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CITY OF CEDAR RAPIDS

TAP-U-1187(801)--8I-57
CHEROKEE TRAIL - PHASE III

LETTING DATE:

SEPTEMBER 15, 2026

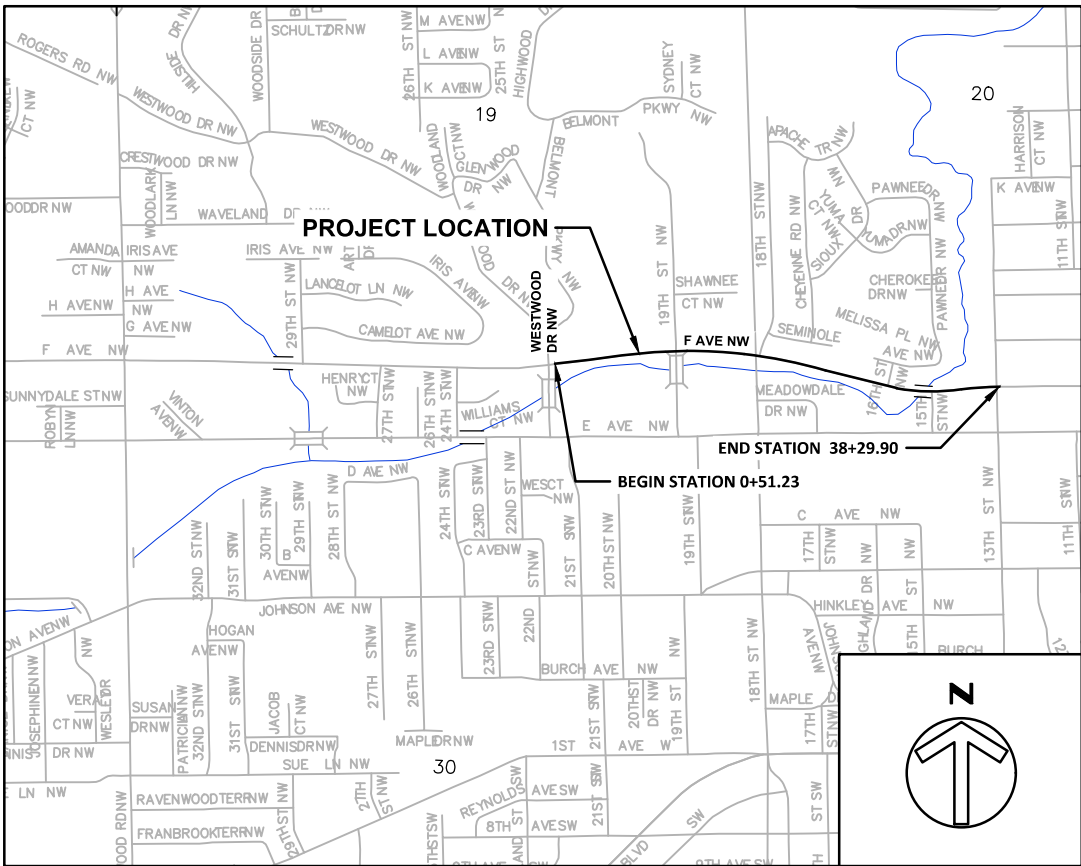


FLOODPLAIN CONSTRUCTION PERMIT
THIS PROJECT IS COVERED BY CITY OF CEDAR RAPIDS FLOODPLAIN PERMIT FPDV-000963-2026 WITH CONCURRENCE FROM THE IOWA DNR ON PERMITTING AUTHORITY.
NPDES GENERAL PERMIT NO. 2
THIS PROJECT IS COVERED BY THE IOWA DEPARTMENT OF NATURAL RESOURCES NPDES GENERAL PERMIT NO. 2. THE CONTRACTOR SHALL CARRY OUT THE TERMS AND CONDITIONS OF GENERAL PERMIT NO. 2 AND THE STORM WATER POLLUTION PREVENTION PLAN WHICH IS A PART OF THESE CONTRACT DOCUMENTS. REFER TO SECTION 2602 OF THE STANDARD SPECIFICATIONS FOR ADDITIONAL INFORMATION.

PLANS PREPARED FOR:



MAYOR: TIFFANY O'DONNELL
AT LARGE: TYLER OLSON
AT LARGE: ANN POE
AT LARGE: DAVID MAIER
DISTRICT 1: MARTY HOEGER
DISTRICT 2: SCOTT OVERLAND
DISTRICT 3: DALE TODD
DISTRICT 4: SCOTT OLSON
DISTRICT 5: ASHLEY VANORNY



TRANSPORTATION DEVELOPMENT DIVISION PLANS OF PROPOSED IMPROVEMENTS ON THE CHEROKEE TRAIL - PHASE III

ALONG F AVE FROM WESTWOOD DR NW TO 13 ST NW
PCC SIDEWALK / TRAIL

CITY OF CEDAR RAPIDS, IOWA
LINN COUNTY

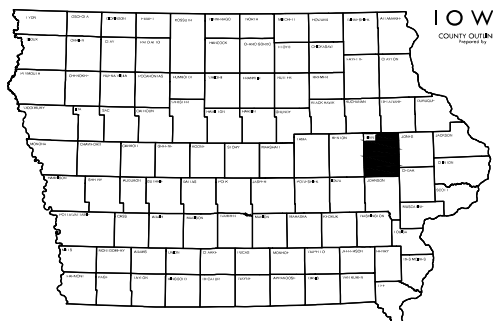
URBAN ROAD SYSTEM

CITY CONTRACT NUMBER: 325069-10

I.D.O.T. PROJECT NUMBER: TAP-U-1187(801)--8I-57

REFER TO THE PROPOSAL FORM FOR LIST OF APPLICABLE SPECIFICATIONS.

MILEAGE SUMMARY			
DIV.	LOCATION	LINEAR FEET	MILES
1	CHEROKEE TRAIL - PHASE III		
	0+51.23 - 38+29.90	3779	0.72



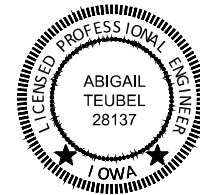
NOTE: ALL APPLICABLE
STANDARD ROAD PLANS ARE
SHOWN IN TAB 105-4
INCLUDED IN THE C SHEETS.

PLAN REVISIONS		
DATE	SHEET NUMBER	APPROVED BY

SHEET TOTAL 117 PAGES

INDEX OF SHEETS	
A.1	TITLE SHEET
A.2	SURVEY LEGEND
B.1-B.6	TYPICAL SECTIONS
C.1-C.11	QUANTITIES & TABULATIONS
D.1-D.9	TRAIL PLAN & PROFILE SHEETS
F.1-F.2	DRIVEWAY DETAIL SHEETS
G.1-G.3	SURVEY & GEOMETRIC DATA
H.1-H.5	RIGHT OF WAY SHEETS
J.1-J.16	TRAFFIC CONTROL & STAGING SHEETS
L.1-L.4	GEOMETRIC, STAKING, AND JOINTING SHEETS
M.1-M.4	STORM & SANITARY SHEETS
P.1-P.12	SIGNING & STRIPING SHEETS
QR.1-QR.5	REMOVAL PLANS
RC.1-RC.2	SWPPP PLAN
RR.1-RR.5	EROSION CONTROL PLAN
S.1-S.13	SIDEWALK/ADA RAMP DETAILS
U.1-U.5	SIDEWALK/ROADWAY DETAILS
UT.1-UT.5	UTILITY SHEETS
V.1	RETAINING WALL PLAN SHEETS
W.1-W.7	TRAIL CROSS SECTIONS

CITY OF CEDAR RAPIDS	
THIS ENGINEERING DOCUMENT IS RECOMMENDED FOR FILING WITH THE CITY CLERK	
Erik Turnquist	Digitally signed by Erik Turnquist DN: C=US, E=E.Turnquist@cedar-rapids.org, O=City of Cedar Rapids, OU=Public Works Department, CN=Erik Turnquist Date: 2026.05.18 07:54:05-05'00'
CITY ENGINEER OR DESIGNEE	
Brandon Schmall	Digitally signed by Brandon Schmall Date: 2026.05.18 12:59:29-05'00'
UTILITIES ENGINEER OR DESIGNEE	
Cari Pauli	Digitally signed by Cari Pauli DN: C=US, E=c.pauli@cedar-rapids.org, O=City of Cedar Rapids, OU=Public Works Department, CN=Cari Pauli Date: 2026.05.18 09:18:17-05'00'
CITY TRAFFIC ENGINEER OR DESIGNEE	



I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS
PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION
AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER
UNDER THE LAWS OF THE STATE OF IOWA.

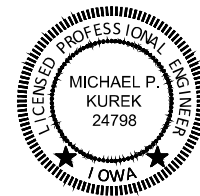
Abigail Teubel

REG. NO. P28137 DATE: 5/8/2026

MY LICENSE RENEWAL DATE IS DECEMBER 31, 2026

PAGES OR SHEETS COVERED BY THIS SEAL:

P SHEETS



I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS
PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION
AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER
UNDER THE LAWS OF THE STATE OF IOWA.

Michael P. Kurek

REG. NO. P24798 DATE: 5/8/2026

MY LICENSE RENEWAL DATE IS DECEMBER 31, 2027

PAGES OR SHEETS COVERED BY THIS SEAL:

A, B, C, D, F, G, H, J, L, M, QR, RC, RR, S, U, UT, V,
AND W SHEETS

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UTILITIES IDENTIFIED WITH A QUALITY LEVEL OTHER THAN D:

UTILITY QUALITY LEVELS:

LEVEL C - SURVEYING ABOVE GROUND UTILITY FACILITIES, SUCH AS MANHOLES, VALVE BOXES, ETC; AND CORRELATING THIS INFORMATION WITH EXISTING UTILITY RECORDS.

LEVEL A - THE USE OF NONDESTRUCTIVE DIGGING EQUIPMENT AT HORIZONTAL AND VERTICAL POSITION OF UNDERGROUND UTILITIES, AS WELL AS THE TYPE, SIZE, CONDITION, MATERIAL, AND OTHER CHARACTERISTICS.

CITY CEDAR RAPIDS

CITY OF CEDAR RAPIDS - WATER

CITY OF CEDAR RAPIDS - FIBER OPTIC

ITSUPPORT@CEDAR-RAPIDS.ORG

CITY OF CEDAR RAPIDS - STORM AND SANITARY

BEN WORRELL
319-286-5745
B.WORRELL@CEDAR-RAPIDS.ORG

1. PLEASE REFER TO SECTION 1107.15 OF THE IOWA DOT STANDARD SPECIFICATIONS FOR GENERAL UTILITY NOTES. ABANDONED UTILITIES NOT SHOWN ON THE PLANS MAY EXIST WITHIN THE CONSTRUCTION LIMITS. IF ENCOUNTERED, CONTRACTOR SHALL CONFIRM SAID UTILITIES ARE ABANDONED. CONTRACTOR IS RESPONSIBLE FOR REMOVING THESE LINES AS NECESSARY FOR CONSTRUCTION.
2. CONTRACTOR SHALL VERIFY SANITARY AND STORM SEWER PIPE SIZES AND INVERTS PRIOR TO CONSTRUCTION AND PRIOR TO ORDERING MANHOLES AND/OR PIPE. NO ADDITIONAL PAYMENT SHALL BE MADE TO THE CONTRACTOR FOR MATERIAL THAT IS ORDERED AND DOES NOT MATCH PIPE SIZES AND INVERTS THAT ARE TO BE CONFIRMED PRIOR TO CONSTRUCTION. THIS SHALL BE CONSIDERED INCIDENTAL TO THE STORM AND SANITARY STRUCTURE AND PIPE BID ITEMS.
3. CONTRACTOR SHALL REPAIR ALL FIELD/DRAIN TILES ENCOUNTERED DURING CONSTRUCTION AS SPECIFIED OR AT A MINIMUM TO ALLOW FLOW USING LIKE MATERIAL IN NEW CONDITION WITH CITY APPROVED CONNECTIONS. CONTRACTOR SHALL RECORD EXISTING TYPE, SIZE, LOCATION AND DEPTH OF ALL FIELD/DRAIN TILES ENCOUNTERED AND REPAIRED DURING CONSTRUCTION. PROVIDE DATA TO THE CITY FOR INCORPORATION INTO RECORD DRAWINGS.
4. IOWA CODE 480, UNDERGROUND FACILITIES INFORMATION, REQUIRES VERBAL NOTICE TO IOWA ONE-CALL 1-800-292-8989, NOT LESS THAN 48 HOURS BEFORE EXCAVATING, EXCLUDING WEEKENDS AND HOLIDAYS.
5. CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES DURING CONSTRUCTION. SOME UTILITIES WILL NEED TO BE PHASED WITH THE PROJECT TO LIMIT SERVICE INTERRUPTIONS TO RESIDENTS.
6. CONTRACTOR SHALL NOTIFY UTILITY COMPANIES 1 WEEK PRIOR TO STARTING CONSTRUCTION.
7. CONTRACTOR TO PROTECT EXISTING UTILITIES IN PLACE. UTILITIES SHOWN ON PLANS WERE EXISTING AS SURVEYED IN THE FALL OF 2022. UTILITIES IN CONFLICT THAT REQUIRE MORE THAN FIELD ADJUSTMENTS HAVE BEEN RELOCATED. CONTRACTOR TO FIELD VERIFY ALL UTILITIES. CONTRACTOR RESPONSIBLE FOR ANY DAMAGE CAUSED TO UTILITIES.

PRIVATE UTILITY CONTACTS

ALLIANT ENERGY - ELECTRIC

TINA GRENDZINSKI
319-253-7038
TINA.GRENDZINSKI@ULTEIG.COM

IMON - COMMUNICATIONS

IMONPLANT@IMON.NET

MIDAMERICAN ENERGY - GAS
GREG WILDEBOUR
319-286-5162
GAWILDEBOUR@MIDAMERICAN.COM

UNITE PRIVATE NETWORK (UPN) - COMMUNICATIONS

JOE ERNSTER
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JOE.ERNSTER@UPNFIBER.COM

AUREON - COMMUNICATIONS

JEFF KLOCKO
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JEFF.KLOCKO@AUREON.COM
MATT WEISER
515-830-0497
MATTHEW.WEISER@AUREON.COM

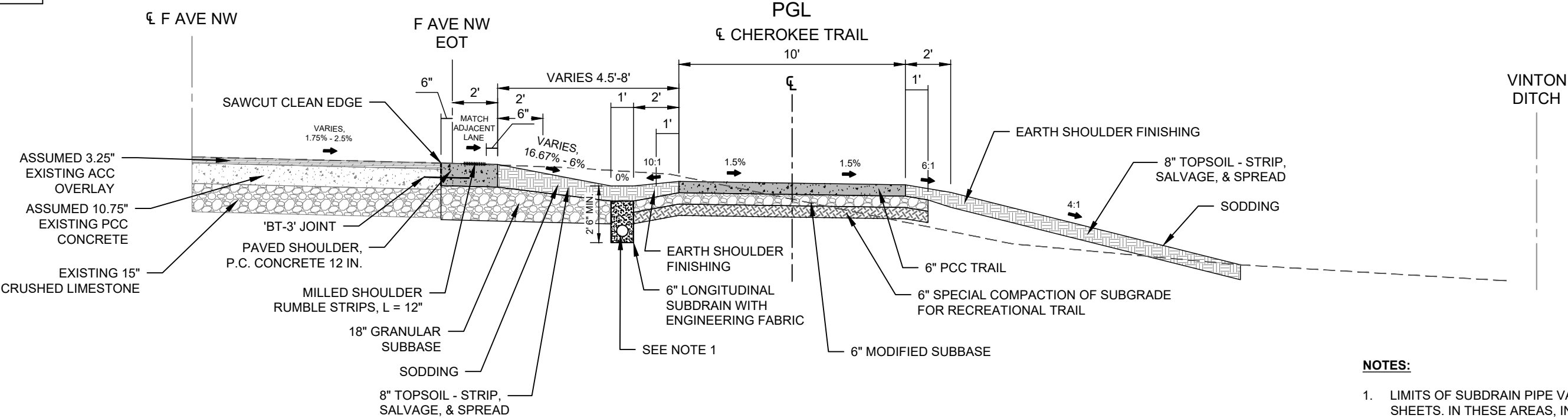
LUMEN TECHNOLOGIES - COMMUNICATIONS

MATT HOLUB (ENGINEERING)
 • O: 319-206-9094
 • C: 319-431-4170
 MATTHEW.HOLUB@LUMEN.COM
 CLINT ROWE (CONSTRUCTION)
 319-939-5352
 CLINT.ROWE@LUMEN.COM

UTILITY COORDINATION PRIOR TO CONSTRUCTION								
COUNT	UTILITY	START STATION	END STATION	SIDE	UTILITY CONTACT	ADVANCED NOTIFICATION BY PRIME CONTRACTOR	TIME ALLOWABLE FOR FRANCHISE UTILITY BY PRIME CONTRACTOR DURING	DESCRIPTION OF WORK TO BE COMPLETED BY FRANCHISED UTILITY
1	ALLIANT ENERGY	0+79.11	38+29.90	L/R	TINA GRENDZINSKI	2 WEEKS	2 WEEKS	LIGHTING REMOVALS
2	MIDAMERICAN ENERGY	32+00	38+75.55	L/R	GREG WILDEBOUR	2 WEEKS	2 WEEKS	GAS VALVE ADJUSTMENTS, POTENTIAL SERVICE ADJUSTMENTS
3	IMON	31+20	31+25	R	ERIC BIEBER	2 WEEKS	N/A	CONFIRM RELOCATION COMPLETE
4	AUREON	38+00	38+20	L/R	JEFF KLOCKO	2 WEEKS	2 WEEKS	HANDHOLE ADJUSTMENTS
5	JCN	0+79.11	38+29.90	L/R	KRIS SJOBAKKEN	2 WEEKS	N/A	PULLING FIBER AND SPLICING AFTER CONTRACTOR HAS COMPLETED WORK

ENGLISH	IOWA DOT	DESIGN TEAM	HDR ENGINEERING	CITY OF CEDAR RAPIDS	LINN COUNTY	PROJECT NUMBER	TAP-U-1187(801)--8I-57	SHEET NUMBER	A.2
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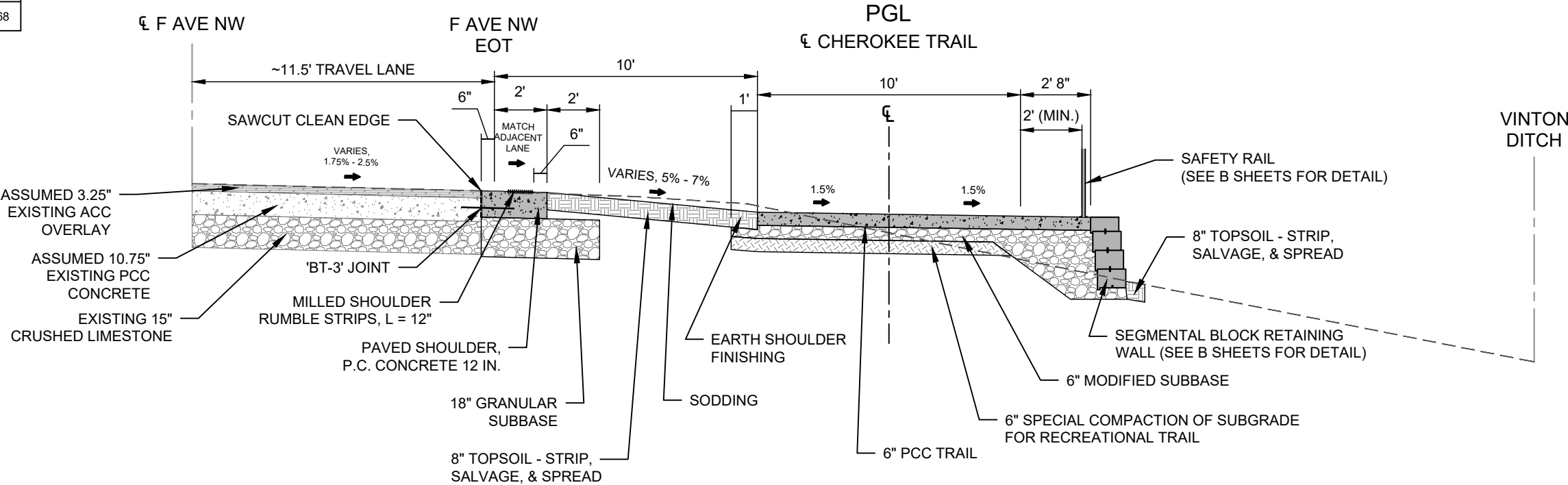
BEGIN STA	END STA
0+51.23	3+64.19
4+93.68	28+25.98



- NOTES:**
1. LIMITS OF SUBDRAIN PIPE VARY. SEE PLAN SHEETS. IN THESE AREAS, INSTALL POROUS BACKFILL ONLY.

CHEROKEE TRAIL - ALONG F AVE

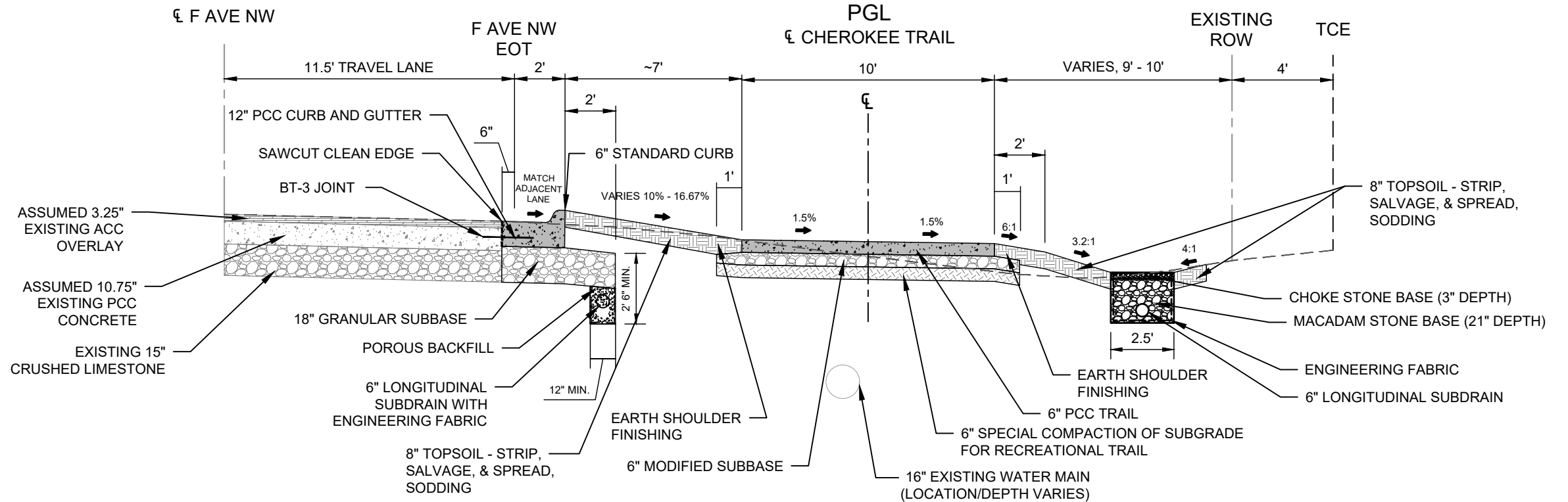
BEGIN STA	END STA
3+64.19	4+93.68



CHEROKEE TRAIL - ALONG F AVE AT BOX CUVLERT

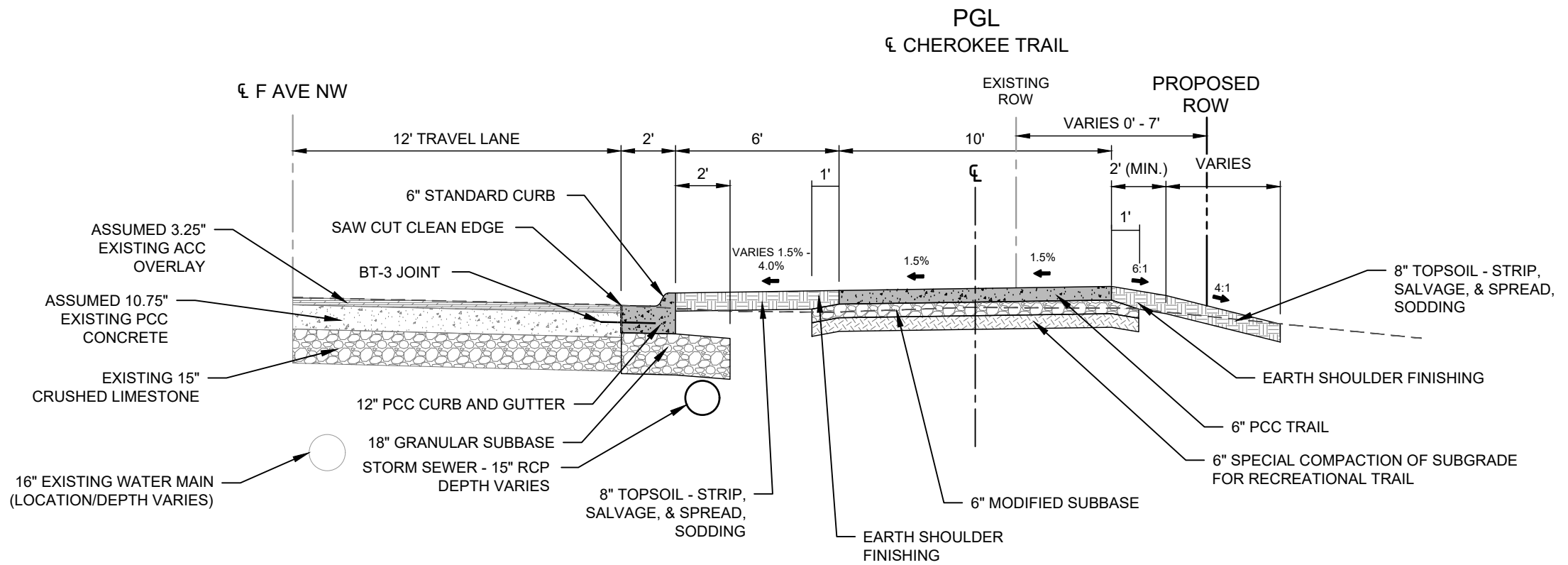
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BEGIN STA	END STA
28+25.98	32+23.85



CHEROKEE TRAIL - FROM 16TH ST NW TO 15TH ST NW

BEGIN STA	END STA
32+23.85	38+29.90

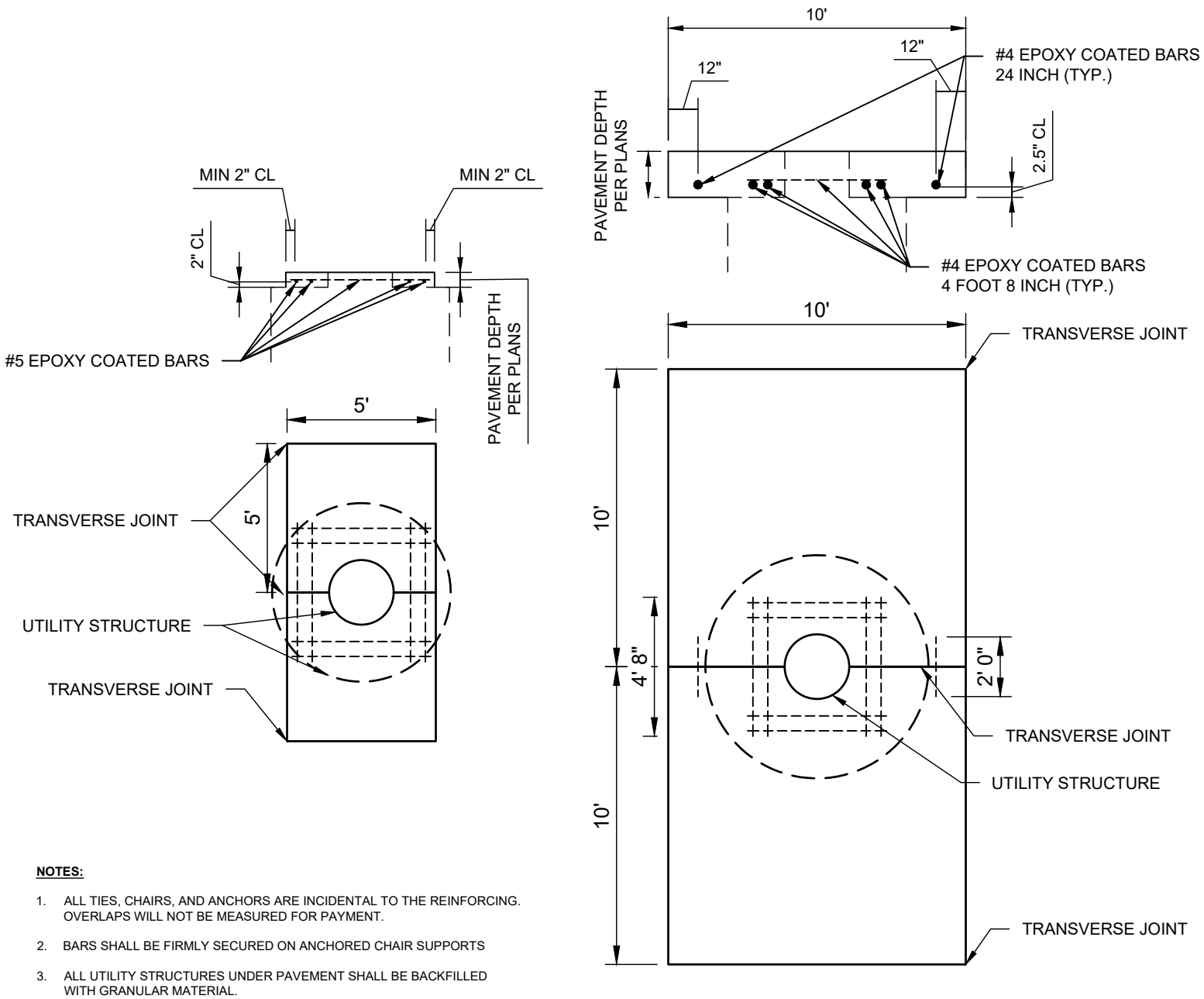


CHEROKEE TRAIL - FROM 15TH ST NW TO 13TH ST NW

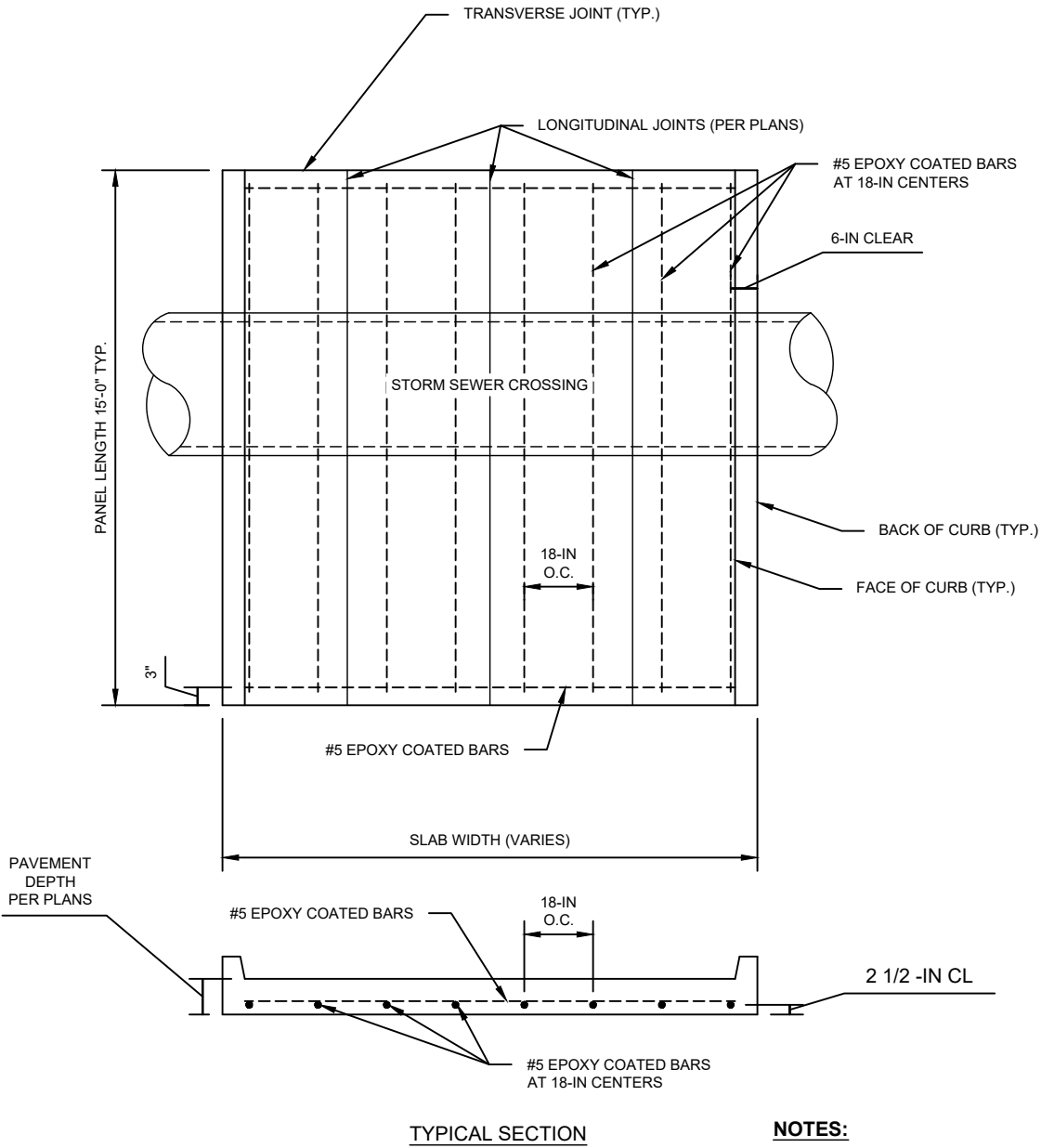
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EXISTING PAVEMENT CORE INFORMATION			
CORE NUMBER	ADDRESS	LOCATION	MATERIAL
PC-1	615 27TH ST NW	LATITUDE: 41.9788° LONGITUDE: -91.7083°	1.25" ACC, 1.25" CRUSHED LIMESTONE, 6" PCC
PC-2	1325 F AVE NW	LATITUDE: 41.9791° LONGITUDE: -91.6903°	3.25" ACC, 10.75" PCC, 15" CRUSHED LIMESTONE

NOTE: DATA IS FOR INFORMATION ONLY AND IS APPROXIMATE.

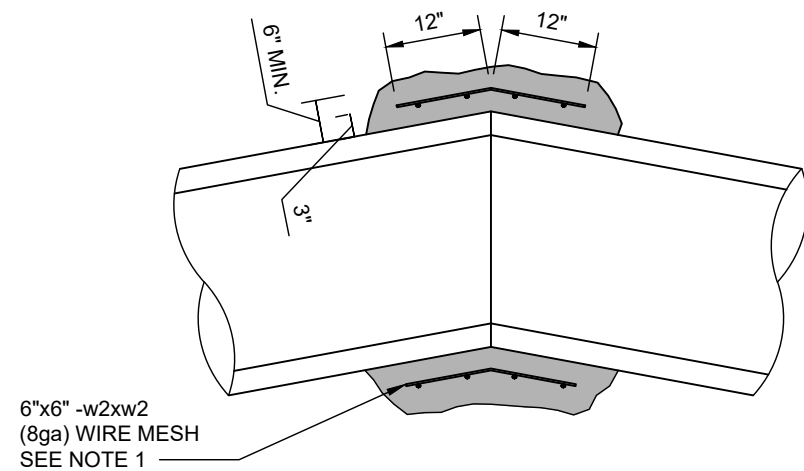


SIDEWALK/TRAIL REINFORCEMENT AT UTILITY STRUCTURES



UTILITY CROSSING REINFORCEMENT

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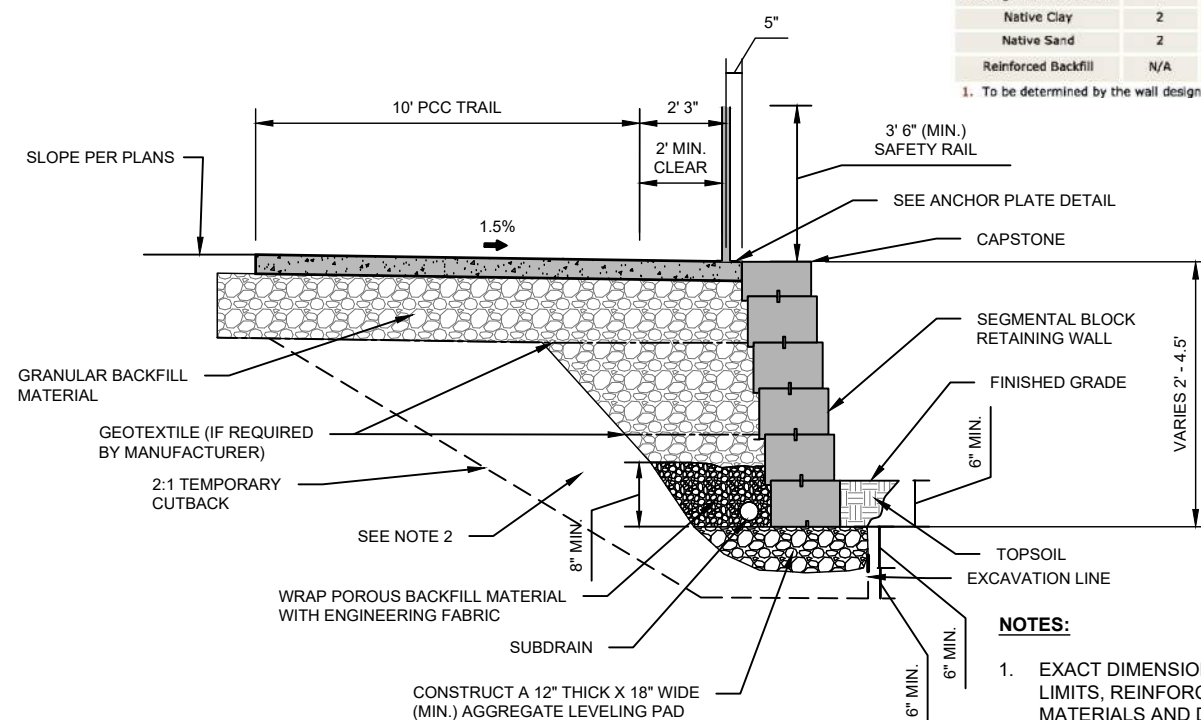
TYPE PC-2 CONCRETE COLLAR CONNECTION

NOTES:

1. LAP ENDS OF WIRE MESH A MINIMUM OF 6 INCHES.

Material	GeoModel Layer Number	Total Unit Weight (pcf)	Effective Stress Parameters ¹	
			ϕ' (degrees)	c' (psf)
New Low-Plasticity Clay Fill	N/A	120	26	50
Existing Fill / Possible Fill	1	115	22	0
Native Clay	2	120	24	0
Native Sand	2	115	28	0
Reinforced Backfill	N/A	TBD ¹	TBD ¹	TBD ¹

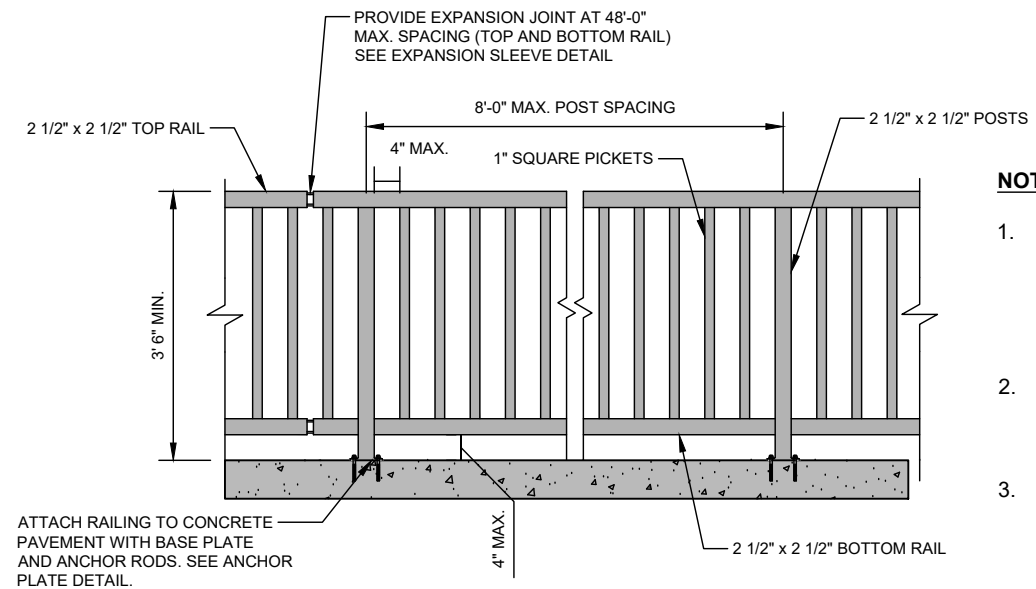
1. To be determined by the wall designer.



NOTES:

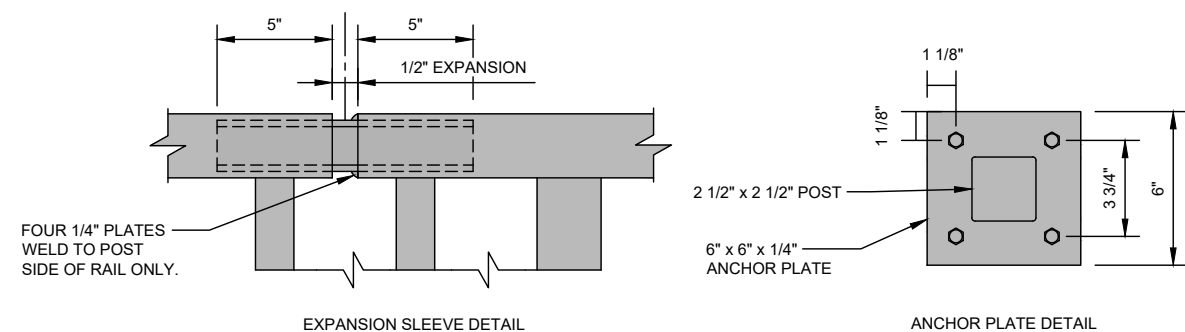
1. EXACT DIMENSIONS, WALL BATTER, BACKFILL LIMITS, REINFORCEMENT, LEVELING PAD MATERIALS AND DIMENSIONS WILL BE SPECIFIED BY THE WALL MANUFACTURER.
2. MATERIAL REMOVED DUE TO TEMPORARY CUTBACK MUST BE REPLACED WITH NEW FILL WITH MATERIAL MEETING THE REQUIREMENTS OF "NEW LOW-PLASTICITY CLAY FILL" AS NOTED IN THE SOIL PARAMETER TABLE.
3. REFER TO GEOTECHNICAL REPORT FOR MORE INFORMATION.

SEGMENTAL BLOCK RETAINING WALL & SAFETY RAIL



NOTES:

1. WELD ALL COMPONENTS WITH 1/4 INCH FILLET WELDS. GRIND WELDS AND CONNECTIONS AS REQUIRED TO PROVIDE A SMOOTH SURFACE, FREE OF BURRS.
2. FIELD PAINT SAFETY RAIL BLACK AFTER INSTALLATION AS SPECIFIED IN THE CONTRACT DOCUMENTS.
3. EXPANSION SLEEVE DETAIL SHOWN IS FOR TOP RAIL. EXPANSION JOINT FOR BOTTOM RAIL IS SIMILAR.



