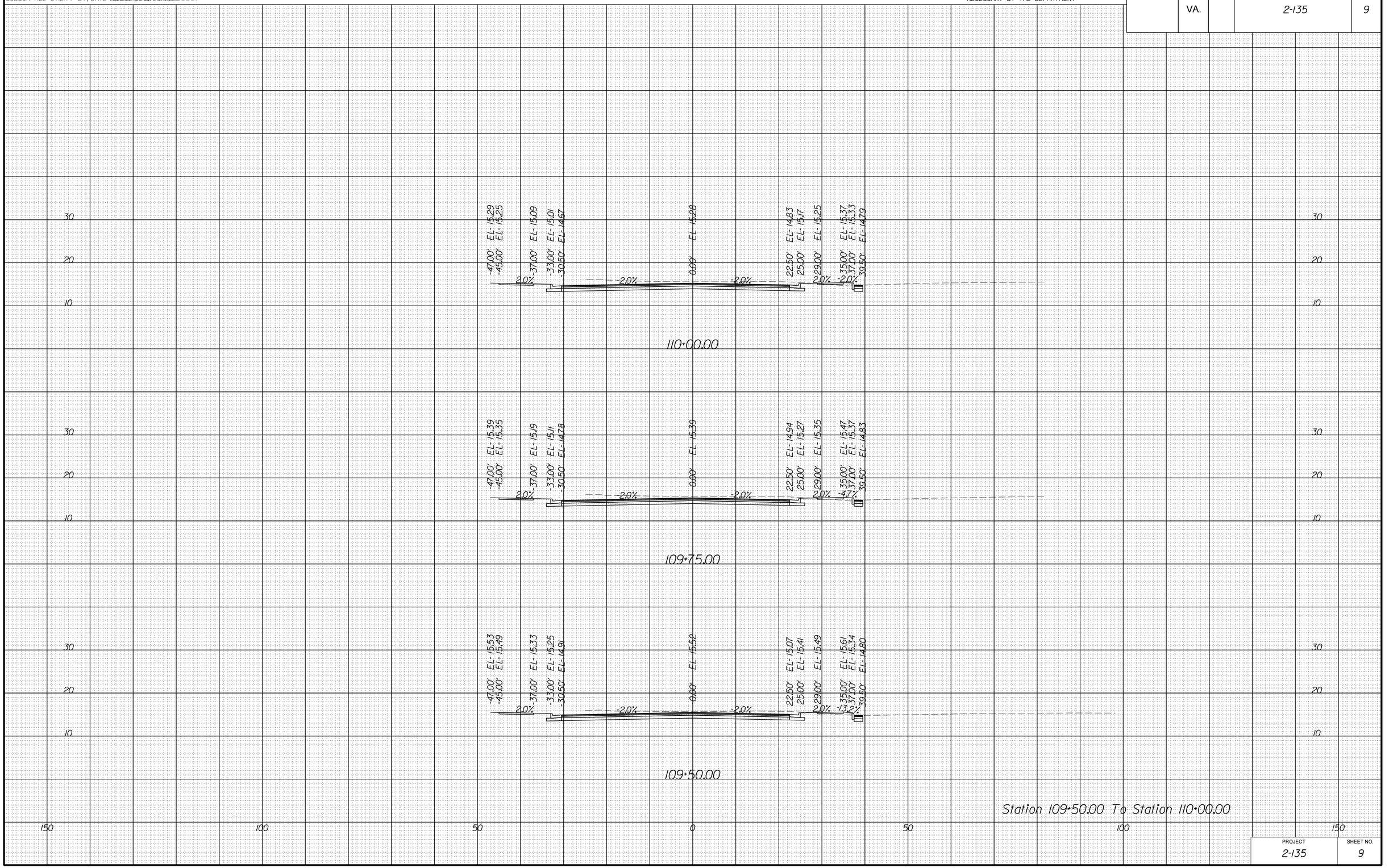
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		2-135	9