SAFETY RAIL DETAILS

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ENGLISH

IOWA DOT

DESIGN TEAM

HDR|ENGINEERING

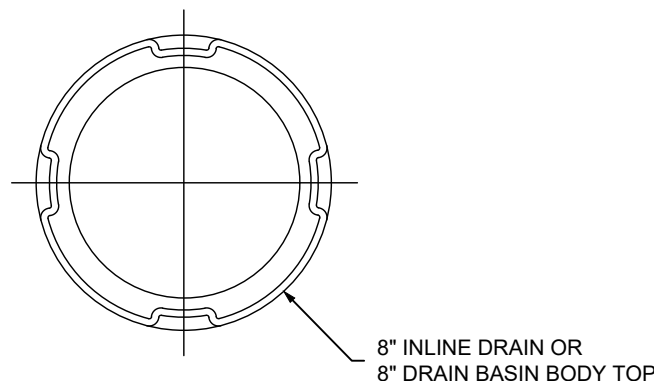
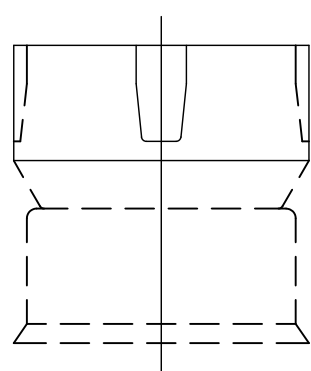
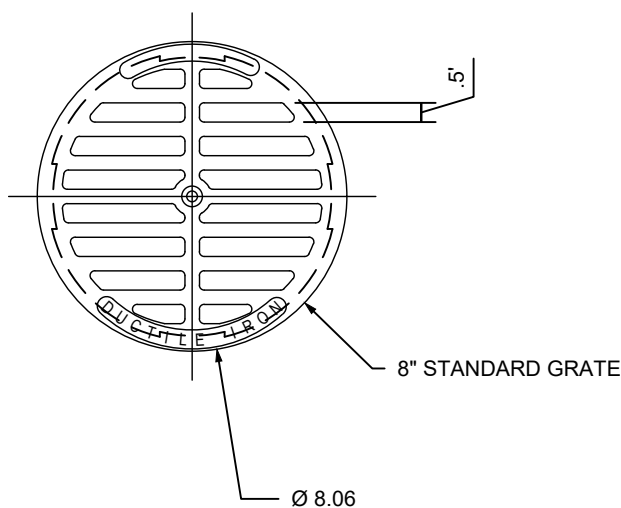
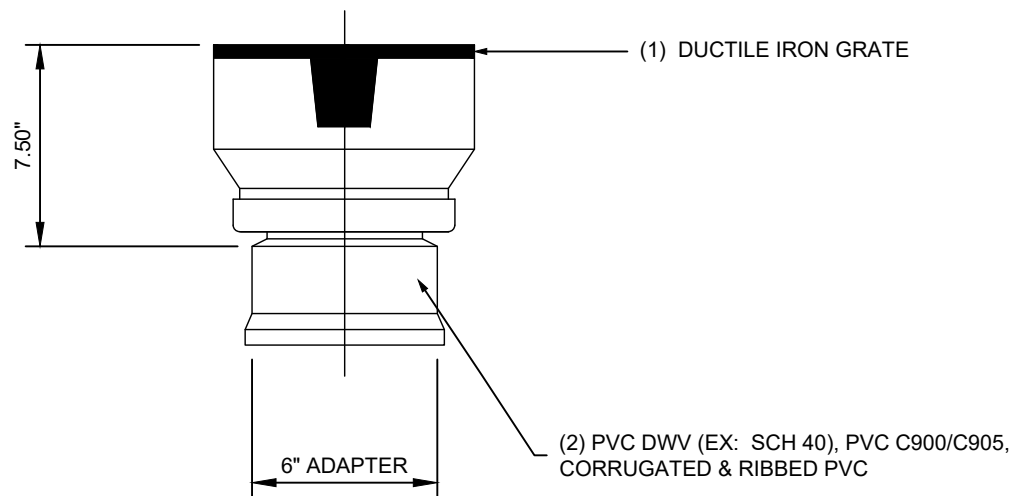
CITY OF CEDAR RAPIDS

LINN COUNTY

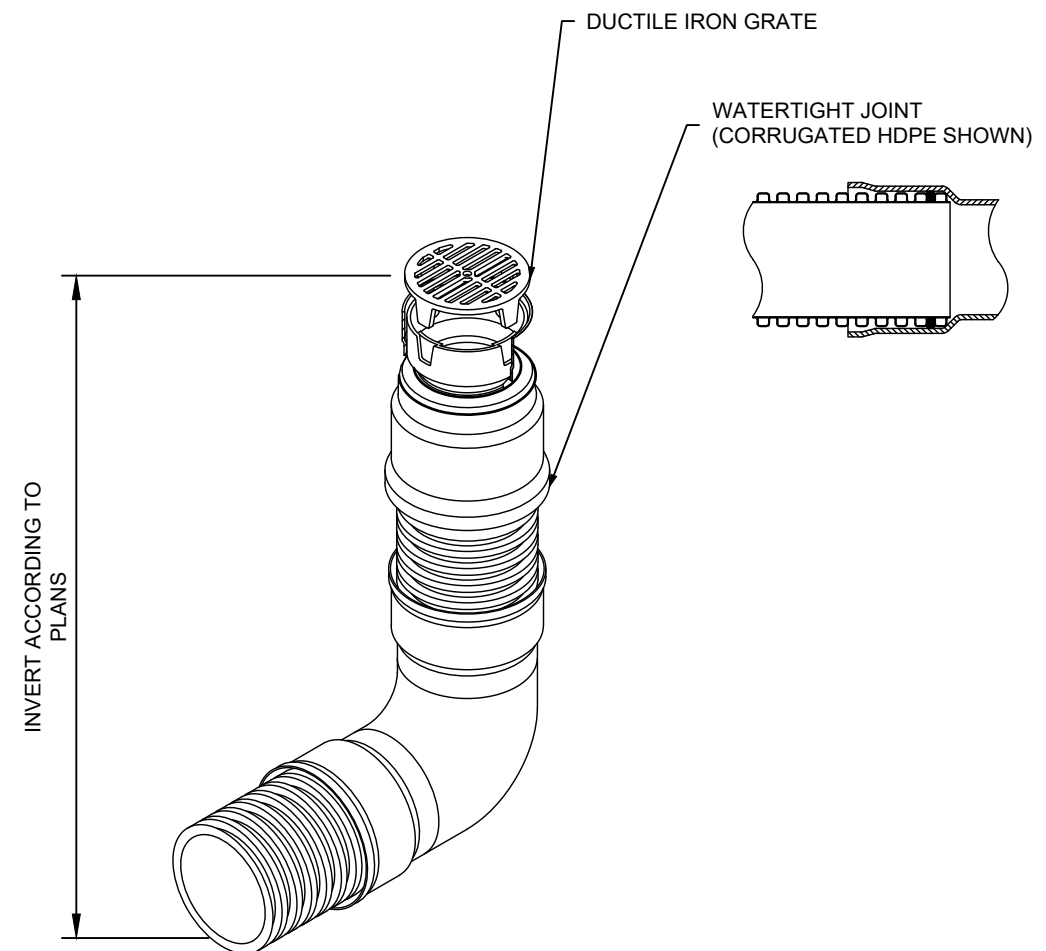
PROJECT NUMBER

TAP-U-1187(801)--8I-57

SHEET NUMBER B.4

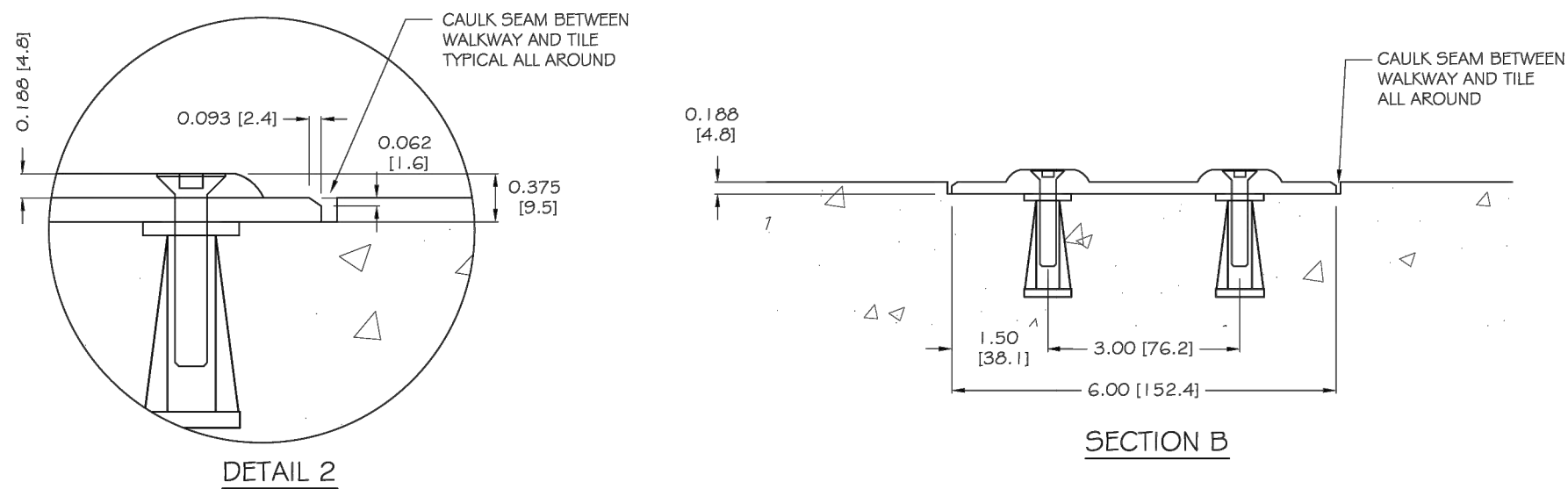
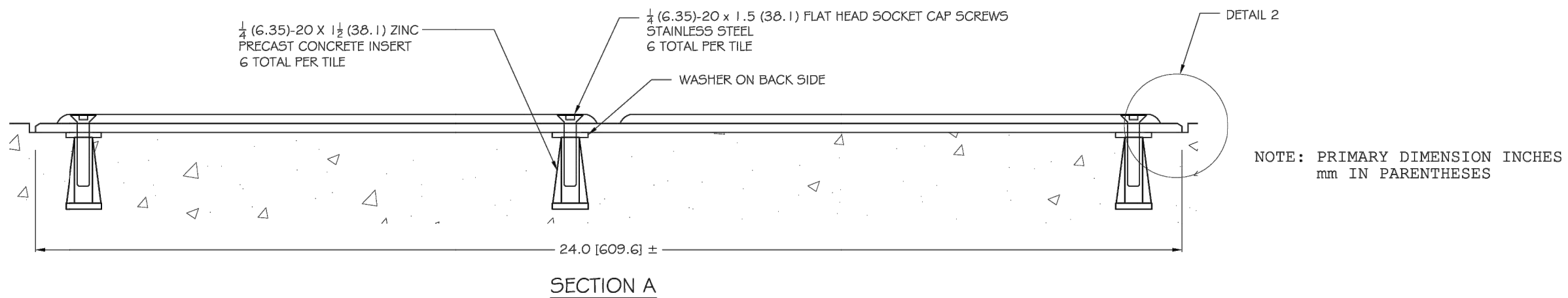
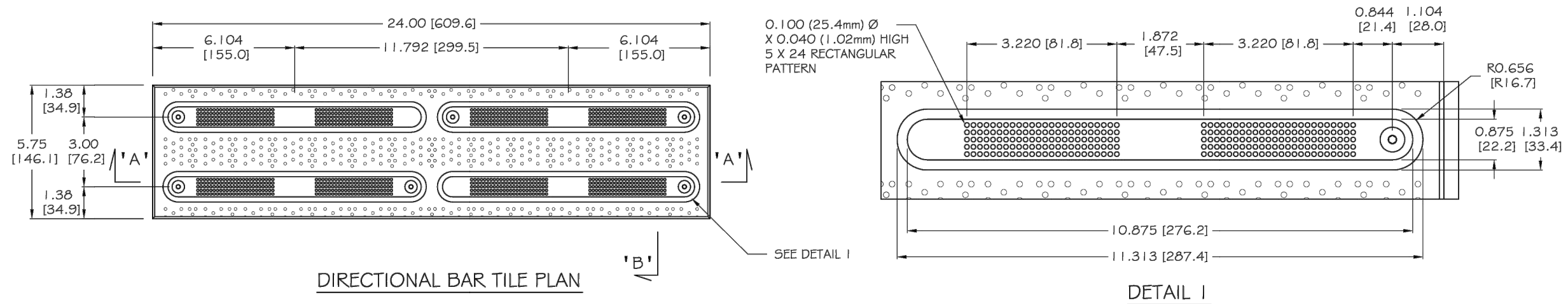


INLINE DRAIN DETAILS



- NOTES**
1. GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
 2. DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO SDR 35 PVC.
 3. DIMENSIONS ARE FOR REFERENCE ONLY.
 4. SIZE OF OPENING MEET SHALL MEET ADA REQUIREMENTS
 5. BEDDING SHALL BE R-2, BACKFILL SHALL BE CLASS 1 UNDER OR WITHIN 5 FEET OF PAVEMENT. SUITABLE EXCAVATED MATERIAL ELSEWHERE.
 6. BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.

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TACTILE DIRECTIONAL INDICATOR

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ENGLISH	IOWA DOT	DESIGN TEAM	HDR ENGINEERING	CITY OF CEDAR RAPIDS	LINN COUNTY	PROJECT NUMBER	TAP-U-1187(801)--8I-57	SHEET NUMBER	B.6
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EROSION CONTROL NOTES

1. THE CITY OF CEDAR RAPIDS HAS OBTAINED AN NPDES GENERAL PERMIT NO.2 FOR THIS PROJECT. TO SATISFY THE REQUIREMENTS OF THE NPDES PERMIT, THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE THE TEMPORARY EROSION AND SEDIMENT CONTROL SYSTEMS AS REQUIRED. CONTRACTOR SHALL ALSO PREPARE, PROVIDE, AND MAINTAIN A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PER CHAPTER 10D-1 OF THE IOWA DOT DESIGN MANUAL.
 2. CONTRACTOR AND ALL SUBCONTRACTORS WORKING ON THE SITE SHALL SIGN THE PERMIT AS CO-PERMITTEES PRIOR TO CONDUCTING ANY LAND DISTURBANCE ACTIVITY ON THE SITE.
 3. CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND MAINTENANCE OF ALL EXISTING AND CONSTRUCTED DRAINAGE CHANNELS AND DRAINAGE STRUCTURES. CONTRACTOR IS LIABLE FOR ALL DAMAGE TO PUBLIC OR PRIVATE PROPERTY CAUSED BY THEIR ACTION OR INACTION IN THE HANDLING OF STORM WATER FLOWS DURING CONSTRUCTION. EXTRA GRADING WORK NECESSARY TO MAINTAIN POSITIVE DRAINAGE WITHIN THE CONSTRUCTION LIMITS IS CONSIDERED INCIDENTAL TO CONSTRUCTION OR RELATED BID ITEMS.
- WATER NOTES**
1. WATER INSPECTION SERVICES ARE PROVIDED BY THE CEDAR RAPIDS WATER DIVISION PERSONNEL.
 2. CONTACT WATER ENGINEERING AT 319-286-5950 OR WATER-ENGINEERING-ADMIN@CEDAR-RAPIDS.ORG TO SCHEDULE THE FOLLOWING WORK REQUESTS:
 - 5 WORKING DAY MINIMUM NOTICE REQUIRED FOR:
 - WATER CONSTRUCTION START AND STOP.
 - 48-HOUR MINIMUM NOTICE IS REQUIRED FOR:
 - WATER SHUT-DOWN OR SUPPLY INTERRUPTION.
 - 24-HOUR MINIMUM NOTICE REQUIRED FOR EACH OF THE FOLLOWING:
 - WATER TAP 2 INCHES OR SMALLER.
 - WATER TAP LARGER THAN 2 INCHES AND UP TO 12 INCHES.
 - WATER MAIN FILL AND FLUSH.
 - WATER MAIN DISINFECTION AND HYDROSTATIC TESTING.
 - OTHER WATER SYSTEM RELATED SERVICES.
 3. FOR ANY EXCAVATION WITHIN 6 FEET OF A MARKED 16 INCH OR LARGER WATER MAIN THE CONTRACTOR IS REQUIRED TO SCHEDULE STAND-BY WATER DIVISION PERSONNEL FOR THAT WORK. COORDINATE WITH THE WATER INSPECTOR ASSIGNED TO THE PROJECT OR CONTACT WATER ENGINEERING TO SCHEDULE WITH 24-HOUR MINIMUM NOTICE.
 4. FOR DIRECTIONAL DRILLING CROSSINGS OR INSTALLATIONS WITHIN 6 FEET OF A MARKED 16 INCH OR LARGER WATER MAIN THE CONTRACTOR IS REQUIRED TO LOCATE AND EXPOSE (POTHOLE OR VAC EXCAVATE) THE WATER MAIN AND WATER DIVISION PERSONNEL ARE TO BE ON SITE DURING THAT WORK. COORDINATE WITH THE WATER INSPECTOR ASSIGNED TO THE PROJECT OR CONTACT WATER ENGINEERING TO SCHEDULE WITH 24-HOUR MINIMUM NOTICE.
 5. NO MONETARY OR TIME COMPENSATION WILL BE MADE TO ACCOMMODATE CUSTOMERS BY SCHEDULING AFTER-HOURS WATER SERVICE INTERRUPTIONS.

WATER NOTES

1. WATER INSPECTION SERVICES ARE PROVIDED BY THE CEDAR RAPIDS WATER DIVISION PERSONNEL.
2. CONTACT WATER ENGINEERING AT 319-286-5950 OR WATER-ENGINEERING-ADMIN@CEDAR-RAPIDS.ORG TO SCHEDULE THE FOLLOWING WORK REQUESTS:
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5. NO MONETARY OR TIME COMPENSATION WILL BE MADE TO ACCOMMODATE CUSTOMERS BY SCHEDULING AFTER-HOURS WATER SERVICE INTERRUPTIONS.

THE FOLLOWING STANDARD ROAD PLANS APPLY TO CONSTRUCTION WORK ON THIS PROJECT.
THIS DATA ENTRY SHEET FILLS TAB 105-4 EFFECTIVE 10-18-11

NUMBER	DATE	TITLE
DR-121	04-18-23	CONNECTED PIPE JOINTS
DR-122	10-18-16	CONSTRUCTION OF TYPE "C" CONCRETE ADAPTORS FOR PIPE CULVERT CONNECTIONS
DR-141	4-18-17	PIPE BENDS
DR-303	10-17-17	SUBDRAINS (LONGITUDINAL)
DR-306	10-17-23	PRECAST CONCRETE HEADWALL FOR SUBDRAIN OUTLETS
EC-201	04-20-21	SILT FENCE
EC-204	10-19-21	PERIMETER, SLOPE AND DITCH CHECK SEDIMENT CONTROL DEVICES
EC-301	10-18-22	ROCK EROSION CONTROL (REC)
EC-303	10-19-21	STABILIZED CONSTRUCTION ENTRANCE
EC-603	10-17-23	EROSION CONTROL INTAKE FOR INTAKE OR MANHOLE WELL
MI-210	10-21-25	PCC DRIVEWAYS AND ALLEYS
MI-220	4-15-25	DETECTABLE WARNINGS AND PEDESTRIAN RAMP
PM-110	10-15-24	LINE TYPES
PM-111	04-21-20	SYMBOLS AND LEGENDS
PM-115	10-20-26	GROOVING FOR LINE TYPES
PM-116	04-16-24	GROOVING FOR SYMBOLS AND LEGENDS
PV-101	10-20-26	JOINTS
PV-102	10-21-25	PCC CURB DETAILS
SI-101	4-19-16	LOCATIONS - TYPE 'A' SIGNS
SI-131	10-18-16	INSTALLATION - TYPE 'A' SIGNS
SW-101	10-21-25	TRENCH BEDDING AND BACKFILL ZONES
SW-102	10-21-25	RIGID GRAVITY PIPE TRENCH BEDDING
SW-103	10-21-25	FLEXIBLE GRAVITY PIPE TRENCH BEDDING
SW-211	10-21-25	STORM SEWER PIPE CONNECTIONS
SW-401	10-21-25	CIRCULAR STORM SEWER MANHOLE
SW-406	10-21-25	SHALLOW RECTANGULAR STORM SEWER MANHOLE
SW-501	10-21-25	SINGLE GRATE INTAKE
SW-505	10-21-25	DOUBLE GRATE INTAKE
SW-507	10-21-25	SINGLE OPEN-THROAT INTAKE, SMALL BOX
SW-509	10-21-25	DOUBLE OPEN-THROAT CURB INTAKE, SMALL BOX
SW-512	10-21-25	CIRCULAR AREA INTAKE
SW-513	10-21-25	OPEN-SIDED AREA INTAKE
SW-514	10-21-25	BOXOUTS FOR GRATE INTAKES
SW-602	10-21-25	CASTINGS FOR STORM SEWER MANHOLES
SW-603	10-21-25	CASTINGS FOR GRATE INTAKES
SW-604	10-21-25	CASTINGS FOR AREA INTAKES
TC-202	04-18-23	WORK WITHIN 15 FT OF TRAVELED WAY
TC-252	10-20-26	ROUTES CLOSED TO TRAFFIC
TC-601	10-15-19	PEDESTRIAN DETOUR

PROJECT DESCRIPTION: THIS PROJECT INVOLVES THE CONSTRUCTION OF CHEROKEE TRAIL FROM THE INTERSECTION OF F AVE NW & WESTWOOD DR NW TO THE INTERSECTION OF F AVENUE NW & 13TH ST NW. THE TRAIL WILL BE CONSTRUCTED AS A 10' WIDE PCC TRAIL, AND WILL BE THE THIRD PHASE OF THE CHEROKEE TRAIL. THE PROJECT ALSO INVOLVES DRIVEWAY RECONSTRUCTION, STORM SEWER, AND CURB & GUTTER CONSTRUCTION AS A RESULT OF THE NEW SHARED USE PATH. RECTANGULAR RAPID FLASHING BEACONS (RRFB) ARE ALSO BEING INSTALLED ALONG F AVENUE AT THE INTERSECTIONS OF F AVENUE NW & WESTWOOD DR NW, F AVENUE NW & 18TH ST NW, AND F AVENUE NW & 16TH ST NW.

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100-1D 10-18-05				
PROJECT DESCRIPTION				
CHEROKEE TRAIL SHARED USE PATH - THIS PROJECT INVOLVES THE CONSTRUCTION OF CHEROKEE TRAIL FROM THE INTERSECTION OF WESTWOOD DR NW & F AVENUE NW TO THE INTERSECTION OF F AVENUE NW & 13TH ST NW. THE PROJECT IS INTENDING TO CONSTRUCT THE THIRD PHASE OF THE CHEROKEE TRAIL. THE PROJECT INVOLVES RELATED TRAFFIC CONTROL AND DRAINAGE WORK AS A RESULT OF THE NEW SHARED USE PATH, AND RRFB'S AT THE INTERSECTIONS OF F AVENUE NW & WESTWOOD DR NW, 18TH ST NW, AND 16TH ST NW.				

100-1A 07-15-97					
ESTIMATED PROJECT QUANTITIES (1 DIVISION PROJECT)					
Item No.	Item Code	Item	Unit	Total	As Built Qty.
1	2102-2710070	EXCAVATION, CLASS 10, ROADWAY AND BORROW	CY	3053	
2	2102-2710090	EXCAVATION, CLASS 10, WASTE	CY	721	
3	2105-8425005	TOPSOIL, FURNISH AND SPREAD	CY	882	
4	2105-8425015	TOPSOIL, STRIP, SALVAGE AND SPREAD	CY	882	
5	2111-8174100	GRANULAR SUBBASE	SY	3812	
6	2113-0001100	SUBGRADE STABILIZATION MATERIAL, POLYMER GRID	SY	1108	
7	2115-0100000	MODIFIED SUBBASE	CY	923	
8	2122-5190012	PAVED SHOULDER, P.C. CONCRETE, 12 IN.	SY	725.6	
9	2123-7450020	SHOULDER FINISHING, EARTH	STA	36.2	
10	2210-0475105	CHOKE STONE BASE	TON	12.3	
11	2210-0475290	MACADAM STONE BASE	TON	79.6	
12	2301-1033100	STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURABILITY, 10 IN.	SY	865.5	
13	2301-6911722	PORTLAND CEMENT CONCRETE PAVEMENT SAMPLES	LS	1	
14	2431-0000100	SEGMENTAL BLOCK RETAINING WALL	SF	525	
15	2435-0140148	MANHOLE, STORM SEWER, SW-401, 48 IN.	EACH	1	
16	2435-0140172	MANHOLE, STORM SEWER, SW-401, 72 IN.	EACH	1	
17	2435-0140600	MANHOLE, STORM SEWER, SW-406	EACH	1	
18	2435-0250100	INTAKE, SW-501	EACH	1	
19	2435-0250500	INTAKE, SW-505	EACH	1	
20	2435-0250700	INTAKE, SW-507	EACH	1	
21	2435-0250900	INTAKE, SW-509	EACH	2	
22	2435-0251224	INTAKE, SW-512, 24 IN.	EACH	7	
23	2435-0251300	INTAKE, SW-513	EACH	1	
24	2435-0600010	MANHOLE ADJUSTMENT, MINOR	EACH	2	
25	2435-0600020	MANHOLE ADJUSTMENT, MAJOR	EACH	3	
26	2435-0600110	INTAKE ADJUSTMENT, MINOR	EACH	1	
27	2502-8212206	SUBDRAIN, PERFORATED PLASTIC PIPE, 6 IN. DIA.	LF	3559	
28	2502-8221303	SUBDRAIN OUTLET, DR-303	EACH	5	
29	2502-8221306	SUBDRAIN OUTLET, DR-306	EACH	15	
30	2503-0112010	STORM SEWER GRAVITY MAIN, TRENCHED, POLYVINYL CHLORIDE PIPE (PVC), 10 IN.	LF	36	
31	2503-0114212	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 20000 (CLASS III), 12 IN.	LF	438	
32	2503-0114215	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 20000 (CLASS III), 15 IN.	LF	386	
33	2503-0114218	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 20000 (CLASS III), 18 IN.	LF	14	
34	2503-0114224	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 20000 (CLASS III), 24 IN.	LF	20	
35	2503-0114236	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 20000 (CLASS III), 36 IN.	LF	14	
36	2503-0200036	REMOVE STORM SEWER PIPE LESS THAN OR EQUAL TO 36 IN.	LF	268	
37	2507-8029000	EROSION STONE	TON	25.1	
38	2510-6745850	REMOVAL OF PAVEMENT	SY	2059.9	
39	2510-6750600	REMOVAL OF INTAKES AND UTILITY ACCESSES	EACH	5	
40	2511-0302600	RECREATIONAL TRAIL, PORTLAND CEMENT CONCRETE, 6 IN.	SY	4118.9	
41	2511-0310100	SPECIAL COMPACTION OF SUBGRADE FOR RECREATIONAL TRAIL	STA	36.2	
42	2511-6745900	REMOVAL OF SIDEWALK	SY	385.7	
43	2511-7526004	SIDEWALK, P.C. CONCRETE, 4 IN.	SY	176.9	
44	2511-7526006	SIDEWALK, P.C. CONCRETE, 6 IN.	SY	69.8	
45	2511-7528101	DETECTABLE WARNINGS	SF	297	
46	2512-1725206	CURB AND GUTTER, P.C. CONCRETE, 2.0 FT.	LF	523	
47	2512-1725256	CURB AND GUTTER, P.C. CONCRETE, 2.5 FT.	LF	307	
48	2512-1725356	CURB AND GUTTER, P.C. CONCRETE, 3.5 FT.	LF	86.3	
49	2512-1725406	CURB AND GUTTER, P.C. CONCRETE, 4.0 FT.	LF	57.3	
50	2515-2475006	DRIVEWAY, P.C. CONCRETE, 6 IN.	SY	140.4	
51	2515-6745600	REMOVAL OF PAVED DRIVEWAY	SY	142	
52	2524-6765110	REMOVAL OF TYPE A SIGN	EACH	7	
53	2524-9276010	PERFORATED SQUARE STEEL TUBE POSTS	LF	126	
54	2524-9276027	PERFORATED SQUARE STEEL TUBE POST ANCHOR, TRIANGULAR SLIP BASE ASSEMBLY	EACH	9	
55	2524-9325001	TYPE A SIGNS, SHEET ALUMINUM	SF	94.7	
56	2526-8285010	CONSTRUCTION SURVEY, MONUMENT PRESERVATION	LS	1	
57	2526-8285020	CONSTRUCTION SURVEY, CONTROL POINT SURVEY	LS	1	
58	2526-8285030	CONSTRUCTION SURVEY, RIGHT OF WAY	LS	1	
59	2526-8285040	CONSTRUCTION SURVEY, LOCATION SURVEY	LS	1	
60	2527-9263143	PAINTED SYMBOLS AND LEGENDS, DURABLE	EACH	2	
61	2527-9263181	PAVEMENT MARKINGS REMOVED	STA	1.9	
62	2527-9263217	PAINTED PAVEMENT MARKINGS, DURABLE	STA	90.52	
63	2527-9263231	REMOVABLE TAPE MARKINGS, WET RETROREFLECTIVE	STA	22.51	
64	2527-9270112	GROOVES CUT FOR PAVEMENT MARKINGS	STA	90.52	
65	2527-9270120	GROOVES CUT FOR SYMBOLS AND LEGENDS	EACH	2	
66	2528-2518000	SAFETY CLOSURE	EACH	4	
67	2528-8445110	TRAFFIC CONTROL	LS	1	
68	2528-9290050	PORTABLE DYNAMIC MESSAGE SIGN (PDMS)	CDAY	10	
69	2533-4980005	MOBILIZATION	LS	1	
70	2548-0000200	MILLED SHOULDER RUMBLE STRIPS, PCC SURFACE	STA	25.4	
71	2599-9990005	HANDHOLE	EACH	2	

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100-1A 07-15-97					
ESTIMATED PROJECT QUANTITIES (1 DIVISION PROJECT)					
Item No.	Item Code	Item	Unit	Total	As Built Qty.
72	2599-9999005	INLINE DRAIN, PVC, 8 IN.	EACH	1	
73	2599-9999005	RECTANGULAR RAPID FLASHING BEACON (RRFB) ASSEMBLY	EACH	3	
74	2599-9999005	RELOCATION OF HANDHOLE	EACH	1	
75	2599-9999005	UTILITY CROSSING REINFORCEMENT	EACH	4	
76	2599-9999005	VALVE BOX ADJUSTMENT, WATER MAIN	EACH	5	
77	2599-9999005	VALVE BOX ADJUSTMENT, WATER SERVICE	EACH	1	
78	2599-9999005	WATER SERVICE STUB, TYPE K, 1 IN., TRENCHED	EACH	1	
79	2599-9999009	CONDUIT, TRENCHED	LF	267	
80	2599-9999009	SAFETY RAIL	LF	210	
81	2599-9999009	TACTILE DIRECTIONAL INDICATOR	LF	14	
82	2601-2639010	SODDING	SQ	715	
83	2601-2643110	WATERING FOR SOD, SPECIAL DITCH CONTROL, OR SLOPE PROTECTION	MGAL	343	
84	2601-2643300	MOBILIZATION FOR WATERING	EACH	5	
85	2602-0000020	SILT FENCE	LF	4006	
86	2602-0000071	REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS	LF	4006	
87	2602-0000101	MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECK	LF	401	
88	2602-0000150	STABILIZED CONSTRUCTION ENTRANCE, EC-303	LF	300	
89	2602-0000309	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 9 IN. DIA.	LF	4370	
90	2602-0000351	REMOVAL OF PERIMETER AND SLOPE OR DITCH CHECK SEDIMENT CONTROL DEVICE	LF	4370	
91	2602-0010010	MOBILIZATIONS, EROSION CONTROL	EACH	5	

100-4A 10-29-02		
ESTIMATE REFERENCE INFORMATION		
Item No.	Item Code	Description
1	2102-2710070	EXCAVATION, CLASS 10, ROADWAY AND BORROW A. CUT - 3053 CY, FILL - 2332 CY B. QUANTITY REQUIRED TO REMOVE THE EXISTING GRANULAR SHOULDER IS INCLUDED IN THIS ITEM. C. THIS ITEM DOES NOT INCLUDE ANY EXCAVATION REQUIRED FOR COMPACTION OF SUBGRADE. D. CONTRACTOR TO DISPOSE OF UNSUITABLE MATERIAL OFF-SITE. NO PAYMENT WILL BE MADE FOR OVERHAUL. E. FILL QUANTITY IS BASED ON A 35% SHRINKAGE FACTOR. F. THIS ITEM SHALL ALSO INCLUDE THE REMOVAL, SALVAGE , AND STOCKPILE OF LANDSCAPE BRICKS CALLED FOR REMOVAL ON THE QR SHEETS. BRICKS SHALL BE STACKED NEATLY. -
2	2102-2710090	EXCAVATION, CLASS 10, WASTE A. THIS BID ITEM IS FOR THE REMOVAL OF EXCESS EXCAVATED MATERIAL, AND SHALL BE REMOVED FROM THE SITE -
3	2105-8425005	TOPSOIL, FURNISH AND SPREAD A. IT HAS BEEN ASSUMED THAT THERE IS ENOUGH TOPSOIL ON-SITE TO COVER HALF OF THE PROJECTS TOPSOIL NEEDS, THE REMAINING AMOUNT SHALL BE FURNISHED BY THE CONTRACTOR. B. TOPSOIL SHALL BE 8 IN. IN THICKNESS -
4	2105-8425015	TOPSOIL, STRIP, SALVAGE AND SPREAD A. IT HAS BEEN ASSUMED THAT THERE IS ENOUGH TOPSOIL ON-SITE TO COVER HALF OF THE PROJECTS TOPSOIL NEEDS, THE REMAINING AMOUNT SHALL BE FURNISHED BY THE CONTRACTOR. B. TOPSOIL SHALL BE 8 IN. IN THICKNESS -
5	2111-8174100	GRANULAR SUBBASE A. GRANULAR SUBBASE TO BE PLACED BENEATH ALL CURB AND GUTTER AND ROADWAY PAVEMENT AS SHOWN IN THE PLANS. B. GRANULAR SUBBASE THICKNESS DEPTH VARIES AS SHOWN IN THE PLANS, TYPICALLY 18 INCHES. -
6	2113-0001100	SUBGRADE STABILIZATION MATERIAL, POLYMER GRID A. FOR USE BENEATH SIDESTREET ROADWAY RECONSTRUCTION, AND F AVENUE PATCH. -
7	2115-0100000	MODIFIED SUBBASE A. 6" OF MODIFIED SUBBASE TO BE PLACED BENEATH ALL 6" PCC TRAIL AND 6" PCC DRIVEWAY PAVEMENT AS SHOWN IN THE PLANS. 4" OF MODIFIED SUBBASE TO BE PLACED BENEATH ALL SIDEWALK AS SHOWN IN THE PLANS. -
8	2122-5190012	PAVED SHOULDER, P.C. CONCRETE, 12 IN. A. CERTIFIED PLANT INSPECTION SHALL BE REQUIRED BY CONTRACTOR. B. ALL JOINTING AND REINFORCEMENT REQUIRED SHALL BE CONSIDERED INCIDENTAL TO THIS BID ITEM. -
9	2123-7450020	SHOULDER FINISHING, EARTH A. QUANTITY IS MEASURED IN STATIONS ALONG THE TRAIL LENGTH ONLY. THIS BID ITEM INCLUDES SHOULDER FINISHING ALONG BOTH SIDES OF THE PAVED TRAIL FOR THE FULL LENGTH MEASURED. -
10	2210-0475105	CHOKE STONE BASE A. ASSUMED UNIT WEIGHT OF 140 LBS PER CUBIC FOOT. -
11	2210-0475290	MACADAM STONE BASE A. ASSUMED UNIT WEIGHT OF 130 LBS PER CUBIC FOOT. -
12	2301-1033100	STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURABILITY, 10 IN. A. CERTIFIED PLANT INSPECTION SHALL BE REQUIRED BY CONTRACTOR. B. ALL JOINTING AND REINFORCEMENT REQUIRED SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM. C. INTEGRAL CURB SHALL BE CONSIDERED INCIDENTAL TO THIS BID ITEM. THERE IS AN ESTIMATED 615 LF OF INTEGRAL CURB. -
13	2301-6911722	PORTLAND CEMENT CONCRETE PAVEMENT SAMPLES A. CERTIFIED PLANT INSPECTION SHALL BE REQUIRED BY CONTRACTOR. -

100-4A 10-29-02		
ESTIMATE REFERENCE INFORMATION		
Item No.	Item Code	Description
14	2431-0000100	SEGMENTAL BLOCK RETAINING WALL A. DETAIL HAS BEEN SHOWN ON THE B SHEETS FOR REFERENCE ONLY. CONTRACTOR TO SUBMIT WALL DESIGN IN ACCORDANCE WITH SECTION 2431.02, A. 3, 30 DAYS PRIOR TO START OF WORK. B. THE SEGMENTAL BLOCK WALL SHALL BE DESIGN IN ACCORDANCE WITH THE DETAILS SHOWN ON THE B SHEETS, PER MANUFACTURERS RECOMMENDATIONS. C. CUTBACK, FILL, AND 1' OF OVEREXCAVATION AS SHOWN ON THE B SHEETS SHALL BE CONSIDERED INCIDENTAL TO THIS BID ITEM. -
15	2435-0140148	MANHOLE, STORM SEWER, SW-401, 48 IN. -
16	2435-0140172	MANHOLE, STORM SEWER, SW-401, 72 IN. -
17	2435-0140600	MANHOLE, STORM SEWER, SW-406 -
18	2435-0250100	INTAKE, SW-501 -
19	2435-0250500	INTAKE, SW-505 -
20	2435-0250700	INTAKE, SW-507 -
21	2435-0250900	INTAKE, SW-509 -
22	2435-0251224	INTAKE, SW-512, 24 IN. A. REFER TO SW-604. CASTING SHALL BE TYPE 3B. -
23	2435-0251300	INTAKE, SW-513 A. STRUCTURE SHALL BE CAST-IN-PLACE. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THIS BID ITEM. -
24	2435-0600010	MANHOLE ADJUSTMENT, MINOR -
25	2435-0600020	MANHOLE ADJUSTMENT, MAJOR -
26	2435-0600110	INTAKE ADJUSTMENT, MINOR -
27	2502-8212206	SUBDRAIN, PERFORATED PLASTIC PIPE, 6 IN. DIA A. ENGINEERING FABRIC SHALL BE CONSIDERED INCIDENTAL TO THIS BID ITEM. B. REFER TO TAB 104-5C AND B SHEETS FOR BACKFILL REQUIREMENTS. FRENCH DRAIN BACKFILL WILL BE PAID UNDER SEPARATE BID ITEMS. -
28	2502-8221303	SUBDRAIN OUTLET, DR-303 -
29	2502-8221306	SUBDRAIN OUTLET, DR-306 -
30	2503-0112010	STORM SEWER GRAVITY MAIN, TRENCHED, POLYVINYL CHLORIDE PIPE (PVC), 10 IN. A. BEDDING CLASS SHALL BE R-2 FOR ALL PIPES. JOINTS SHALL BE WRAPPED WITH ENGINEERING FRABRIC. USE SUITABLE EXCAVATED MATERIAL, OR IF NO SUITABLE EXCAVATED MATERIAL EXISTS, CLASS III MATERIAL SHALL BE FURNISHED. B. ALL BEDDING AND BACKFILL SHALL BE CONSIDERED INCIDENTAL TO THIS BID ITEM. -
31	2503-0114212	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 12 IN. A. BEDDING CLASS SHALL BE R-2 FOR ALL PIPES. JOINTS SHALL BE WRAPPED WITH ENGINEERING FRABRIC. USE SUITABLE EXCAVATED MATERIAL, OR IF NO SUITABLE EXCAVATED MATERIAL EXISTS, CLASS III MATERIAL SHALL BE FURNISHED. B. ALL BEDDING AND BACKFILL SHALL BE CONSIDERED INCIDENTAL TO THIS BID ITEM. C. COLLAR / CONNECTIONS TO EXISITNG PIPE SHALL BE CONSIDERED INCIDENTAL TO THIS BID ITEM. -
32	2503-0114215	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 15 IN. A. BEDDING CLASS SHALL BE R-2 FOR ALL PIPES. JOINTS SHALL BE WRAPPED WITH ENGINEERING FRABRIC. USE SUITABLE EXCAVATED MATERIAL, OR IF NO SUITABLE EXCAVATED MATERIAL EXISTS, CLASS III MATERIAL SHALL BE FURNISHED. B. ALL BEDDING AND BACKFILL SHALL BE CONSIDERED INCIDENTAL TO THIS BID ITEM. C. COLLAR / CONNECTIONS TO EXISITNG PIPE SHALL BE CONSIDERED INCIDENTAL TO THIS BID ITEM. D. FLEXIBLE GASKETS CONFORMING TO ASTM C 443 SHALL BE CONSIDERED INCIDENTAL TO THIS BID ITEM. -
33	2503-0114218	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 18 IN. A. BEDDING CLASS SHALL BE R-2 FOR ALL PIPES. JOINTS SHALL BE WRAPPED WITH ENGINEERING FRABRIC. USE SUITABLE EXCAVATED MATERIAL, OR IF NO SUITABLE EXCAVATED MATERIAL EXISTS, CLASS III MATERIAL SHALL BE FURNISHED. B. ALL BEDDING AND BACKFILL SHALL BE CONSIDERED INCIDENTAL TO THIS BID ITEM. C. COLLAR / CONNECTIONS TO EXISITNG PIPE SHALL BE CONSIDERED INCIDENTAL TO THIS BID ITEM. -
34	2503-0114224	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 24 IN. A. BEDDING CLASS SHALL BE R-2 FOR ALL PIPES. JOINTS SHALL BE WRAPPED WITH ENGINEERING FRABRIC. USE SUITABLE EXCAVATED MATERIAL, OR IF NO SUITABLE EXCAVATED MATERIAL EXISTS, CLASS III MATERIAL SHALL BE FURNISHED. B. ALL BEDDING AND BACKFILL SHALL BE CONSIDERED INCIDENTAL TO THIS BID ITEM. C. COLLAR / CONNECTIONS TO EXISITNG PIPE SHALL BE CONSIDERED INCIDENTAL TO THIS BID ITEM. -
35	2503-0114236	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 36 IN. A. BEDDING CLASS SHALL BE R-2 FOR ALL PIPES. JOINTS SHALL BE WRAPPED WITH ENGINEERING FRABRIC. USE SUITABLE EXCAVATED MATERIAL, OR IF NO SUITABLE EXCAVATED MATERIAL EXISTS, CLASS III MATERIAL SHALL BE FURNISHED. B. ALL BEDDING AND BACKFILL SHALL BE CONSIDERED INCIDENTAL TO THIS BID ITEM. C. COLLAR / CONNECTIONS TO EXISITNG PIPE SHALL BE CONSIDERED INCIDENTAL TO THIS BID ITEM. -
36	2503-0200036	REMOVE STORM SEWER PIPE LESS THAN OR EQUAL TO 36 IN. -
37	2507-8029000	EROSION STONE A. UNIT WEIGHT OF STONE HAS BEEN ASSUMED TO BE 120 PCF.

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ESTIMATE REFERENCE INFORMATION			100-4A 10-29-02
Item No.	Item Code	Description	
		B. ENGINEERING FABRIC SHALL BE USED, AND SHALL BE CONSIDERED INCIDENTAL TO THIS BID ITEM.	
		-	
38	2510-6745850	REMOVAL OF PAVEMENT	
		A. ALL REMOVALS TO BE MARKED AND MEASURED BY THE ENGINEER. FULL DEPTH SAW CUTS ALONG THE REMOVAL LIMITS ARE CONSIDERED INCIDENTAL TO THIS ITEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADDITIONAL REMOVAL, EARTHWORK, SUBGRADE PREPARATION, AND MODIFIED SUBBASE DUE TO DAMAGED EDGES. ADDITIONAL REMOVAL TO BE DETERMINED BY THE ENGINEER.	
		B. PAYMENT SHALL BE MADE FROM THE AREA OF PAVEMENT REMOVED. REFER TO THE B SHEETS FOR CORE INFORMATION.	
		C. CURB REMOVAL, IF REQUIRED, SHALL BE CONSIDERED INCIDENTAL TO THIS BID ITEM.	
		-	
39	2510-6750600	REMOVAL OF INTAKES AND UTILITY ACCESSES	
		-	
40	2511-0302600	RECREATIONAL TRAIL, PORTLAND CEMENT CONCRETE, 6 IN.	
		A. CERTIFIED PLANT INSPECTION SHALL BE REQUIRED BY CONTRACTOR.	
		B. THE CONCRETE REQUIRED FOR SIDEWALK FLARES AT THE CURBLINE SHALL BE CONSIDERED INCIDENTAL TO THIS BID ITEM.	
		C. REINFORCEMENT AT UTILITY STRUCTURES, AS DETAILED ON THE B SHEETS, SHALL BE CONSIDERED INCIDENTAL TO THIS BID ITEM.	
		-	
41	2511-0310100	SPECIAL COMPACTION OF SUBGRADE FOR RECREATIONAL TRAIL	
		-	
42	2511-6745900	REMOVAL OF SIDEWALK	
		A. ALL REMOVALS TO BE MARKED AND MEASURED BY THE ENGINEER. FULL DEPTH SAW CUTS ALONG THE REMOVAL LIMITS ARE CONSIDERED INCIDENTAL TO THIS ITEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADDITIONAL REMOVAL, EARTHWORK, SUBGRADE PREPARATION, AND MODIFIED SUBBASE DUE TO DAMAGED EDGES. ADDITIONAL REMOVAL TO BE DETERMINED BY THE ENGINEER.	
		B. PAYMENT SHALL BE MADE FROM THE AREA OF PAVEMENT REMOVED, REGARDLESS OF THICKNESS. PAVEMENT IS PCC AND AN ASSUMED 4" THICKNESS.	
		C. REMOVAL OF DETECTABLE WARNING, IF REQUIRED, SHALL BE CONSIDERED INCIDENTAL TO THIS BID ITEM.	
		-	
43	2511-7526004	SIDEWALK, P.C. CONCRETE, 4 IN.	
		A. CERTIFIED PLANT INSPECTION SHALL BE REQUIRED BY CONTRACTOR.	
		B. THICKENED EDGES SHALL BE INCIDENTAL TO THIS ITEM, AND NO ADDITIONAL PAYMENT WILL BE MADE.	
		C. THE CONCRETE REQUIRED FOR SIDEWALK FLARES AT THE CURBLINE SHALL BE CONSIDERED INCIDENTAL TO THIS BID ITEM.	
		D. REINFORCEMENT AT UTILITY STRUCTURES, AS DETAILED ON THE B SHEETS, SHALL BE CONSIDERED INCIDENTAL TO THIS BID ITEM.	
		-	
44	2511-7526006	SIDEWALK, P.C. CONCRETE, 6 IN.	
		A. CERTIFIED PLANT INSPECTION SHALL BE REQUIRED BY CONTRACTOR.	
		B. THICKENED EDGES SHALL BE INCIDENTAL TO THIS ITEM, AND NO ADDITIONAL PAYMENT WILL BE MADE.	
		C. THE CONCRETE REQUIRED FOR SIDEWALK FLARES AT THE CURBLINE SHALL BE CONSIDERED INCIDENTAL TO THIS BID ITEM.	
		-	
45	2511-7528101	DETECTABLE WARNINGS	
		A. ALL DETECTABLE WARNING PANELS INSTALLED SHALL BE CAST IRON AND BRICK RED (FEDERAL # 22144 OR EQUIVALENT), AND SHALL BE ON IOWA DOT'S APPROVED MATERIALS LIST.	
		-	
46	2512-1725206	CURB AND GUTTER, P.C. CONCRETE, 2.0 FT	
		A. CERTIFIED PLANT INSPECTION SHALL BE REQUIRED BY CONTRACTOR.	
		B. ALL JOINTING, AND REINFORCEMENT (IF REQUIRED) SHALL BE CONSIDERED INCIDENTAL TO THIS BID ITEM.	
		-	
47	2512-1725256	CURB AND GUTTER, P.C. CONCRETE, 2.5 FT	
		A. CERTIFIED PLANT INSPECTION SHALL BE REQUIRED BY CONTRACTOR.	
		B. ALL JOINTING, AND REINFORCEMENT (IF REQUIRED) SHALL BE CONSIDERED INCIDENTAL TO THIS BID ITEM.	
		-	
48	2512-1725356	CURB AND GUTTER, P.C. CONCRETE, 3.5 FT	
		A. CERTIFIED PLANT INSPECTION SHALL BE REQUIRED BY CONTRACTOR.	
		B. ALL JOINTING, AND REINFORCEMENT (IF REQUIRED) SHALL BE CONSIDERED INCIDENTAL TO THIS BID ITEM.	
		-	
49	2512-1725406	CURB AND GUTTER, P.C. CONCRETE, 4.0 FT	
		A. CERTIFIED PLANT INSPECTION SHALL BE REQUIRED BY CONTRACTOR.	
		B. ALL JOINTING, AND REINFORCEMENT (IF REQUIRED) SHALL BE CONSIDERED INCIDENTAL TO THIS BID ITEM.	
		-	
50	2515-2475006	DRIVEWAY, P.C. CONCRETE, 6 IN.	
		A. CERTIFIED PLANT INSPECTION SHALL BE REQUIRED BY CONTRACTOR.	
		B. INTEGRAL DRIVEWAY CURB SHALL BE CONSIDERED INCIDENTAL TO THIS BID ITEM. THERE IS AN ESTIMATED 72.3 LF OF INTEGRAL CURB.	
		-	
51	2515-6745600	REMOVAL OF PAVED DRIVEWAY	
		A. ALL REMOVALS TO BE MARKED AND MEASURED BY THE ENGINEER. FULL DEPTH SAW CUTS ALONG THE REMOVAL LIMITS ARE CONSIDERED INCIDENTAL TO THIS ITEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADDITIONAL REMOVAL, EARTHWORK, SUBGRADE PREPARATION, AND MODIFIED SUBBASE DUE TO DAMAGED EDGES. ADDITIONAL REMOVAL TO BE DETERMINED BY THE ENGINEER.	
		B. PAYMENT SHALL BE MADE FOR THE AREA OF PAVEMENT REMOVED, REGARDLESS OF THICKNESS. PAVEMENT IS PCC AND AN ASSUMED 6" THICKNESS.	
		C. CURB REMOVAL, IF REQUIRED, SHALL BE CONSIDERED INCIDENTAL TO THIS BID ITEM.	
		-	
52	2524-6765110	REMOVAL OF TYPE A SIGN	
		A. REFER TO TAB 190-62 ON C SHEETS FOR DETAILS AND P SHEETS FOR LOCATIONS.	
		-	
53	2524-9276010	PERFORATED SQUARE STEEL TUBE POSTS	
54	2524-9276027	PERFORATED SQUARE STEEL TUBE POST ANCHOR, TRIANGULAR SLIP BASE ASSEMBLY	
55	2524-9325001	TYPE A SIGNS, SHEET ALUMINUM	
		A. REFER TO TABS 190-51 AND 190-66 ON C SHEETS FOR DETAILS AND P SHEETS FOR LOCATIONS	

ESTIMATE REFERENCE INFORMATION			100-4A 10-29-02
Item No.	Item Code	Description	
		-	
56	2526-8285010	CONSTRUCTION SURVEY, MONUMENT PRESERVATION	
		-	
57	2526-8285020	CONSTRUCTION SURVEY, CONTROL POINT SURVEY	
		-	
58	2526-8285030	CONSTRUCTION SURVEY, RIGHT OF WAY	
		-	
59	2526-8285040	CONSTRUCTION SURVEY, LOCATION SURVEY	
		A. THE FLOODWAY BOUNDARY SHALL BE CLEARLY MARKED WITH A TEMPORARY BARRIER OR MARKER ALONG IT'S LENGTH. SEE GENERAL NOTES FOR MORE INFORMATION. THIS SHALL BE CONSIDERED INCIDENTAL TO THIS BID ITEM.	
		-	
60	2527-9263143	PAINTED SYMBOLS AND LEGENDS, DURABLE	
61	2527-9263181	PAVEMENT MARKINGS REMOVED	
62	2527-9263217	PAINTED PAVEMENT MARKINGS, DURABLE	
		A. REFER TO TAB 108-22 ON C SHEETS FOR DETAILS AND P SHEETS FOR LOCATIONS.	
63	2527-9263231	REMOVABLE TAPE MARKINGS, WET RETROREFLECTIVE	
64	2527-9270112	GROOVES CUT FOR PAVEMENT MARKINGS	
65	2527-9270120	GROOVES CUT FOR SYMBOLS AND LEGENDS	
		A. REFER TO TAB 108-29 ON C SHEETS FOR DETAILS AND P SHEETS FOR LOCATIONS.	
		-	
66	2528-2518000	SAFETY CLOSURE	
		A. CLOSURE TYPE SHALL BE "ROAD CLOSURE".	
		-	
67	2528-8445110	TRAFFIC CONTROL	
		A. CONTRACTOR SHALL CONSTRUCT ALL DRIVEWAYS AND ENTRANCES TO MAINTAIN 2-WAY TRAFFIC AT ALL TIMES, UNLESS A SECONDARY ENTRANCE IS AVAILABLE. CONTRACTOR TO MAINTAIN ACCESS TO ALL BUSINESS, ORGANIZATIONS, AND RESIDENTS DURING CONSTRUCTION. TEMPORARY PAVEMENT OR OTHER TEMPORARY MEASURES MAY BE NEEDED TO KEEP ACCESS OPEN AT ALL TIMES, THESE MEASURES SHALL BE CONSIDERED INCIDENTAL TO THIS BID ITEM. CONTRACTOR TO COORDINATE DRIVEWAY ACCESS CHANGES WITH PROPERTY OWNERS, A MINIMUM OF 7 DAYS ADVANCED NOTICE BEFORE DRIVEWAY ACCESS CHANGES, WILL BE REQUIRED.	
		B. IF NO TRAIL WORK IS PERFORMED FOR A PERIOD OF ONE CALENDAR WEEK, THE CONTRACTOR SHALL REOPEN ALL TRAFFIC LANES PREVIOUSLY CLOSED FOR CONSTRUCTION ACTIVITIES. LANE CLOSURES SHALL NOT BE MAINTAINED DURING PERIODS OF INACTIVE WORK. REMOVAL AND REINSTALLATION OF TEMPORARY TRAFFIC CONTROL REQUIRED TO REOPEN AND SUBSEQUENTLY REESTABLISH THE LANE CLOSURE SHALL BE AT NO ADDITIONAL COST.	
		-	
68	2528-9290050	PORTABLE DYNAMIC MESSAGE SIGN (PDMS)	
		-	
69	2533-4980005	MOBILIZATION	
		A. WITHIN EASEMENT LIMITS CONTRACTOR TO RESTORE AREAS DISTURBED FOR ACCESS OR STAGING TO BACK TO EXISTING CONDITION. THIS SHALL BE CONSIDERED INCIDENTAL TO THIS BID ITEM.	
		-	
70	2548-0000200	MILLED SHOULDER RUMBLE STRIPS, PCC SURFACE	
		-	
71	2599-9999005	HANDHOLE	
		A. REFER TO SPECIAL PROVISIONS FOR DETAILS.	
		-	
72	2599-9999005	INLINE DRAIN, PVC, 8 IN.	
		A. REFER TO SPECIAL PROVISIONS FOR DETAILS.	
		-	
73	2599-9999005	RECTANGULAR RAPID FLASHING BEACON (RRFB) ASSEMBLY	
		A. REFER TO SPECIAL PROVISIONS FOR DETAILS.	
		-	
74	2599-9999005	RELOCATION OF HANDHOLE	
		A. REFER TO SPECIAL PROVISIONS FOR DETAILS.	
		-	
75	2599-9999005	UTILITY CROSSING REINFORCEMENT	
		A. REFER TO UTILITY CROSSING REINFORCEMENT DETAIL ON SHEET B.3 FOR REQUIRED MATERIALS AND OTHER DETAILS.	
		B. METHOD OF MEASUREMENT: EACH LOCATION OF REINFORCEMENT INSTALLED WILL BE COUNTED.	
		C. BASIS OF PAYMENT: PAYMENT WILL BE MADE AT THE CONTRACT UNIT PRICE FOR EACH LOCATION OF REINFORCEMENT.	
		D. UNIT PRICE INCLUDES, BUT IS NOT LIMITED TO, REINFORCEMENT BAR MAT AT PLAN DESIGNATED SIZE AND SPACING, TIES, AND SUPPORTS.	
		-	
76	2599-9999005	VALVE BOX ADJUSTMENT, WATER MAIN	
		A. REFER TO SPECIAL PROVISIONS FOR DETAILS.	
		-	
77	2599-9999005	VALVE BOX ADJUSTMENT, WATER SERVICE	
		A. REFER TO SPECIAL PROVISIONS FOR DETAILS.	
		-	
78	2599-9999005	WATER SERVICE STUB, TYPE K, 1 IN., TRENCHED	
		A. REFER TO SPECIAL PROVISIONS FOR DETAILS.	
		-	
79	2599-9999009	CONDUIT, TRENCHED	
		A. REFER TO SPECIAL PROVISIONS FOR DETAILS.	
		-	
80	2599-9999009	SAFETY RAIL	
		A. SEE DETAIL SHEETS. SAFETY RAIL SHALL BE POWDER COATED BLACK.	
		B. REFER TO SPECIAL PROVISIONS FOR DETAILS.	
		-	
81	2599-9999009	TACTILE DIRECTIONAL INDICATOR	
		A. REFER TO SPECIAL PROVISIONS FOR DETAILS.	
		-	
82	2601-2639010	SODDING	

100-4A
10-29-02

ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
		-
83	2601-2643110	WATERING FOR SOD, SPECIAL DITCH CONTROL, OR SLOPE PROTECTION A. QUANTITY HAS BEEN INCLUDED TO WATER SOD 6 TIMES, AT 75 GALLONS OF WATER PER SQUARE.
		-
84	2601-2643300	MOBILIZATION FOR WATERING
		-
85	2602-0000020	SILT FENCE A. REFER TO TAB. 100-17. THE TABULATION INCLUDES ESTIMATED LOCATIONS FOR PLACEMENT OF SILT FENCE TO ADDRESS POSSIBLE EROSION DURING CONSTRUCTION. VERIFY THE SPECIFIC LOCATIONS WITH THE ENGINEER PRIOR TO BEGINNING PLACEMENT. BID ITEM INCLUDES TAB QUANTITY FOR THE PAVING PROJECT FOR NEW LOCATIONS AND 10% OF THE ORIGINAL TAB QUANTITY FOR THE GRADING PROJECT FOR FIELD ADJUSTMENTS AND REPLACEMENTS.
		-
86	2602-0000071	REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS A. THIS ITEM IS INCLUDED FOR SILT FENCE AND SILT FENCE FOR DITCH CHECK REMOVAL REQUIRED FOR STAGING REASONS, FOR REPLACEMENT (REPLACEMENT TO BE PAID SEPARATELY), OR FOR AREAS THAT HAVE ACHIEVED 70% PERMANENT GROWTH.
		-
87	2602-0000101	MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECK A. THIS ITEM IS INCLUDED FOR FOR MAINTAINING THE NEW SILT FENCE AND SILT FENCE DITCH CHECKS INSTALLED FOR THE PAVING PROJECT AND EXISTING SILT FENCE AND SILT FENCE FOR DITCH CHECKS INSTALLED AS PART OF THE GRADING PROJECT.
		-
88	2602-0000150	STABILIZED CONSTRUCTION ENTRANCE, EC-303 A. IT IS ASSUMED THAT THREE STABILIZED ENTRANCES WILL BE REQUIRED THROUGHOUT THE DURATION OF THE PROJECT.
		-
89	2602-0000309	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 9 IN. DIA. A. REFER TO TAB. 100-19. INCLUDES ESTIMATED LOCATIONS TO ADDRESS EROSION ENCOUNTERED DURING CONSTRUCTION.
		-
90	2602-0000351	REMOVAL OF PERIMETER AND SLOPE OR DITCH CHECK SEDIMENT CONTROL DEVICE A. THIS ITEM IS INCLUDED FOR REMOVAL REQUIRED DUE TO STAGING, REPLACEMENT (REPLACEMENT TO BE PAID SEPARATELY), OR FOR AREAS THAT HAVE ACHIEVED 70% PERMANENT GROWTH.
		-
91	2602-0010010	MOBILIZATIONS, EROSION CONTROL
		-

104-10
08-01-08

ADJUSTMENT OF FIXTURES

No.	Location Station	Type of Fixture	Adjustment
1	0+51.27	STORM INTAKE	MINOR
2	3+10.28	SANITARY MANHOLE	MAJOR
3	3+49.24	SANITARY MANHOLE	MAJOR
4	7+86.49	SANITARY MANHOLE	MAJOR
5	10+95.39	SANITARY MANHOLE	MINOR
6	24+41.64	SANITARY MANHOLE	MINOR
7	9+65.19	VALVE BOX ADJUSTMENT	WATER MAIN, MINOR
8	11+11.61	VALVE BOX ADJUSTMENT	WATER MAIN, MINOR
9	17+79.23	VALVE BOX ADJUSTMENT	WATER MAIN, MINOR
10	30+88.96	VALVE BOX ADJUSTMENT	WATER SERVICE, MINOR
11	37+95.84	VALVE BOX ADJUSTMENT	WATER MAIN, MINOR
12	37+97.38	VALVE BOX ADJUSTMENT	WATER MAIN, MINOR

110-15
04-16-13

REMOVAL OF INTAKES AND UTILITY ACCESSES

No.	Location/Description	Type	Remarks
1	STA 27+63.23, 8.33' R	Intakes	CIRCULAR STORM SEWER INTAKE WITH CONCRETE ENCASEMENT
2	STA 36+07.31, 0.09' L	Intakes	SW-509
3	STA 37+61.44, 3.38' R	Utilities	MANHOLE, SW-402
4	STA 37+68.21, 12.27' R	Intakes	SW-507
5	STA 38+01.33, 16.22' R	Intakes	SW-501

110-14
04-16-13

SANITARY OR STORM SEWER ABANDONMENT OR REMOVAL

* Not a bid item

Location/Description	Sanitary or Storm Sewer	Abandonment, Plug Only or Abandonment, Plug and Fill or Removal	Length of Pipe		Fill Material*	Remarks
			≤ 36 inch diameter	> 36 inch diameter		
			LF	LF	CY	
FROM STA 27+63.25, 26.26' R TO STA 27+63.25, 8.33' R	Storm Sewer	Removal	18			36" CMP
FROM STA 27+63.24, 1.67' L TO STA 27+63.23, 8.33' R	Storm Sewer	Removal	10			24" RCP
FROM STA 36+07.31, 0.09' L TO STA 37+61.44, 3.38' R	Storm Sewer	Removal	154			15" RCP
FROM STA 37+61.44, 3.38' R TO STA 37+68.21, 12.27' R	Storm Sewer	Removal	12			15" RCP
FROM STA 37+68.21, 12.27' R TO STA 38+01.33, 16.22' R	Storm Sewer	Removal	39			10" HDPE
FROM STA 36+01.09, 7.99' L TO STA 36+07.31, 0.09' L	Storm Sewer	Removal	10			15" RCP
FROM STA 37+61.44, 3.38' R TO STA 37+62.19, 2.68' L	Storm Sewer	Removal	6			15" RCP
FROM STA 37+61.44, 3.38' R TO STA 37+61.65, 21.73' R	Storm Sewer	Removal	19			18" RCP
		Total	268			

110-08
04-17-18

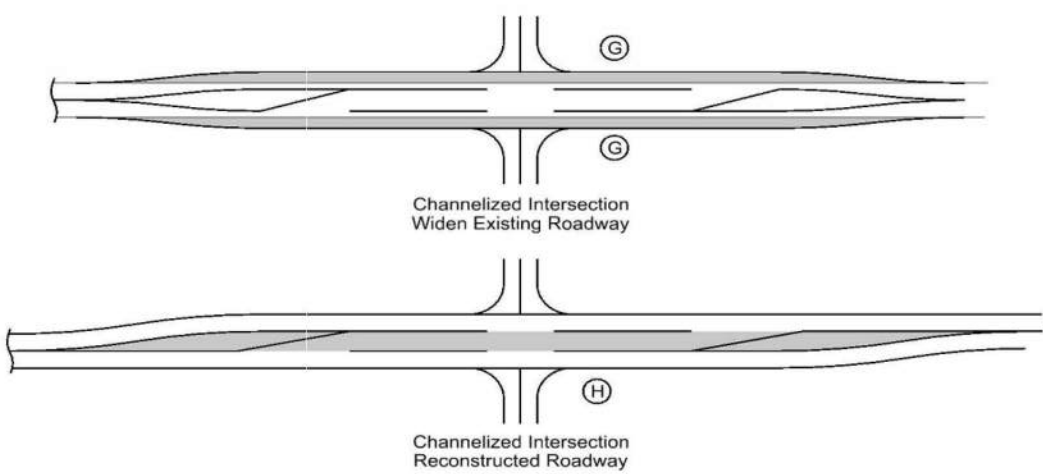
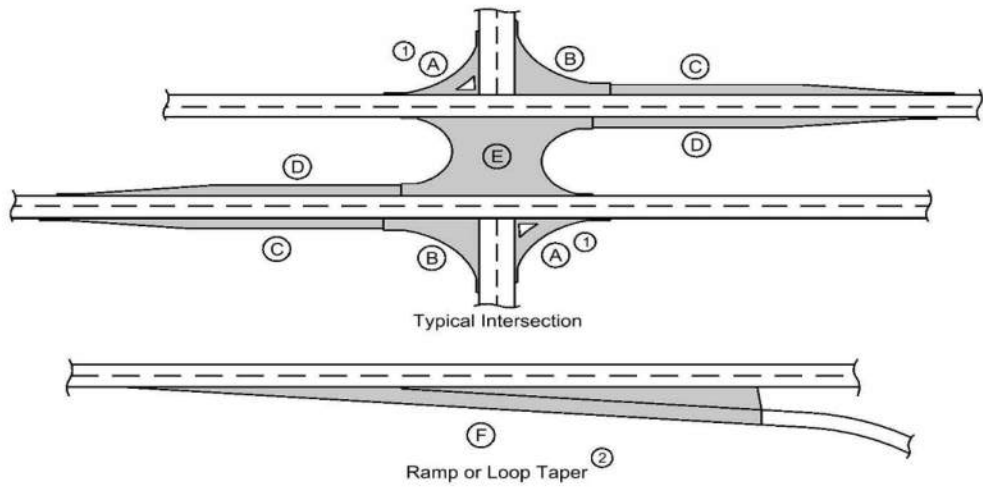
REMOVAL OF CONCRETE DRIVES

* Not a Bid Item

Location		Area	Saw Cut*	Remarks
Station	Side	SY	LF	
29+10.94	L/R	121.0	103.8	1501 F AVE NW, ASSUME 6" THICK
36+99.01	L/R	21.0	10.0	1305 F AVE NW, ASSUME 6" THICK

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PCC PAVEMENT



- ① Does not include raised island area or curb. Refer to tabulation 112-4 for quantities.
② Refer to PV-410, PV-411, PV-412, and PV-414.
③ Quantity includes Pavement Header.

Location				Mainline			Area ③								Total Area By Pavement Thickness		Special Backfill	Modified Subbase	Granular Subbase	Remarks
Road Identification	Direction of Travel	Station to Station		Width	Length	Area	① A	B	C	D	E	② F	G	H						
							FT	FT	SY	SY	SY	SY	SY	SY	SY	SY	SY	10 IN	10% IN	
Cherokee Trail	WB	0+83.87	1+48.91	VARIES		47.0												63.6	F Ave WB Approach at Westwood Dr NW	
Cherokee Trail	EB	10+10.98	11+49.77	VARIES		325.9												393.5	19th St NW	
Cherokee Trail	EB	18+08.50	18+58.30	VARIES		22.7												35.2	F Ave EB at 18th St NW	
Cherokee Trail	WB	18+33.39	19+07.55	VARIES		66.5												85.4	F Ave WB at 18th St NW	
Cherokee Trail	WB	28+29.35	28+61.35	VARIES		34.8												45.2	F Ave WB at 16th St NW	
Cherokee Trail	EB	31+77.20	32+93.61	VARIES		165.8												226.7	15th St NW	
Cherokee Trail	EB	36+17.06	36+37.27	12.4	20.5	27.7												31.4	F Ave NW Patch	
Cherokee Trail	EB	37+55.34	38+41.13	VARIES		168.4												195.2	13th St NW	
Cherokee Trail	WB	37+94.06	38+00.15	VARIES		6.7												10.5	F Ave NW & 13th St NW NE Quad	
					TOTAL:	865.5														
Cherokee Trail	EB	28+81.37	29+40.10	30.0	28.0	110.2											21.6		1501 F Ave Driveway	
Cherokee Trail	EB	36+94.01	37+04.01	10.0	25.0	30.2											4.4		1305 F Ave Driveway	
					TOTAL:	140.4														

REMOVAL OF PAVEMENT

Refer to Tabulation 102-5

* Not a Bid Item

Begin Station	End Station	Side	Pavement Type	Area	Saw Cut*	Remarks
				SY	LF	
0+48.19	1+48.90	L	PCC WITH HMA OVERLAY	119.2	138.4	ASSUME 11" OF PAVEMENT
0+69.06	10+09.35	L	PCC WITH HMA OVERLAY	122.6	987.7	ASSUME 11" OF PAVEMENT
10+09.35	11+32.94	L/R	PCC WITH HMA OVERLAY	473.5	164.9	ASSUME 11" OF PAVEMENT, 19TH ST NW
11+32.94	28+76.19	L	PCC WITH HMA OVERLAY	323.5	1747.8	ASSUME 11" OF PAVEMENT
18+06.90	19+07.55	L	PCC WITH HMA OVERLAY	13.4	109.9	ASSUME 11" OF PAVEMENT
27+89.50	28+61.33	L	PCC WITH HMA OVERLAY	30.8	96.8	ASSUME 11" OF PAVEMENT, 16TH ST NW
29+45.00	31+77.20	L	PCC WITH HMA OVERLAY	12.8	230.5	ASSUME 11" OF PAVEMENT
31+77.20	32+85.82	R	PCC WITH HMA OVERLAY	191.7	138.7	ASSUME 11" OF PAVEMENT, 15TH ST NW
32+85.82	38+41.13	L/R	PCC WITH HMA OVERLAY	722.6	538.4	ASSUME 11" OF PAVEMENT, F AVE TURN LANE / 13TH ST NW
36+17.06	36+37.27	L	PCC WITH HMA OVERLAY	27.6	45.0	ASSUME 11" OF PAVEMENT, F AVE PATCH
37+51.06	37+71.86	L	PCC WITH HMA OVERLAY	7.3	38.6	ASSUME 11" OF PAVEMENT, 13TH ST NW
37+94.05	38+21.44	L	PCC WITH HMA OVERLAY	15.0	55.8	ASSUME 11" OF PAVEMENT, 13TH ST NW
				2059.9	4292.5	

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113-1A

04-16-19

SIDEWALKS

See MI-220 and S Sheets

The diagram illustrates a sidewalk cross-section. A vertical line on the left is labeled 'Back of Curb'. A vertical line on the right is labeled 'Face of Sidewalk'. The distance between these two lines is labeled 'A' and is circled. The width of the sidewalk from the 'Face of Sidewalk' to the right edge is labeled 'B' and is circled. The slope of the sidewalk is labeled 'S' and is circled. A dashed line indicates the ground level on the left, and a solid line indicates the sidewalk surface. A small arrow points to the right, indicating the direction of travel.

Road Identification	Station to Station	Side	(A)	(B)	(S)	4" PCC Sidewalk	6" PCC Trail	6" PCC Sidewalk	10" PCC Sidewalk	Detectable Warnings	Remarks
			FT	FT	%	SY	SY	SY	SY	SF	
Cherokee Trail	0+64.39	0+78.83	L	~6'	5.00	10.00%	39.9				
Cherokee Trail	0+78.83	0+83.83	L		5.00				4.1	10	
Cherokee Trail	0+79.11	0+84.11	L		5.00				2.1	10	
Cherokee Trail	0+47.61	10+55.73	L/R	~8'	10.00	2.5-8%		1209.1		57	
Cherokee Trail	11+08.80	28+96.21	L/R	~8'	10.00	2.5-8%		1987.7		26	
Cherokee Trail	18+22.74	18+31.30	L	~16'	5.00		22.5				
Cherokee Trail	18+26.87	18+28.36	L		5.00				8.0	10	
Cherokee Trail	18+28.45	18+33.45	L		5.00				5.6	10	
Cherokee Trail	28+45.25	28+50.25	L		5.00				8.0	10	

113-1A
04-16-19

SIDEWALKS
See MI-220 and S Sheets

Road Identification	Station to Station		Side	(A)	(B)	(S)	4" PCC Sidewalk	6" PCC Trail	6" PCC Sidewalk	10" PCC Sidewalk	Detectable Warnings	Remarks
				FT	FT	%	SY	SY	SY	SY	SF	
Cherokee Trail	28+45.96	28+50.96	L		5.00				4.1		10	
Cherokee Trail	29+25.34	32+27.01	L/R	~7'	10.00	10-16.67%		333.3			27	
Cherokee Trail	32+63.42	36+94.01	L/R	~6'	10.00	1.5-5%		478.9			26	
Cherokee Trail	33+98.88	34+45.16	R		5.00		24.6					
Cherokee Trail	34+64.48	34+85.20	R				5.5					
Cherokee Trail	35+17.86	35+21.21	R		3.35		5.4					
Cherokee Trail	35+60.87	35+64.44	R		3.57		8.0					
Cherokee Trail	36+50.72	36+53.78	R		3.06		3.9					
Cherokee Trail	36+75.98	36+79.84	R		3.86		3.3					
Cherokee Trail	37+04.02	37+70.38	L/R		10.00	1.50%		74.5			20	
Cherokee Trail	37+29.75	37+33.49	R		3.74		3.5					
Cherokee Trail	37+56.50	37+61.50	L		5.00				4.7		10	
Cherokee Trail	37+58.99	37+63.99	R		5.00		10.5					
Cherokee Trail	37+36.31	37+69.70	L		5.00		20.3					
Cherokee Trail	37+56.50	37+69.59	L		5.00				13.9		21	
Cherokee Trail	38+02.28	38+37.21	L/R	~4'	6' / 10'			35.5			20	12 LF OF TDI'S
Cherokee Trail	38+09.22	38+14.22	L		5.00				2.3		10	
Cherokee Trail	38+09.49	38+28.80	R		5.00		19.2					
Cherokee Trail	38+00.99	38+12.94	L		5.00				17.1		20	
Cherokee Trail	38+07.94	38+22.55	L		5.00		10.3					
Cherokee Trail						TOTAL :	176.9	4118.9	69.8		297	

110-5 10-20-15				
SIDEWALK REMOVAL				
* Not a bid item				
Begin Station	End Station	Area	Saw Cut*	Remarks
		SY	LF	
0+64.00	0+65.65	5.3		ASSUME 4" THICK PCC
28+45.17	28+50.16	2.5	5.0	ASSUME 4" THICK PCC
32+77.61	32+85.95	3.7	15.4	ASSUME 4" THICK PCC
32+78.17	34+35.12	73.6		ASSUME 4" THICK PCC
33+77.84	36+94.31	161.1	38.9	ASSUME 4" THICK PCC
37+04.35	37+65.29	41.1	8.5	ASSUME 4" THICK PCC
37+36.31	37+69.59	36.8	11.3	ASSUME 4" THICK PCC
38+01.05	38+22.55	27.6	8.8	ASSUME 4" THICK PCC
38+02.15	38+28.48	34.1	9.0	ASSUME 4" THICK PCC

PERIMETER, SLOPE AND DITCH CHECK SEDIMENT CONTROL DEVICES								
Possible Standards: EC-204								
Location			Perimeter and Slope			Ditch Check		Remarks
Begin Station	End Station	Side	Length of Installation			Length of Installation		
			9 inch Dia	12 inch Dia	20 inch Dia	12 inch Dia	20 inch Dia	
			LF	LF	LF	LF	LF	
0+58.27	0+78.67	LT	88					
0+54.75	10+47.68	LT	989					
11+19.5	18+27.76	LT	709					
18+06.50	18+27.10	LT	60					
18+34.34	28+44.92	LT	1011					
27+89.83	28+53.47	LT	59					
28+51.62	28+92.00	LT	41					
29+32.05	32+14.36	LT	282					
32+74.00	35+04.42	LT	232					
34+03.59	37+58.39	RT	348					
35+19.15	36+90.01	LT	172					
37+06.61	37+55.34	LT	49					
37+34.75	38+26.10	LT	100					
37+69.67	38+51.75	RT	56					
	18+07.51	LT	15					Existing Intake
	29+46.58	LT	15					Proposed SW-509
	29+46.71	RT	10					Proposed SW-512
	32+28.09	RT	15					Proposed SW-507
	34+50.35	RT	10					Proposed PVC Area Intake
	35+11.28	LT	15					Proposed SW-509
	36+47.66	RT	10					Proposed SW-512
	36+74.07	RT	10					Proposed SW-512
	36+91.33	RT	10					Proposed SW-512
	37+69.15	RT	15					Proposed SW-507
	38+03.45	RT	15					Proposed SW-501
	37+70.99	LT	15					Existing Intake
	37+99.96	LT	15					Existing Intake
		Total	4366					

TABULATION OF SILT FENCES				
Refer to EC-201				
Begin Station	Location		Length	Remarks
	End Station	Side	LF	
0+61.77	2+81.62	RT	223.0	
0+69.32	1+49.12	LT	109.0	
2+64.48	4+80.85	RT	222.0	
4+62.22	6+77.40	RT	221.0	
6+61.98	8+78.11	RT	220.0	
8+62.34	10+58.64	RT	214.0	
11+06.77	13+44.93	RT	264.0	
13+24.51	15+42.35	RT	220.0	
15+26.78	17+44.95	RT	220.0	
17+29.07	19+46.78	RT	221.0	
19+30.58	21+48.55	RT	220.0	
21+30.90	23+50.54	RT	220.0	
23+31.34	25+51.76	RT	221.0	
25+31.98	27+50.73	RT	221.0	
27+32.10	28+81.93	RT	150.0	
29+32.18	31+47.40	RT	220.0	
31+30.13	32+28.73	RT	112.0	
32+64.18	33+98.63	RT	144.0	
		TOTAL:	3642.0	

SUMMARY OF TYPE 'A' SIGNS			
Sign Number	Quantity	Size	Total Sign Area
	EACH	IN	SF
CHEROKEE TRAIL	2	24 X 16	5.3
D11-1a	1	18 X 18	2.3
F AVE	2	42 X 12	7.0
M6-1P	2	12 X 9	1.5
M6-2P	1	12 X 9	0.8
R1-1	1	36 X 36	9.0
R2-1	1	30 X 36	7.5
R8-3mod	1	24 X 36	6.0
R9-20	1	30 X 30	6.3
S1-1	1	36 X 36	9.0
W11-2	2	36 X 36	18.0
W3-1	1	36 X 36	9.0
W16-9P	3	24 X 12	6.0
13TH ST	2	42 X 12	7.0
		TOTAL:	94.7

112-4

10-21-14

CURBS AND RAISED ISLANDS

Refer to , , and Detail Series.

1 Item

Point No.	Station	Offset	Island Interior	Curb and Gutter			Remarks
			Area 1 SY	Curb Type	Gutter Width FT	Length 1 LF	
	0+53.48	74.5' L		6" Standard PCC	3.0	58.8	
	0+43.91	14.6' R		6" Standard PCC	3.5	57.3	
	18+09.34	52.99' L		6" Standard PCC	3.0	27.5	
	28+25.98	10.04' L		6" Standard PCC	2.0	55.5	
	29+40.13	11.19' L		6" Standard PCC	2.0	235.2	
	32+93.59	12.92' L		6" Standard PCC	1.5	396.5	
	32+77.61	48.33' L		6" Standard PCC	1.5	8.0	
	36+90.88	11.8' L		2" Driveway Drop PCC	2.0	16.3	
	37+07.05	11.82' L		6" Standard PCC	1.5	48.5	
	37+51.13	47.29' L		6" Standard PCC	1.5	31.4	
	38+00.47	66.21' L		6" Standard PCC	1.5	38.6	

[illegible]

PAVEMENT MARKING LINE TYPES

See PM-110

*BCY4 - Place on the same side of the roadway to match existing markings near the project.

***MNY4 - Factor of 1.00 as value includes number of 4-inch passes to cover median nose area.

**NPY4 - For estimating purposes only. No Passing Zone Lines will be located in the field.

BCY4: Broken Centerline (Yellow) @ 0.17 DCY4: Double Centerline (Yellow) @ 2.00 NPY4: No Passing Zone Line (Yellow) @ 1.25 BLW4: Broken Lane Line (White) @ 0.25 ELW4: Edge Line Right (White) @ 0.67
ELY4: Edge Line Left (Yellow) @ 1.00 DLY4: Dotted Line (Yellow) @ 0.22

Location				Length by Line Type (Unfactored)																		Remarks	
Road ID	Station to Station		Dir. of Travel	Marking Type	Side			BCY4*	DCY4	NPY4**	BLW4	ELW4	ELY4	DLY4									
					L	C	R																
	+89.58	10+30.79	WB	Durable Paint			X			9.41													
	+89.58	10+30.79	BOTH	Durable Paint	X				9.41														
	+89.58	10+30.79	EB	Durable Paint			X			9.41													
	11+32.47	17+41.81	WB	Durable Paint			X			6.09													
	11+32.47	17+41.81	BOTH	Durable Paint	X				6.09														
	11+32.47	28+40.32	EB	Durable Paint			X			17.08													
	18+39.37	26+31.65	WB	Durable Paint			X			7.92													
	18+39.37	28+40.32	BOTH	Durable Paint	X				10.01														
	27+12.44	28+40.32	WB	Durable Paint			X			1.28													
	29+09.05	32+57.45	WB	Durable Paint			X			3.48													
	29+09.05	32+00.66	BOTH	Durable Paint	X				2.92														
Stop Bar	32+91.03	37+48.67	BOTH	Durable Paint	X				4.58														
	37+50.60	37+50.60	EB	Durable Paint		X					0.12												
	38+19.07	38+19.07	WB	Durable Paint		X					0.13												
Crosswalks																							
	0+81.44	0+81.44	BOTH	Durable Paint	X	X	X	0.31															
	18+30.87	18+30.87	BOTH	Durable Paint	X	X	X	0.31															
	28+48.15	28+48.15	BOTH	Durable Paint	X	X	X	0.36															
	37+58.45	37+58.45	BOTH	Durable Paint	X	X	X	0.40															
	38+11.56	38+11.56	BOTH	Durable Paint	X	X	X	0.36															
Staging																							
	32+58.45	37+58.86	EB	Wet Retroreflective Removable Tape		X							5.00										
	37+98.37	38+43.80	EB	Wet Retroreflective Removable Tape		X							0.45										
	+55.32	3+10.74	WB	Wet Retroreflective Removable Tape			X					2.55											
	+55.44	3+11.02	WB	Wet Retroreflective Removable Tape		X							2.56										
	16+46.41	20+55.94	WB	Wet Retroreflective Removable Tape			X						3.69										
	18+01.79	20+55.44	WB	Wet Retroreflective Removable Tape			X					2.56											
	26+64.85	30+15.69	WB	Wet Retroreflective Removable Tape		X							3.09										
	27+12.44	30+15.41	WB	Wet Retroreflective Removable Tape			X					2.61											
				FACTORED TOTAL: Durable Paint				26.10	8.25	54.67	1.50												
				FACTORED TOTAL: Wet Retroflective Removable Tape								7.72	14.79										
				Bid Quantity: Painted Pavement Markings, Durable						90.52													
				Bid Quantity: Groove Cut for Pavement Markings						90.52													
				Bid Quantity:Pavement Markings Removed						1.86													
				Quantity: Wet Retroflective Removable Tape Marki								7.72	14.79										

PAVEMENT MARKING SYMBOLS AND LEGENDS

Refer to PM-111

Road Identification	Location																								Groove Cuts	Remarks
	Station	Side																								
			STAW	RTAW	LTAW	CSRW	CSLW	CSTW	CRLW	FERW	LLRW	RLRW	RRCW	BLSW	WCSW	SHSW	SCLW	XNGW	STPW	AHDW	ONLW	BIKW	LANW	XITW	EACH	
	38+75.1	L														1									1	
	38+75.1	R														1									1	
	TOTAL			2																						
	GROOVE CUTS			2																						

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MATERIALS FOR TYPE 'A' SIGNS

TYPE A SIGNING TYPICALS	SIGN NUMBER	DIR OF TRAVEL	SIGN LOCATION	WOOD POSTS			PERFORATED SQUARE STEEL TUBE						Steel Rect. Tube			TYPE A SIGN MOUNTING BRACKETS						INSTALLATION			REMARKS	
				NO. OF POSTS	4 x 6								NO. OF POSTS	POST LENGTH	ANCHORS							TYPE	DIM 'X' FT	SEE SIGNING NOTES		
			LEG 1		LEG 2	LEG 1																				LEG 2
			STATION		FT	FT	FT	FT	FT	CONC	SOIL	SLIPBASE				FT	EACH	ONE POST BRACKET	TWO POST	AUXILIARY	H					F
F AVE	W11-2	E	0+00					12					1										1	5		
	W16-9P	E	0+00																				1	5		
	R8-3mod	W	28+50																				1	5	LIGHT POLE	
	W11-2	W	30+64.5					12					1										1	5		
	W16-9P	W	30+64.5																							
	W3-1	E	33+12.9					12					1										1	5		
	R2-1	E	33+63.2					12					1										1	5		
	S1-1	E	36+41.2					12					1										1	5		
	W16-9P	E	36+41.2																							
	F AVE	E	37+51.8					16					1										1	5		
	F AVE	E	37+51.8																							
	13TH ST	E	37+51.8																							
	13TH ST	E	37+51.8																							
	R1-1	E	37+51.8																							
	D11-1A	E	38+25.4					12					1										1	15		
	M6-2P	E	38+25.4																							
	CHEROKEE TRAIL	S	38+25.4																							
	M6-1P	S	38+25.4																							
	R9-20	E	38+75.5					12					1										1	5		
	CHEROKEE TRAIL	W	38+87.0					12					1										1	5		
	M6-1P	W	38+87.0																							

MILLED RUMBLE STRIPS

See PV-12 and PV-13

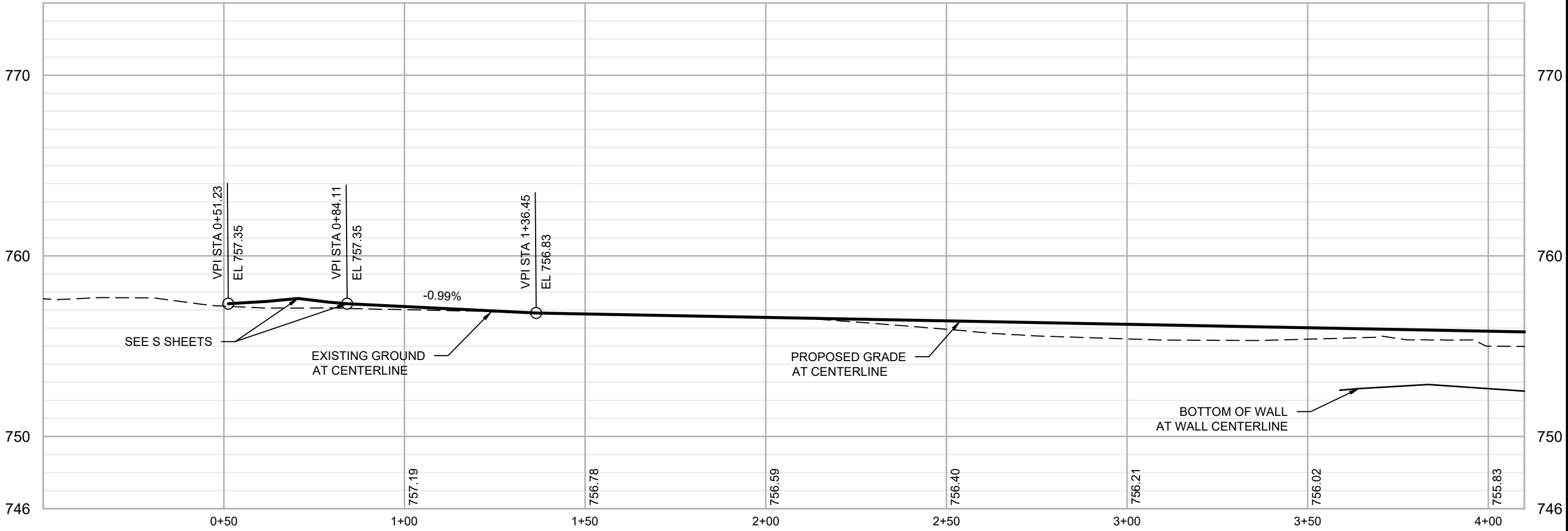
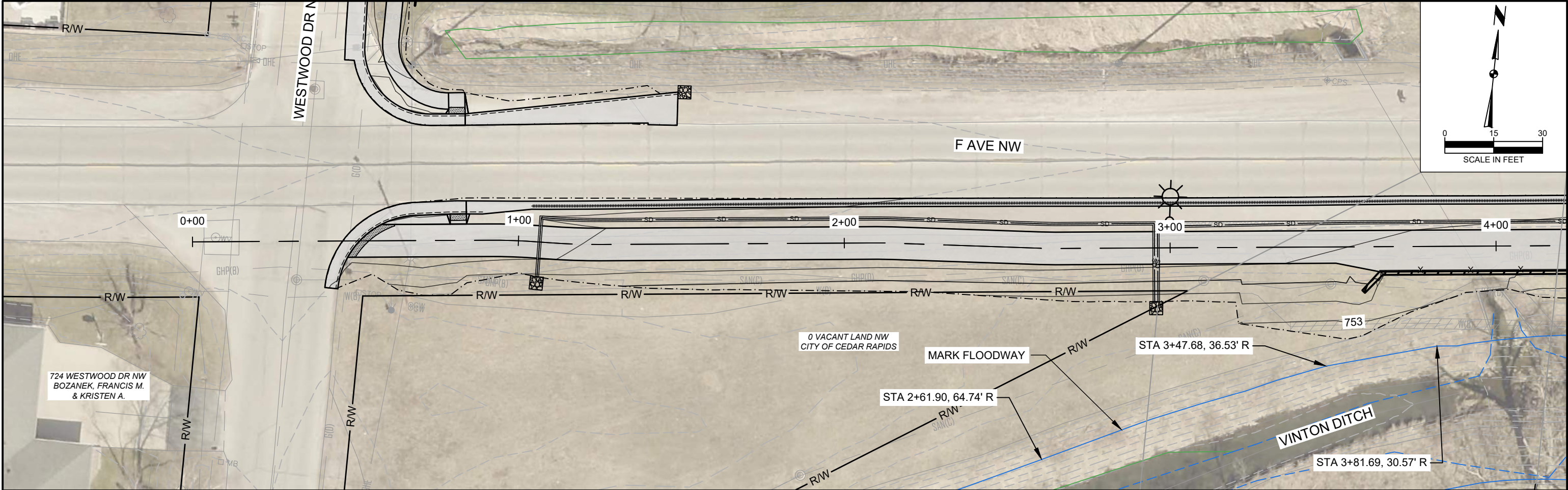
* Calculated at 18" width for Shoulder.

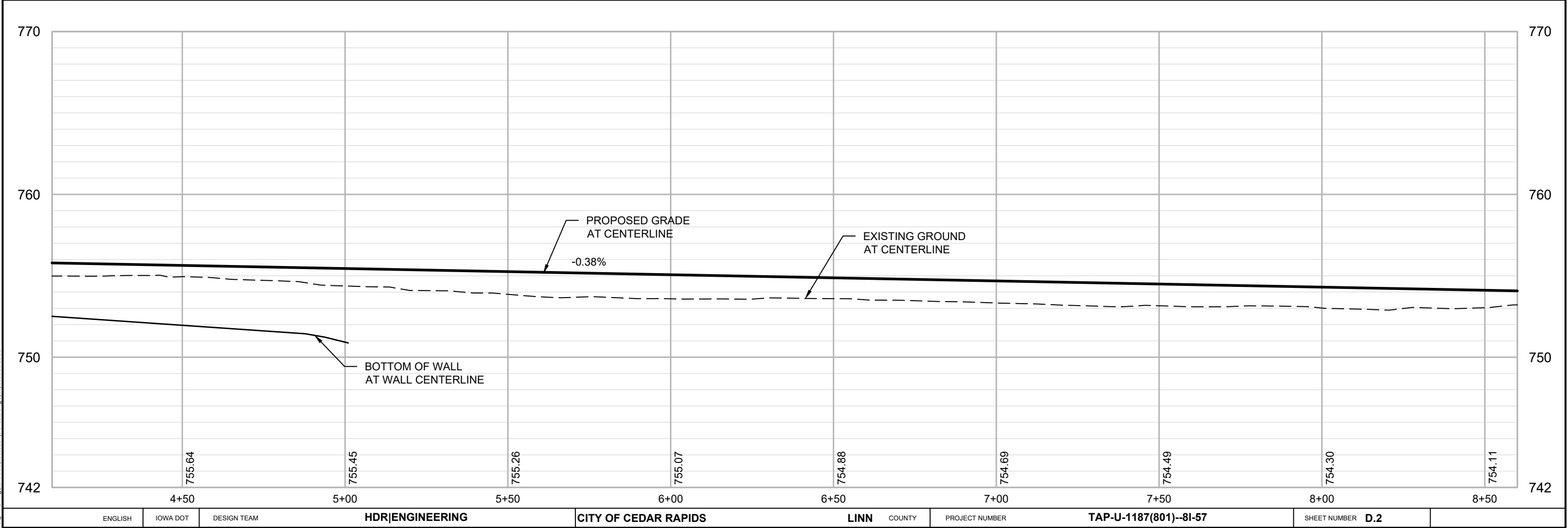
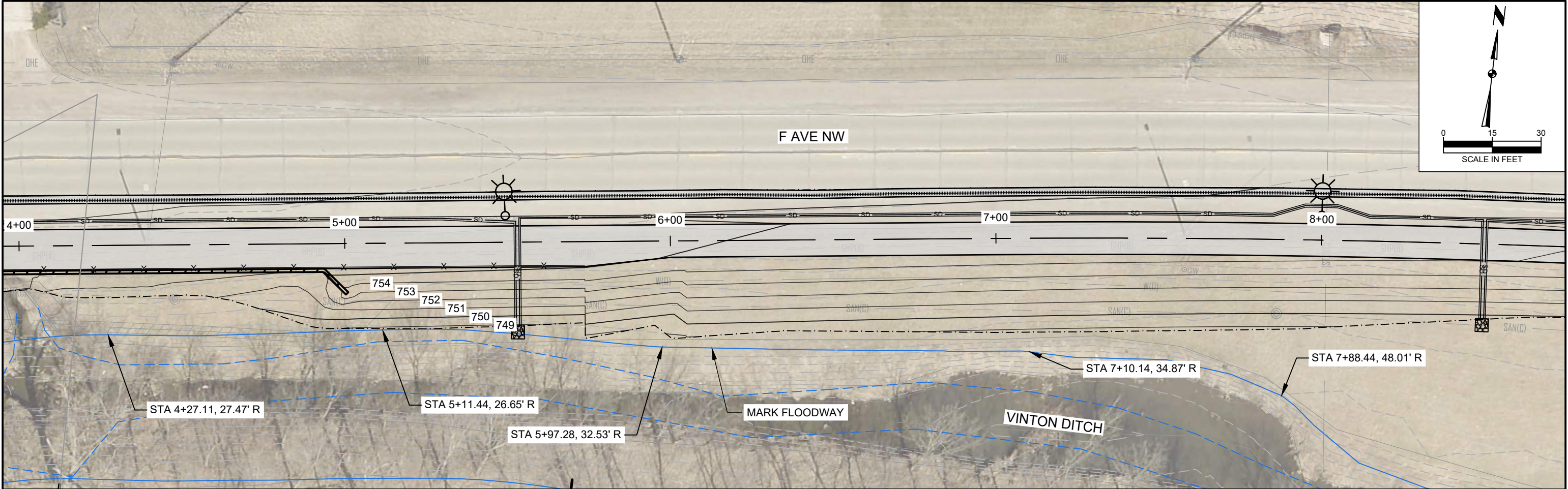
Road Identification	Station to Station		Location					Fog Seal* (Milled Rumble Strip)	Effective Shoulder Width			Remarks
			Shoulder Pavement Type	Rumble Strip Type (Centerline, Rt or Lt Shoulder)		Installation Length			PCC Paved	HMA Paved	Granular\ Earth	
						PCC	HMA					
						Shoulder						
						IN	STA					
CHEROKEE TRAIL	1+03.41	10+10.92	PCC	Right Shoulder	12"	9.08		0.0	1.0			
CHEROKEE TRAIL	11+49.81	18+08.50	PCC	Right Shoulder	12"	6.59		0.0	1.0			
CHEROKEE TRAIL	18+58.32	28+26.01	PCC	Right Shoulder	12"	9.68		0.0	1.0			

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* Bid Item
** For SW-545

FILE NO.	ENGLISH	DESIGN TEAM	HDR ENGINEERING	LINN COUNTY	PROJECT NUMBER	TAP-U-1187(801)--8I-57	SHEET NUMBER	C.12
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ENGLISH

IOWA DOT

DESIGN TEAM

HDR|ENGINEERING

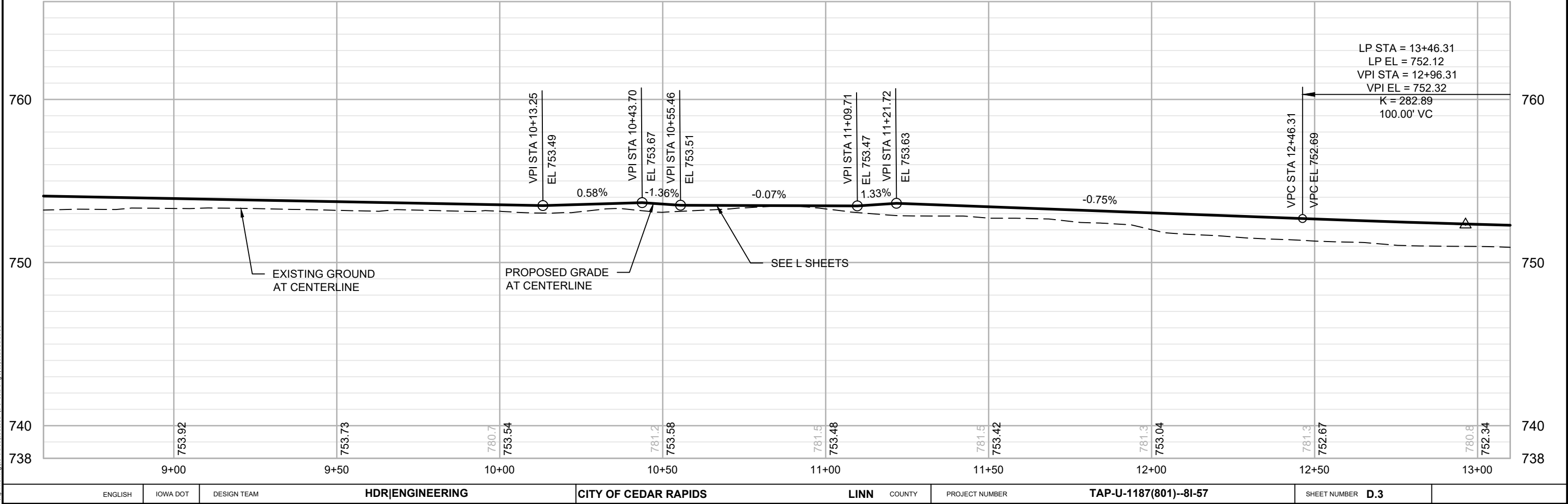
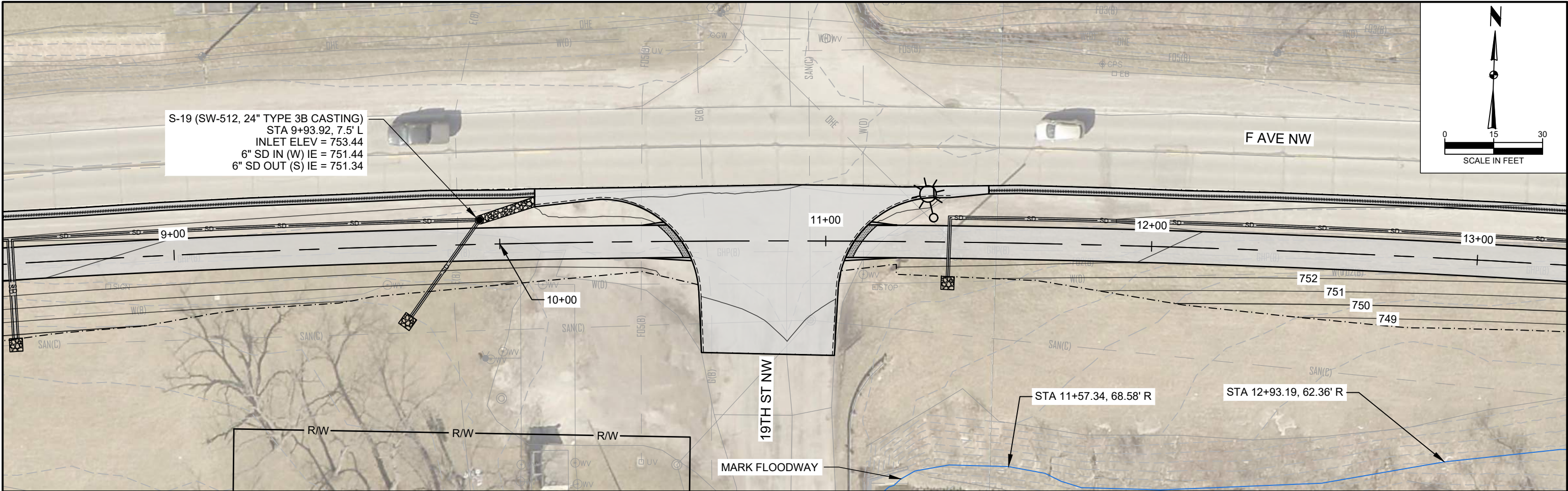
CITY OF CEDAR RAPIDS