Station 109+50.00 To Station 110+00.00

PROJECT	SHEET NO.
2-135	9

8/18/2022

dll0803xssheets_cleveland.dgn
7:54:01 PM

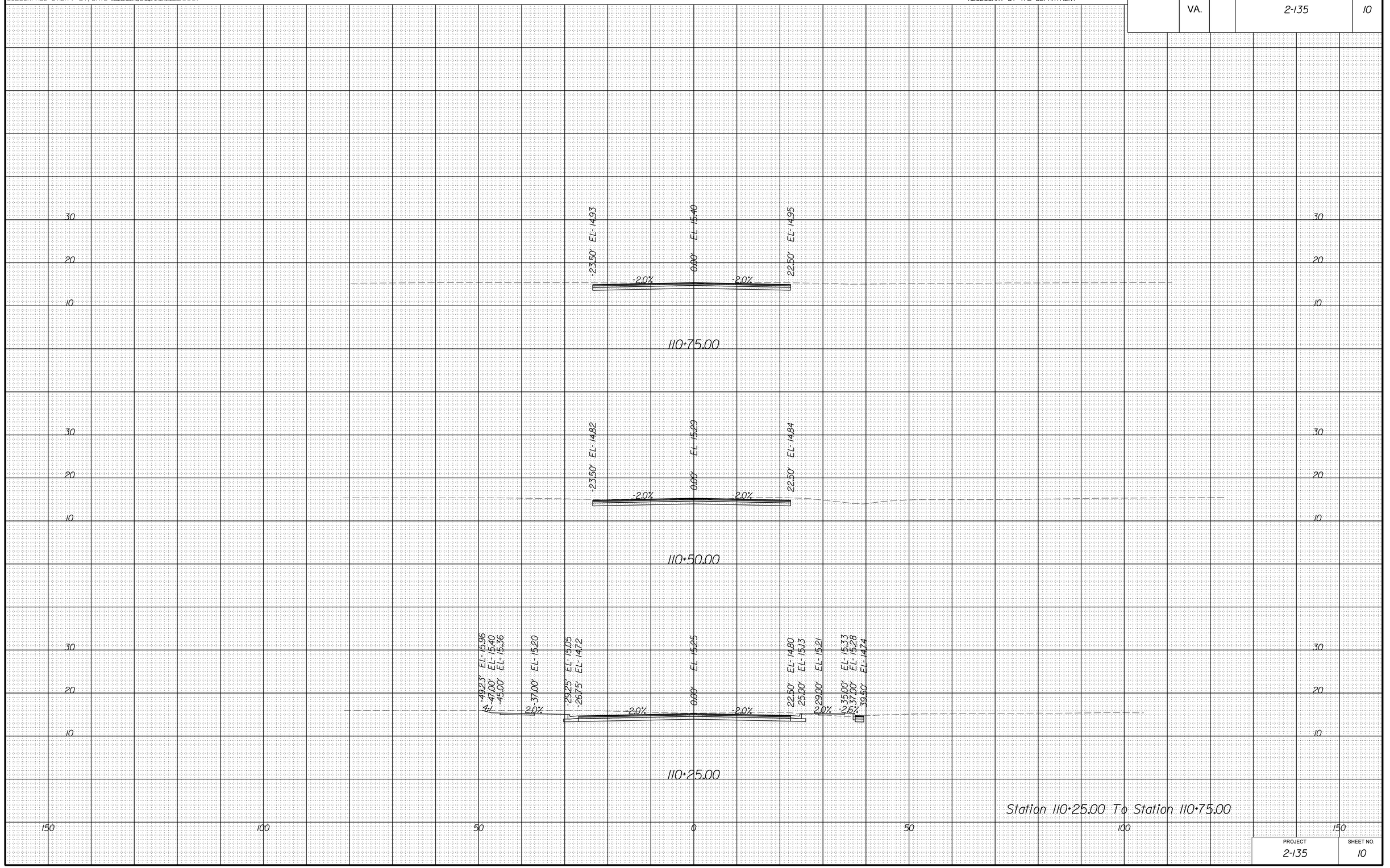
PROJECT MANAGER _Stephen_Holland_(Kimley-Horn)_ _ _ _ _ _ _ _
SURVEYED BY, DATE Precision_Measurements_Inc_6/16/2022 _ _
DESIGN BY Kimley-Horn _
SUBSURFACE UTILITY BY, DATE Accumark_Inc_7/8/2022 _ _ _.

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		2-135	10



Station 110+25.00 To Station 110+75.00

PROJECT	SHEET NO.
2-135	10

8/18/2022

dll0803xssheets_cleveland.dgn
7:54:07 PM

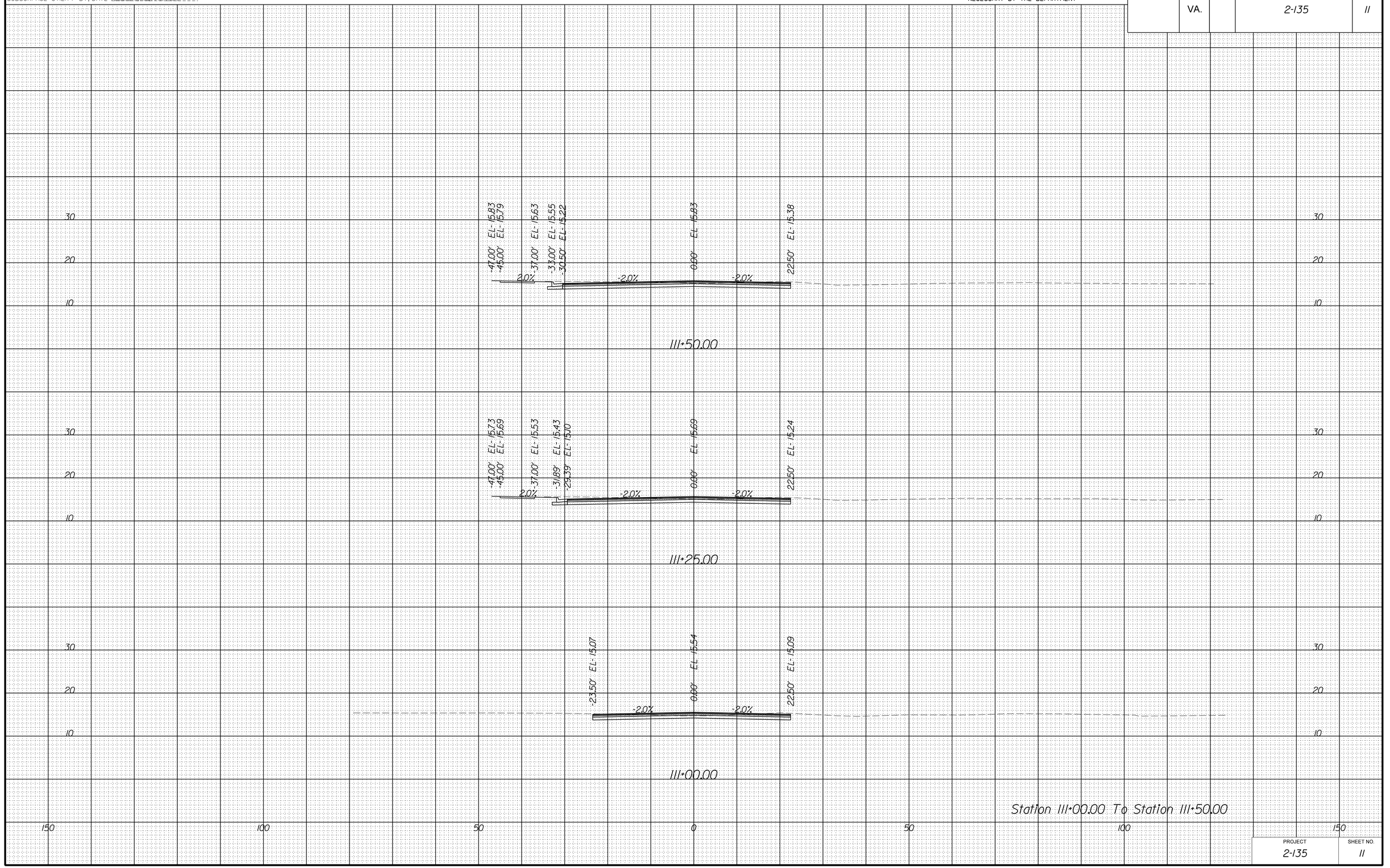
PROJECT MANAGER _Stephen Holland_(Kimley-Horn)_ _ _ _ _ _ _ _
SURVEYED BY, DATE Precision Measurements, Inc_6/16/2022_ _
DESIGN BY Kimley-Horn_ _
SUBSURFACE UTILITY BY, DATE Accumark, Inc_7/8/2022_ _ _.