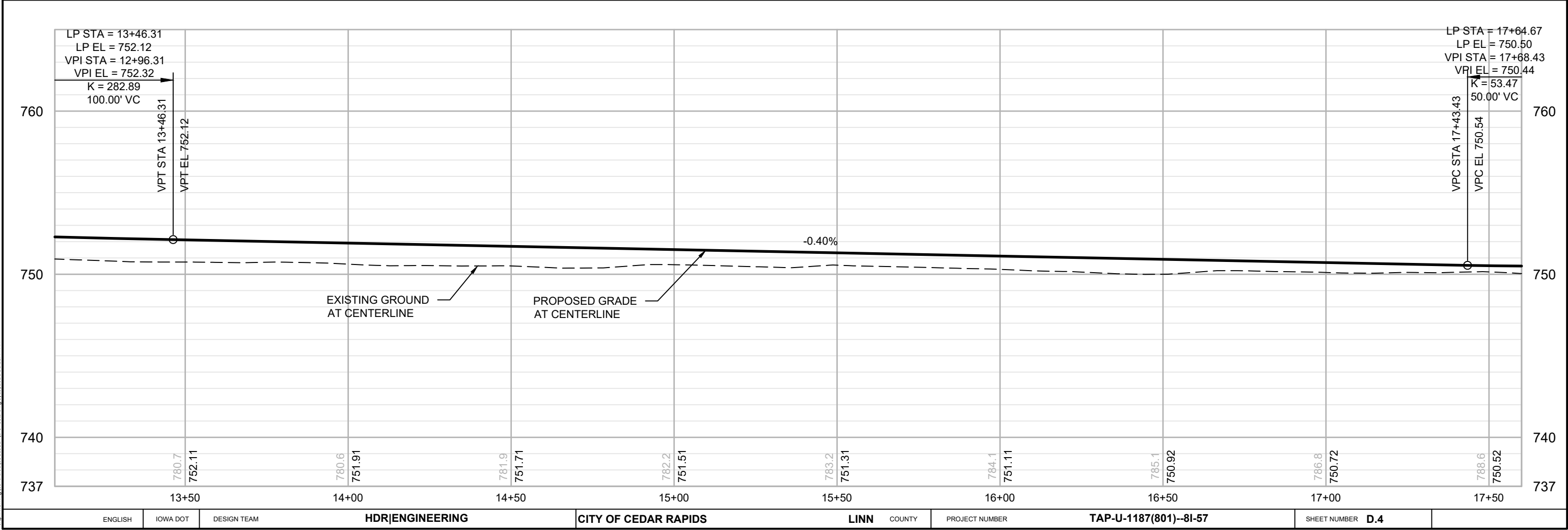
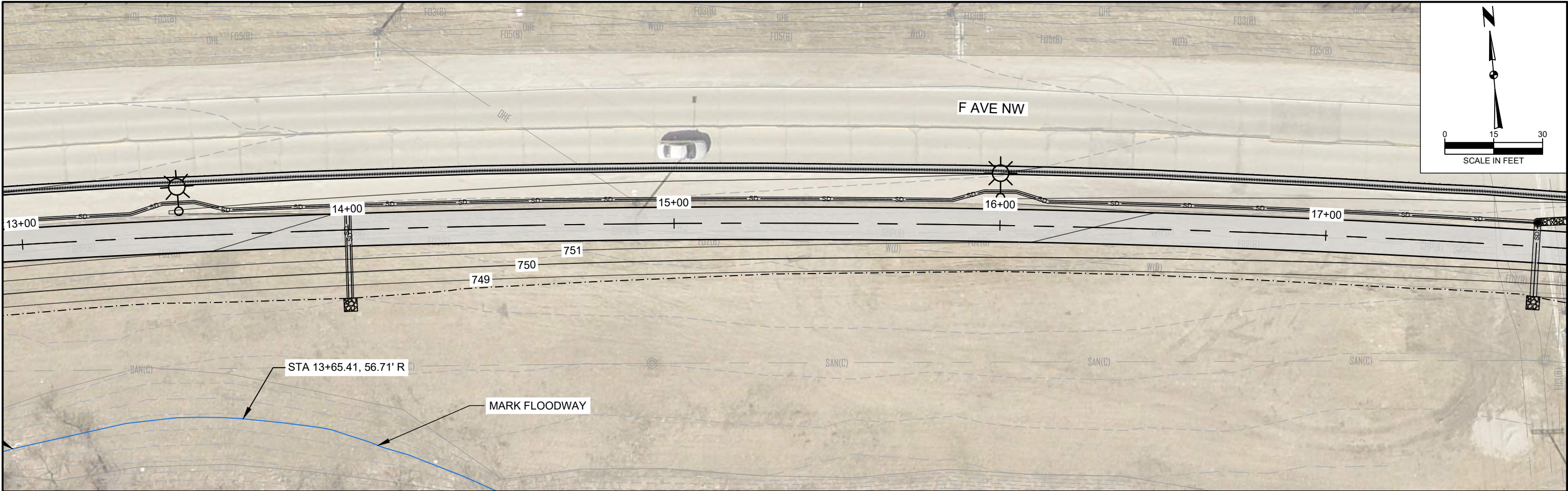
LINN COUNTY

PROJECT NUMBER

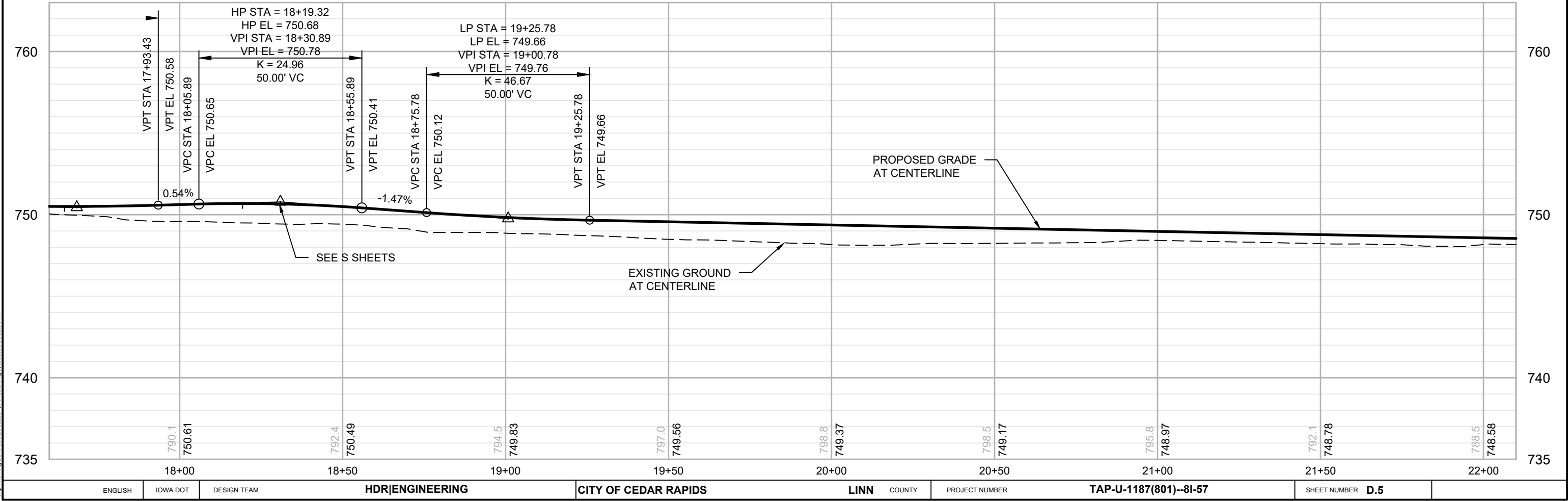
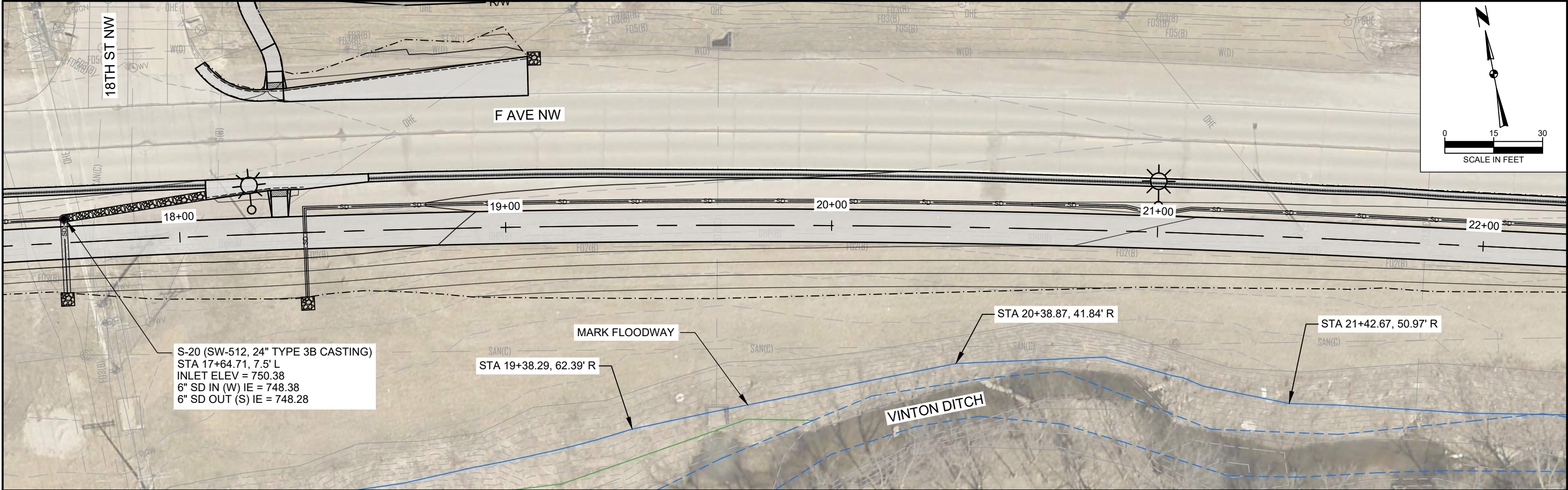
TAP-U-1187(801)-8I-57

SHEET NUMBER D.2

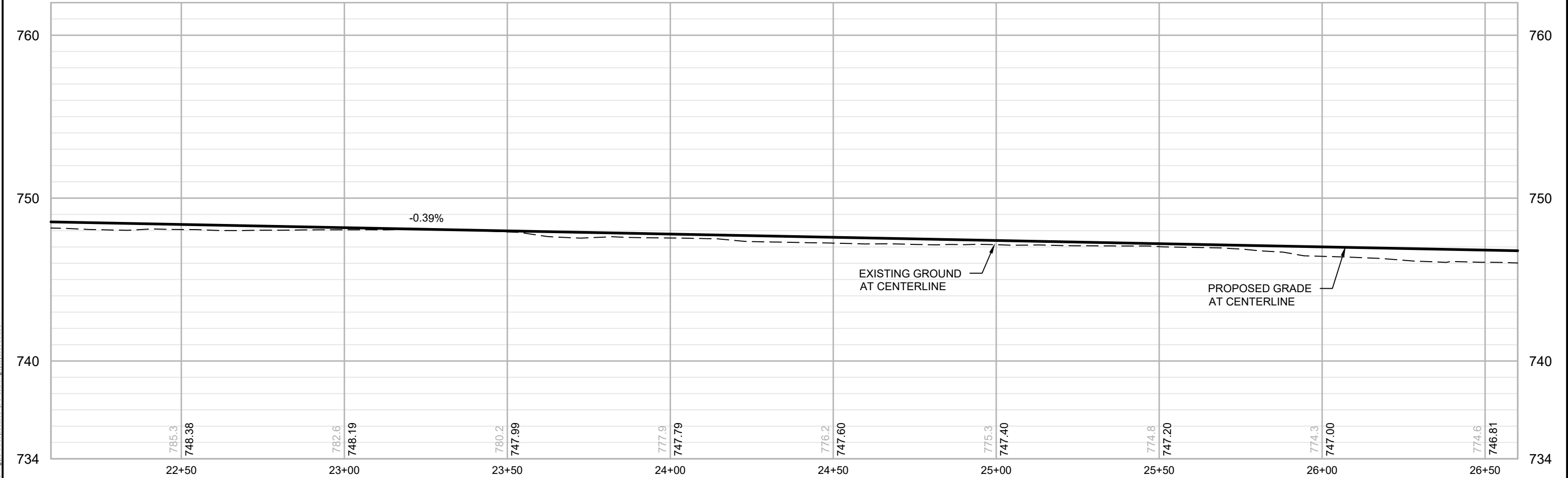
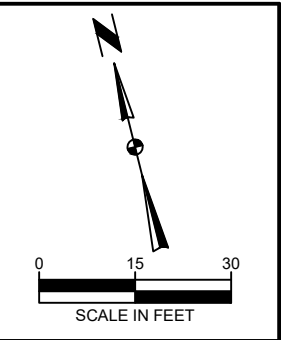
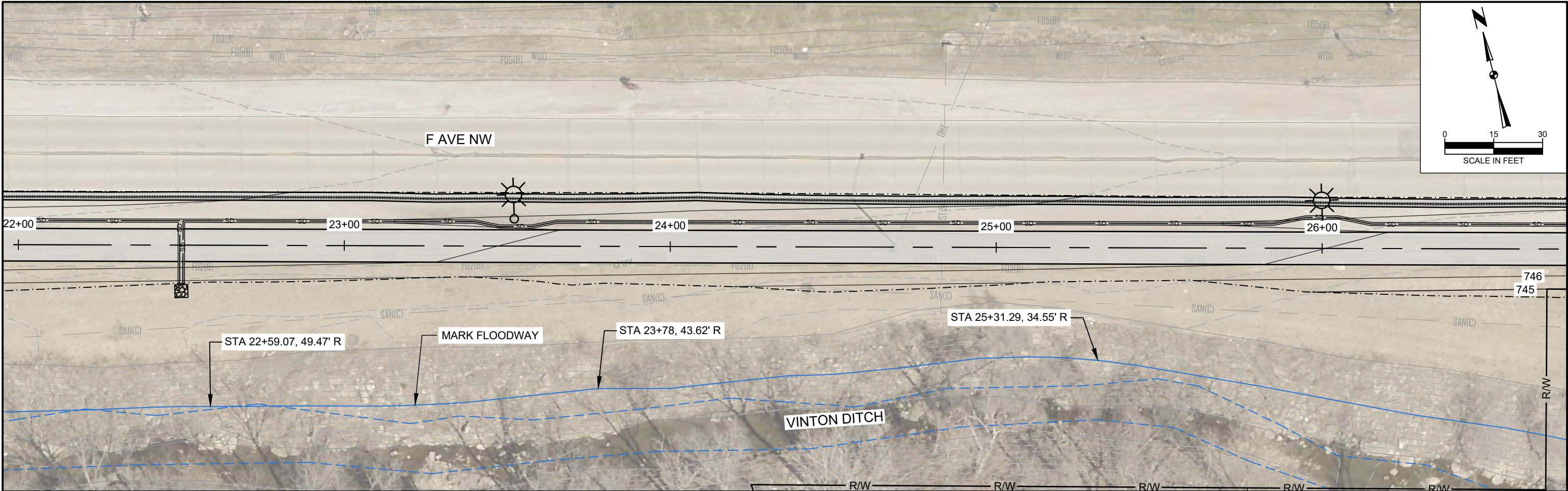




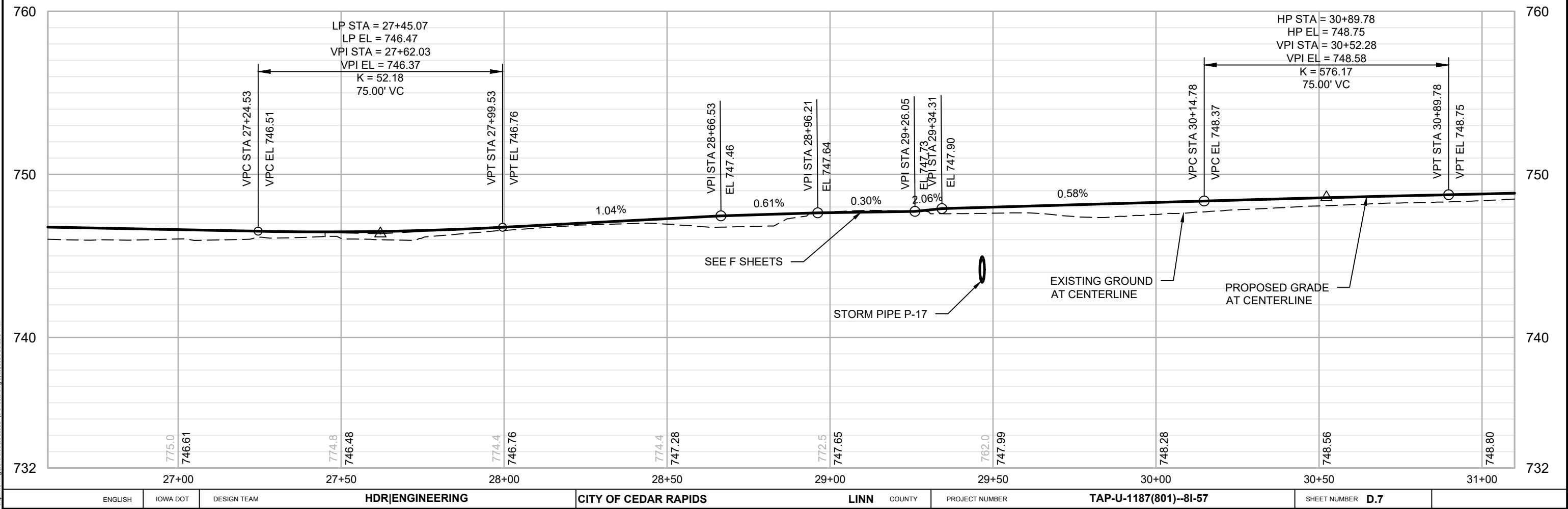
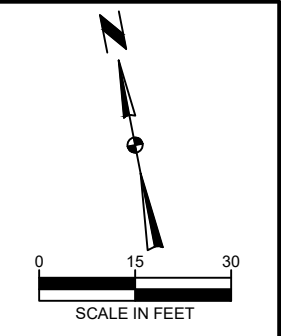
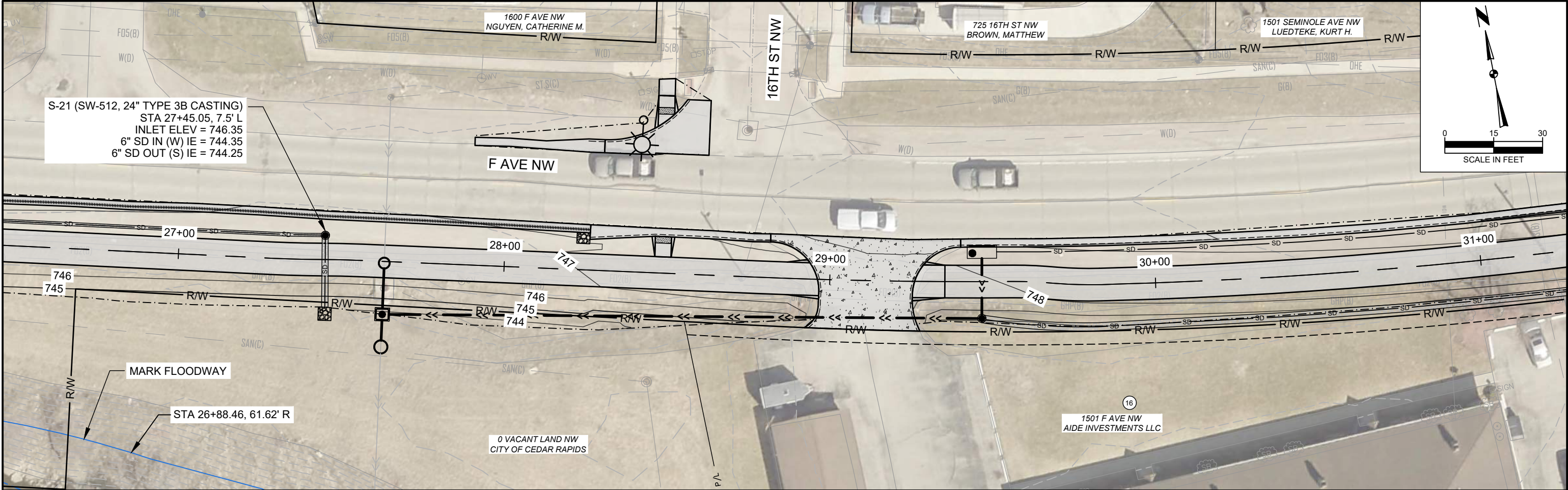
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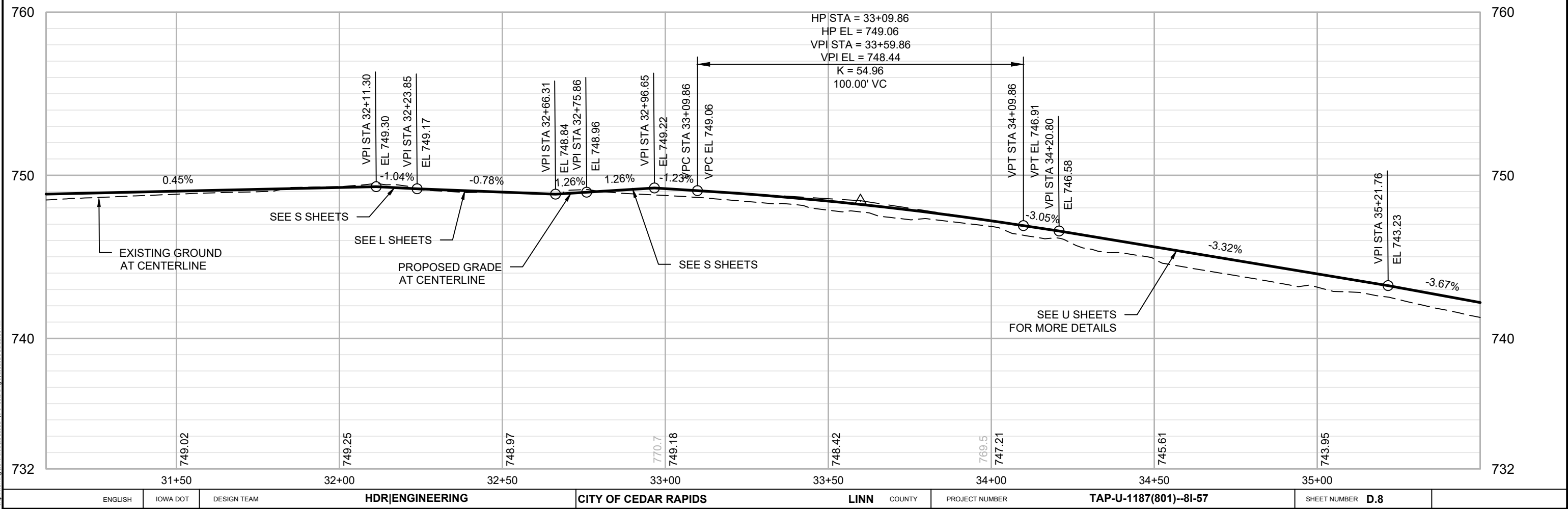
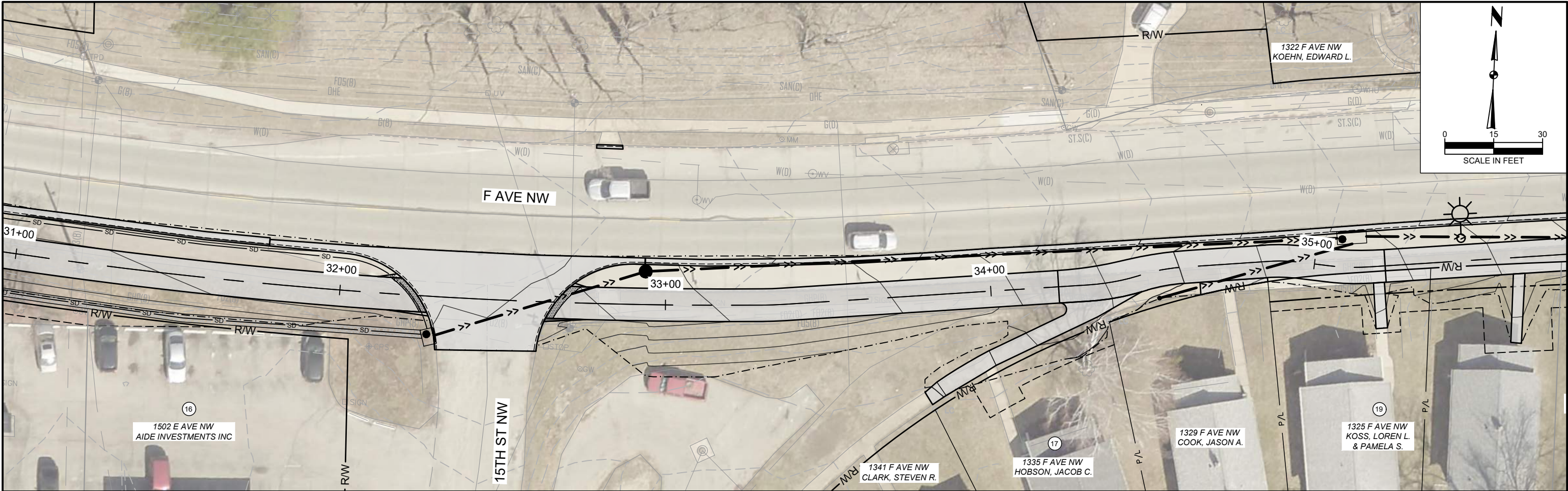
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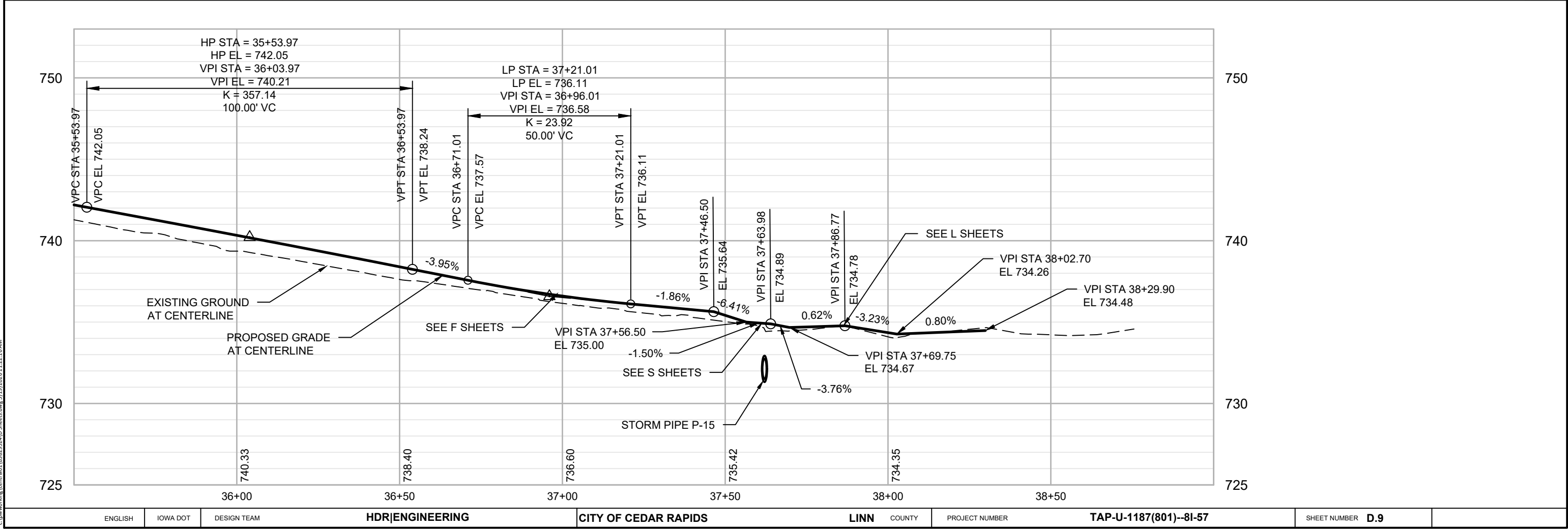
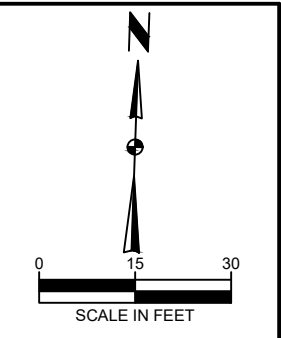
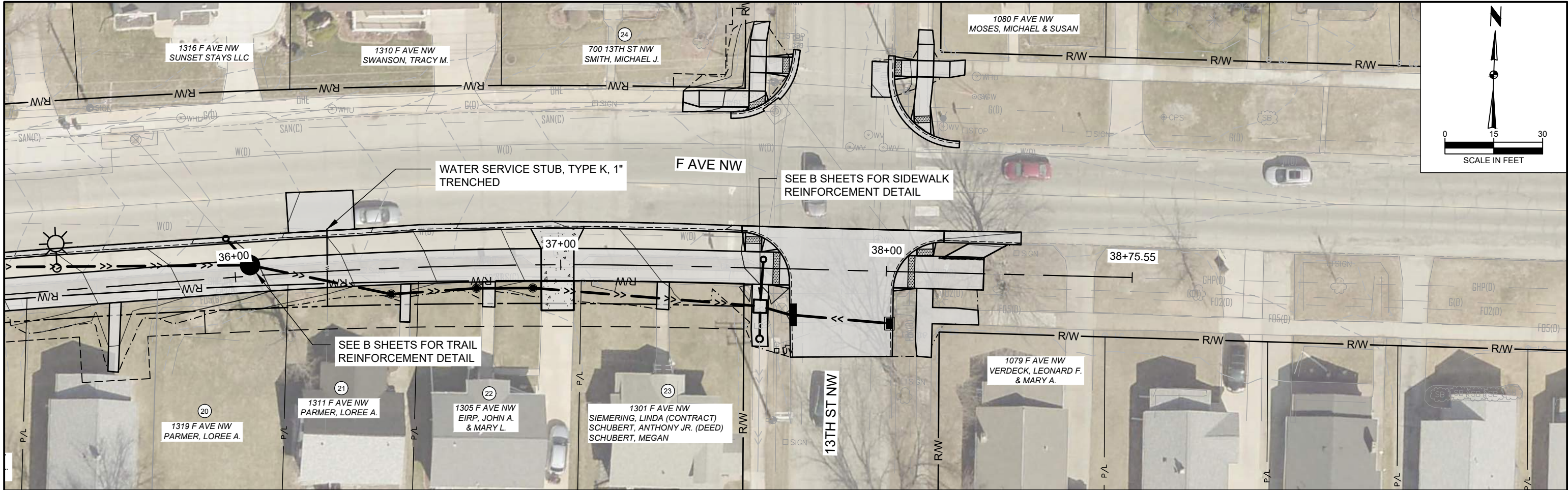
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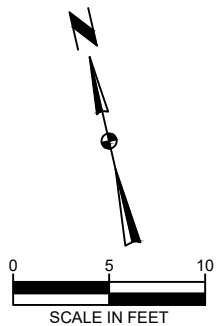
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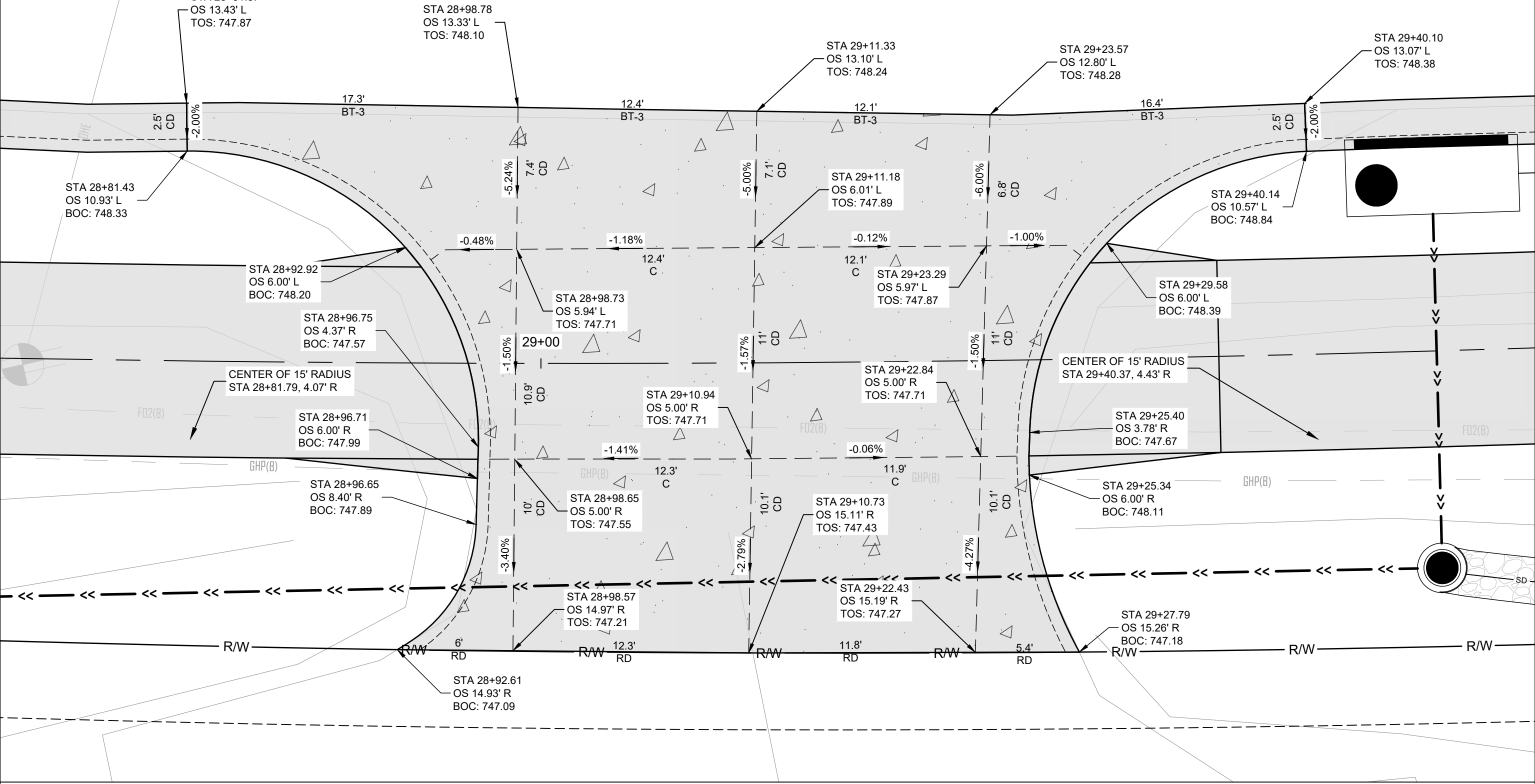
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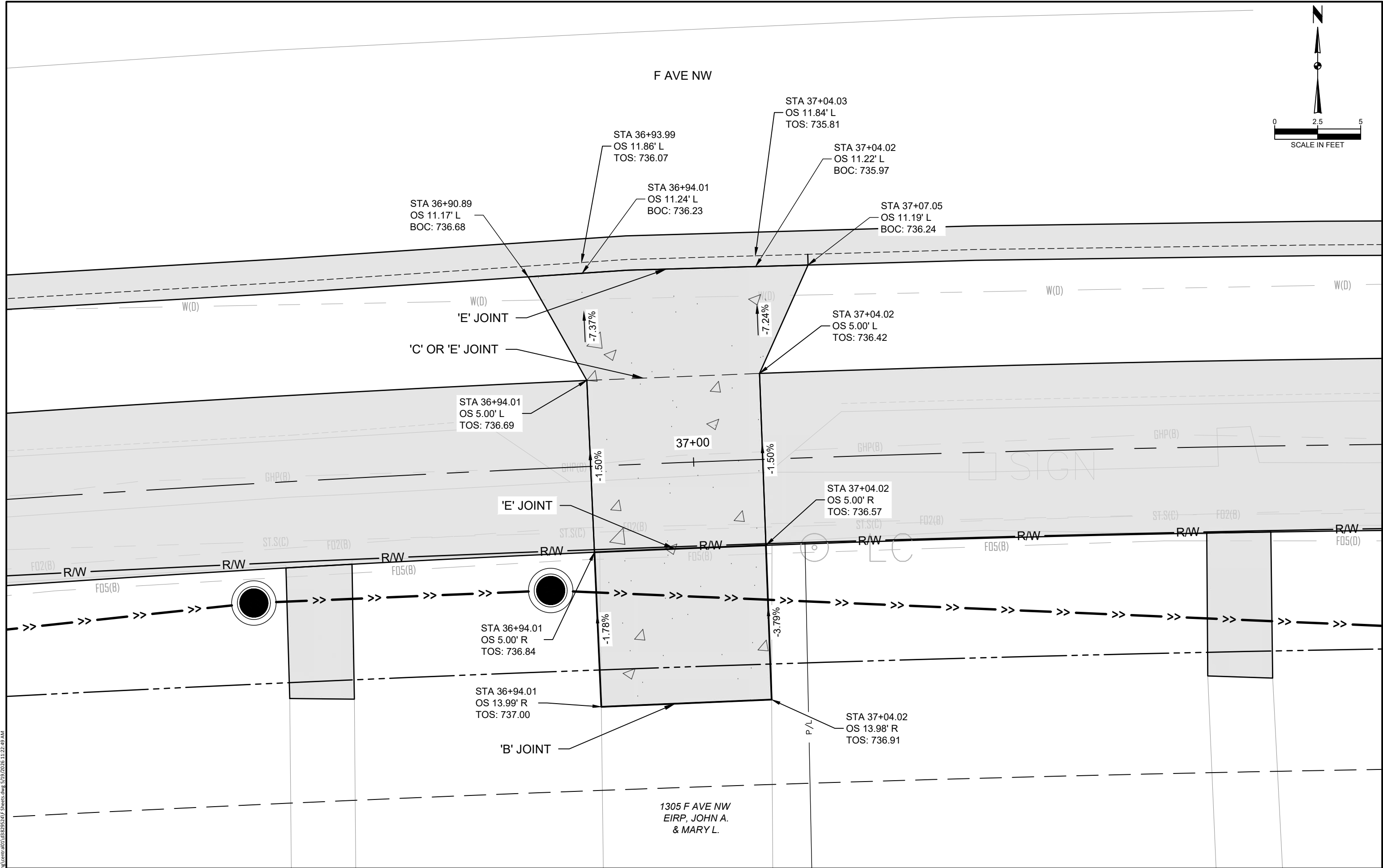
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F AVE NW



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CHEROKEE TRAIL - PH. III
Alignment Coordinates & Circular Curve Data

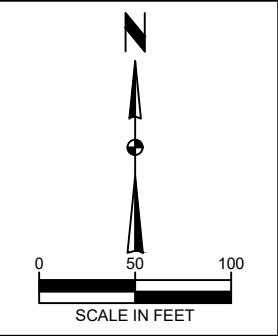
Name	Begin Line Station	Begin Line Y (Northing)	Begin Line X (Easting)	End Line Station	End Line Y (Northing)	End Line X (Easting)	Begin Curve Station (PC)	Begin Curve Y (Northing)	Begin Curve X (Easting)	Curve PI Station	Curve PI Y (Northing)	Curve PI X (Easting)	End Curve Station (PT)	End Curve Y (Northing)	End Curve X (Easting)	ΔC	T	L	R	E
L-80	0+00	3,460,851.44	5,409,798.23	0+90.50	3,460,862.92	5,409,887.99														
C-87							0+90.50	5,409,887.99	5,409,887.99	0+98.50	3,460,863.94	5,409,895.93	1+06.49	3,460,864.32	5,409,903.92	4°34'49"	8.00	15.99	200.00	0.16
L-81	1+06.49	3,460,864.32	5,409,903.92	1+09.28	3,460,864.45	5,409,906.70														
C-88							1+09.28	5,409,906.70	5,409,906.70	1+17.27	3,460,864.83	5,409,914.69	1+25.26	3,460,865.84	5,409,922.63	4°34'49"	8.00	15.99	200.00	0.16
L-82	1+25.26	3,460,865.84	5,409,922.63	2+10.20	3,460,876.62	5,410,006.87														
C-82							2+10.20	5,410,006.87	5,410,006.87	2+12.50	3,460,876.91	5,410,009.15	2+14.80	3,460,877.11	5,410,011.44	2°17'26"	2.30	4.60	115.00	0.02
L-77	2+14.80	3,460,877.11	5,410,011.44	2+60.24	3,460,881.07	5,410,056.71														
C-83							2+60.24	5,410,056.71	5,410,056.71	2+62.54	3,460,881.27	5,410,059.00	2+64.84	3,460,881.56	5,410,061.28	2°17'26"	2.30	4.60	115.00	0.02
L-78	2+64.84	3,460,881.56	5,410,061.28	6+98.52	3,460,936.60	5,410,491.46														
C-78							6+98.52	5,410,491.46	5,410,491.46	14+41.19	3,461,030.84	5,411,228.13	21+66.59	3,460,850.10	5,411,948.47	21°22'33"	742.67	1,468.07	3,935.00	69.47
L-75	21+66.59	3,460,850.10	5,411,948.47	27+29.14	3,460,713.88	5,412,494.27														
C-89							27+29.14	5,412,494.27	5,412,494.27	27+36.32	3,460,712.14	5,412,501.24	27+43.51	3,460,710.71	5,412,508.29	2°32'02"	7.19	14.37	325.00	0.08
C-90							27+43.51	5,412,508.29	5,412,508.29	27+49.90	3,460,709.43	5,412,514.55	27+56.28	3,460,707.93	5,412,520.75	2°04'45"	6.39	12.77	352.00	0.06
L-83	27+56.28	3,460,707.93	5,412,520.75	28+77.60	3,460,679.22	5,412,638.63														
C-84							28+77.60	5,412,638.63	5,412,638.63	29+16.95	3,460,669.91	5,412,676.86	29+56.28	3,460,662.55	5,412,715.51	2°54'18"	39.35	78.68	1,551.74	0.50
C-85							29+56.28	5,412,715.51	5,412,715.51	29+61.33	3,460,661.60	5,412,720.48	29+66.38	3,460,660.23	5,412,725.34	5°01'57"	5.05	10.10	115.00	0.11
C-86							29+69.50	5,412,728.34	5,412,728.34	29+78.27	3,460,657.01	5,412,736.78	29+87	3,460,655.73	5,412,745.45	7°17'57"	8.76	17.50	137.37	0.28
L-79	29+66.38	3,460,660.23	5,412,725.34	29+69.50	3,460,659.38	5,412,728.34														
C-79							29+87	5,412,745.45	5,412,745.45	31+59.05	3,460,626.79	5,412,915.04	33+29.63	3,460,636.54	5,413,086.81	12°56'11"	172.05	342.63	1,517.53	9.72
C-81							33+29.63	5,413,086.81	5,413,086.81	33+32.92	3,460,636.73	5,413,090.09	33+36.20	3,460,637.10	5,413,093.35	3°16'13"	3.28	6.56	115.00	0.05

RETAINING WALL 4
Alignment Coordinates & Circular Curve Data

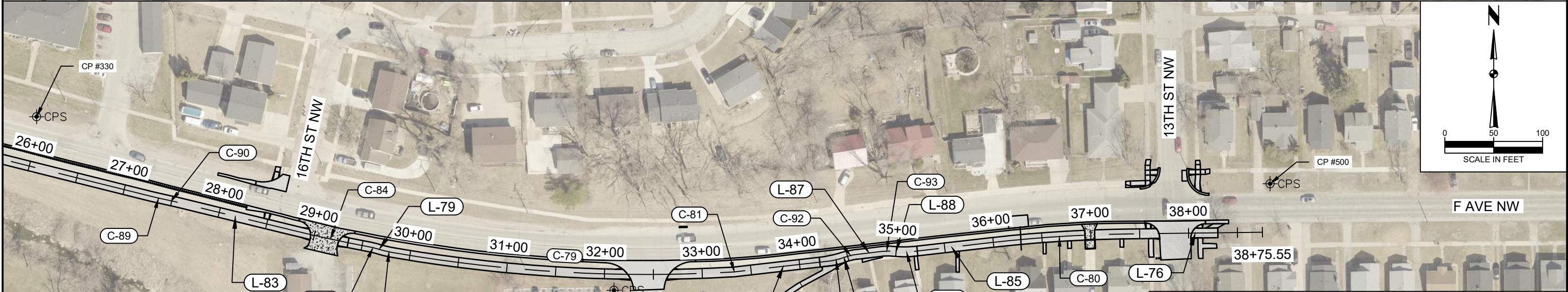
Name	Begin Line Station	Begin Line Y (Northing)	Begin Line X (Easting)	End Line Station	End Line Y (Northing)	End Line X (Easting)	Begin Curve Station (PC)	Begin Curve Y (Northing)	Begin Curve X (Easting)	Curve PI Station	Curve PI Y (Northing)	Curve PI X (Easting)	End Curve Station (PT)	End Curve Y (Northing)	End Curve X (Easting)	ΔC	T	L	R	E
L-90	200+00	3,460,880.25	5,410,156.26	200+07.79	3,460,886.57	5,410,160.81														
L-91	200+07.79	3,460,886.57	5,410,160.81	201+37.28	3,460,902.99	5,410,289.25														
L-89	201+37.28	3,460,902.99	5,410,289.25	201+47.60	3,460,896.68	5,410,297.42														

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CONTROL POINTS				
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
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501	3460830.54	5409203.77	767.09	CPS