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		2-135	11



Station 111+00.00 To Station 111+50.00

PROJECT	SHEET NO.
2-135	11

8/18/2022

dli0803xssheets_cleveland.dgn
7:54:13 PM

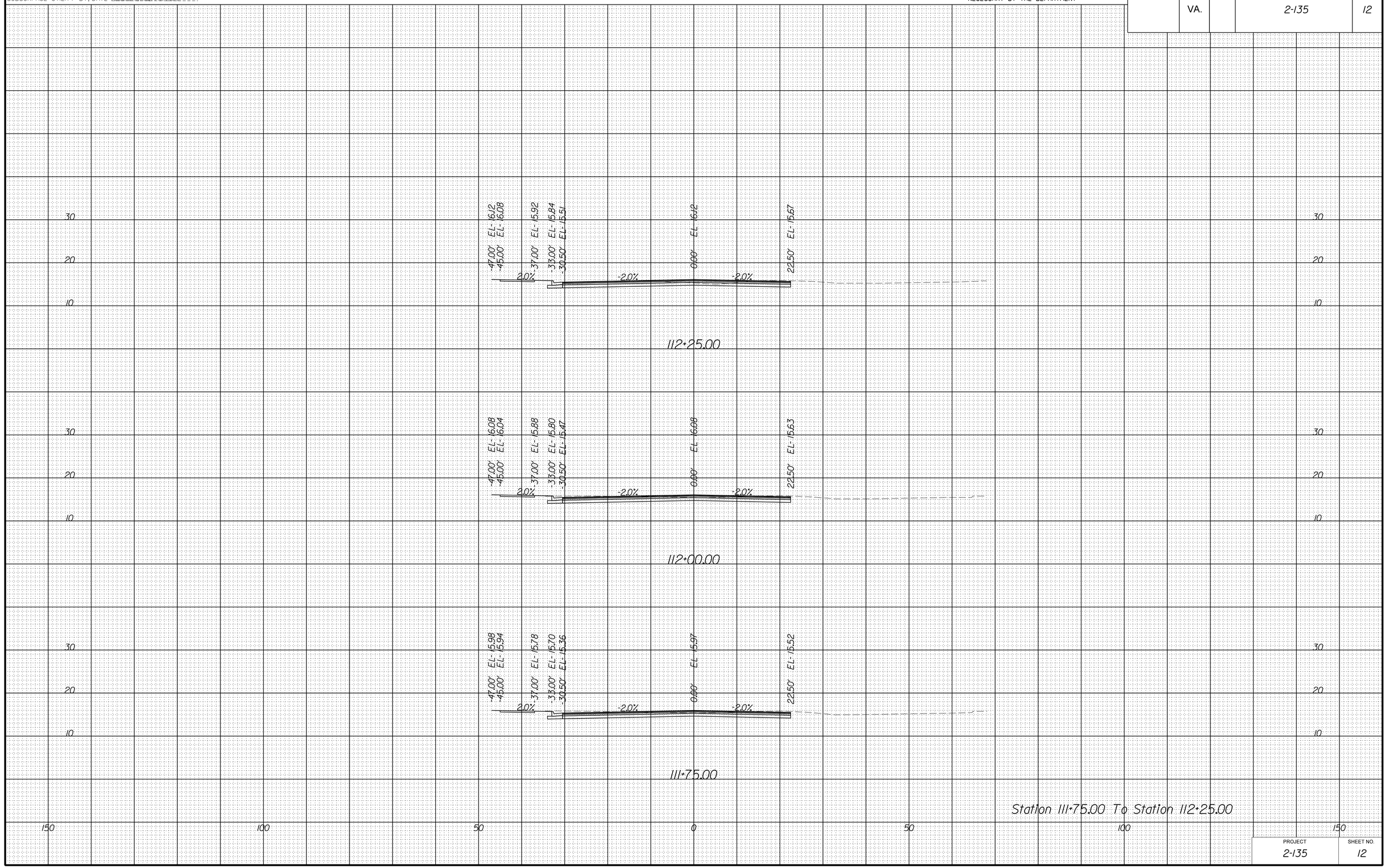
PROJECT MANAGER _Stephen_Holland_(Kimley-Horn)_____
SURVEYED BY, DATE Precision_Measurements_Inc_6/16/2022___
DESIGN BY Kimley-Horn_____
SUBSURFACE UTILITY BY, DATE Accumark_Inc_7/8/2022____