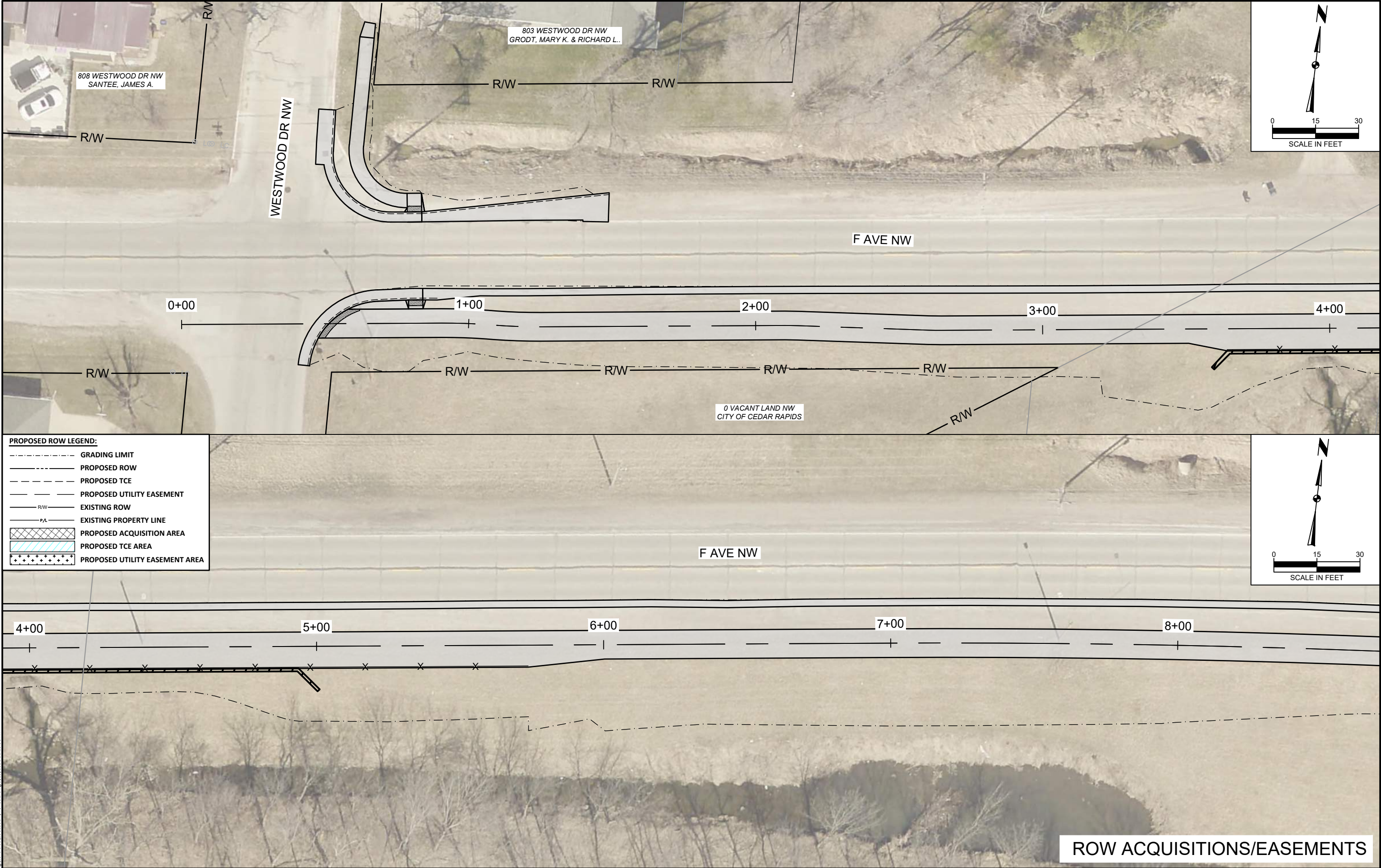


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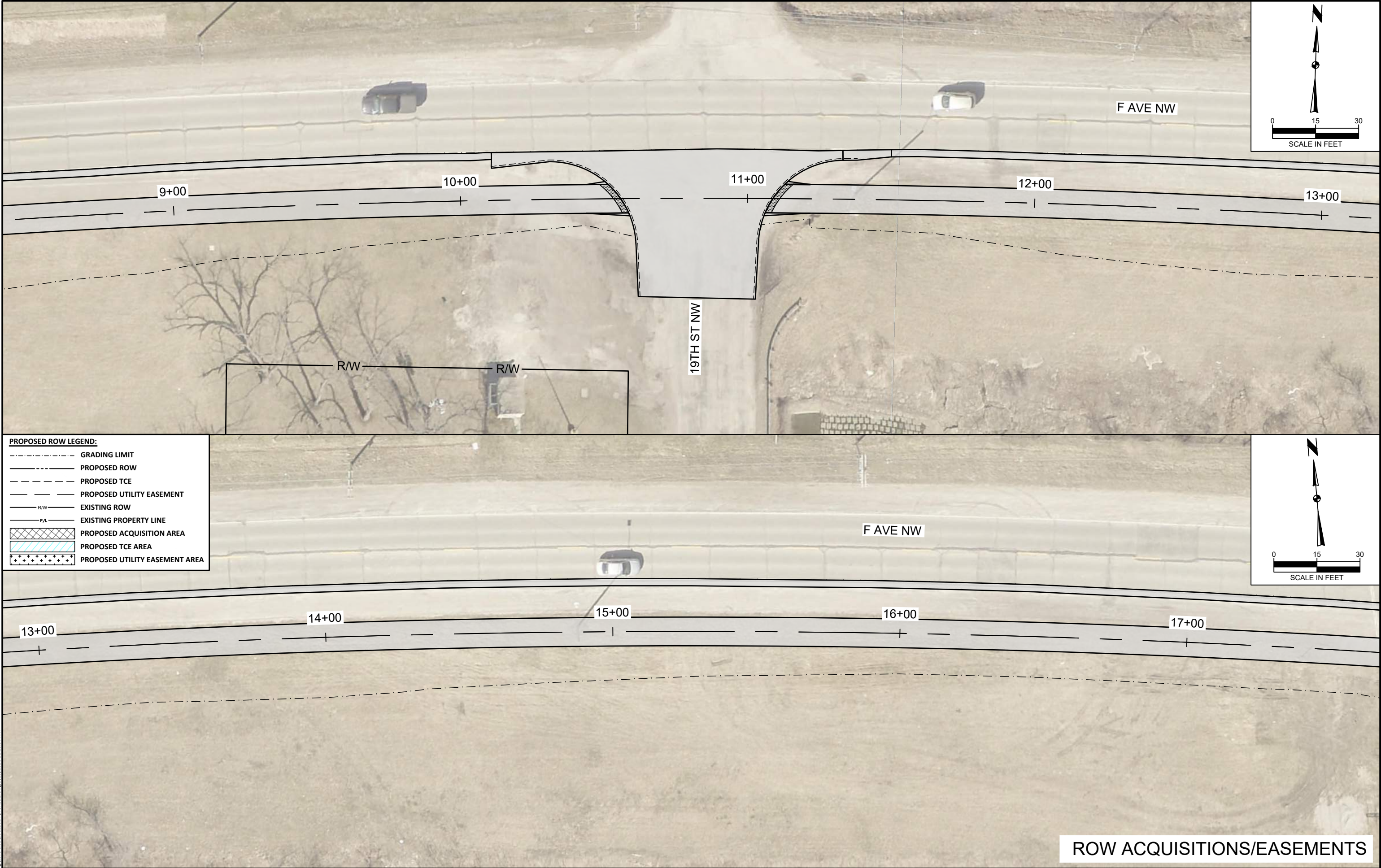


CONTROL POINTS				
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
329	3460617.94	5412966.98	748.11	CPS
330	3460795.58	5412376.51	747.27	CPS
331	3460969.27	5411650.85	750.04	CPS
332	3461023.90	5410974.87	753.17	CPS
500	3460726.93	5413637.93	734.52	CPS

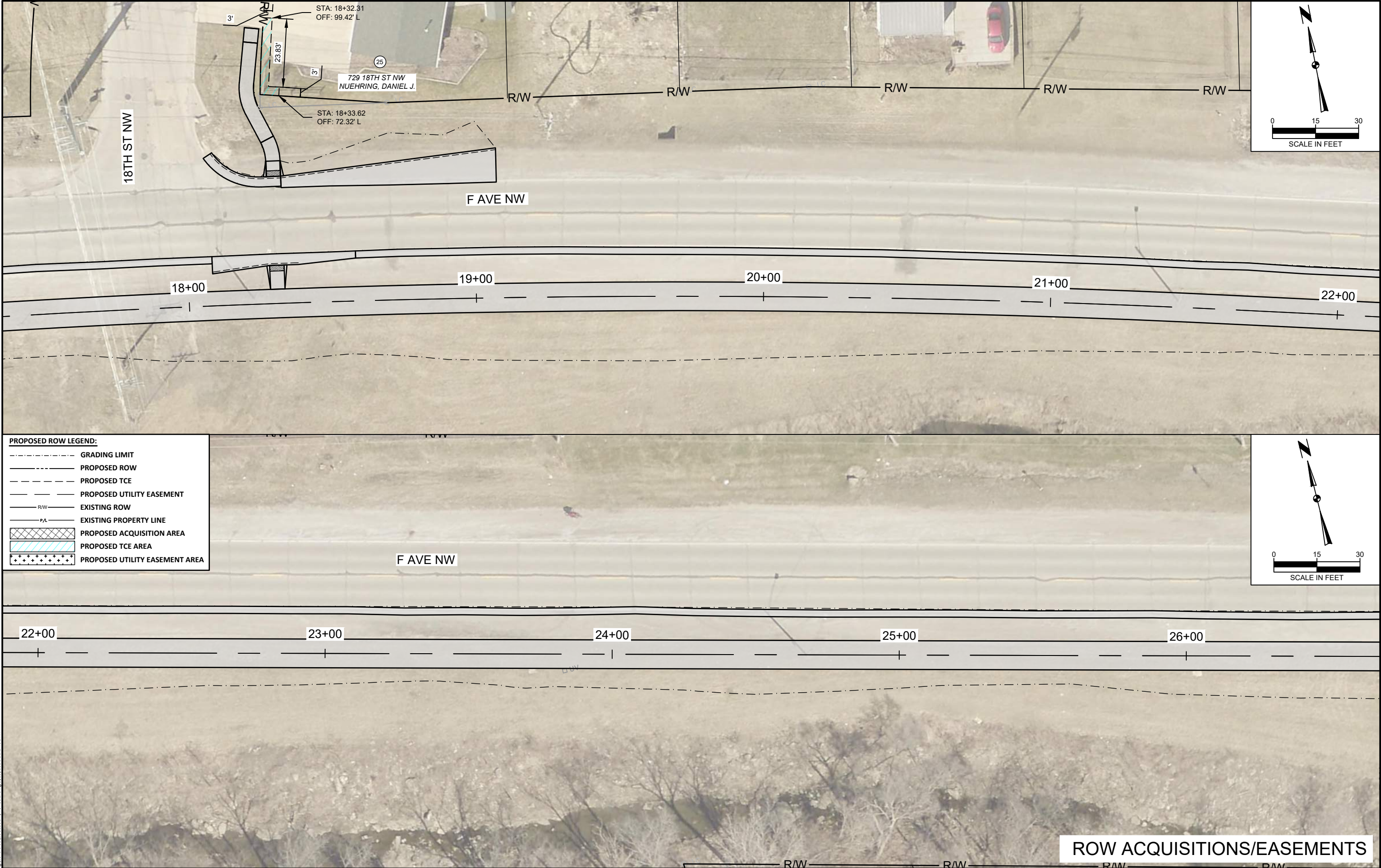
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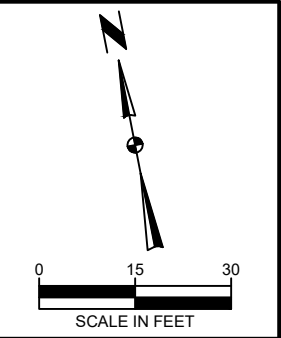
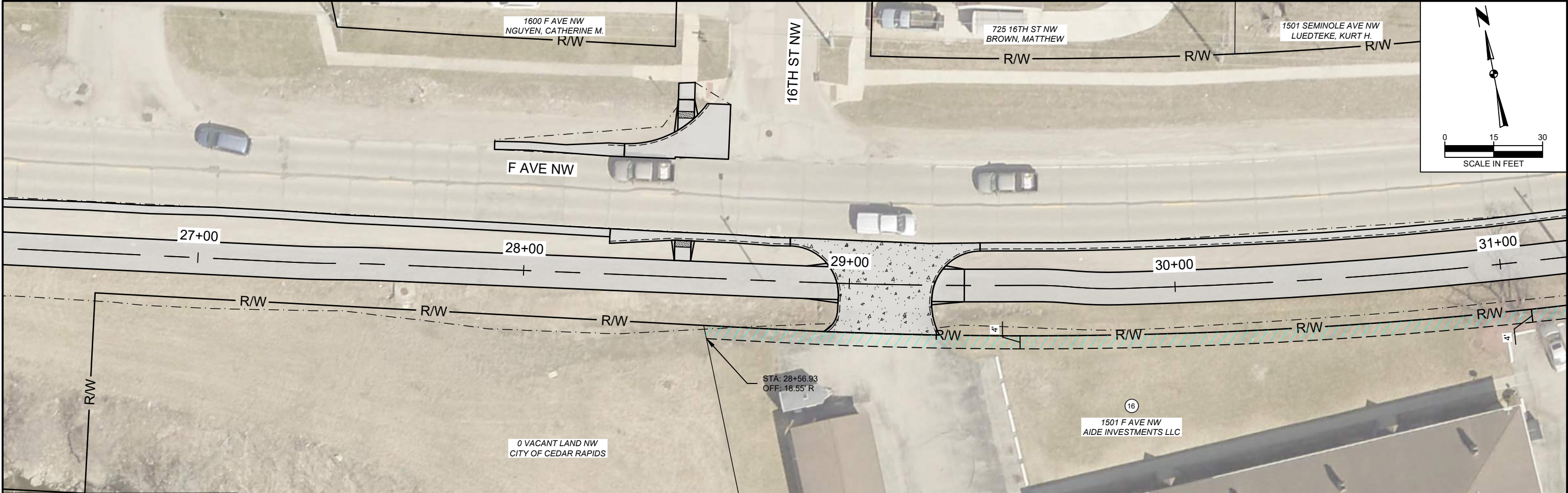
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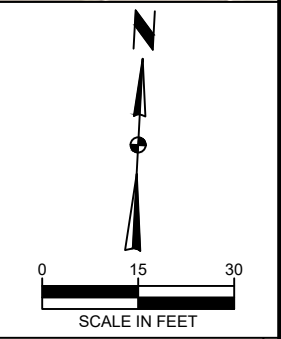
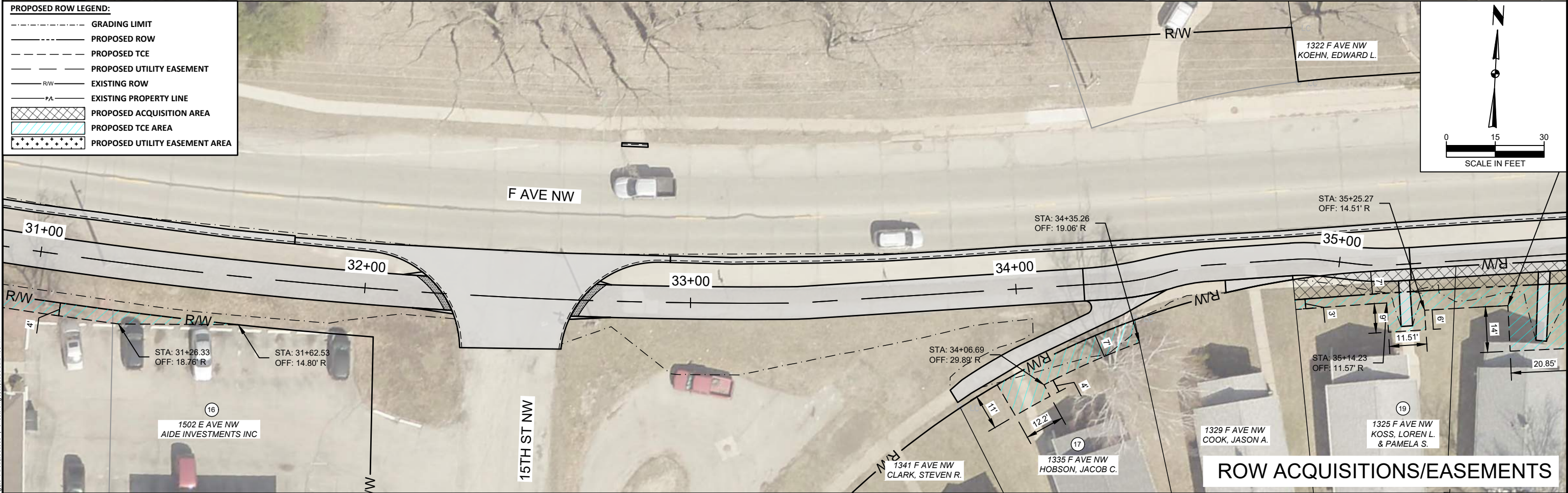


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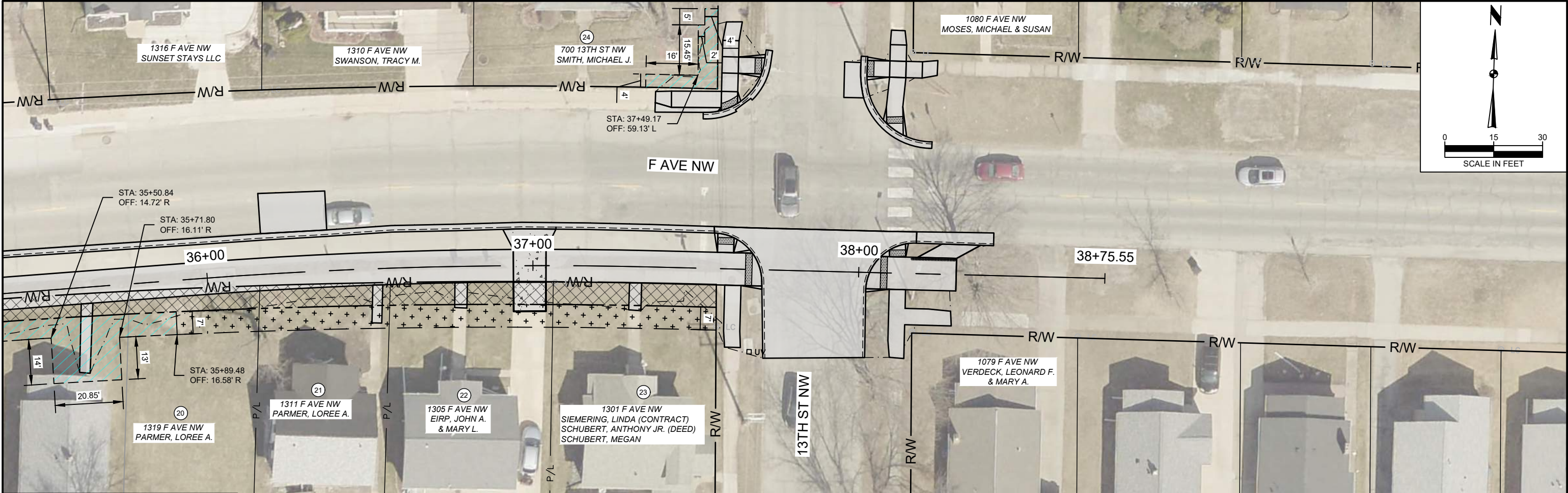


PROPOSED ROW LEGEND:

- GRADING LIMIT
- - - PROPOSED ROW
- - - PROPOSED TCE
- - - PROPOSED UTILITY EASEMENT
- R/W — EXISTING ROW
- P/L — EXISTING PROPERTY LINE
- [Cross-hatched box] PROPOSED ACQUISITION AREA
- [Blue hatched box] PROPOSED TCE AREA
- [Star pattern box] PROPOSED UTILITY EASEMENT AREA



ROW ACQUISITIONS/EASEMENTS



PROPOSED ROW LEGEND:	
	GRADING LIMIT
	PROPOSED ROW
	PROPOSED TCE
	PROPOSED UTILITY EASEMENT
	EXISTING ROW
	EXISTING PROPERTY LINE
	PROPOSED ACQUISITION AREA
	PROPOSED TCE AREA
	PROPOSED UTILITY EASEMENT AREA

ROW ACQUISITIONS/EASEMENTS

TRAFFIC CONTROL NOTES

1.

CONTRACTOR SHALL BE RESPONSIBLE FOR LANE AND SIDEWALK CLOSURE PER IOWA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS AND DETAILS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, AS ADOPTED BY THE DEPARTMENT PER 761 OF THE IOWA ADMINISTRATIVE CODE (IAC), CHAPTER 130. CHANGES TO THE TRAFFIC CONTROL DESIGN PLAN SHALL BE SUBMITTED TO THE CEDAR RAPIDS PUBLIC WORKS DEPARTMENT - TRAFFIC ENGINEERING DIVISION AT LEAST TWO WEEKS PRIOR. THE SUBMITTAL SHALL BE IN PLAN FORM SHOWING ALL TRAFFIC CONTROL DEVICES AND PLAN. THE SUBMITTAL IS FOR THE CITY'S FILES AND DOES NOT NECESSARILY MEAN THAT THE CITY WILL REVIEW THE PLAN FOR ITS CORRECTNESS OR ITS COMPLIANCE. THE TRAFFIC CONTROL PLAN SHALL ALSO INCLUDE ALL SIGNAGE ON ADJACENT STREETS AS REQUIRED BY ABOVE NOTED STANDARDS AND REGULATIONS.
2.

MAJOR STAGES OF CONSTRUCTION ARE SHOWN IN THE STAGING AND TRAFFIC CONTROL PLAN. CHANGES TO THE STAGING PLAN MUST BE APPROVED BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING DETAILED TRAFFIC CONTROL PLANS TO THE ENGINEER FOR ALL STAGES OF WORK. WRITTEN NOTICE SHALL BE PROVIDED TO THE ENGINEER AT LEAST 48 HOURS IN ADVANCE OF ROADWAY CLOSURES AND STAGE TRANSITIONS.
3.

TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH IOWA DOT TRAFFIC CONTROL STANDARDS.
4.

CONTRACTOR TO NOTIFY ENGINEER AT LEAST 48 HOURS IN ADVANCE OF STREET/LANE CLOSURES.
5.

CONTRACTOR SHALL MAINTAIN ACCESS TO EXISTING SIDEWALKS. IF SIDEWALK CLOSURE IS NEEDED, CONTRACTOR SHALL PROVIDE A DETOUR ROUTE OR DIVERSION.
6.

CONTRACTOR WILL BE REQUIRED TO MAINTAIN ACCESS ROUTE TO ALL PROPERTIES UTILIZING STAGED CONSTRUCTION.
7.

ALL TRAFFIC CONTROL SIGNS SHALL BE PLACED A MINIMUM OF 2 FEET CLEAR OF THE BACK OF CURB WHERE POSSIBLE.
8.

PORTABLE MOUNTINGS FOR WARNING SIGNS MAY BE USED FOR TEMPORARY INSTALLATIONS OF 3 DAYS OR LESS. ALL OTHER TRAFFIC CONTROL SIGNS SHALL BE POST MOUNTED.
9.

THE PROPOSED SIGNAGE MAY BE MODIFIED TO MEET FIELD CONDITIONS, PREVENT OBSTRUCTIONS AND TO ACCOMMODATE CONSTRUCTION SCHEDULING, WITH APPROVAL OF THE ENGINEER.
10.

CONTRACTOR SHALL REMOVE & REINSTALL, OR COVER PERMANENT TRAFFIC CONTROL DEVICES AND/OR PRIVATE SIGNING THAT CONFLICTS WITH THE TEMPORARY TRAFFIC CONTROL PLAN OR CONSTRUCTION, WITH APPROVAL OF THE ENGINEER.
11.

CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL TRAFFIC CONTROL DEVICES DURING THE COURSE OF THE CONSTRUCTION PROJECT.
12.

MULTIPLE MOBILIZATIONS ARE ANTICIPATED FOR TRAFFIC CONTROL TO ADJUST THE TRAFFIC CONTROL DEVICES FOR DIFFERENT STAGES OF CONSTRUCTION. THESE MOBILIZATIONS SHALL BE INCIDENTAL TO THE TRAFFIC CONTROL BID ITEM.
13.

CONTRACTOR SHALL STAGE LINEMARKING OF CROSSWALKS AND STOP BARS . LINEMARKING TO BE STAGED $\frac{1}{2}$ A TRAVELED WAY AT A TIME.
14.

CONTRACTOR SHALL PLACE PORTABLE DYNAMIC MESSAGE SIGNS AT LOCATIONS NOTED A MINIMUM OF FIVE (5) DAYS IN ADVANCE OF COMMENCEMENT OF WORK. MESSAGE: "F AVE ROAD WORK STARTING XX/XX/XX", DATE TO BE DETERMINED PRIOR TO CONSTRUCTION.
15.

ALL PERMANENT PAVEMENT MARKINGS AND SIGNING SHALL BE INSTALLED PRIOR TO OPENING ROADWAYS TO TRAFFIC, UNLESS OTHERWISE NOTED.
16.

REMOVAL OF EXISTING PAVEMENT MARKINGS IN CONFLICT WITH TEMPORARY TRAFFIC CONTROL FEATURES OR NEW PAVEMENT MARKINGS SHALL BE BY A METHOD APPROVED BY THE ENGINEER.
17.

CONTRACTOR SHALL COORDINATE WITH OTHER CITY PROJECTS AND TRAFFIC CONTROL AS NEEDED.

STAGING NOTES

GENERAL:

1.

CONTRACTOR SHALL DISTRIBUTE CONSTRUCTION NOTIFICATIONS TO EACH PROPERTY OWNER WITHIN THE PROJECT LIMITS BETWEEN 7 - 14 CALENDAR DAYS IN ADVANCE OF COMMENCEMENT OF CONSTRUCTION. NOTIFICATION LETTERS OR HANGERS SHALL BE APPROVED BY THE ENGINEER PRIOR TO DISTRIBUTION. LETTERS SHALL INCLUDE:

A.

PRIME CONTRACTOR'S NAME.

B.

SUPERINTENDENT'S NAME AND 24-HOUR CONTACT NUMBER.

C.

BRIEF DESCRIPTION OF THE WORK.

D.

DATE OF COMMENCEMENT AND COMPLETION OF CONSTRUCTION ACTIVITIES.

E.

DESCRIPTION OF ACCESS LIMITATIONS.

F.

SPECIAL CONSIDERATIONS: REFUSE COLLECTION, MAIL DELIVERY, OTHERS.

WORK MAY NOT BEGIN UNLESS NOTIFICATIONS ARE MADE IN ACCORDANCE WITH THIS PROVISION.
2.

CONTRACTOR SHALL NOTIFY EACH RESIDENT AT LEAST 2 WEEKS IN ADVANCE OF THE START OF DRIVEWAY RECONSTRUCTION, CONTRACTOR SHALL NOT RESTRICT ACCESS TO RESIDENTIAL DRIVEWAYS FOR MORE THAN 20 WORKING DAYS.
3.

CONTRACTOR SHALL MAINTAIN EMS ACCESS AND PROVIDE ACCOMMODATIONS FOR ACCESS AS NEEDED.
4.

CONTRACTOR SHALL CONSTRUCT ADJACENT SIDEWALK AND DRIVEWAYS IN THE SAME STAGE AS THE ADJACENT ROADWAY.
5.

CONTRACTOR SHALL PROVIDE A LEVEL WALKING PATH FOR RESIDENTIAL OR COMMERCIAL ACCESS TO PROPERTY FROM ON STREET PARKING. THIS MAY REQUIRE TEMPORARY AGGREGATE TO BE PLACED AND REMOVED.
6.

CONTRACTOR SHALL NOT LEAVE ANY OPEN TRENCHES ADJACENT TO THE TRAFFIC LANE DURING NON-WORKING HOURS.
7.

STAGES ARE LISTED ALPHANUMERICALLY, AND SHALL BE FUNCTIONALLY COMPLETED CONSECUTIVELY AS SHOWN ON THE PLANS. FOR EXAMPLE: STAGE 1A CONSTRUCTION SHALL BE FUNCTIONALLY COMPLETED BEFORE MOVING TO STAGE 1B, AND STAGE 1B SHALL BE FUNCTIONALLY COMPLETED BEFORE MOVING TO STAGE 2A.
8.

CONTRACTOR SHALL NOT REMOVE EXISTING SIDEWALK UNTIL TRAIL IS READY TO BE CONSTRUCTED AT THE AREA OF SAID REMOVAL. THE INTENT IS TO ALLOW PEDESTRIAN TO USE THE EXISTING SIDEWALK AS A PEDESTRIAN DETOUR ROUTE AROUND OTHER AREAS OF CONSTRUCTION.
9.

AT INTERSECTIONS, THE SIDEWALK/TRAIL SHALL BE CONSTRUCTED ONE QUADRANT AT A TIME, SUCH THAT 1 EAST-WEST AND 1 NORTH-SOUTH CROSSING REMAINS OPEN AT ALL TIMES, UNLESS OTHERWISE NOTED. ADVANCED WARNINGS SHALL BE INSTALLED PER IOWA DOT STANDARD ROAD PLAN TC-601. ROTATE SIDEWALK DETOUR SIGNS AROUND INTERSECTION AS QUADRANTS ARE CONSTRUCTED IN SUB-PHASES.
10.

SIDEWALK CLOSED SIGNS MAY BE REMOVED ONCE A COMPLETE SEGMENT OF ADA COMPLIANT TRAIL IS APPROVED BY THE ENGINEER.
11.

AS SIDEWALK / TRAIL QUADRANTS ARE CONSTRUCTED, THE ASSOCIATED DRUMS, CHANNELIZERS, AND SIGNS FOR THE LANE CLOSURE (IF APPLICABLE) SHALL BE REMOVED AND REINSTALLED IN THE NEXT CONSTRUCTION AREA. THE INTENT IS TO LIMIT THE AMOUNT OF LANE RESTRICTIONS PLACED AT AN INTERSECTION TO THE MAXIMUM EXTENT POSSIBLE.
12.

IF NO TRAIL WORK IS PERFORMED FOR A PERIOD OF ONE CALENDAR WEEK, THE CONTRACTOR SHALL REOPEN ALL TRAFFIC LANES PREVIOUSLY CLOSED FOR CONSTRUCTION ACTIVITIES. LANE CLOSURES SHALL NOT BE MAINTAINED DURING PERIODS OF INACTIVE WORK. REMOVAL AND REINSTALLATION OF TEMPORARY TRAFFIC CONTROL REQUIRED TO REOPEN AND SUBSEQUENTLY REESTABLISH THE LANE CLOSURE SHALL BE AT NO ADDITIONAL COST.

- STAGE 1 CONSTRUCTION
- REMOVE AND RECONSTRUCT WATER SERVICE.
- CONSTRUCT F AVE EB PATCH.

- STAGE 1 TRAFFIC
- DETOUR F AVE EASTBOUND LANES AS SHOWN.
- F AVE WESTBOUND SHALL REMAIN OPEN.

- STAGE 2 CONSTRUCTION
- CONSTRUCT TRAIL & F AVENUE CURB AND GUTTER FROM 15TH ST TO 13TH ST, INCLUDING THE 13TH ST INTERSECTION.

- STAGE 2 TRAFFIC
- MAINTAIN TWO-WAY TRAFFIC ALONG F AVE. UTILIZE RETROFLECTIVE REMOVABLE TAPE MARKINGS TO SHIFT TRAFFIC, AND MAINTAIN 11' LANES.
- DETOUR 13TH ST INTERSECTION USING E AVE.

- STAGE 3A CONSTRUCTION
- CONSTRUCT TRAIL FROM 18TH ST TO 15TH ST, INCLUDING ROADWAY INTERSECTIONS

- STAGE 3A TRAFFIC
- DETOUR F AVE EASTBOUND.
- DETOUR 15TH ST TRAFFIC
- MAINTAIN TWO-WAY ACCESS TO NEIGHBORHOODS VIA 18TH ST NW

- STAGE 3B CONSTRUCTION
- CONSTRUCT TRAIL FROM WESTWOOD TO 18TH ST, INCLUDING 19TH ST INTERSECTION

- STAGE 3B TRAFFIC
- MAINTAIN F AVE EASTBOUND DETOUR.
- DETOUR 19TH ST INTERSECTION.
- MAINTAIN TWO-WAY ACCESS TO NEIGHBORHOODS VIA 18TH ST NW

- STAGE 4 CONSTRUCTION
- CONSTRUCT ALL SIDEWALK ON THE NORTH SIDE OF F AVE.

- STAGE 4 TRAFFIC
- MAINTAIN F AVE TRAFFIC.

PLAN VIEW PATTERN AND SYMBOL LEGEND
OF TRAFFIC CONTROL AND STAGING SHEETS

SYMBOL LEGEND:

- CHANNELIZING DEVICE
- DRUM
- TRAFFIC SIGN
- TYPE III BARRICADE
- DIRECTION OF TRAFFIC
- ORANGE SAFETY FENCE
- SAFETY CLOSURE
- ARROW BOARD
- LONGITUDINAL SIDEWALK CHANNELIZER

PAVEMENT LEGEND:

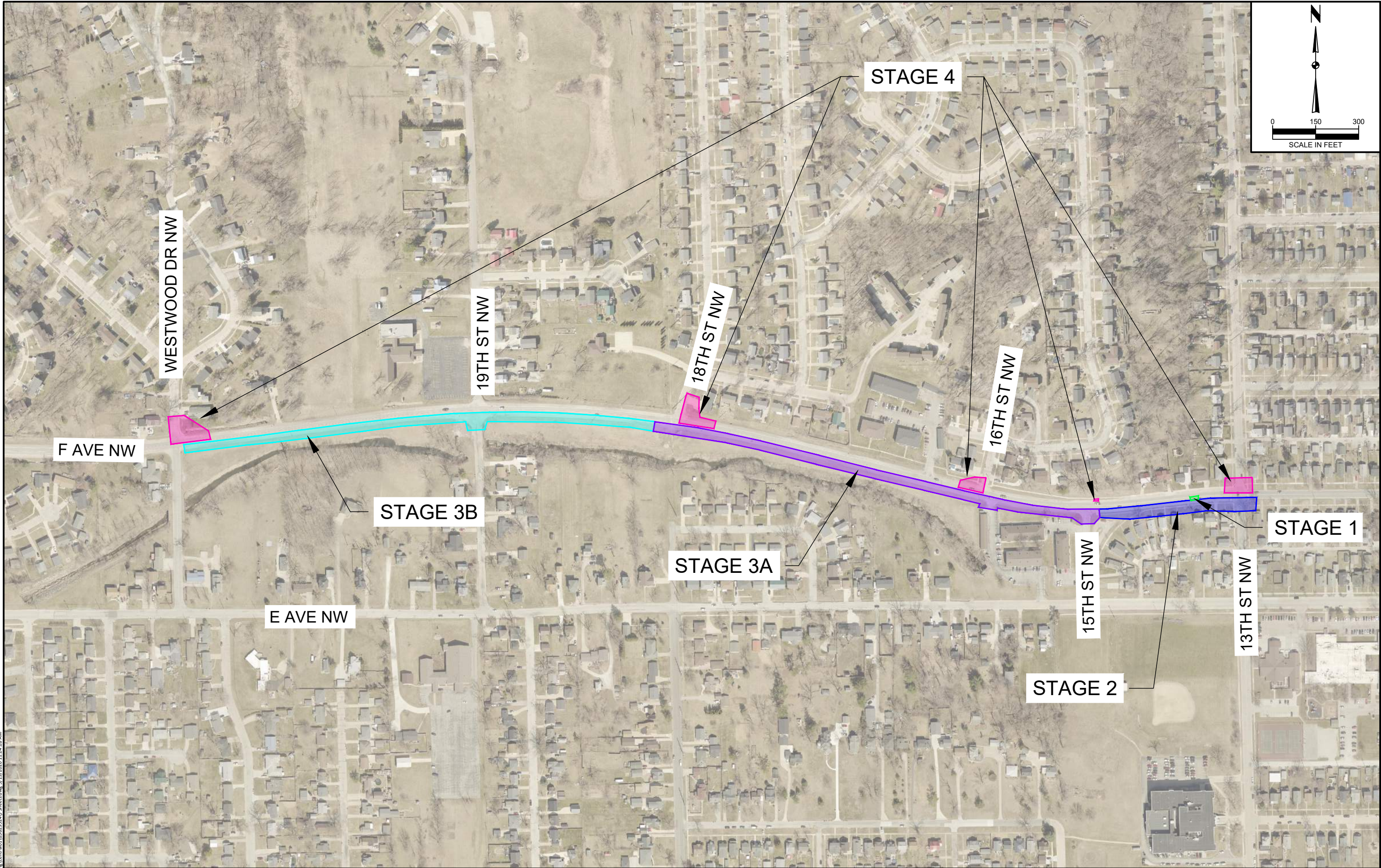
- STAGE 1
- STAGE 2
- STAGE 3A
- STAGE 3B
- STAGE 4

IOWA DOT STANDARD ROAD PLANS - TRAFFIC CONTROL

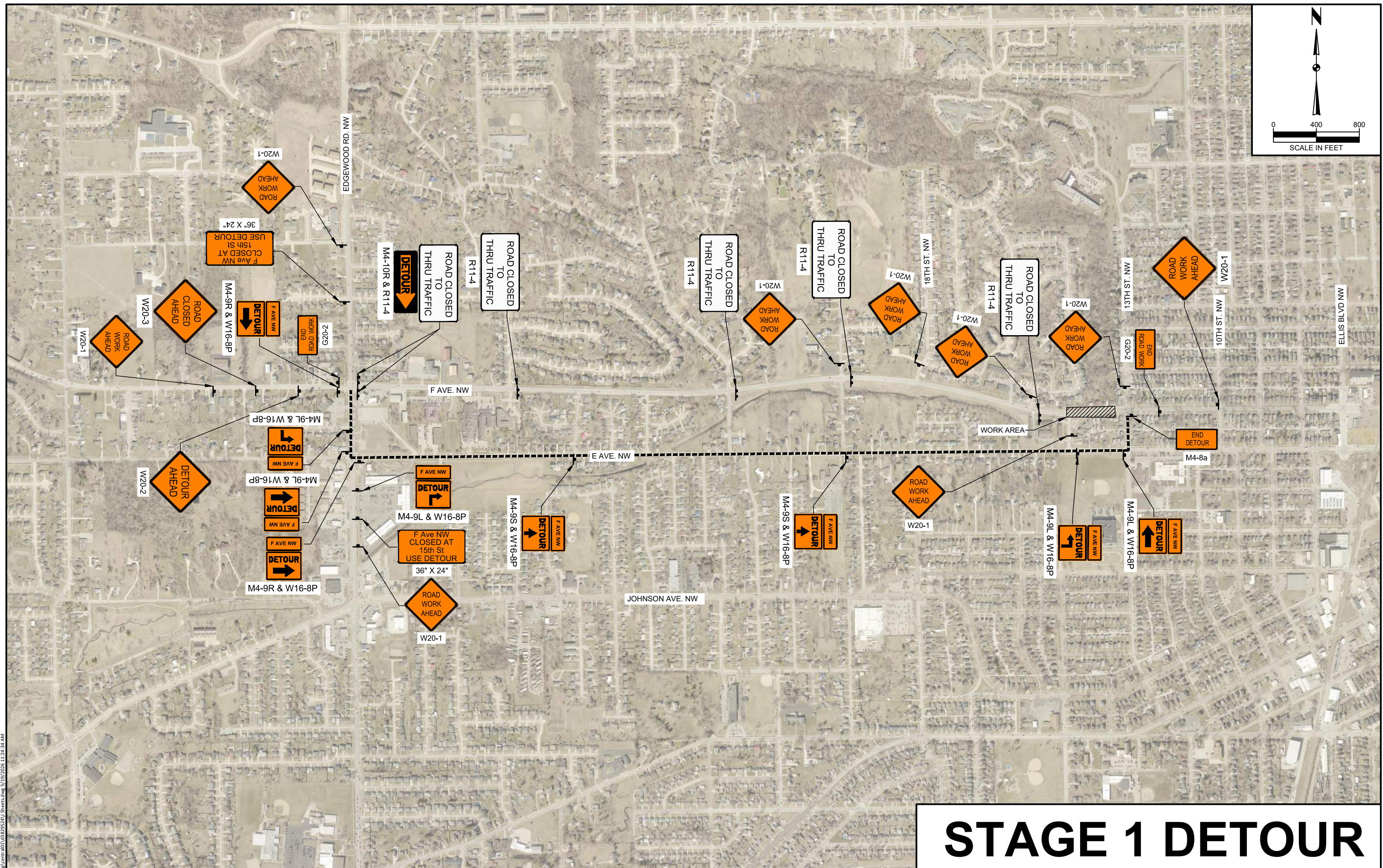
THIS LIST OF APPLICABLE IOWA DOT TC STANDARDS FOR USE ON THIS PROJECT:

- TC-202 - WORK WITHIN 15 FT OF TRAVELED WAY
- TC-252 - ROUTES CLOSED TO TRAFFIC
- TC-601 - PEDESTRIAN DETOUR

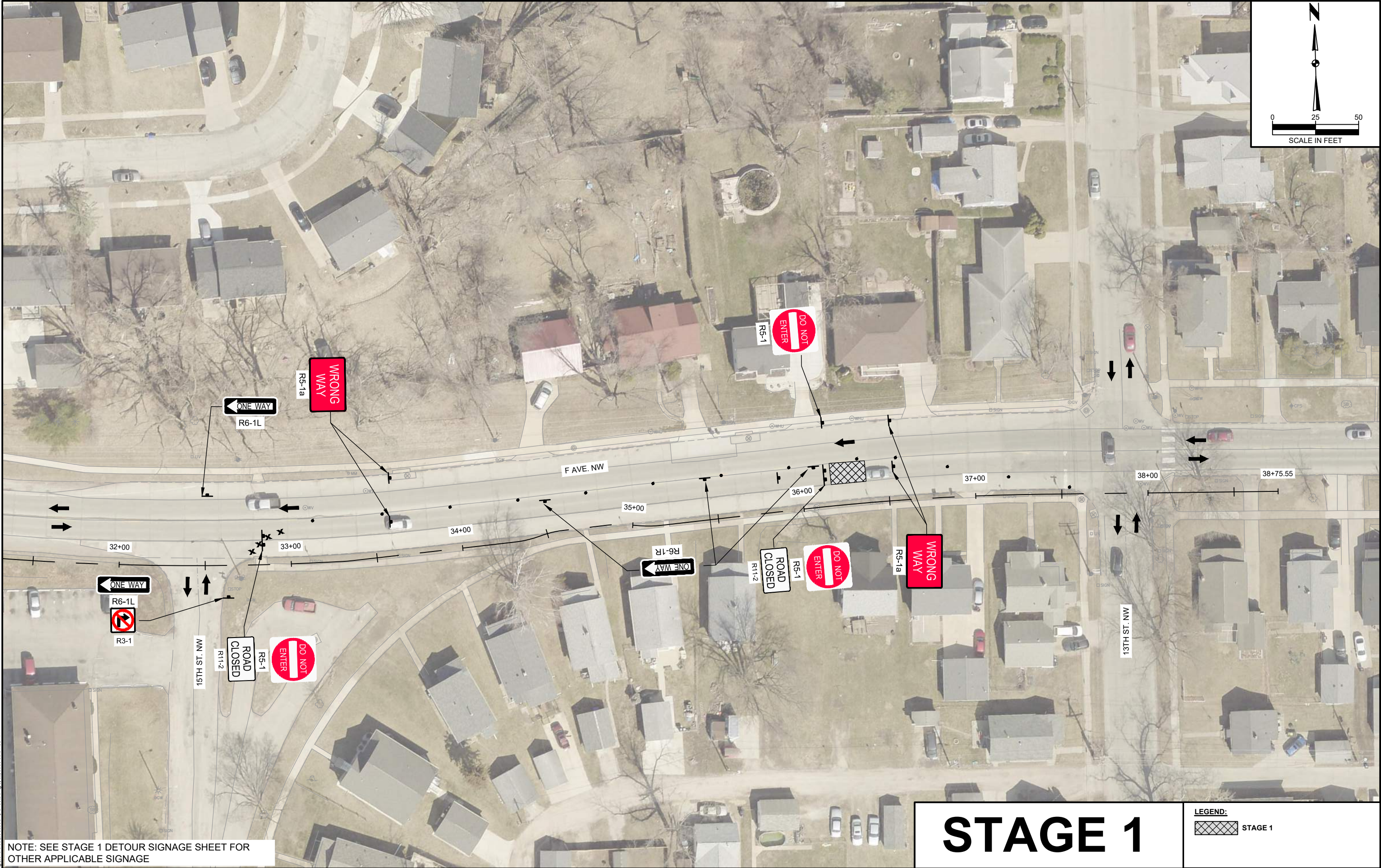
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STAGE 1 DETOUR

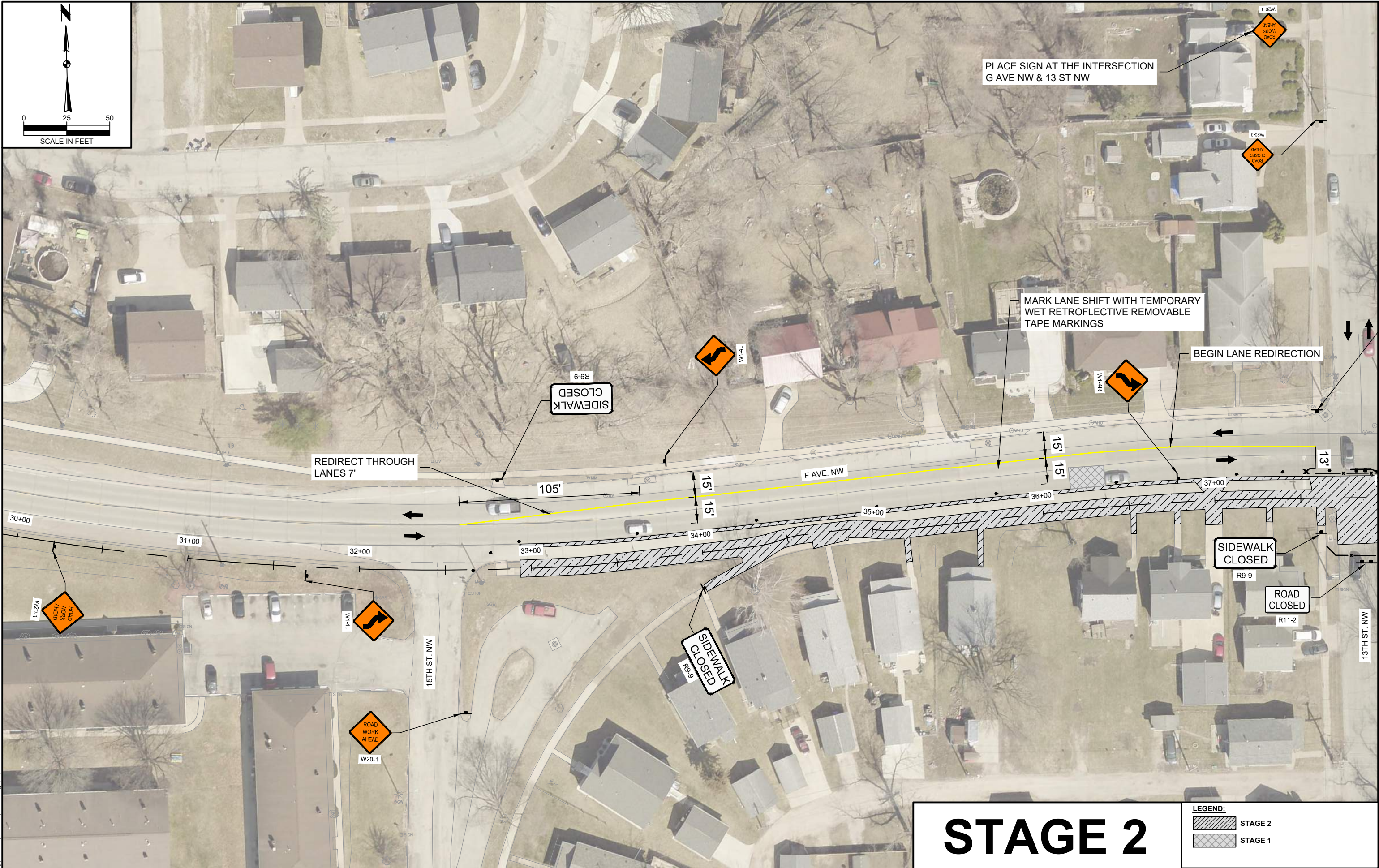
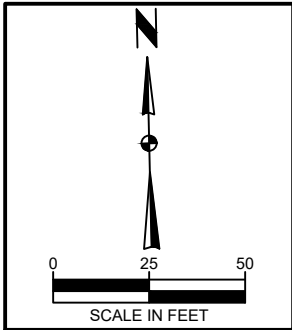


NOTE: SEE STAGE 1 DETOUR SIGNAGE SHEET FOR OTHER APPLICABLE SIGNAGE

STAGE 1

LEGEND:

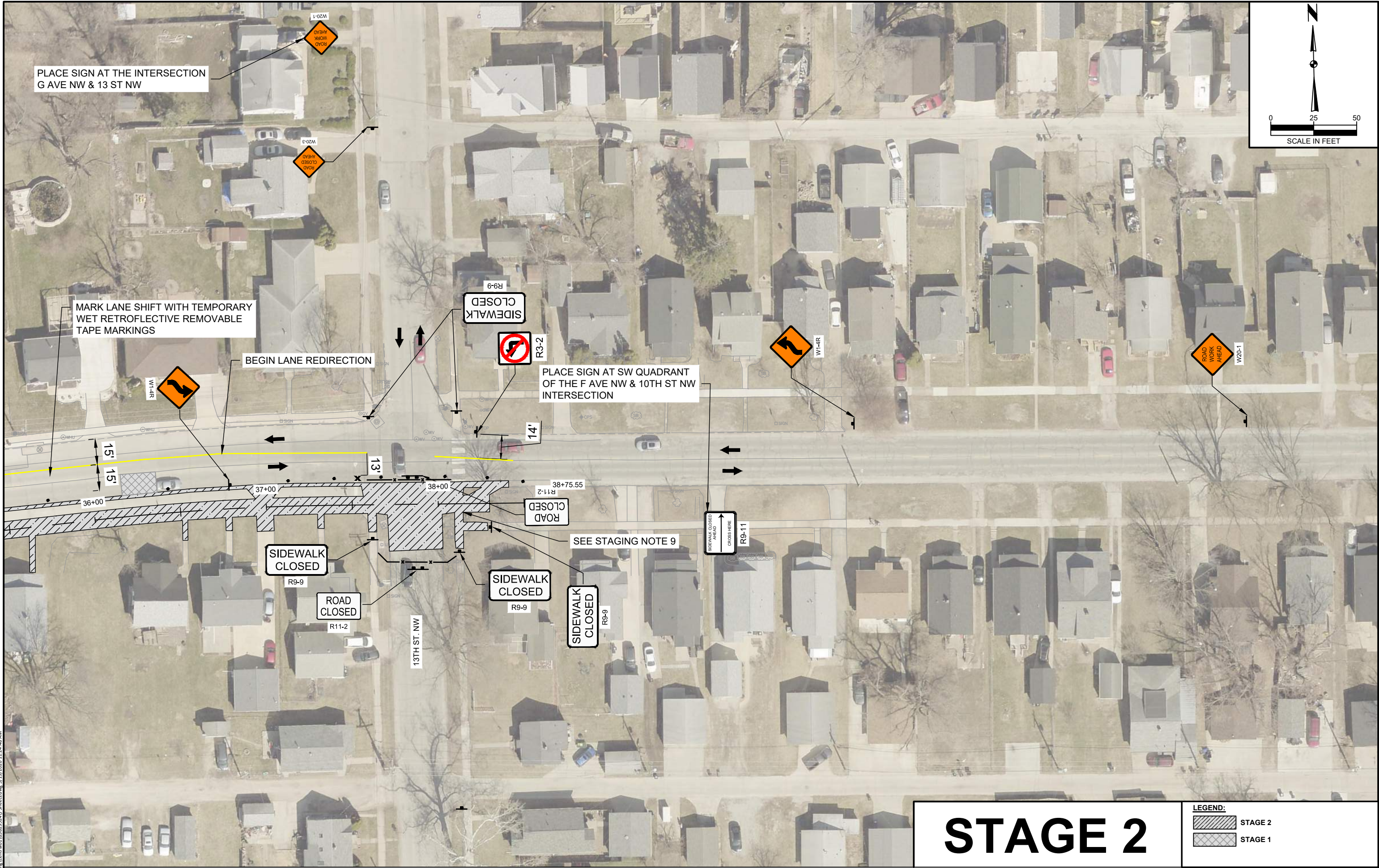
 STAGE 1



STAGE 2

LEGEND:	
	STAGE 2
	STAGE 1

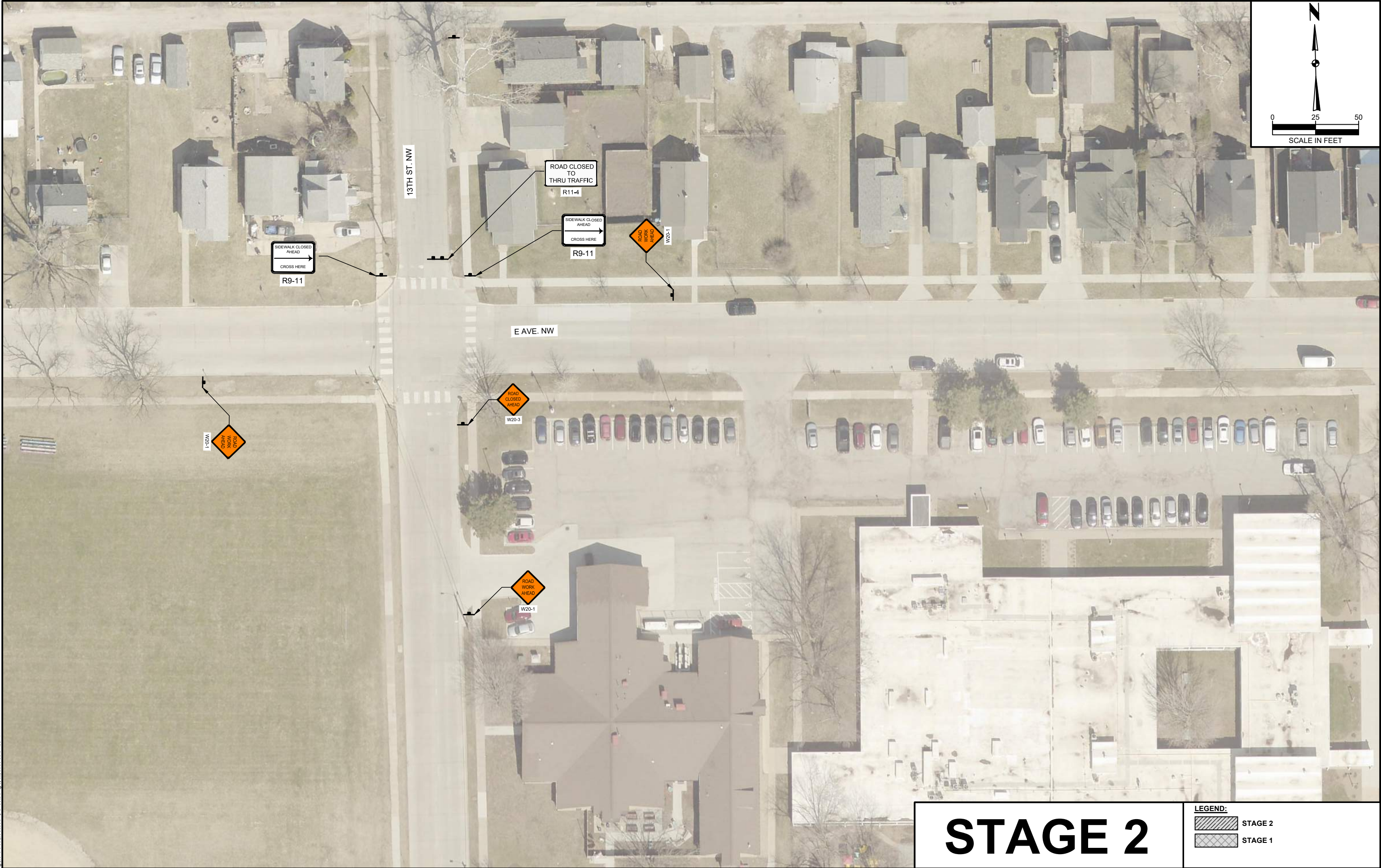
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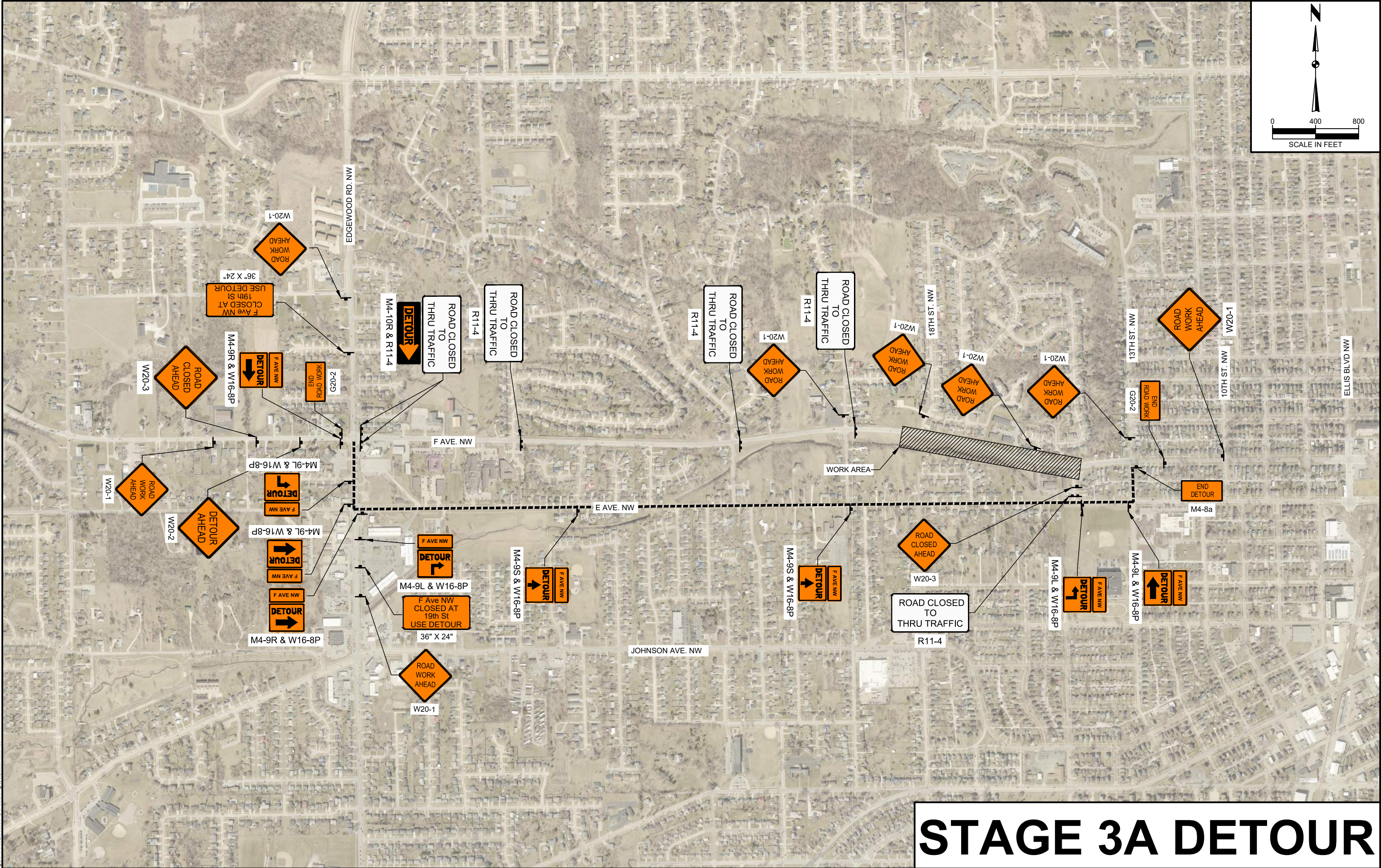
STAGE 2

LEGEND:	
	STAGE 2
	STAGE 1

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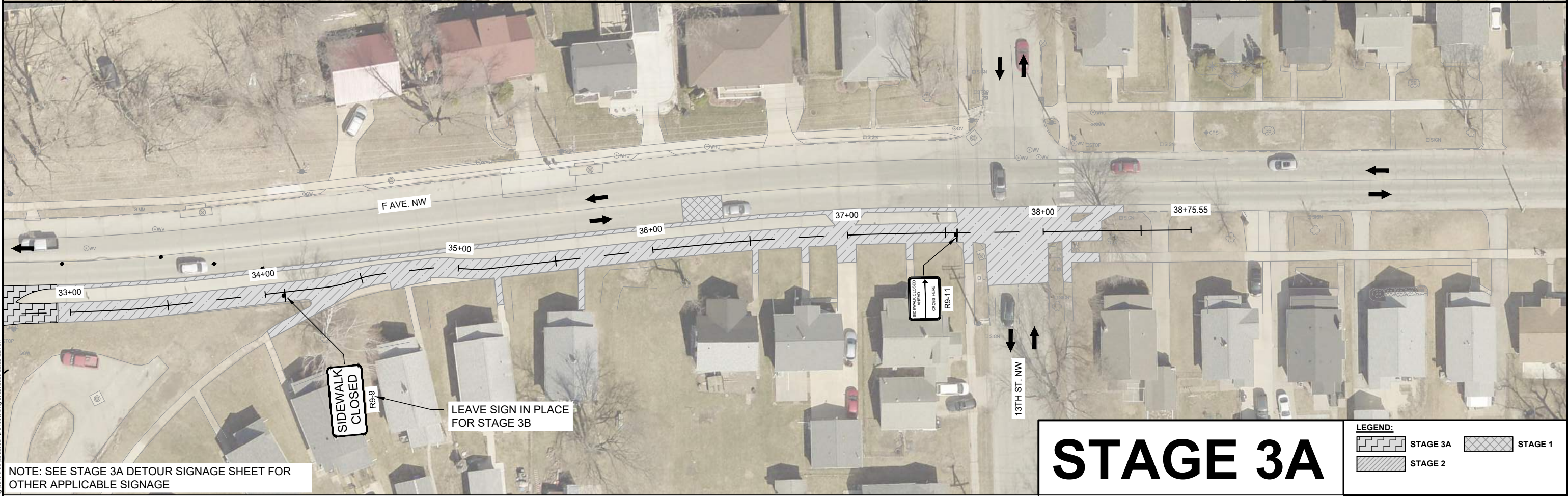
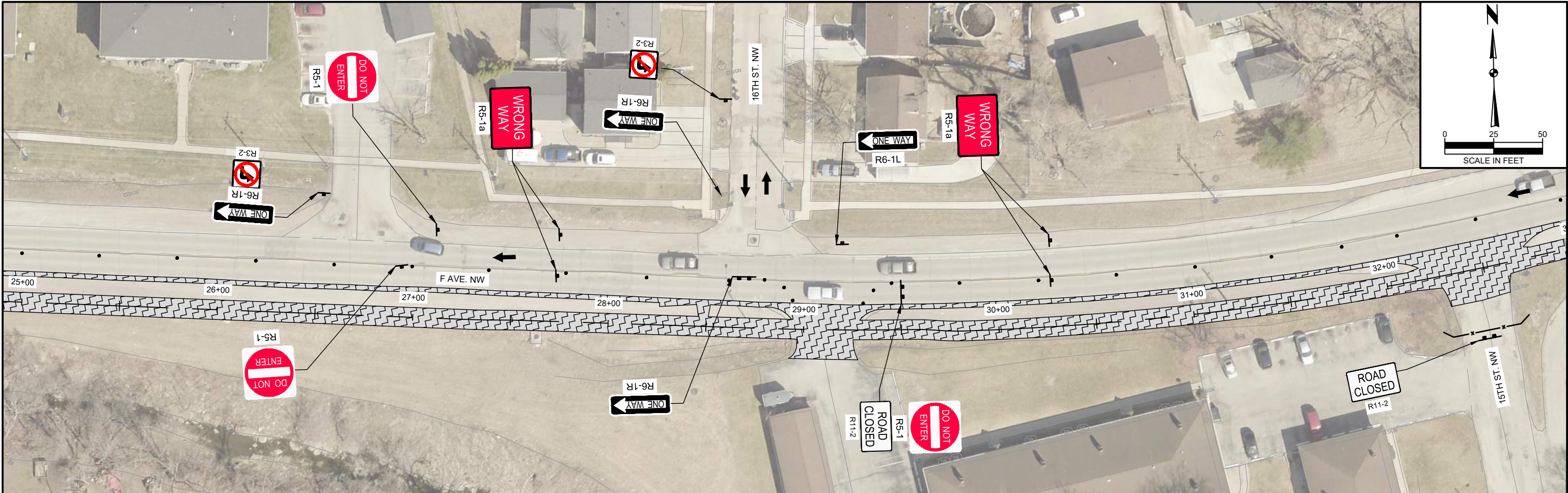
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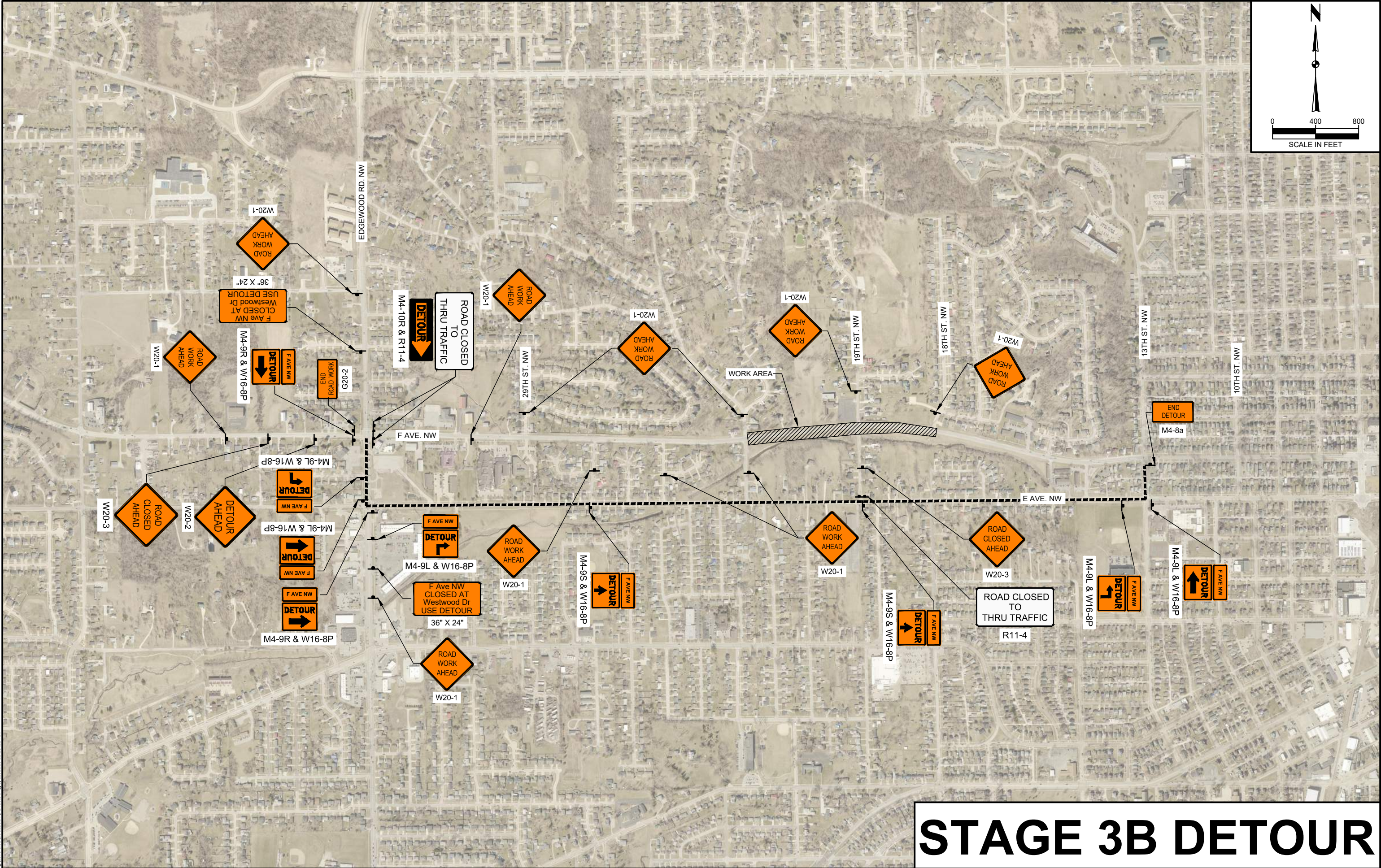
STAGE 3A DETOUR

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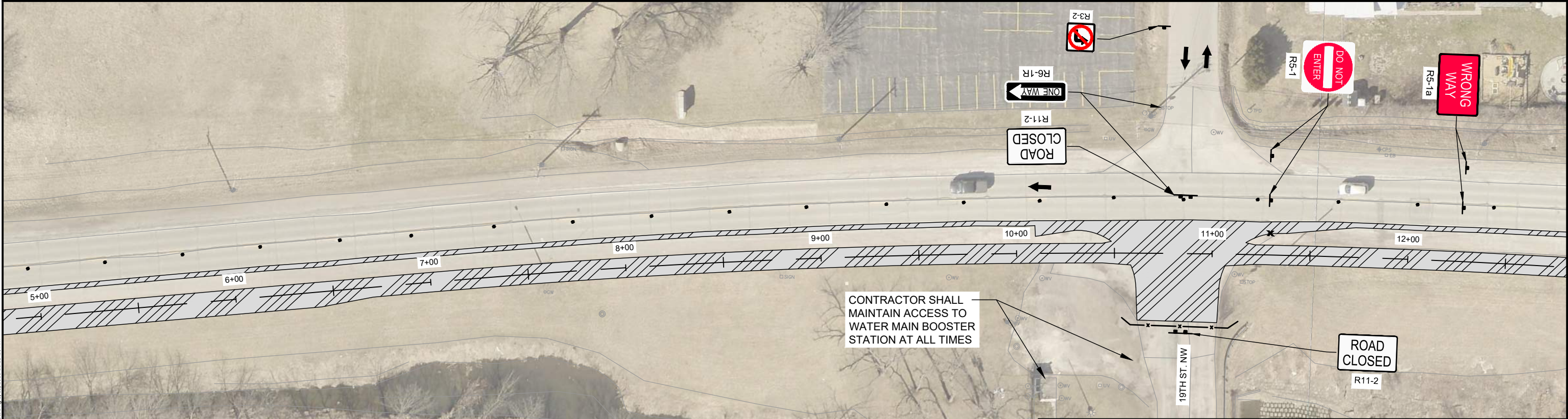
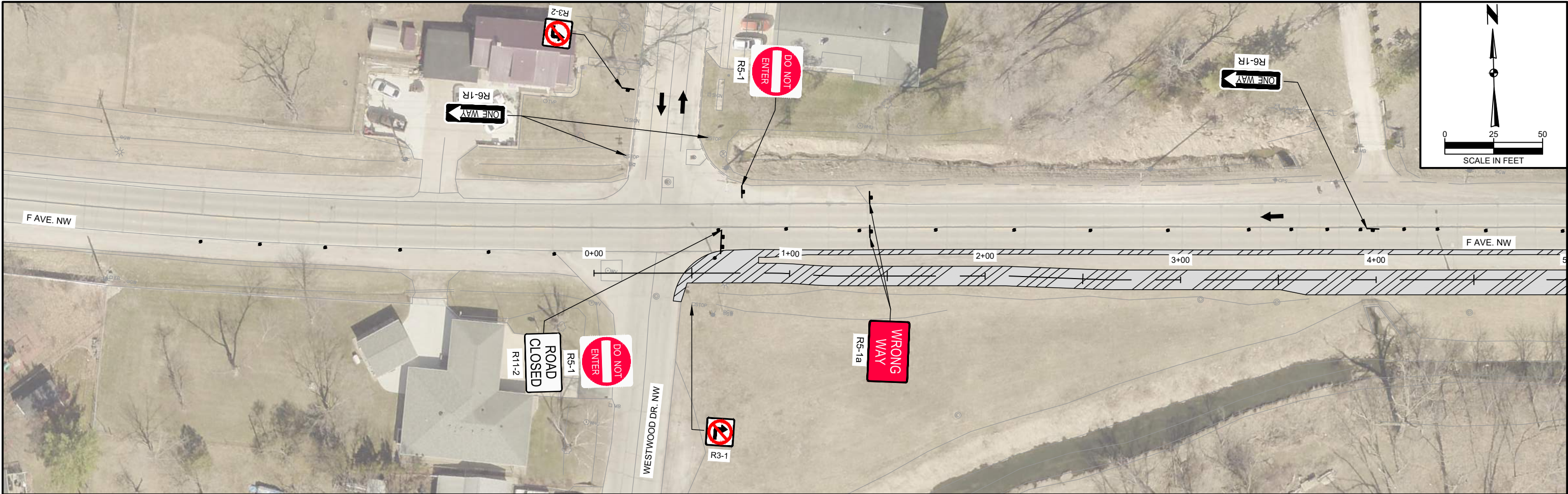


NOTE: SEE STAGE 3A DETOUR SIGNAGE SHEET FOR OTHER APPLICABLE SIGNAGE



STAGE 3B DETOUR

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NOTE: SEE STAGE 3B DETOUR SIGNAGE SHEET FOR OTHER APPLICABLE SIGNAGE

STAGE 3B

LEGEND:

	STAGE 3B		STAGE 1
	STAGE 3A		
	STAGE 2		

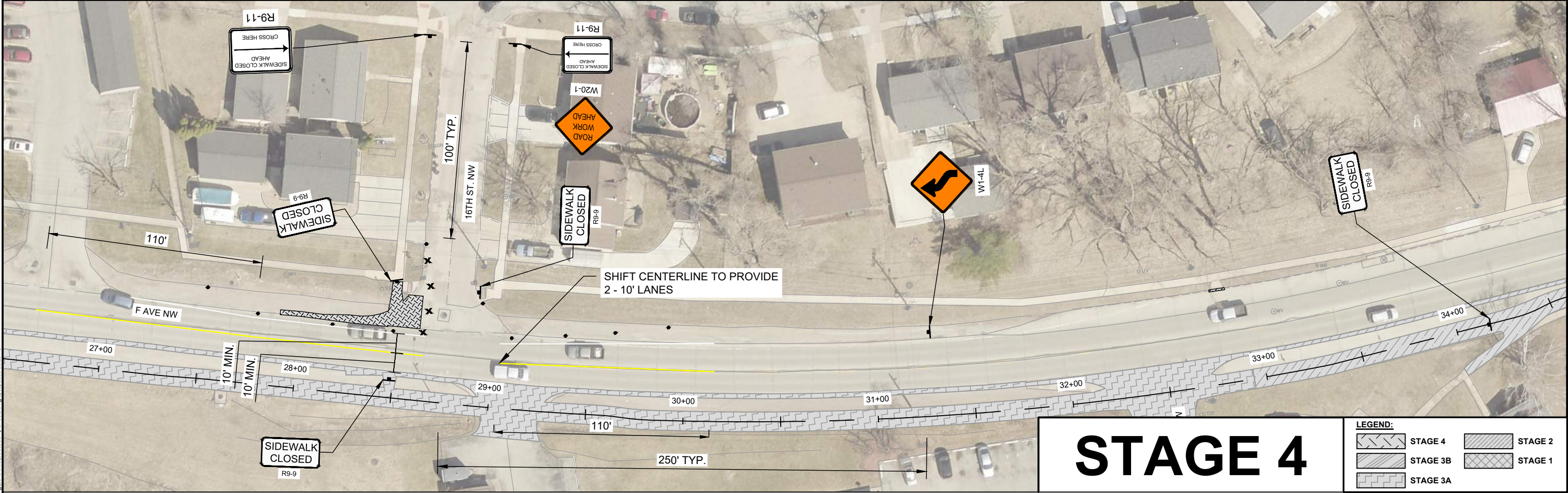
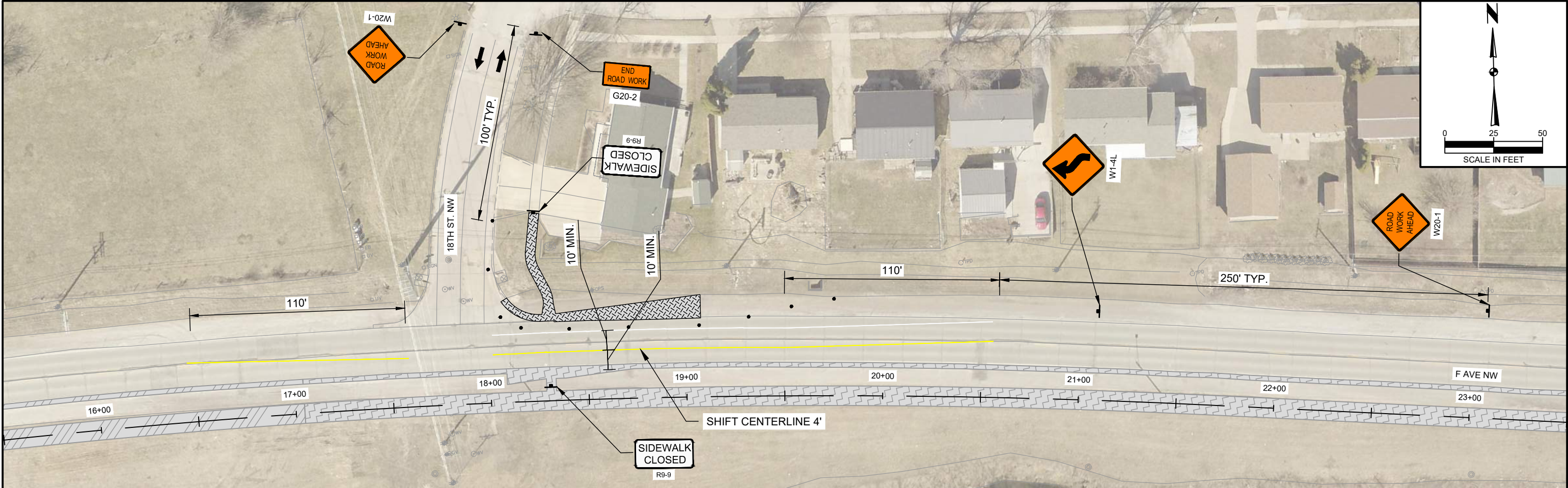


NOTE: SEE STAGE 3B DETOUR SIGNAGE SHEET FOR OTHER APPLICABLE SIGNAGE

STAGE 3B

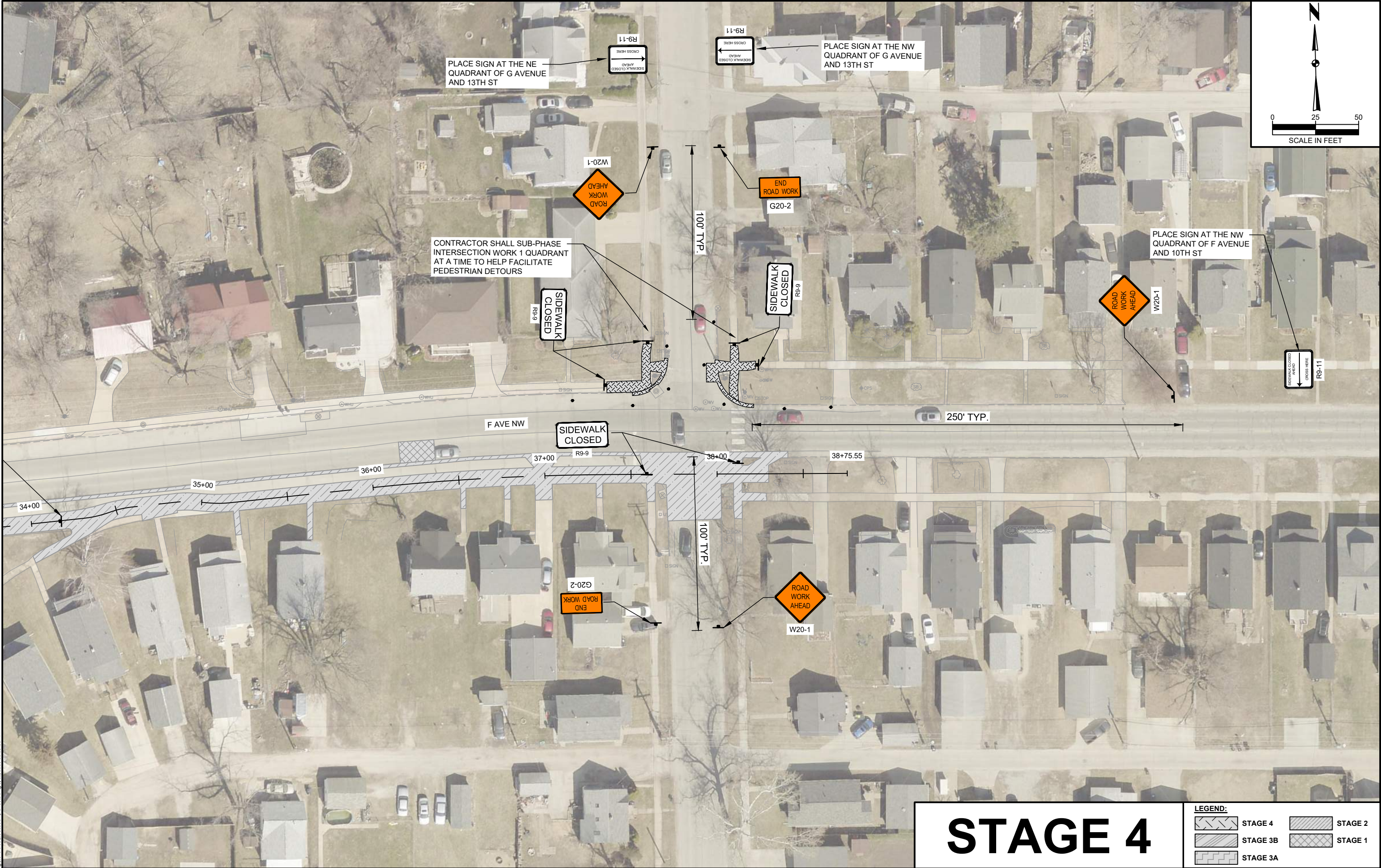
LEGEND:	
	STAGE 3B
	STAGE 3A
	STAGE 2
	STAGE 1

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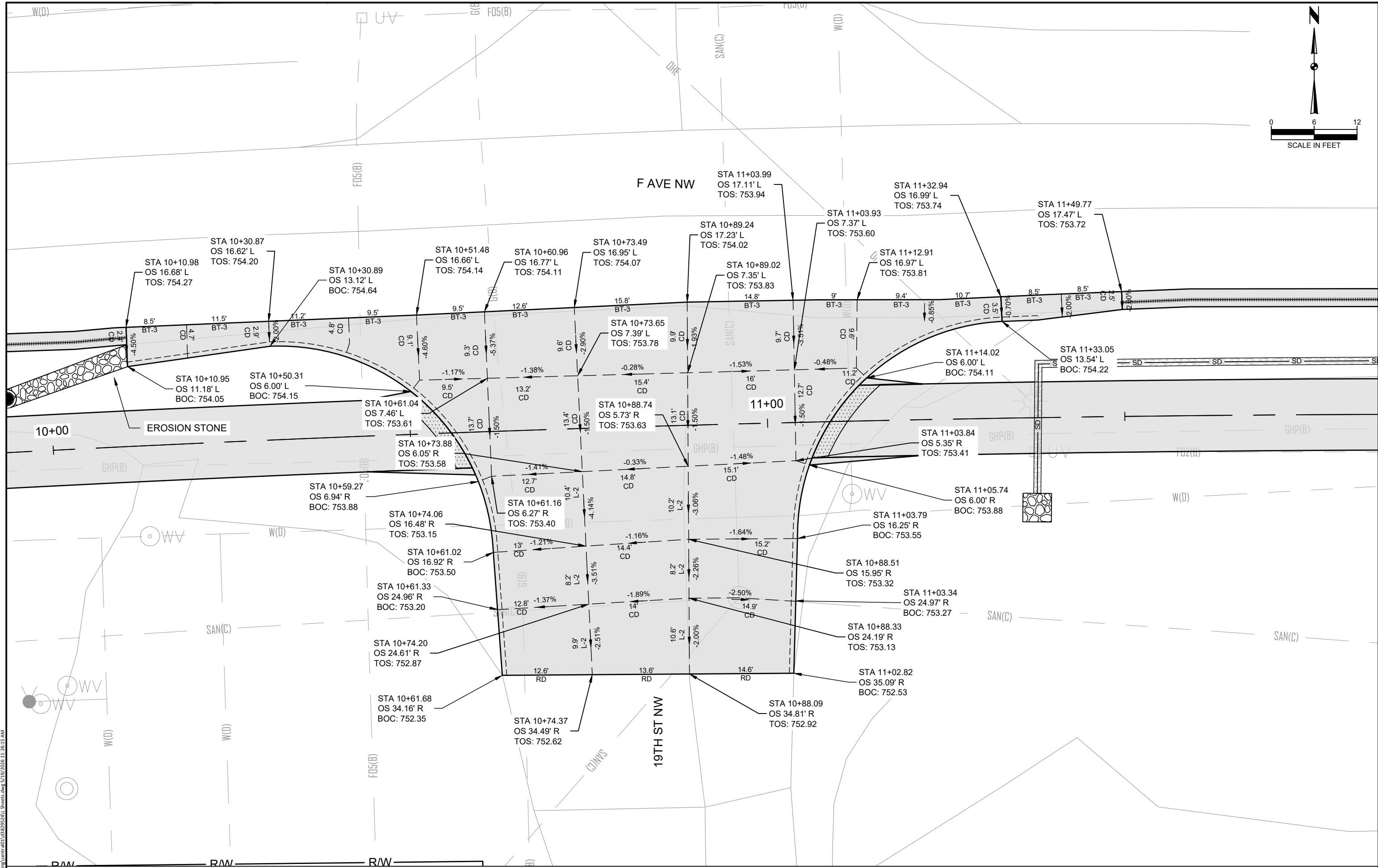
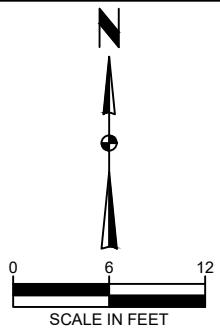