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		2-135	12



Station 111+75.00 To Station 112+25.00

PROJECT	SHEET NO.
2-135	12

8/18/2022

dli0803xssheets_cleveland.dgn
7:54:19 PM

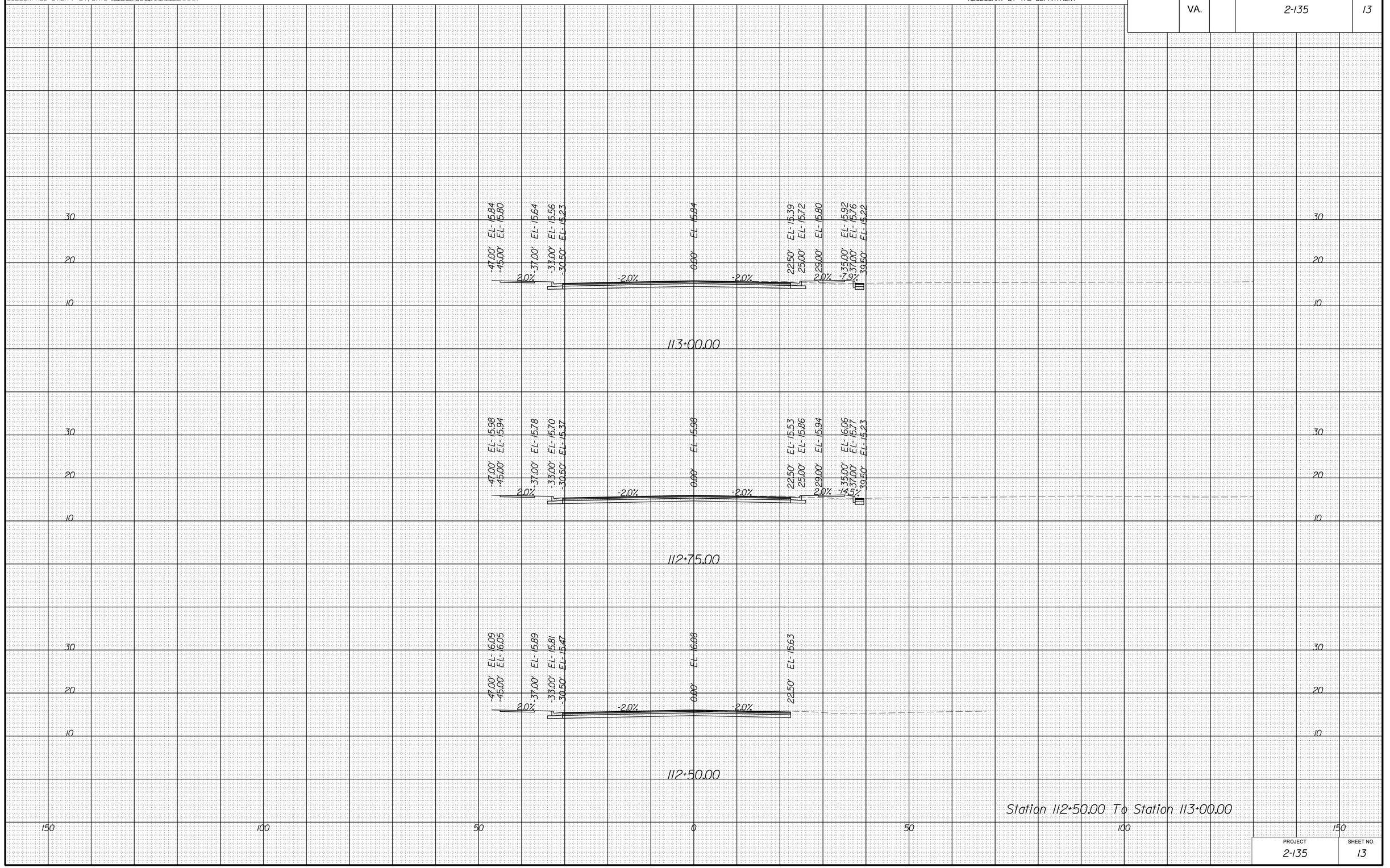
PROJECT MANAGER _Stephen Holland_(Kimley-Horn)_ _ _ _ _ _ _ _
SURVEYED BY, DATE Precision Measurements, Inc_6/16/2022_ _
DESIGN BY Kimley-Horn_ _
SUBSURFACE UTILITY BY, DATE Accumark, Inc_7/8/2022_ _ _