STAGE 4

LEGEND:			
	STAGE 4		STAGE 2
	STAGE 3B		STAGE 1
	STAGE 3A		

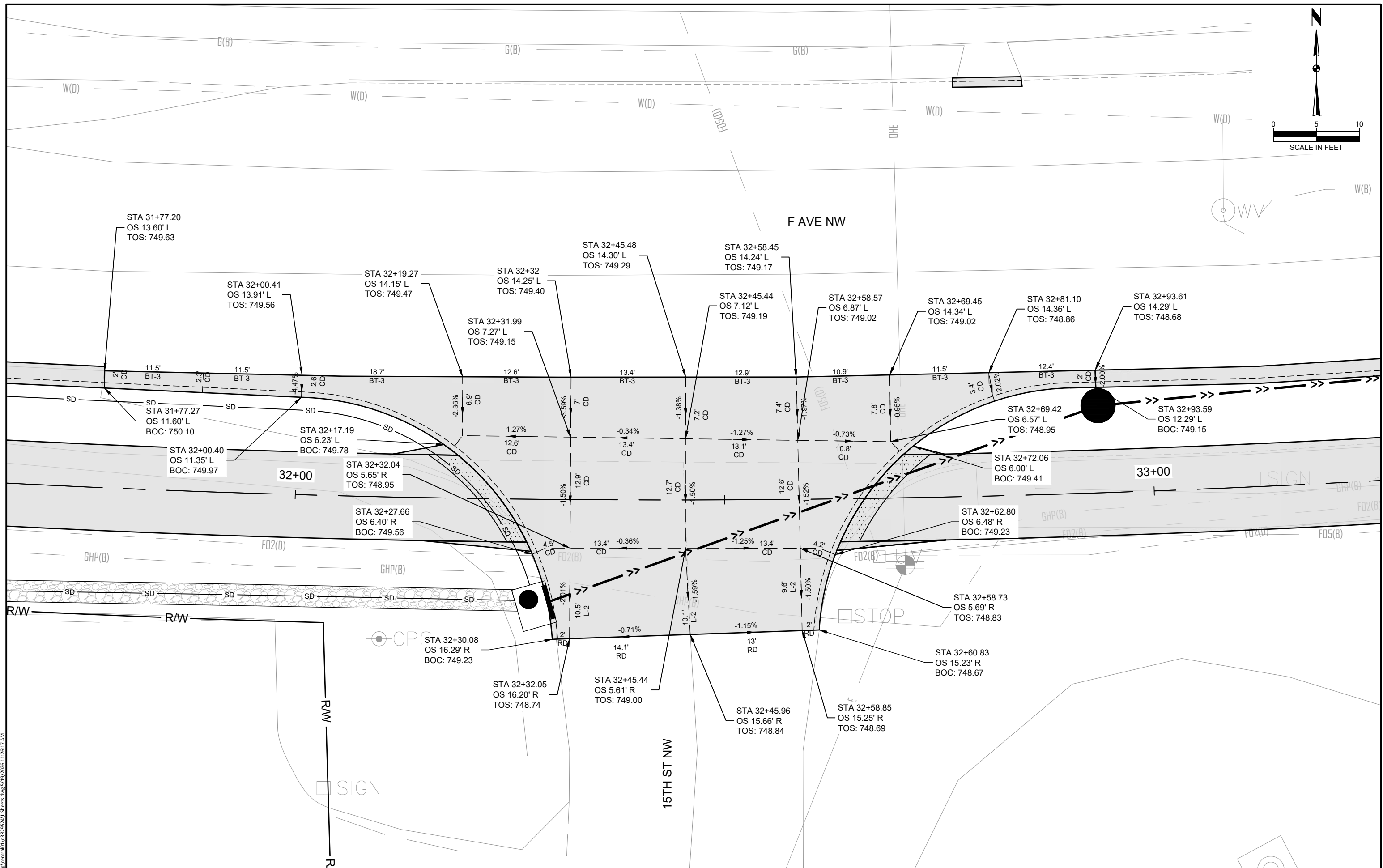


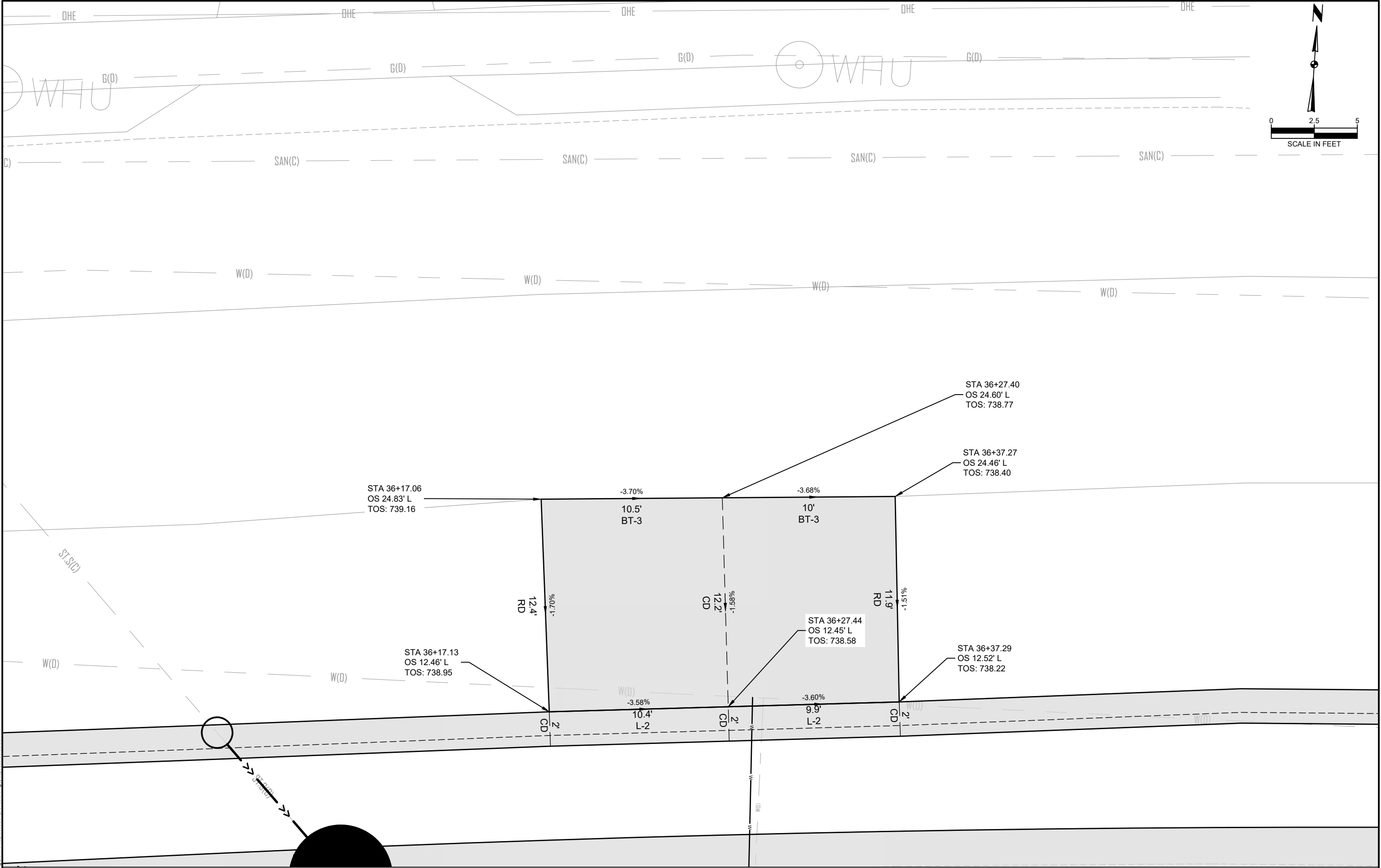
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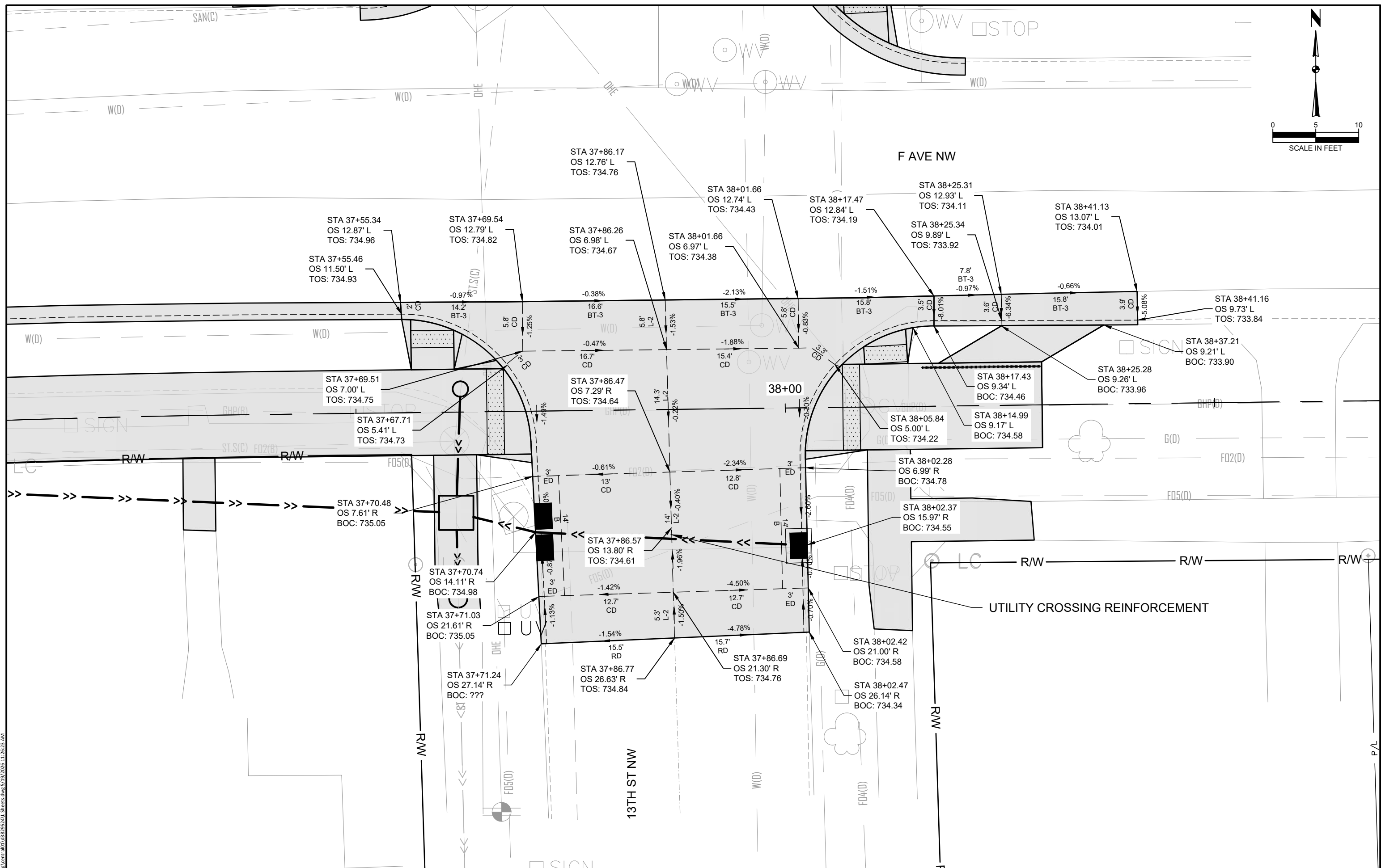
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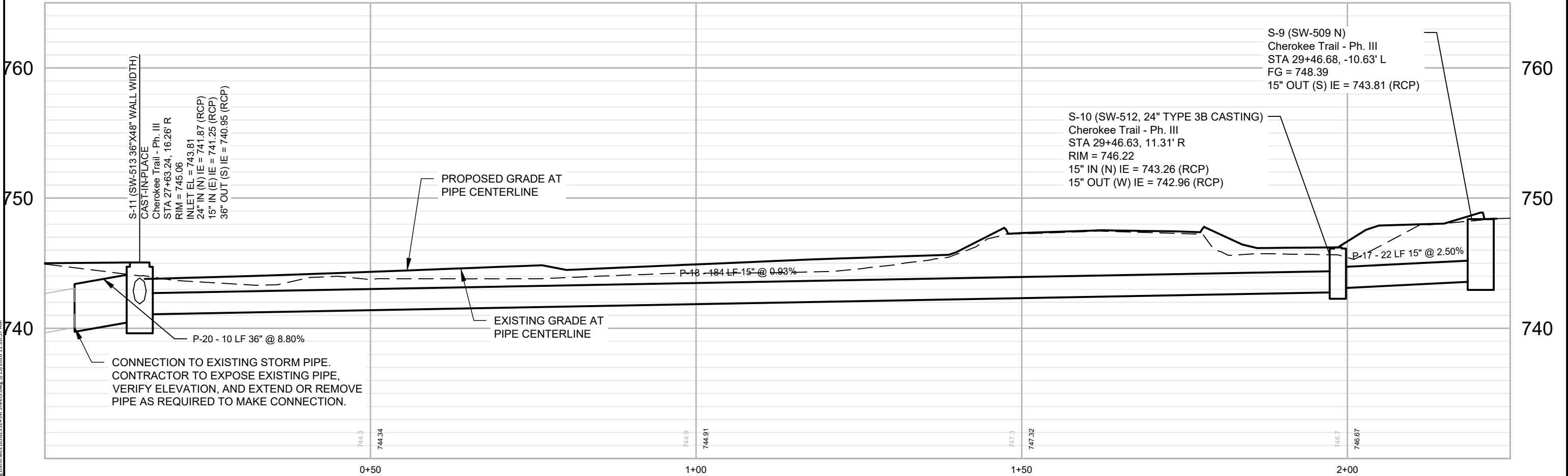
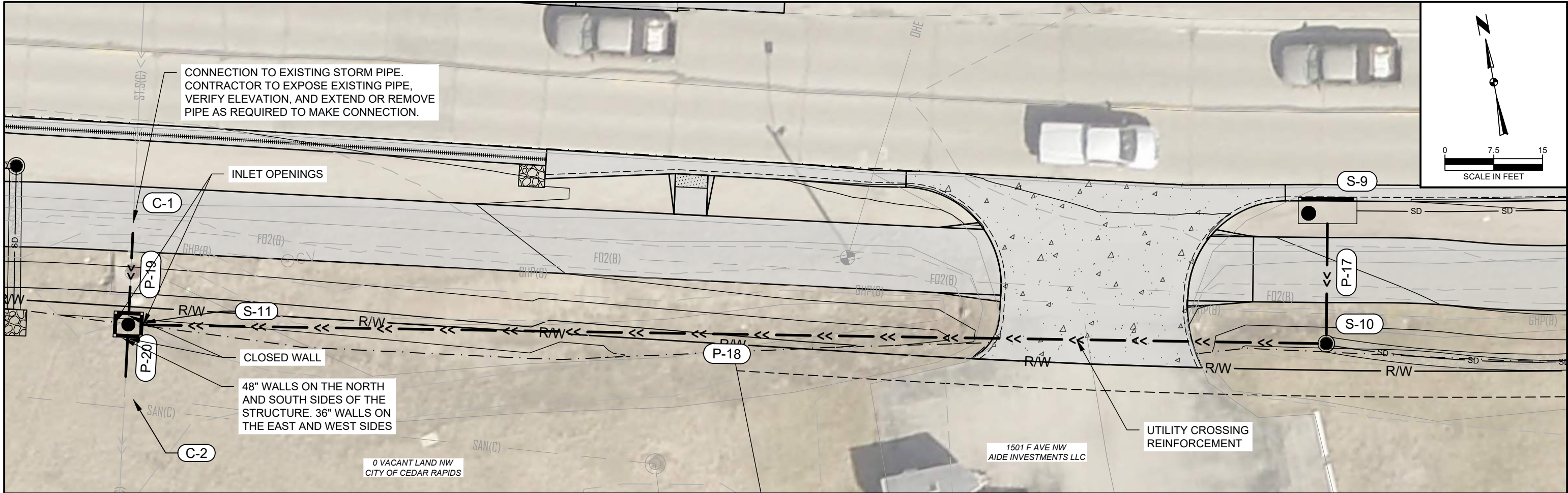
ENGLISH		IOWA DOT	DESIGN TEAM	HDR ENGINEERING	CITY OF CEDAR RAPIDS	LINN COUNTY	PROJECT NUMBER	TAP-U-1187(801)--8I-57	SHEET NUMBER	L.1
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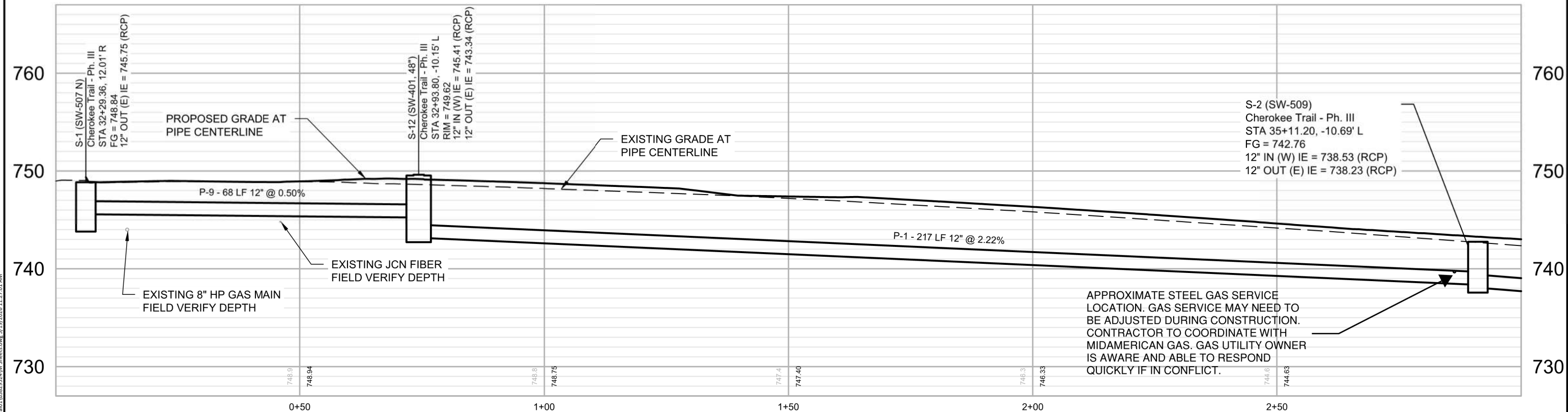
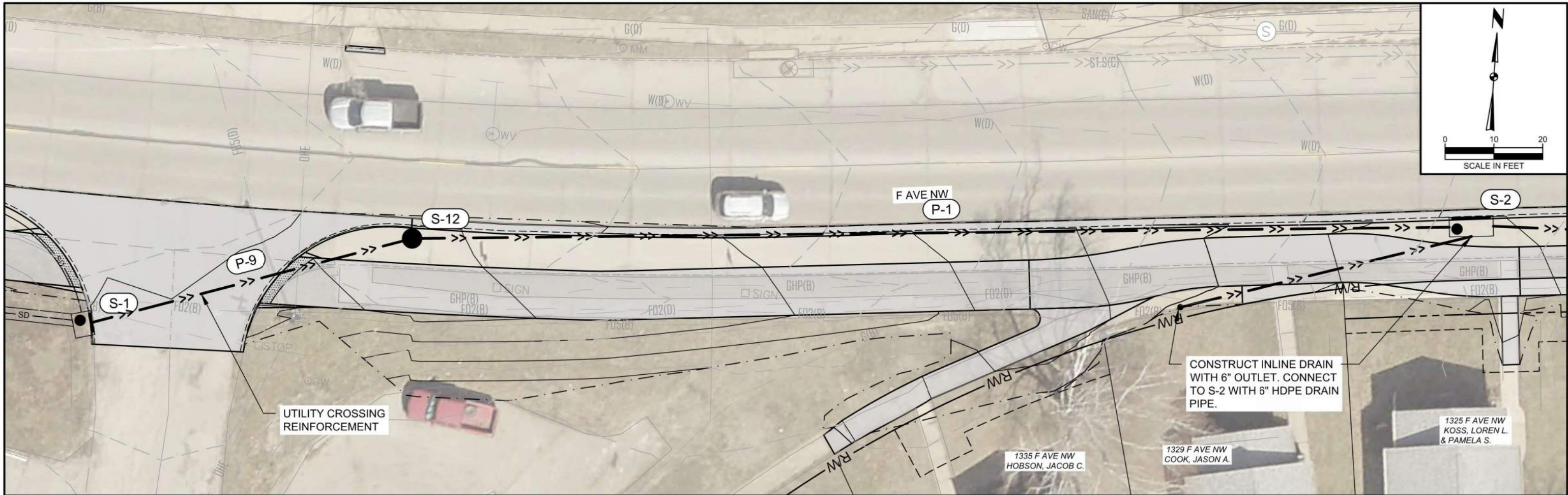


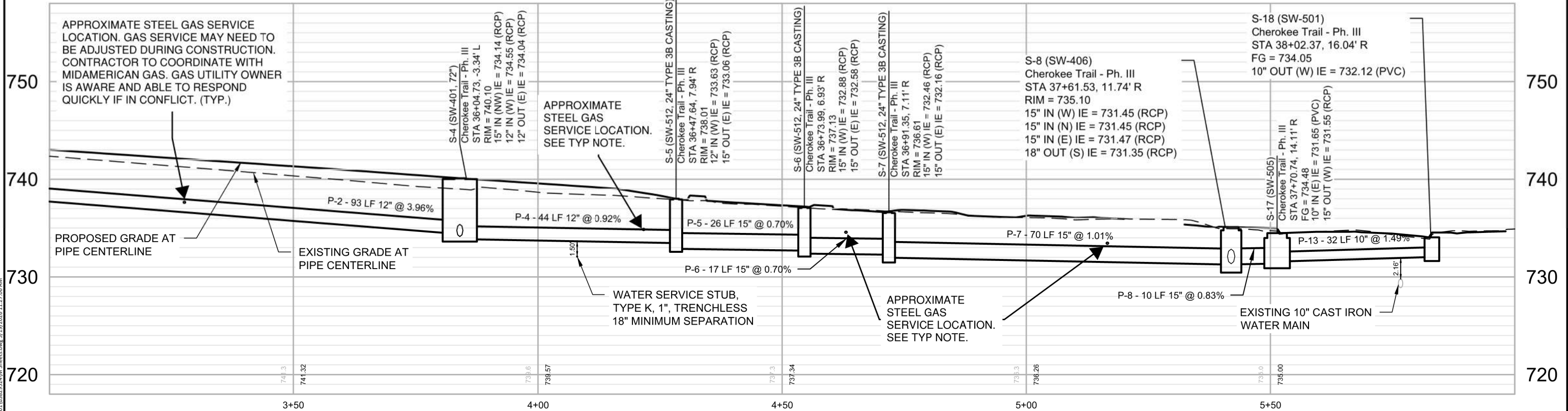
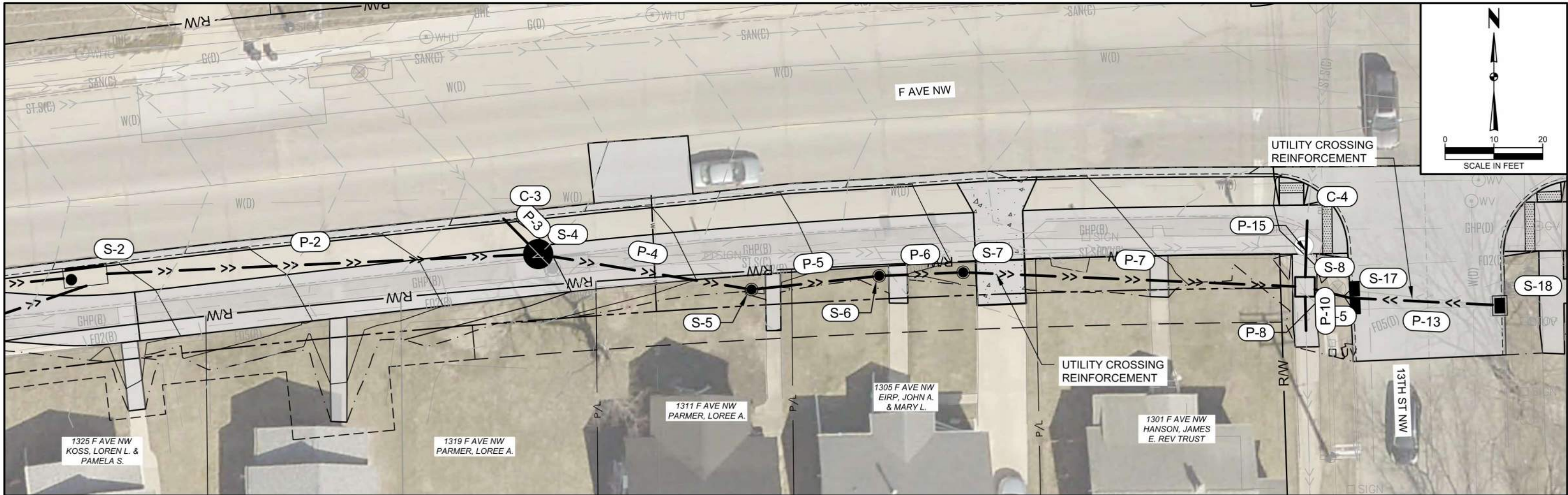
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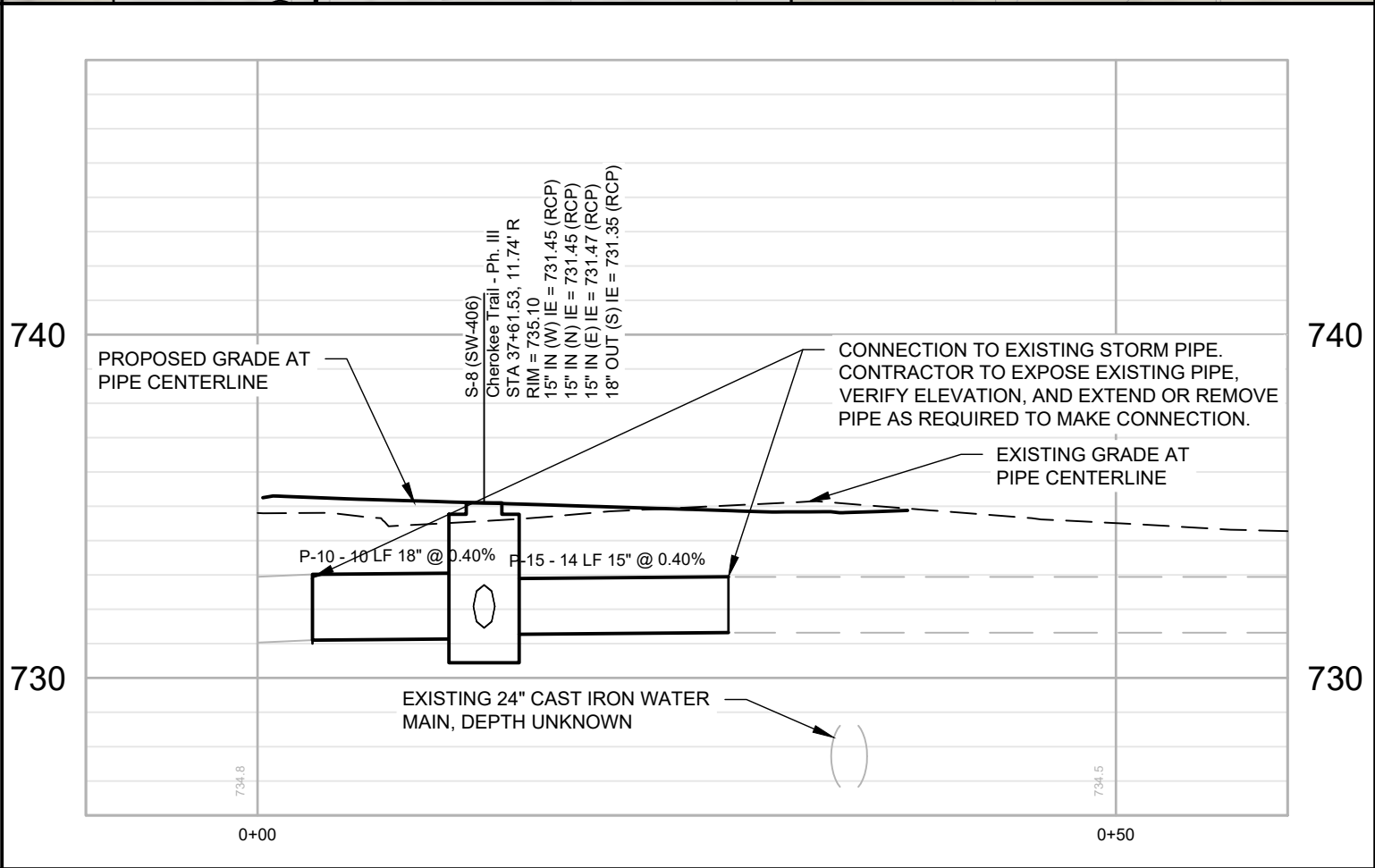
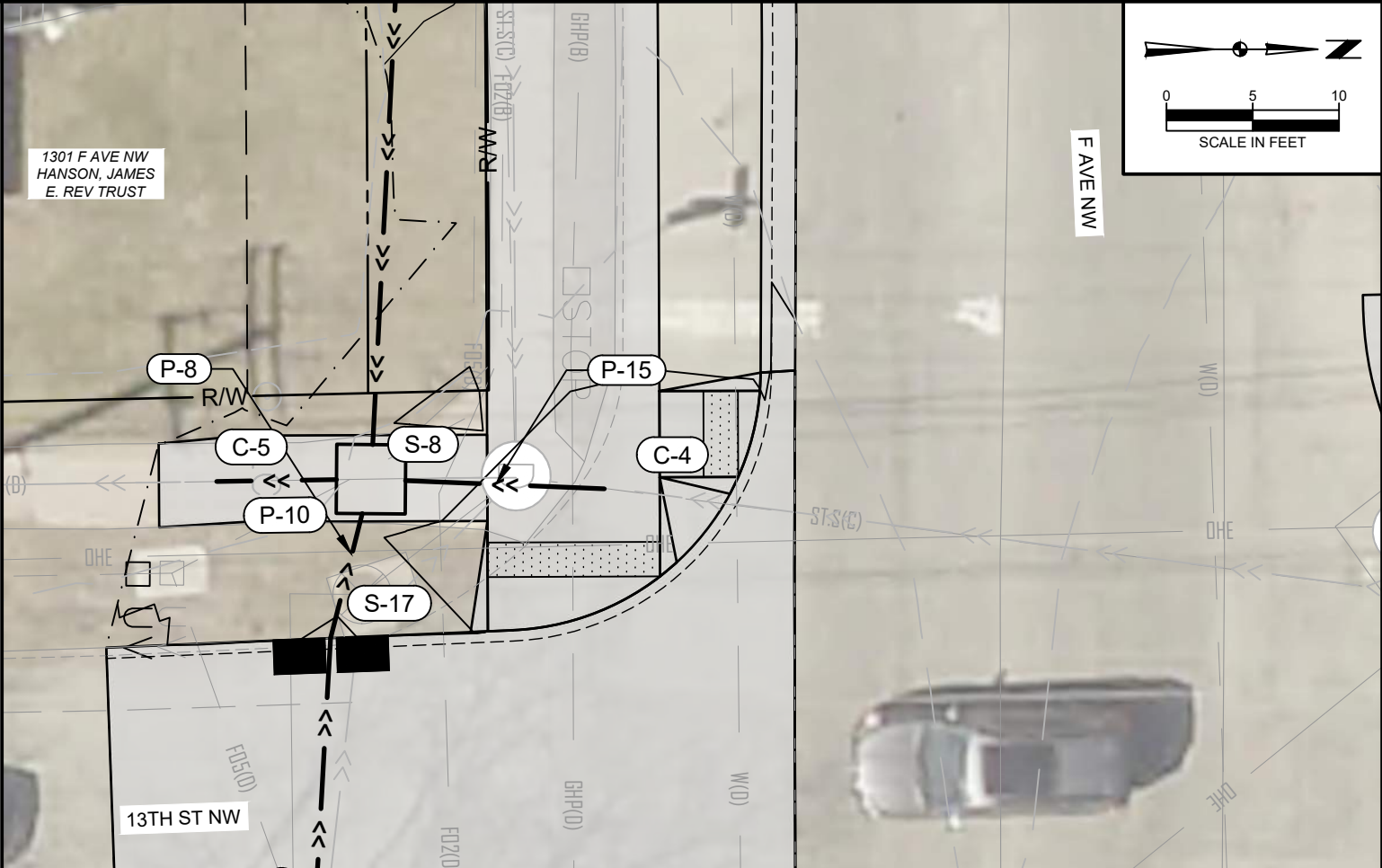




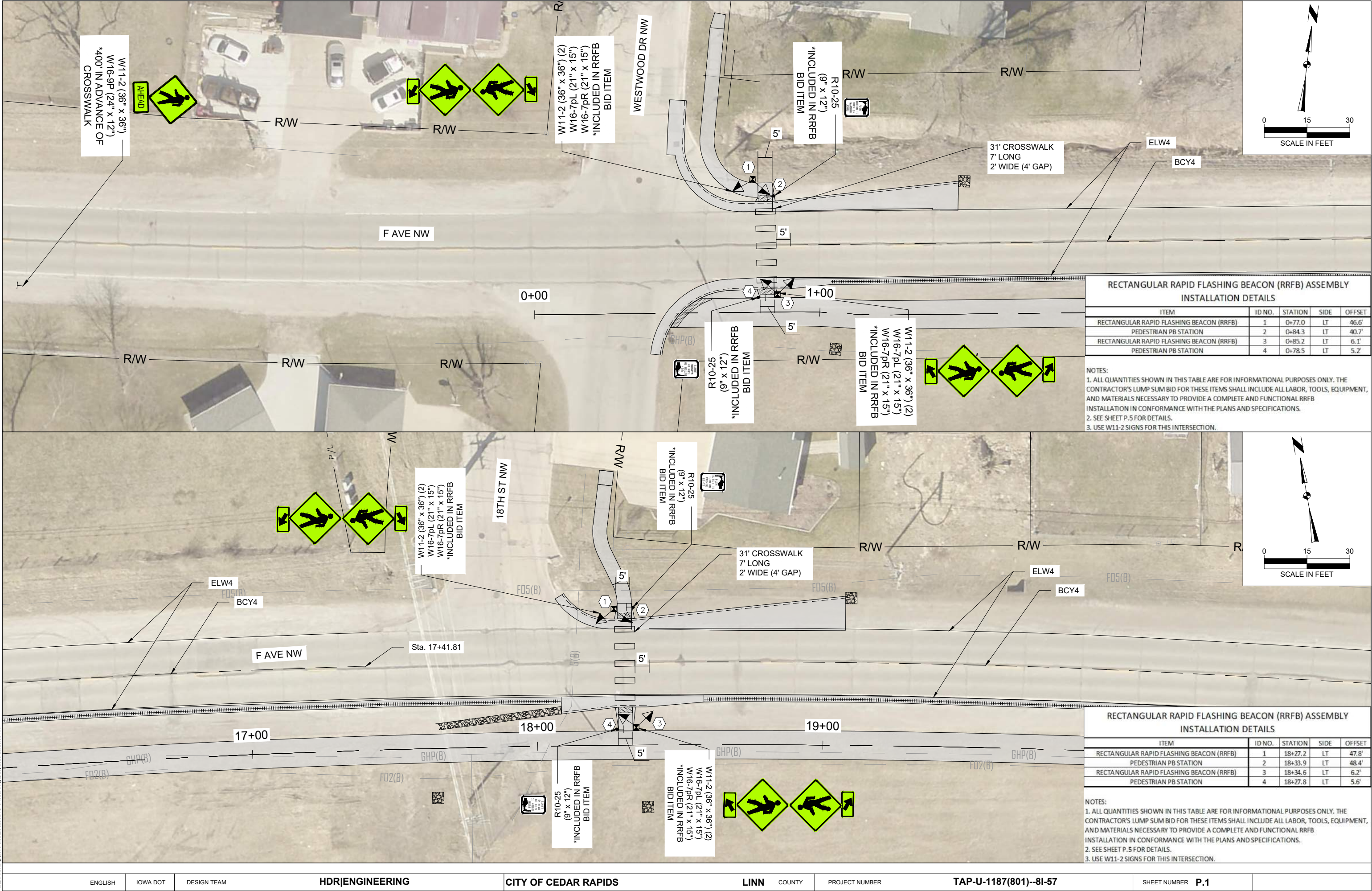
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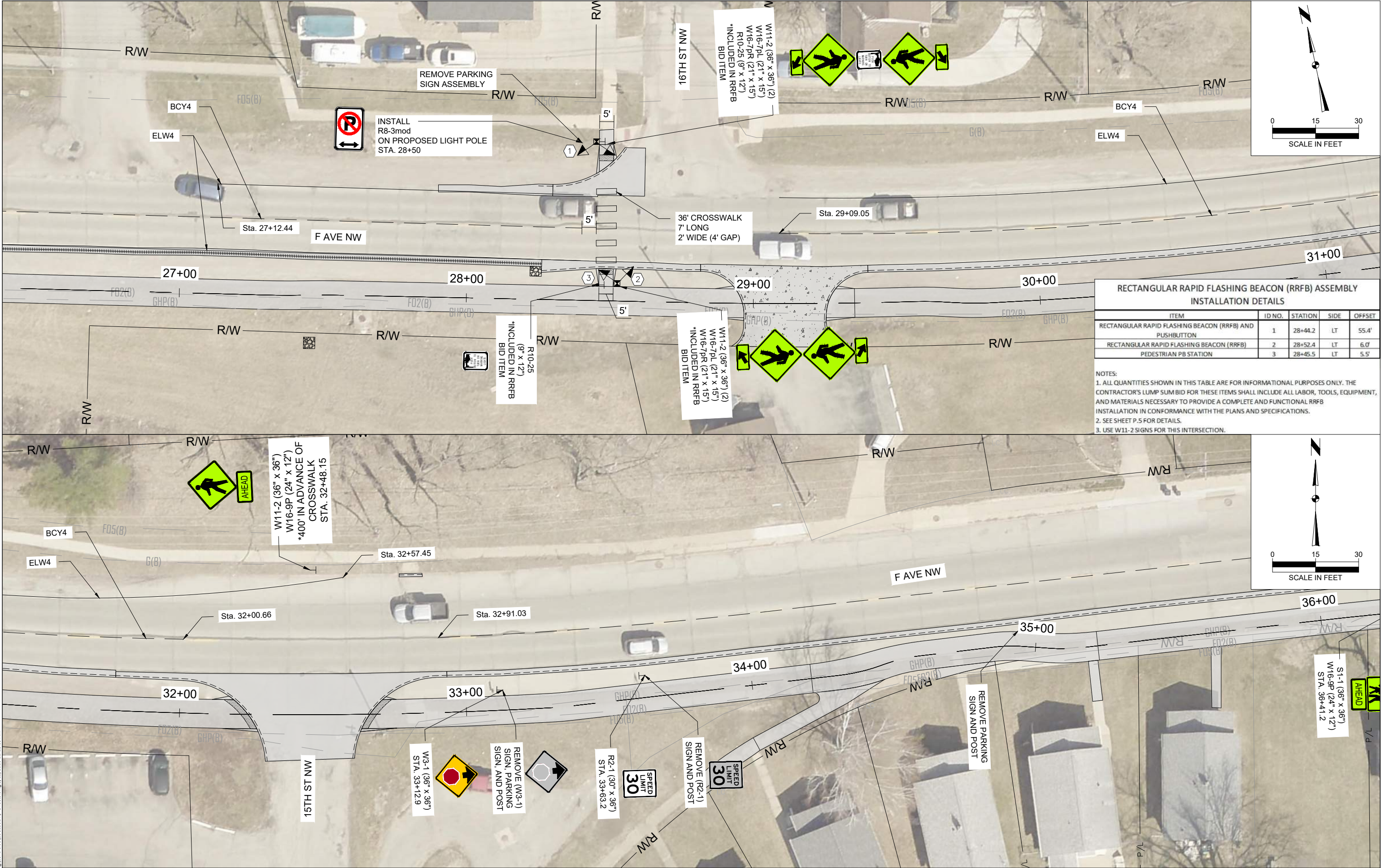


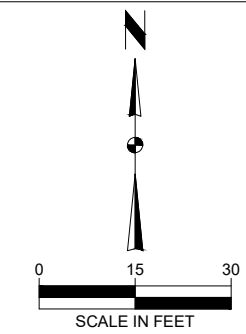
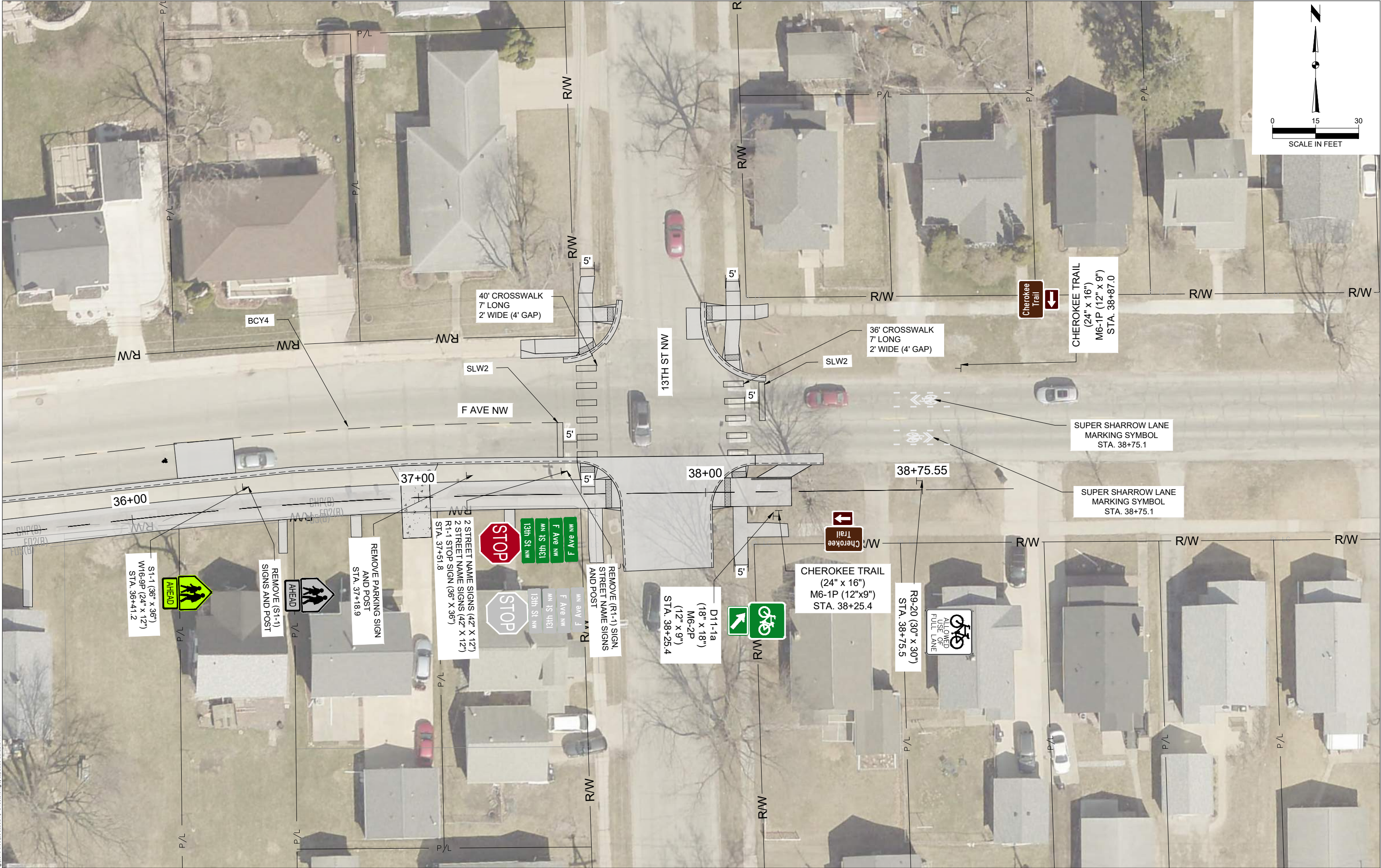


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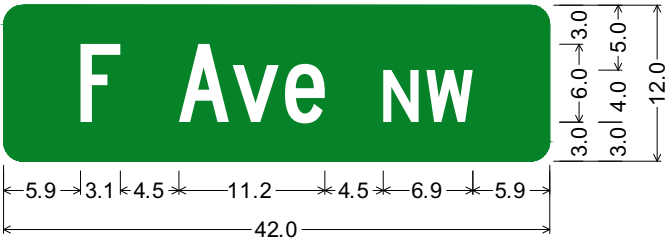


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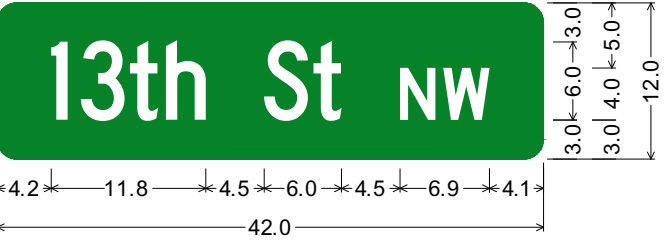




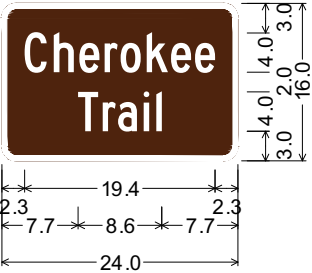
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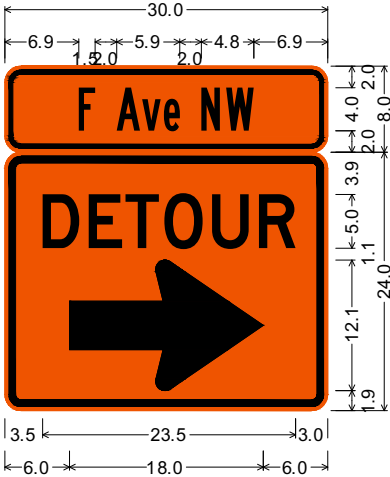
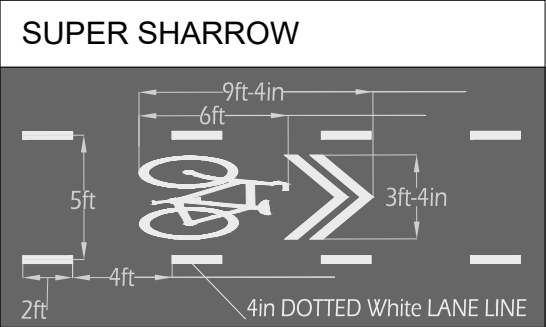
1.5" Radius, No border, White on Green;
"F", C 2K; "Ave", C 2K; "NW", D 2K;



1.5" Radius, No border, White on Green;
"13th", C 2K; "St", C 2K; "NW", D 2K;

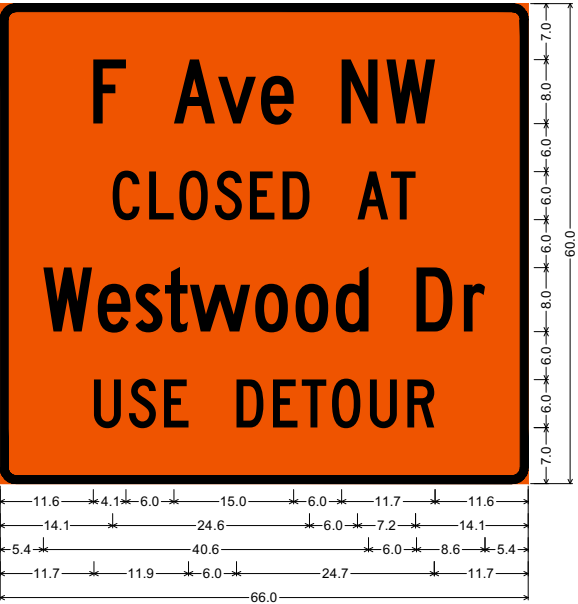


1.5" Radius, 0.5" Border, White on Brown
"Cherokee", C 2K;
"Trail", C 2K;

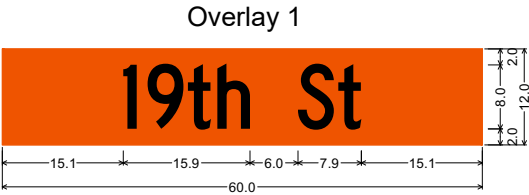


1.5" Radius, 0.4" Border, 0.4" Indent, Black on Orange;
"F Ave NW", B 2K 106% spacing;
1.5" Radius, 0.6" Border, 0.4" Indent, Black on Orange;
"DETOUR", D 2K specified length;
Standard Arrow Custom 18.0" X 12.1" 0°;

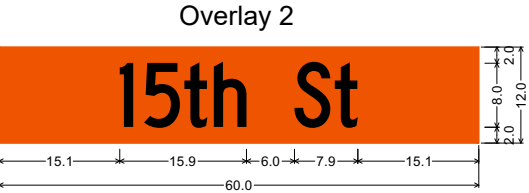
DETOUR SIGN



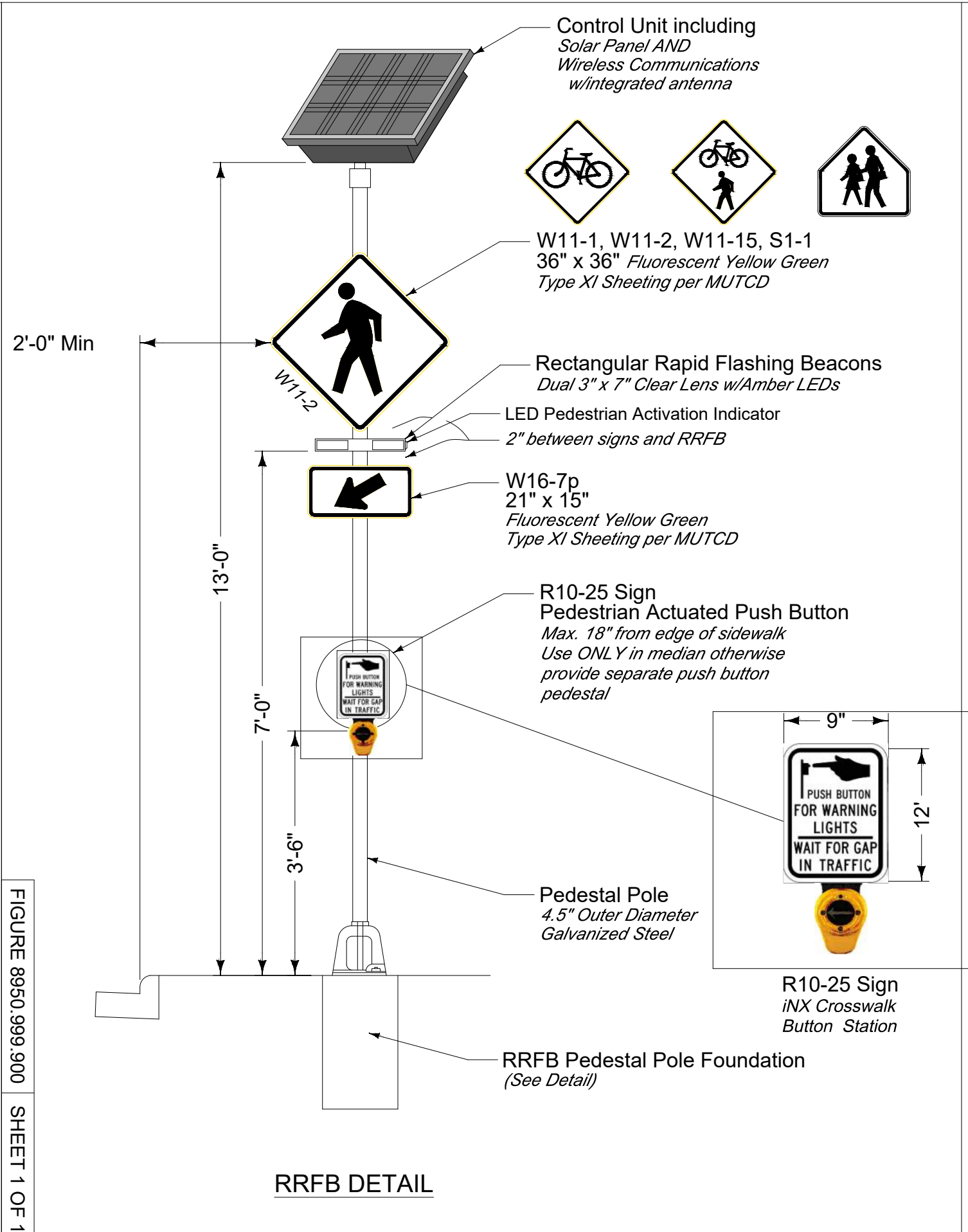
1.0" Border, Black on Orange;
"F Ave NW", C 2K; "CLOSED AT", C 2K; "Westwood Dr", C 2K;
"USE DETOUR", C 2K;



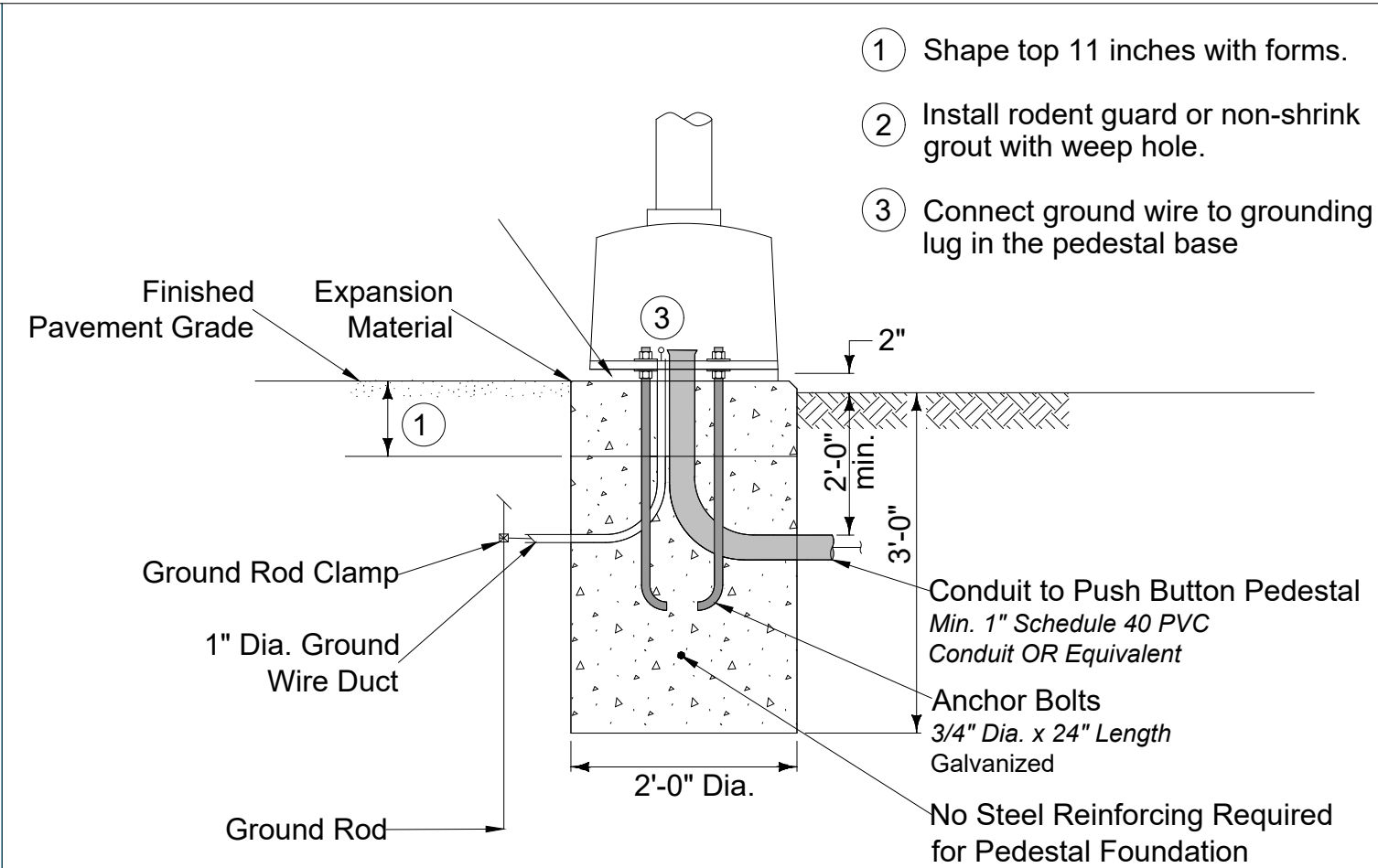
No border, Orange;
"19th St" Black, C 2K;



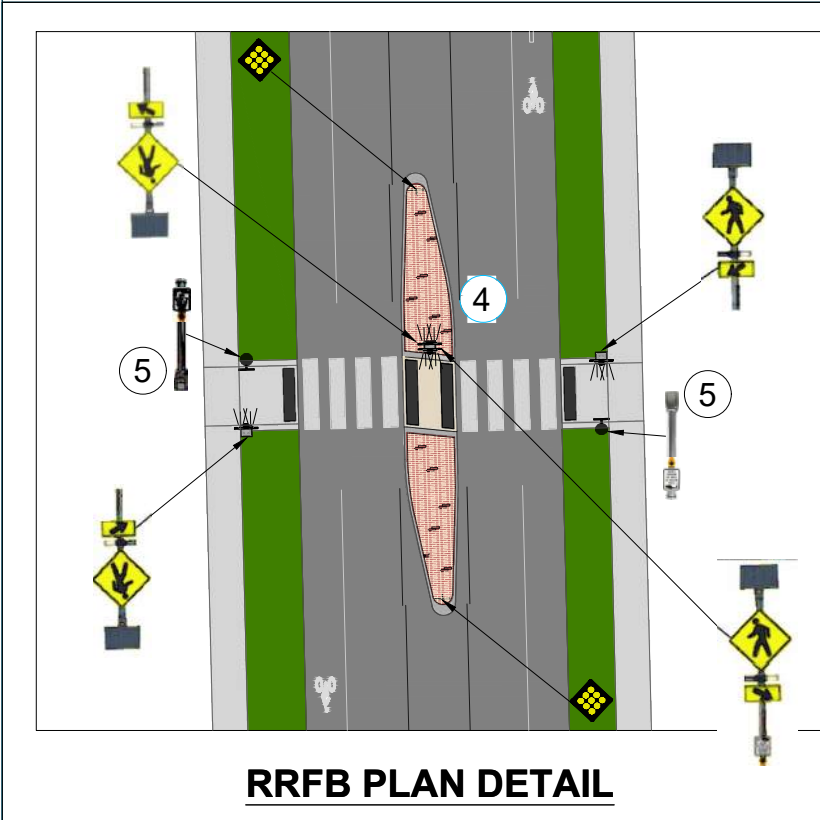
No border, Orange;
"15th St" Black, C 2K;