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		2-135	13



Station 112+50.00 To Station 113+00.00

PROJECT	SHEET NO.
2-135	13

8/18/2022

dll0803xssheets_cleveland.dgn
7:54:25 PM

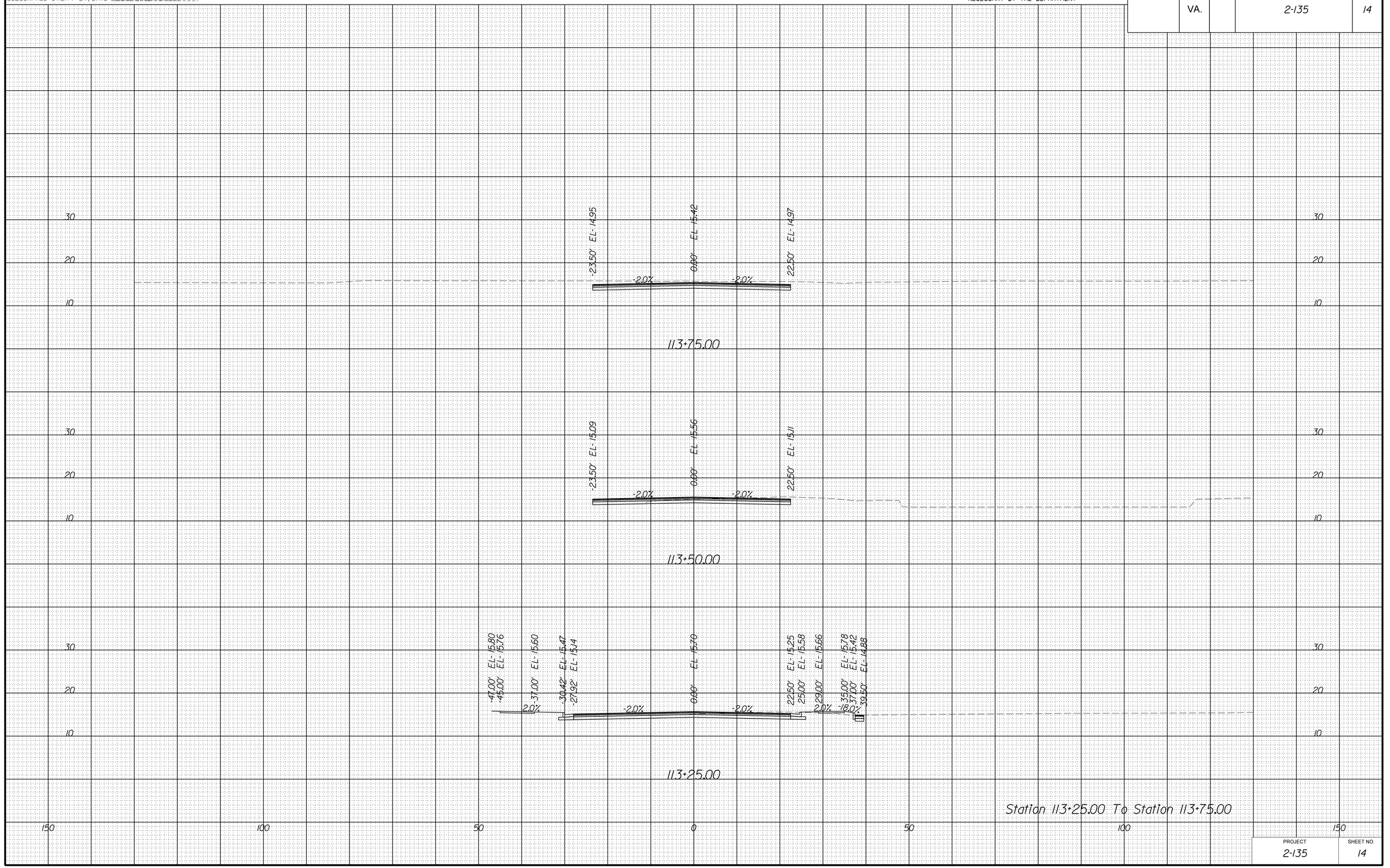
PROJECT MANAGER _Stephen_Holland_(Kimley-Horn)_ _ _ _ _ _ _ _
SURVEYED BY, DATE Precision_Measurements_Inc_6/16/2022 _ _
DESIGN BY Kimley-Horn _
SUBSURFACE UTILITY BY, DATE Accumark_Inc_7/8/2022 _ _ _.

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		2-135	14



Station 113+25.00 To Station 113+75.00

PROJECT	SHEET NO.
2-135	14

8/18/2022

dl10803xssheets_cleveland.dgn
7:54:31 PM

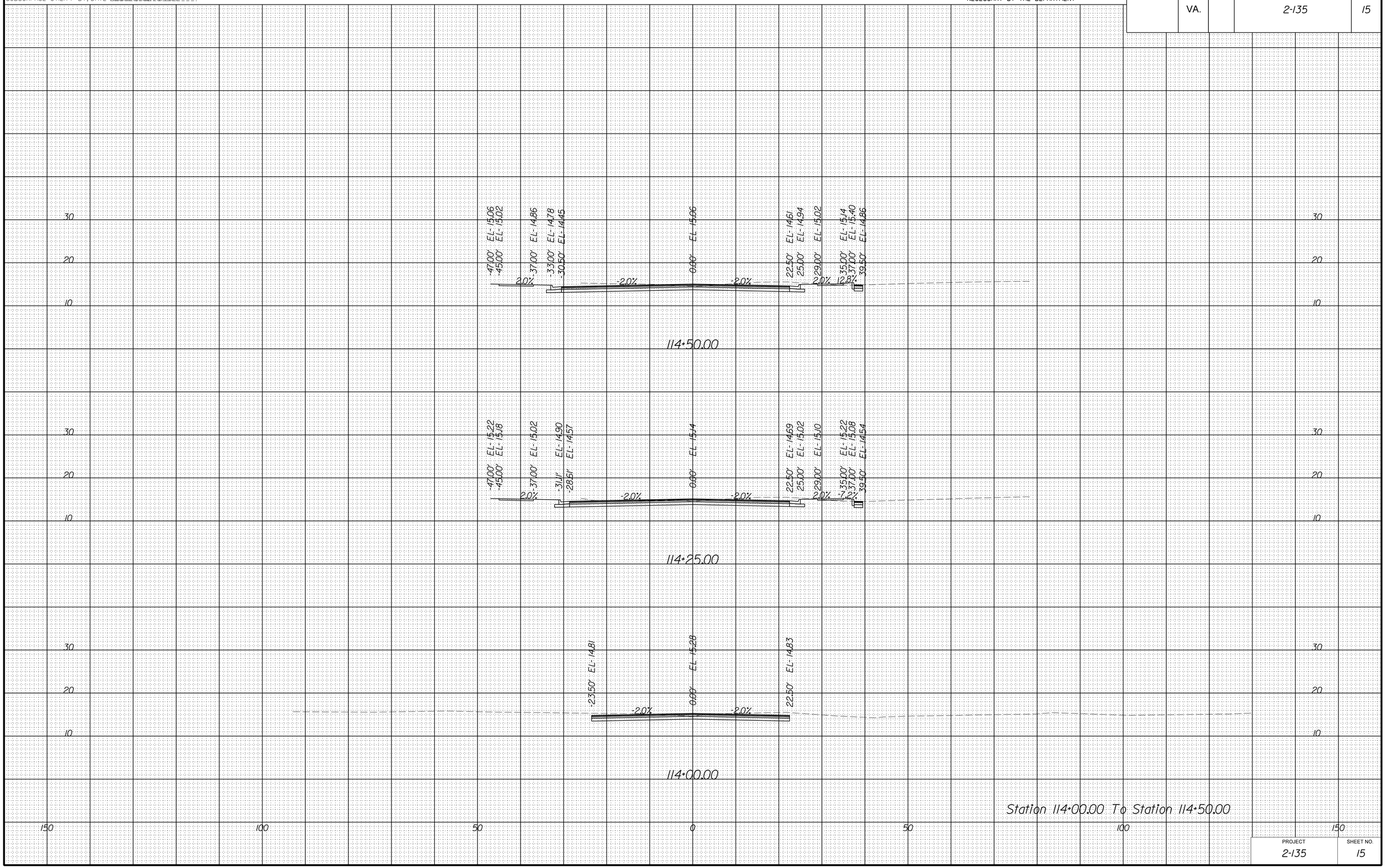
PROJECT MANAGER _Stephen Holland_(Kimley-Horn)_
SURVEYED BY, DATE Precision Measurements, Inc_6/16/2022_
DESIGN BY Kimley-Horn_
SUBSURFACE UTILITY BY, DATE Accumark, Inc_7/8/2022_

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		2-135	15



Station 114+00.00 To Station 114+50.00

PROJECT	SHEET NO.
2-135	15

8/18/2022

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7:54:36 PM

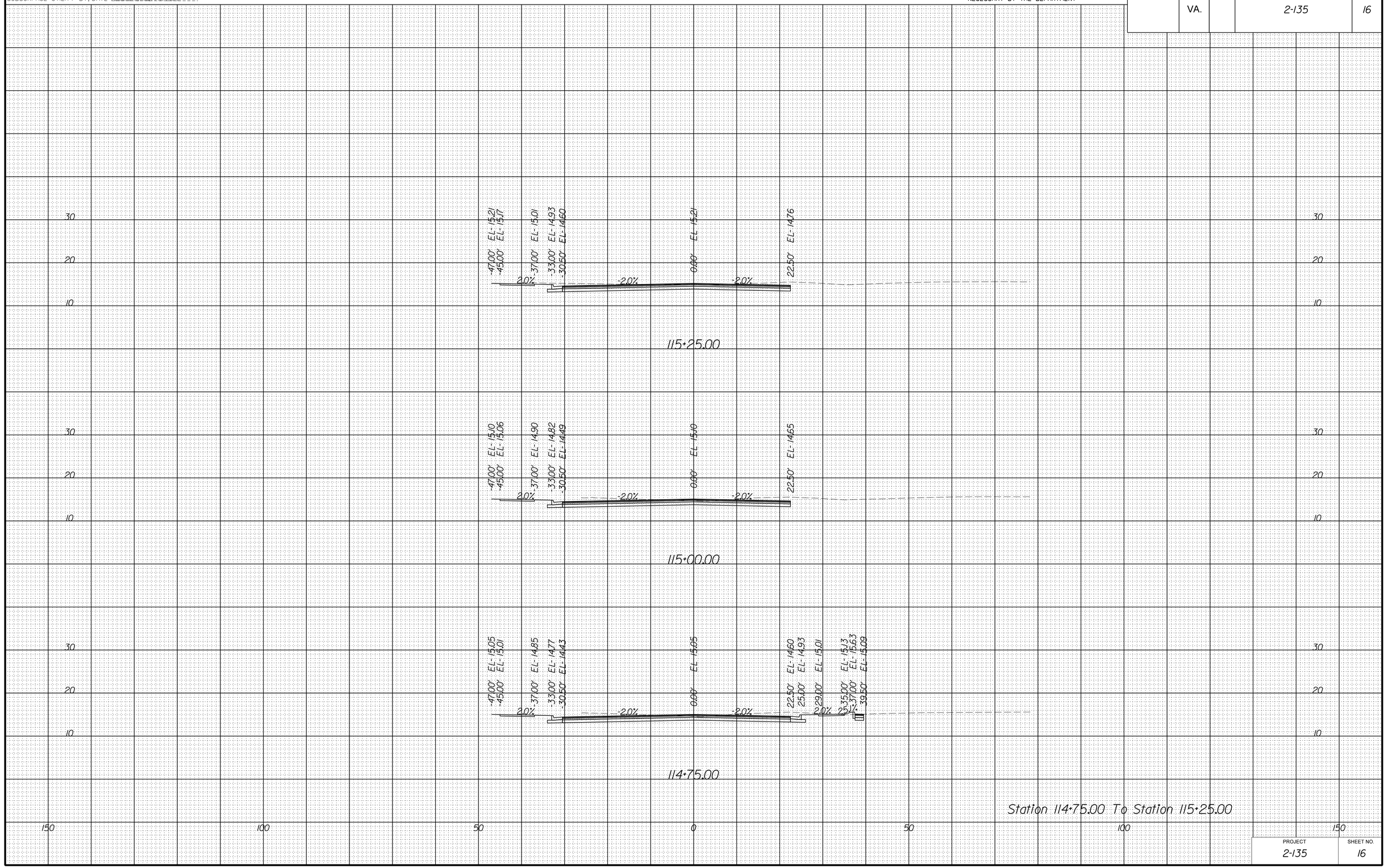
PROJECT MANAGER _Stephen_Holland_(Kimley-Horn)_____
SURVEYED BY, DATE Precision_Measurements_Inc._6/16/2022___
DESIGN BY Kimley-Horn_____
SUBSURFACE UTILITY BY, DATE Accumark_Inc._7/8/2022____

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		2-135	16



Station 114+75.00 To Station 115+25.00

PROJECT	SHEET NO.
2-135	16

8/18/2022

dll0803xssheets_cleveland.dgn
7:54:42 PM

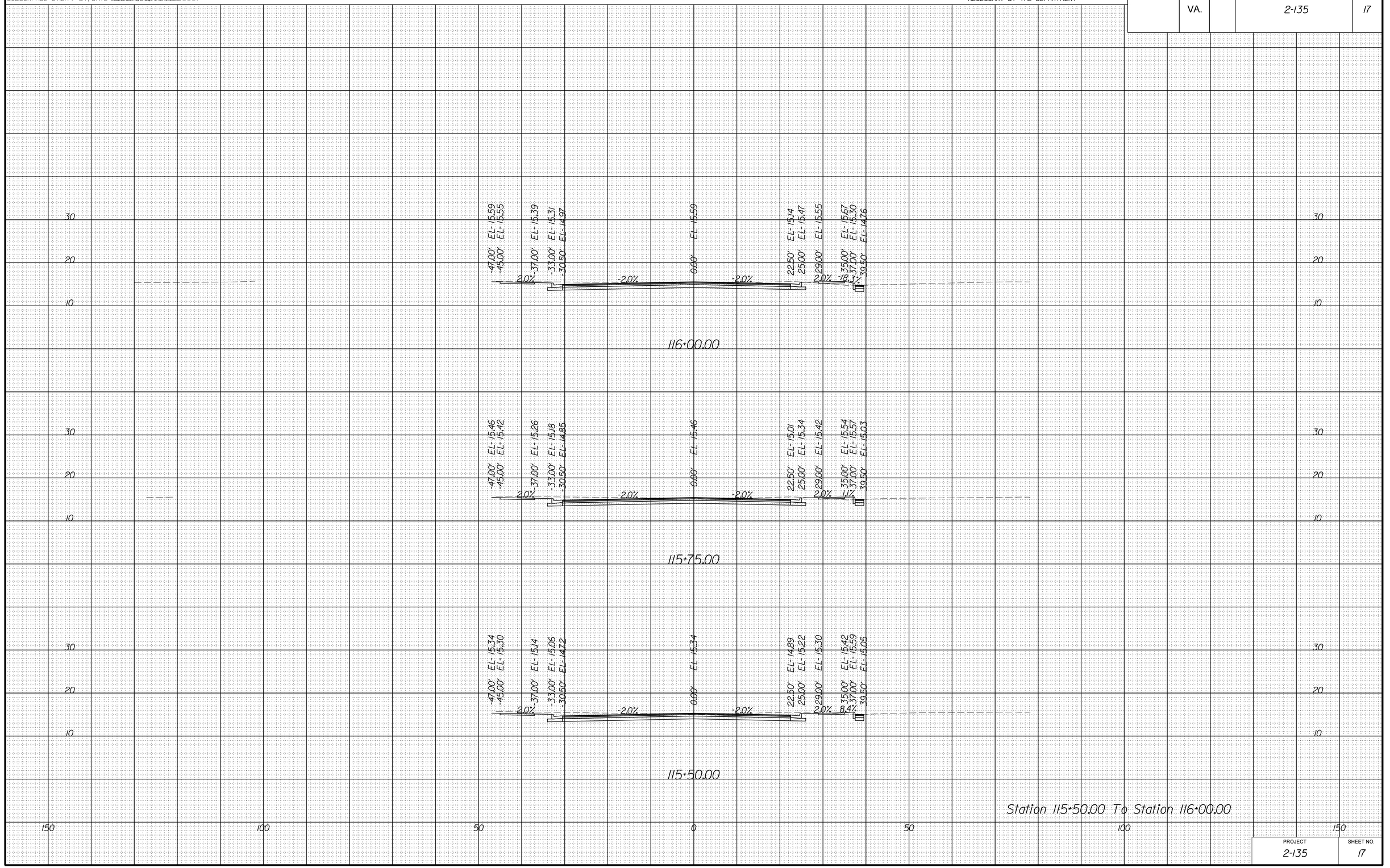
PROJECT MANAGER _Stephen_Holland_(Kimley-Horn)_____
SURVEYED BY, DATE Precision_Measurements_Inc_6/16/2022___
DESIGN BY Kimley-Horn_____
SUBSURFACE UTILITY BY, DATE Accumark_Inc_7/8/2022____

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		2-135	17



Station 115+50.00 To Station 116+00.00

PROJECT	SHEET NO.
2-135	17

8/18/2022

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7:54:48 PM

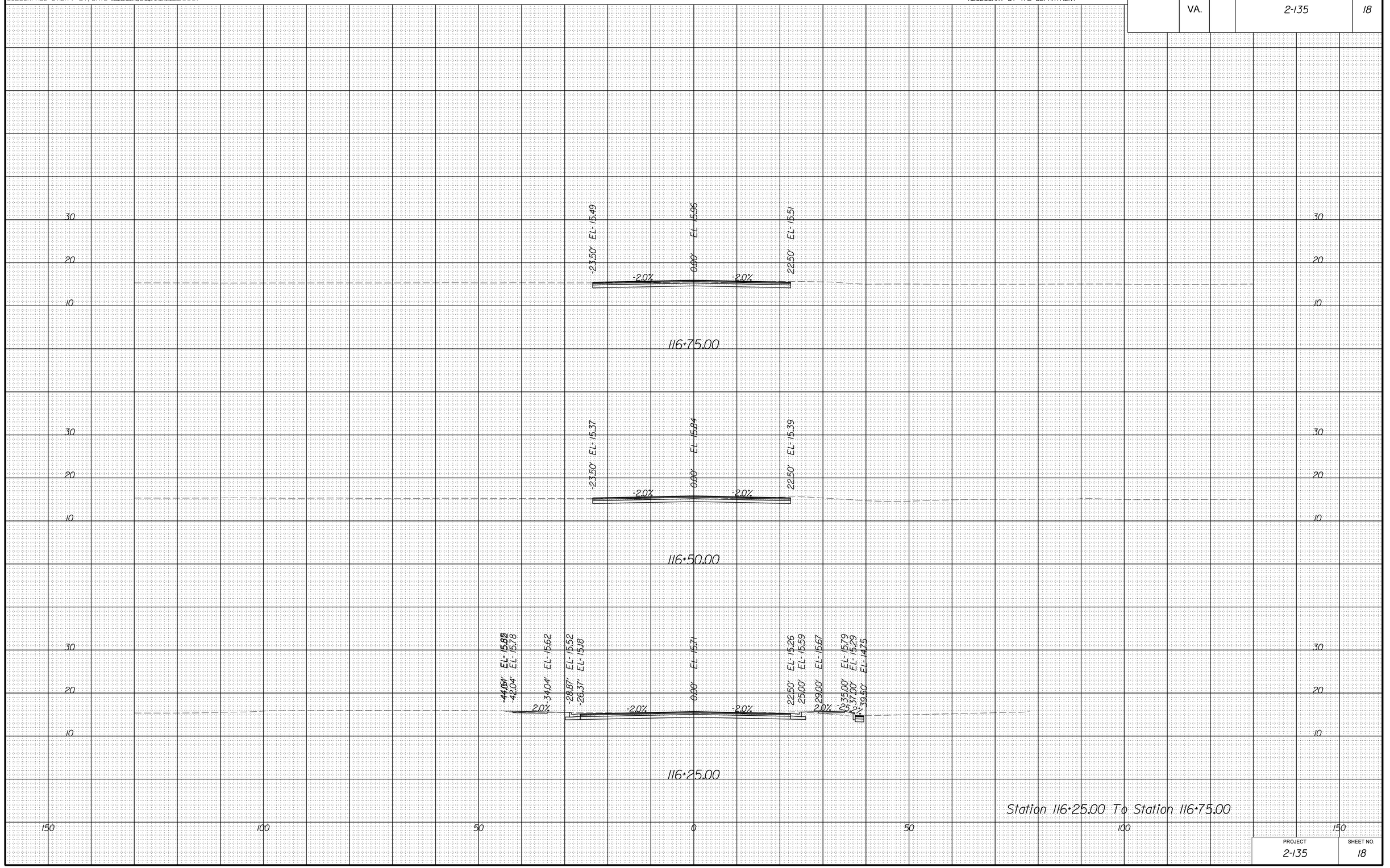
PROJECT MANAGER _Stephen Holland_(Kimley-Horn)_ _ _ _ _ _ _ _
SURVEYED BY, DATE Precision Measurements, Inc. 6/16/2022 _ _
DESIGN BY Kimley-Horn _
SUBSURFACE UTILITY BY, DATE Accumark, Inc. 7/8/2022 _ _ _.

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		2-135	18



PROJECT	SHEET NO.
2-135	18

8/18/2022