RRFB DETAIL



RRFB PEDESTAL POLE FOUNDATION



RRFB PLAN DETAIL

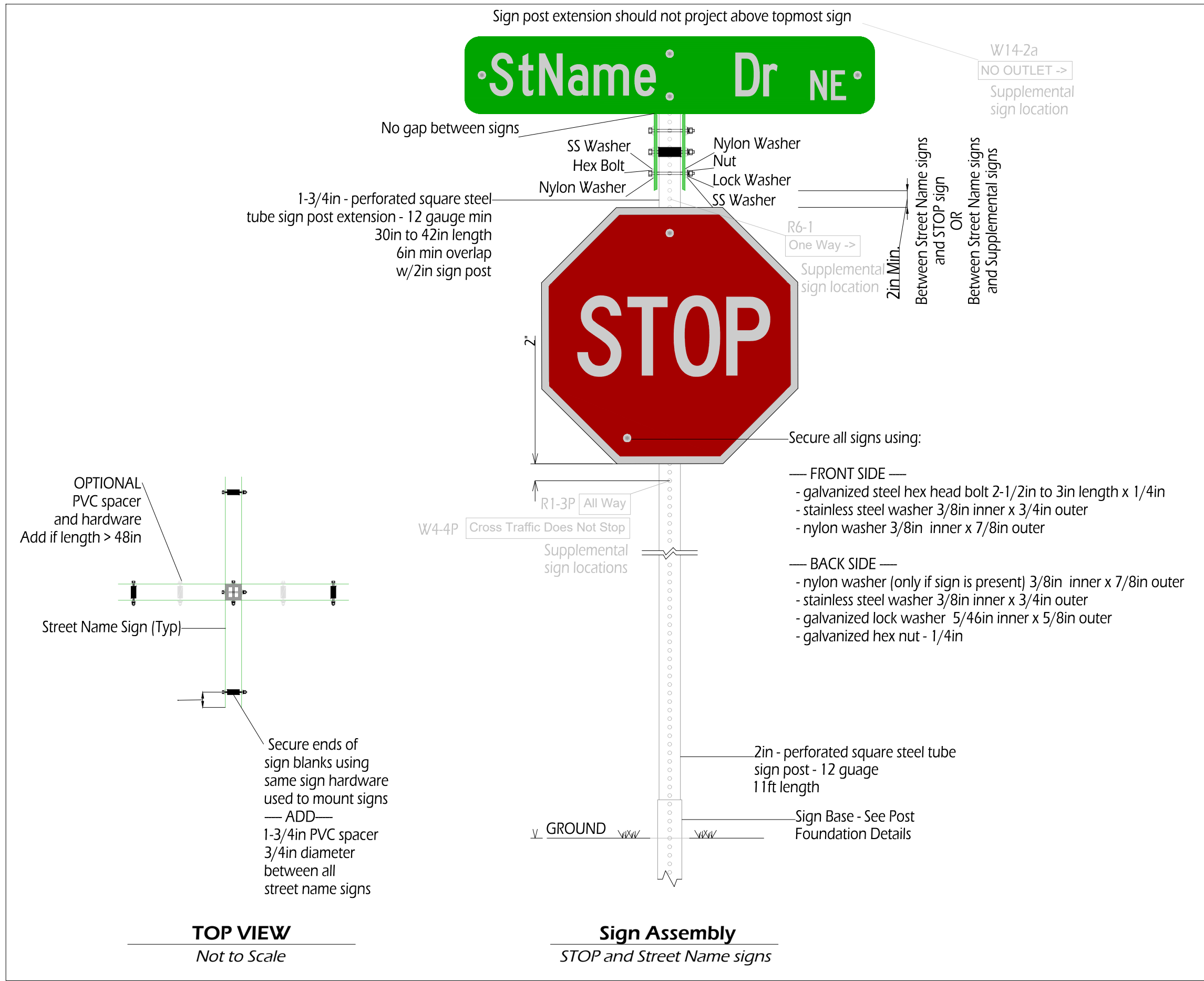
- ① Shape top 11 inches with forms.
- ② Install rodent guard or non-shrink grout with weep hole.
- ③ Connect ground wire to grounding lug in the pedestal base

- ④ Median RRFB is a double-sided unit. If no median is present then signs, beacons and push button are not required, though side of road RRFB units would need to be double-sided.
- ⑤ See 8910.999.901 for additional details on placement of push button pedestals

CEDAR RAPIDS City of Five Seasons*	REVISION	
	1	02-25-2026
	8930.900	
Cedar Rapids General Supplemental Specifications To SUDAS		
RECTANGULAR RAPID FLASHING BEACON (RRFB)		

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SHEET 1 OF 3



NOTES:

1. See Quantities or Sign Schedule for sign sizes.
2. Sign hardware is incidental to sign installation
3. Use Soil Anchor with stabilizers for all COMBINED sign assemblies.
4. Supplemental signs may be mounted below or above STOP sign assembly as shown. Adjust sign post extension to accommodate additional signs. — SEE SHEETS 2 and 3 and MUTCD for examples —
5. Longest Street Name sign shall be on the bottom of the Street Name sign extension, above any regulatory signs

 CEDAR RAPIDS City of Five Seasons®	REVISION	
	3	12-18-2024
	SHEET 1 of 3	
Cedar Rapids General Supplemental Specifications To SUDAS		

ENGLISH

IOWA DOT

DESIGN TEAM

HDR|ENGINEERING

CITY OF CEDAR RAPIDS

LINN COUNTY

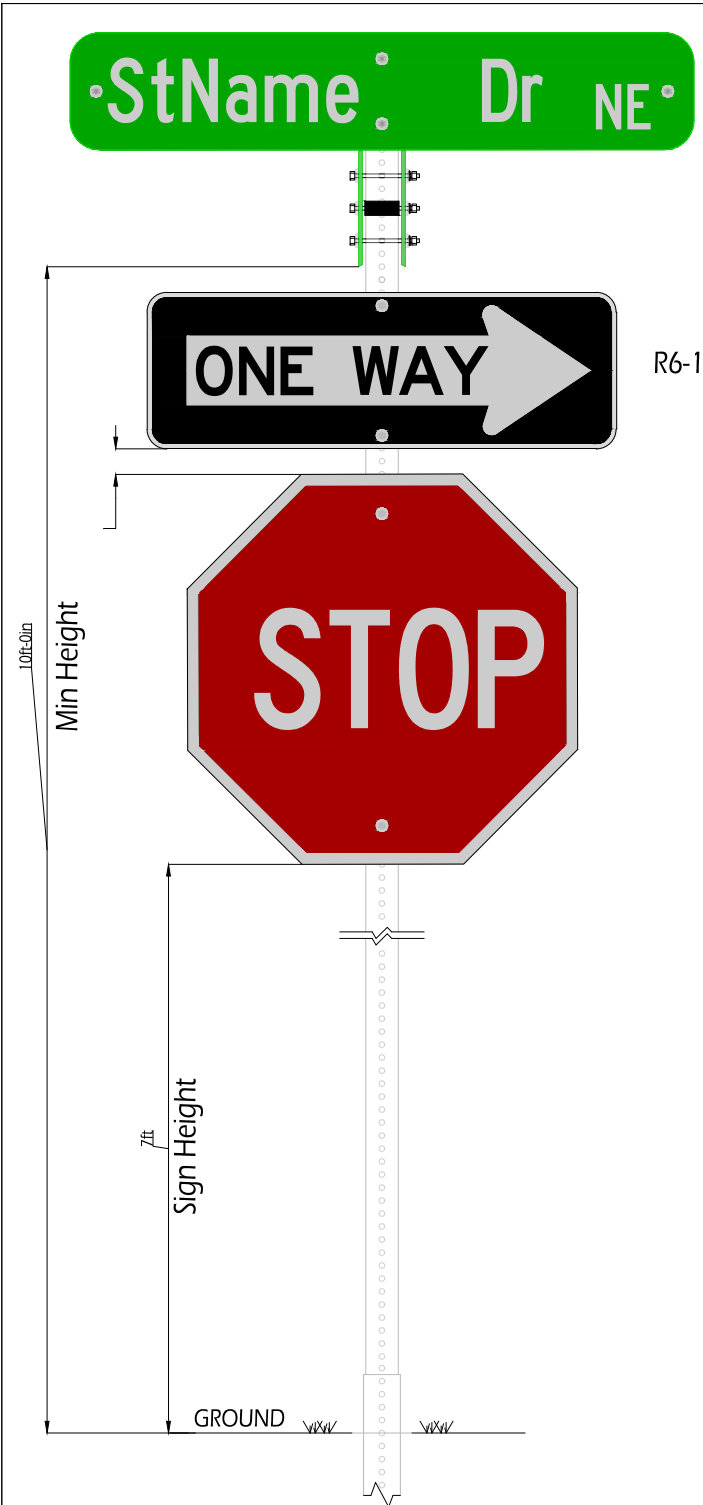
PROJECT NUMBER

TAP-U-1187(801)--8I-57

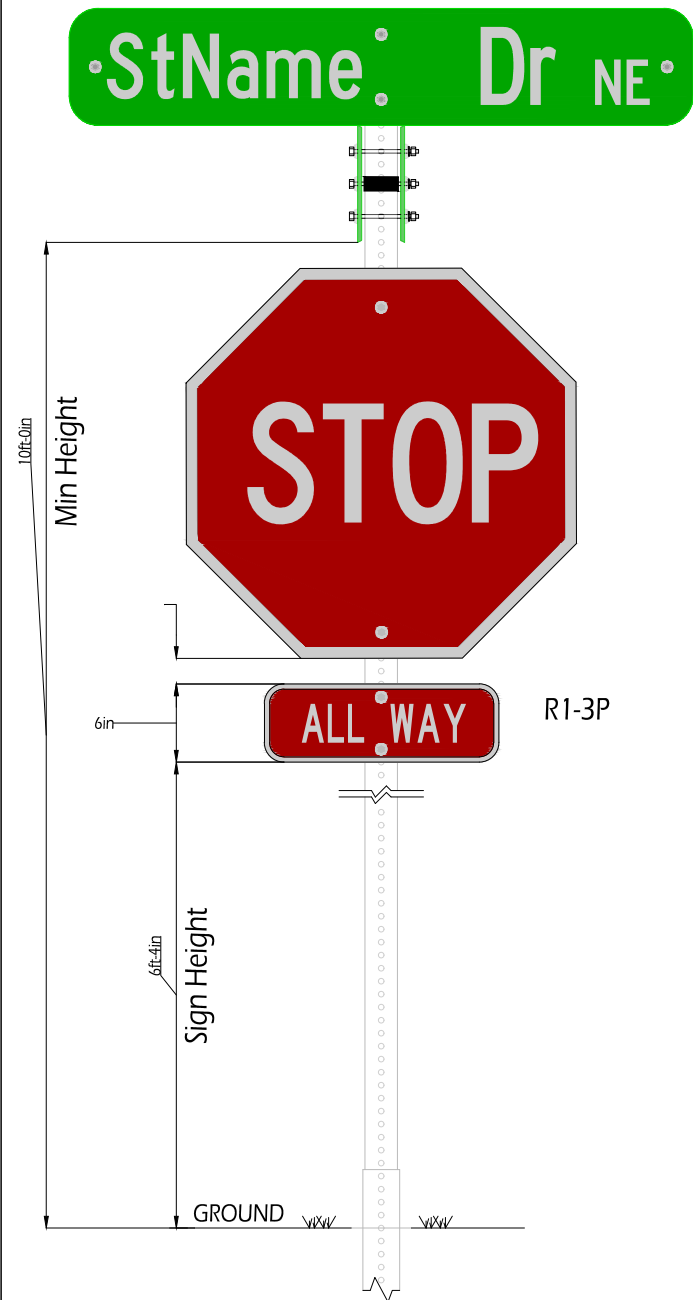
SHEET NUMBER P.6

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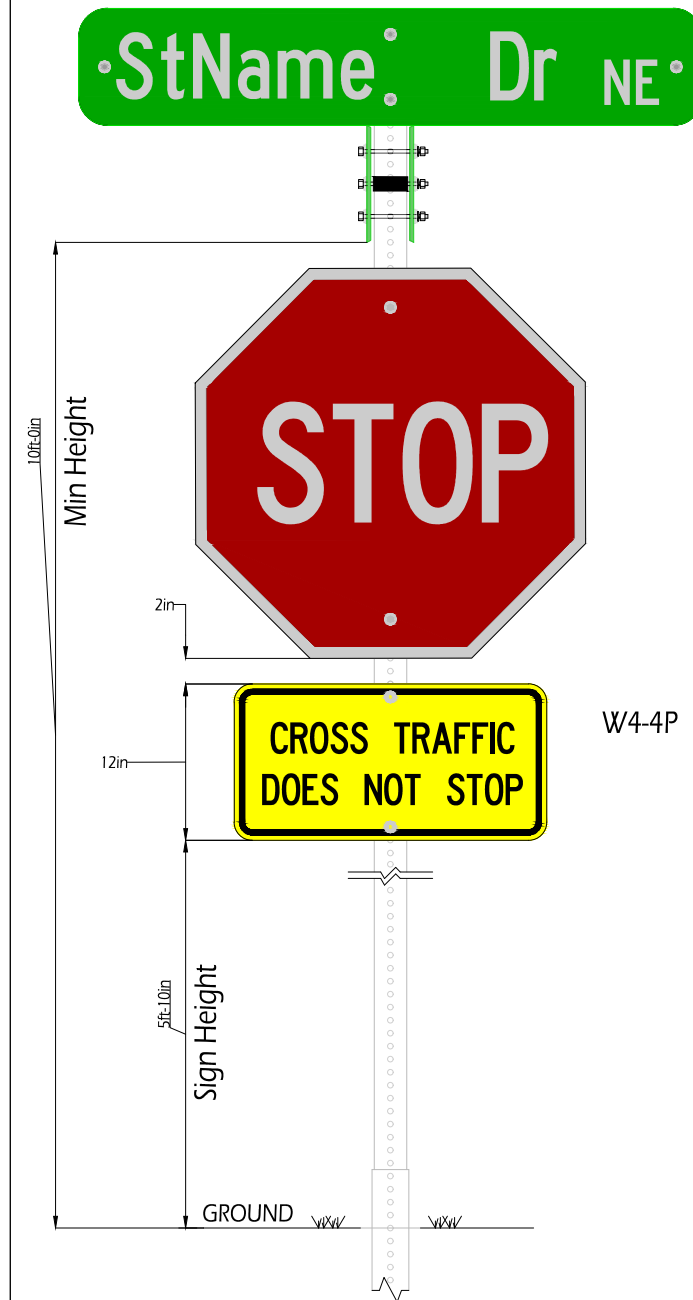
SHEET 2 OF 3



Sign Assembly - A
STOP, ONE-WAY
and Street Name signs



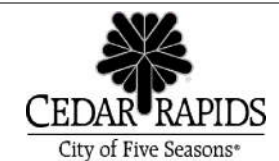
Sign Assembly - B
STOP, ALL WAY
and Street Name signs



Sign Assembly - C
STOP, CROSS TRAFFIC DNS
and Street Name signs

NOTES:

1. See Quantities or Sign Schedule for sign sizes.
2. Sign hardware is incidental to sign installation. SEE SHEET 1 of 3 for sign hardware.
3. ALL sign assemblies shown are for urban cross sections. Top of curb is at GROUND level.
4. SEE Figure 2A-2 (page 51) in the most recent edition of the MUTCD for additional examples.



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1 12-18-2024

SHEET 2 of 3

Cedar Rapids General
Supplemental Specifications To SUDAS

ENGLISH

IOWA DOT

DESIGN TEAM

HDR|ENGINEERING

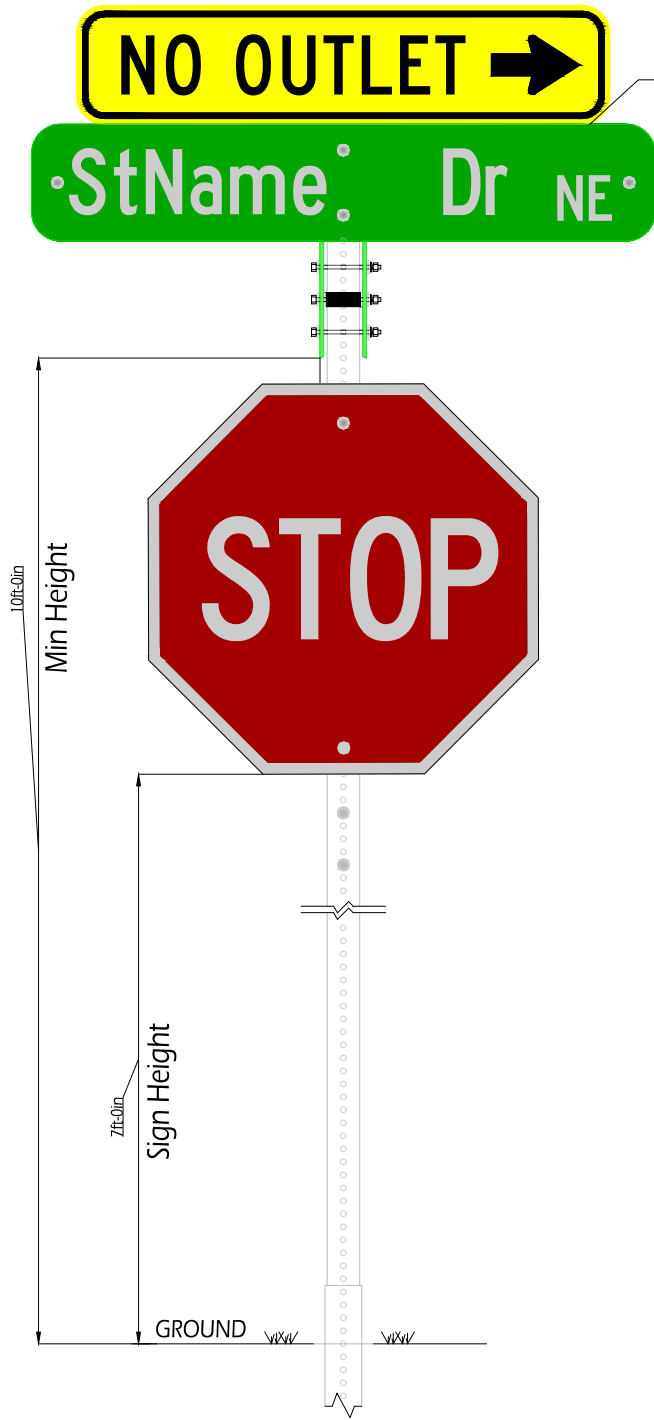
CITY OF CEDAR RAPIDS

LINN COUNTY

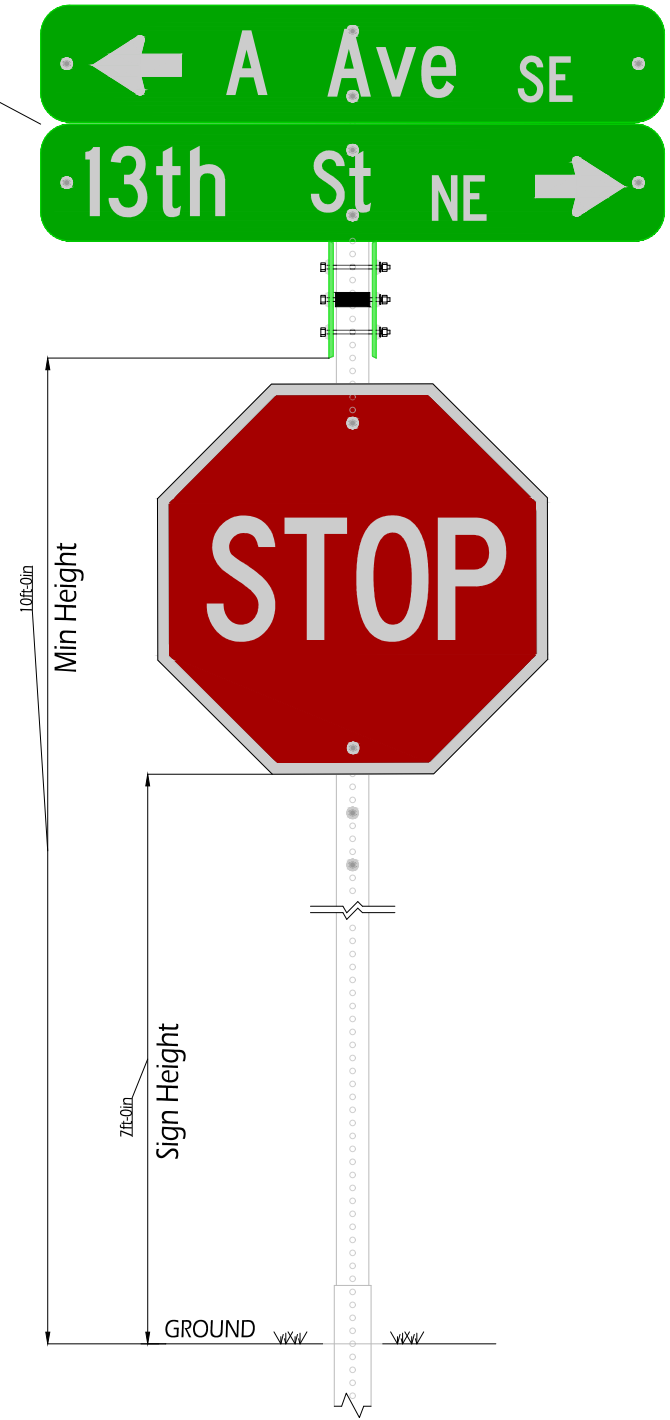
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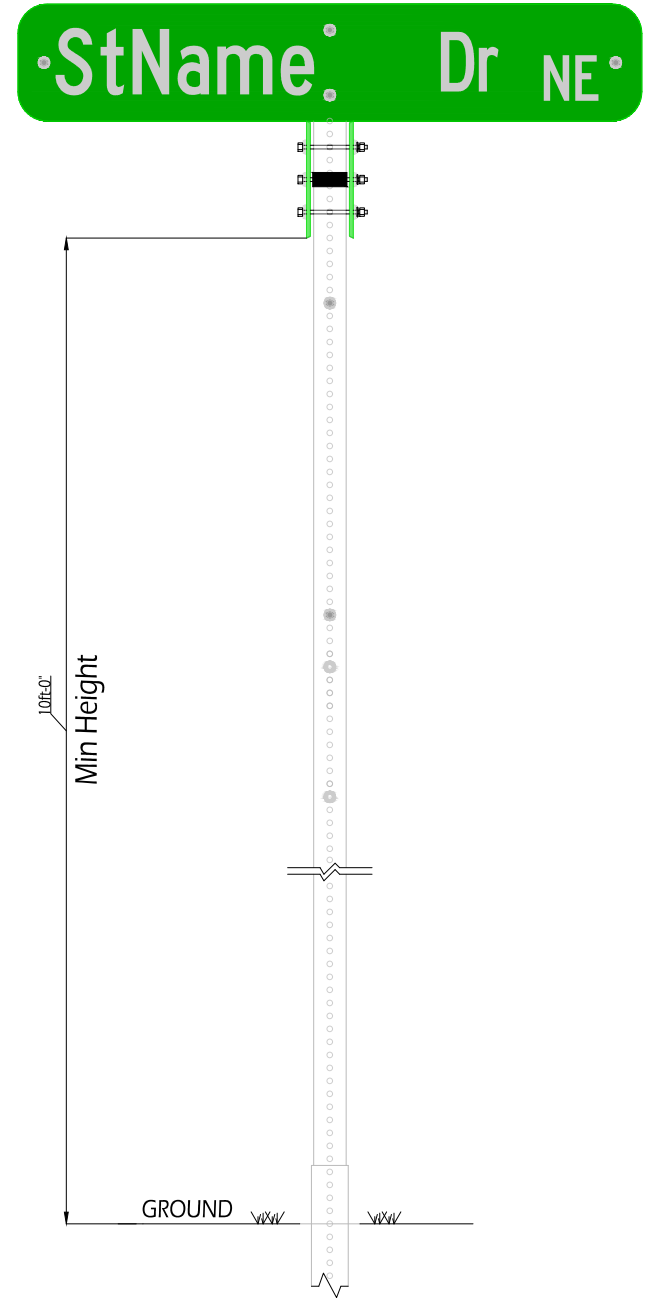
SHEET NUMBER P.7



Sign Assembly - D
*STOP, NO OUTLET
and Street Name signs*



Sign Assembly - E
*STOP
and Street Name signs
w/Arrows*



Sign Assembly - F
Street Name signs

- NOTES:
1. See Quantities or Sign Schedule for sign sizes.
 2. Sign hardware is incidental to sign installation. SEE SHEET 1 of 3 for sign hardware.
 3. ALL sign assemblies shown are for urban cross sections. Top of curb is at GROUND level.
 4. SEE Figure 2A-2 (page 51) in the most recent edition of the MUTCD for additional examples.

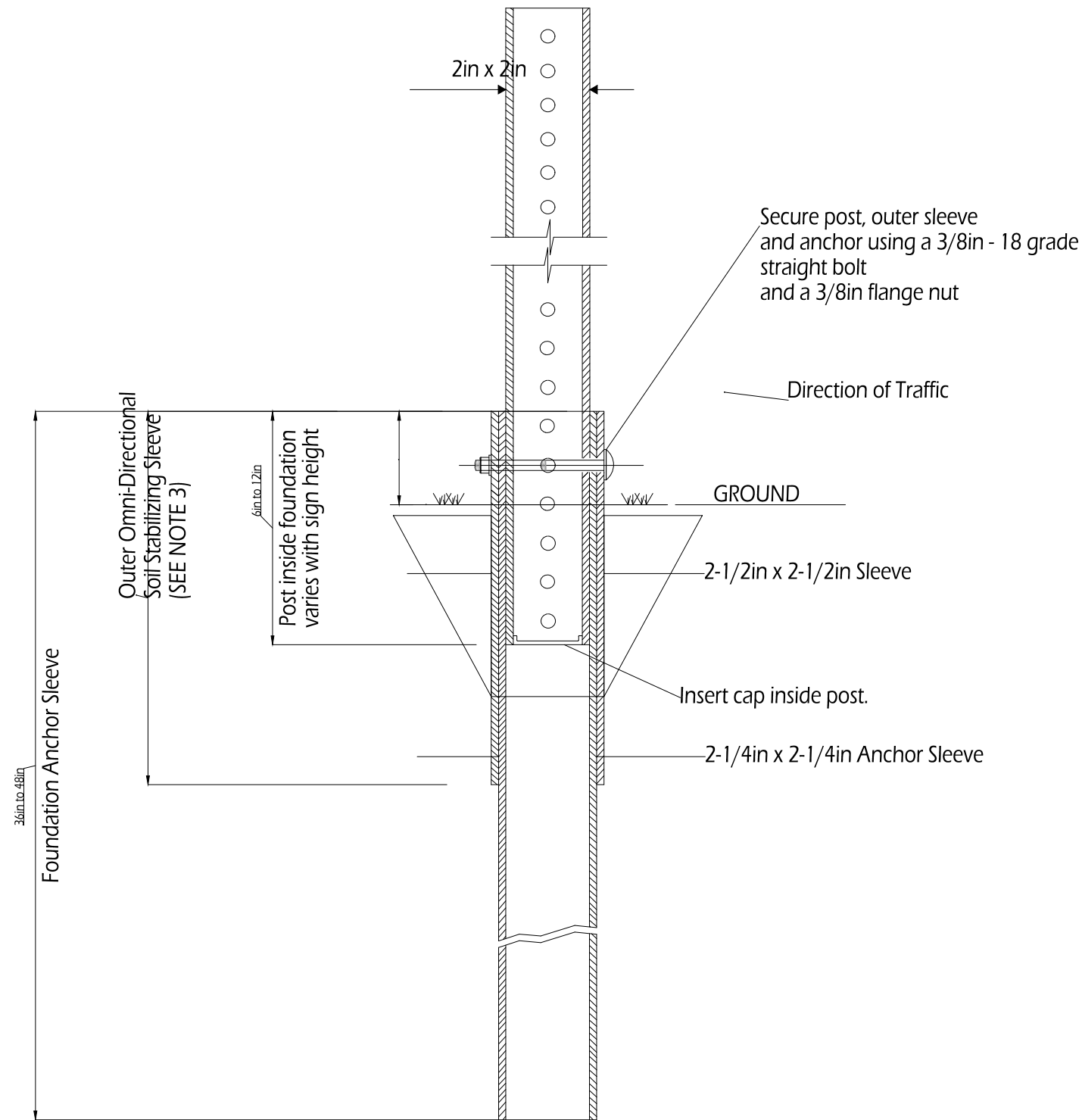


REVISION	
1	12-18-2024
SHEET 3 of 3	

Cedar Rapids General
Supplemental Specifications To SUDAS

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SHEET 3 OF 3



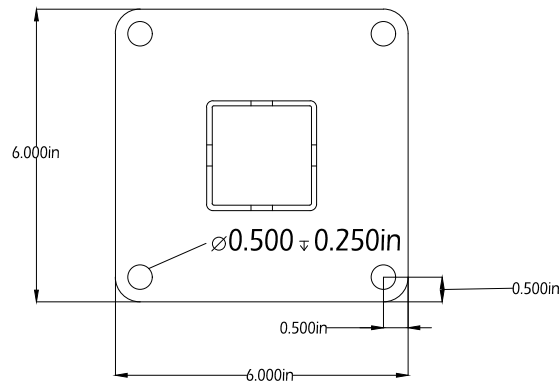
NOTES:

1. See Quantities or Sign Schedule for total lineal feet (LF) of posts
2. Sign hardware and sign anchors are incidental. See Sign Table for type of sign anchor specified for each sign.
3. Soil stabilizers are required if sign SqFt exceeds 9 SqFt. If multiple signs are mounted on same post the the sum of SqFt for all signs should be used to determine requirement.

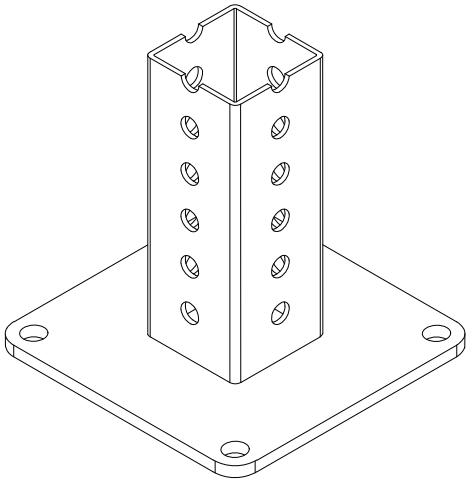
Soil Anchor
With or Without Stabilizers

 CEDAR RAPIDS City of Five Seasons®	REVISION	
	2	12-18-2024
SHEET 1 of 3		

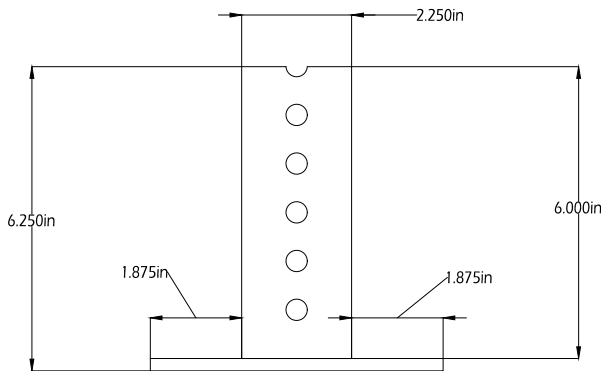
Cedar Rapids General Supplemental Specifications To SUDAS



TOP VIEW
Not to Scale



ISOMETRIC VIEW
Not to Scale



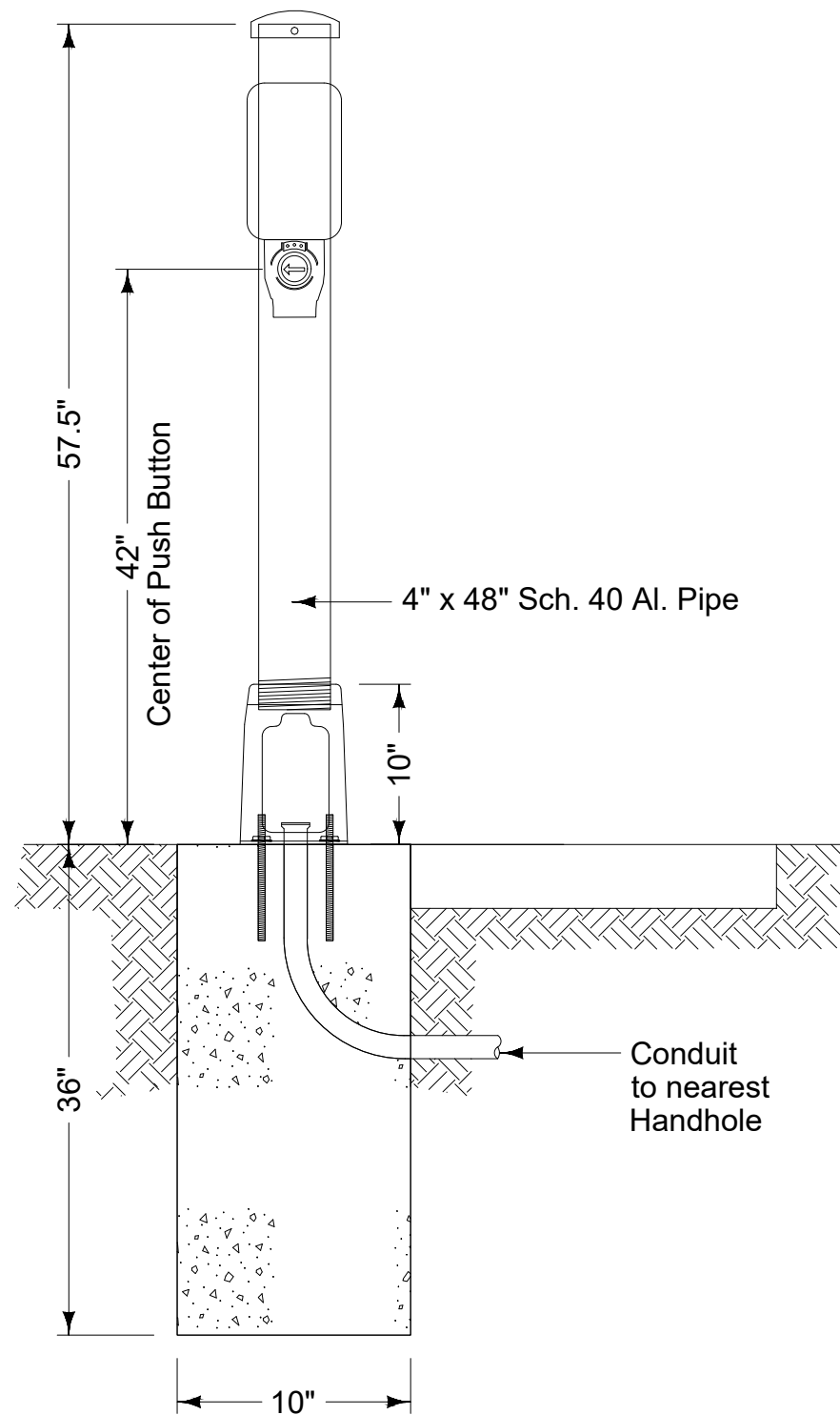
FRONT VIEW
Not to Scale

Surface Anchor
Use on hard surfaces - min 4" thickness

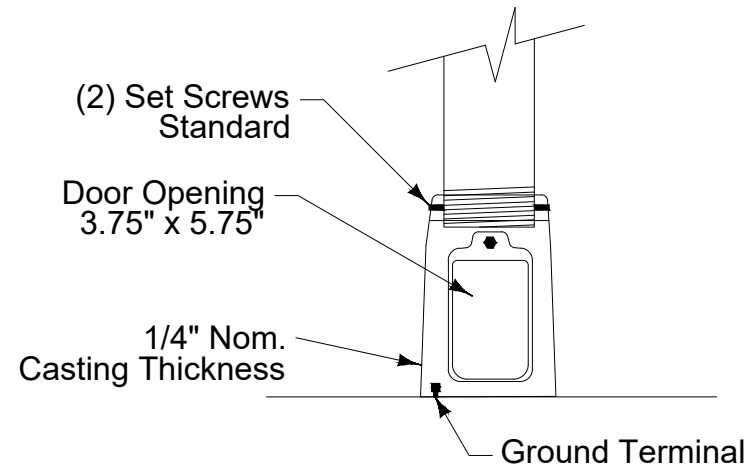
- NOTES:
1. See Quantities or Sign Schedule for total lineal feet (LF) of posts
 2. Sign hardware and sign anchors are incidental. See Sign Table for sign anchor specified for each sign.
 3. 2.250in square post shall be 12 guage. Base plate is 0.250in hot or cold rolled

	REVISION	
	1	12-18-2024
SHEET 2 of 3		

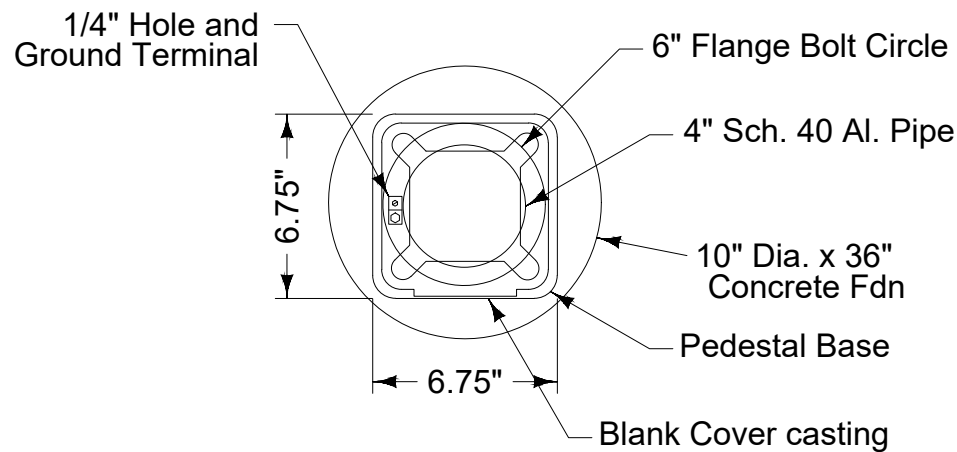
Cedar Rapids General Supplemental Specifications To SUDAS



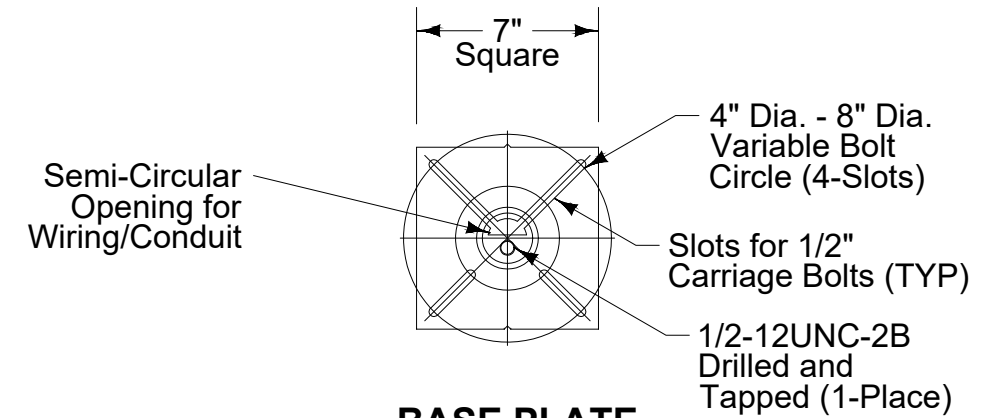
PUSH BUTTON PEDESTAL POLE



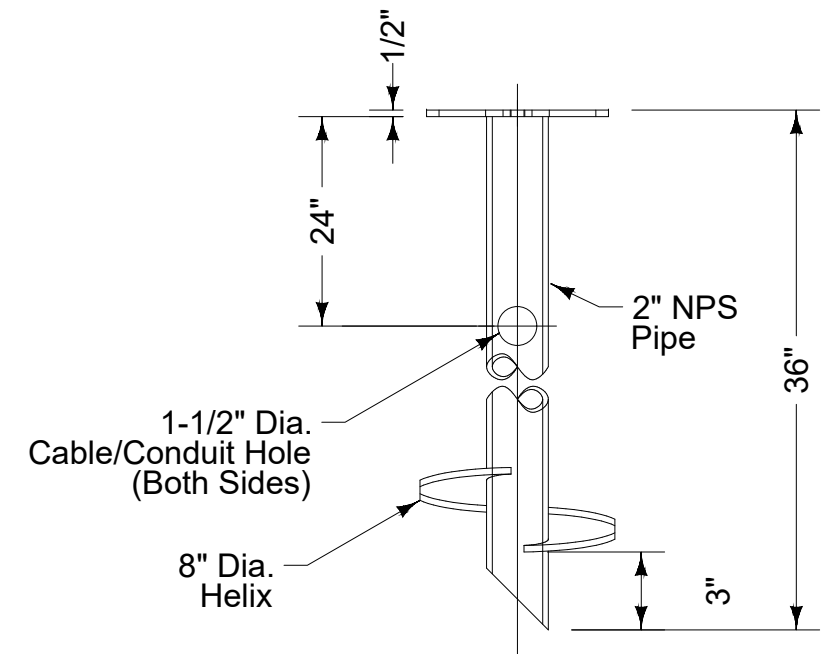
CAST ALUMINUM BASE



BASE PLATE

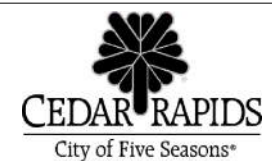


BASE PLATE



STEEL SCREW IN FOUNDATION

FIGURE 8910.999.901 SHEET 1 OF 2



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3	12-16-2024
8910.999.901	
SHEET 1 OF 2	

Cedar Rapids General
Supplemental Specifications To SUDAS

**PUSH BUTTON PEDESTAL POLE
AND PLACEMENT DETAILS**

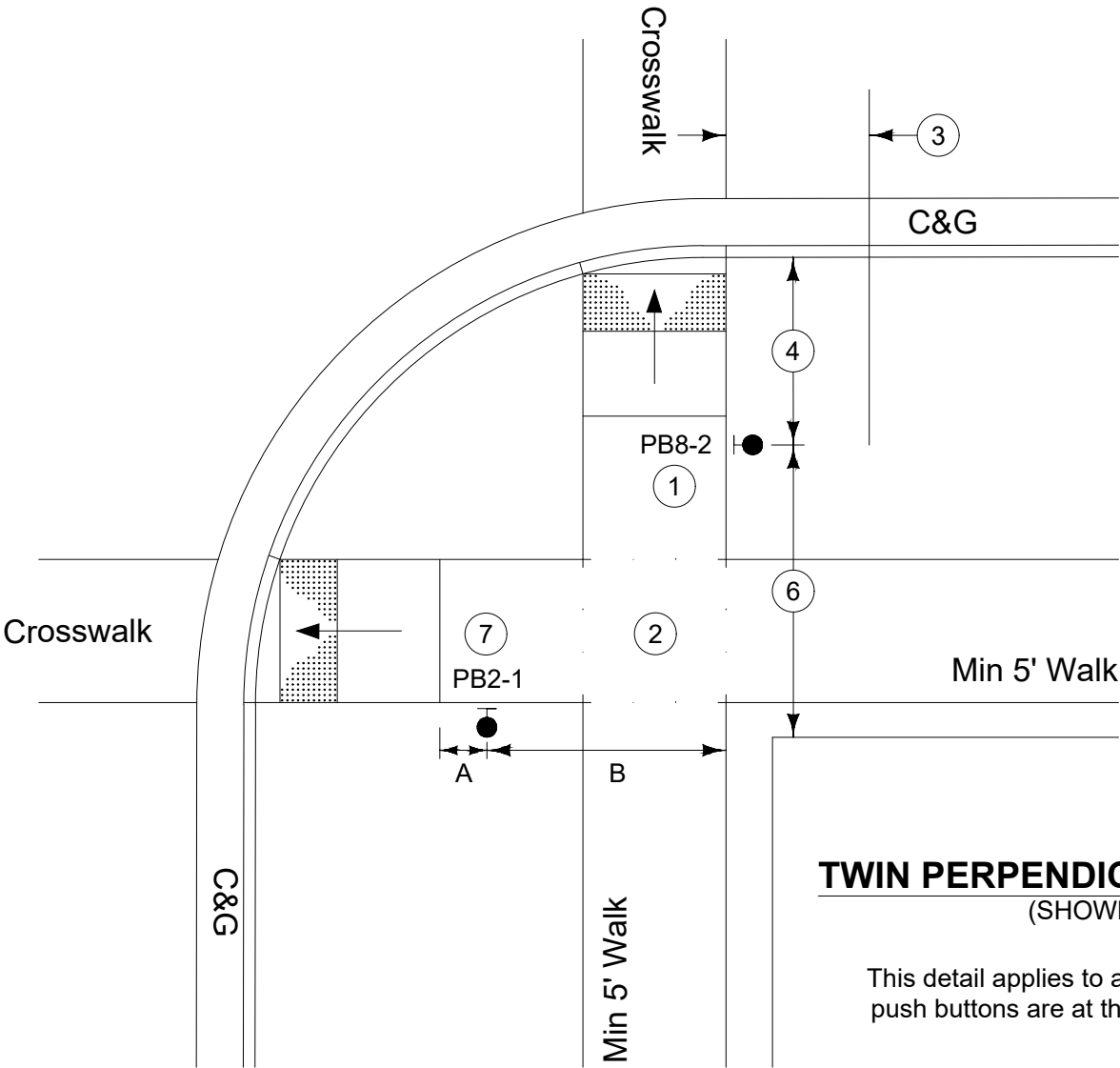
TYPICAL APS PEDESTRIAN PUSH BUTTON LOCATION

This is a general detail intended to show the requirements of APS push button location. Refer to the Contract Documents for specific information regarding pedestrian ramp layout and push button pole locations.

SIGNAL CONTROL POINTS			DISTANCE TO FRONT OF LANDING (FT)	DISTANCE TO BACK OF LANDING (FT)
SIGNAL NO.	X	Y		
PB2-1	-	-	A	B
PB8-2	-	-	A	B

A - Distance measured from the push button pole to the front of landing/top of ramp

B - Clear distance measured from the push button pole to the back of landing/edge of walk



SUPPLEMENTAL GUIDANCE FOR CONSTRUCTING COMPLIANT APS PUSH BUTTONS

- 1

The face of the button shall be parallel with the outside edge of crosswalk.
- 2

A minimum 5-ft x 5-ft landing area shall be provided adjacent to each push button pole, with a 1.5 percent target slope in all directions.
- 3

Push button poles shall be within 5-ft of the outside edge of the crosswalk.
- 4

Push button poles shall be between 1.5-ft and 9.5-ft from the back of curb or edge of roadway, measured in the direction of travel. Stand-alone push button stations should be 4-ft minimum from the back of curb unless shown otherwise in the plans.
- 5

Push button poles shall be at least 10-ft apart (MUTCD).
- 6

Provide a 6-ft minimum clear distance between a push button pole and any obstructions,including buildings, v-curb, electrical foundations, signal cabinets. (City preferred)
- 7

Button should be 2-ft minimum from ramp grade break and back of walk. (City preferred)



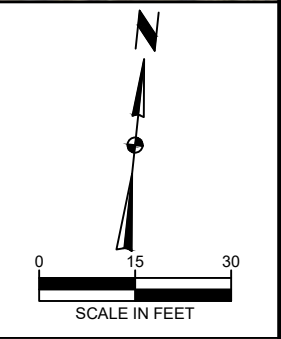
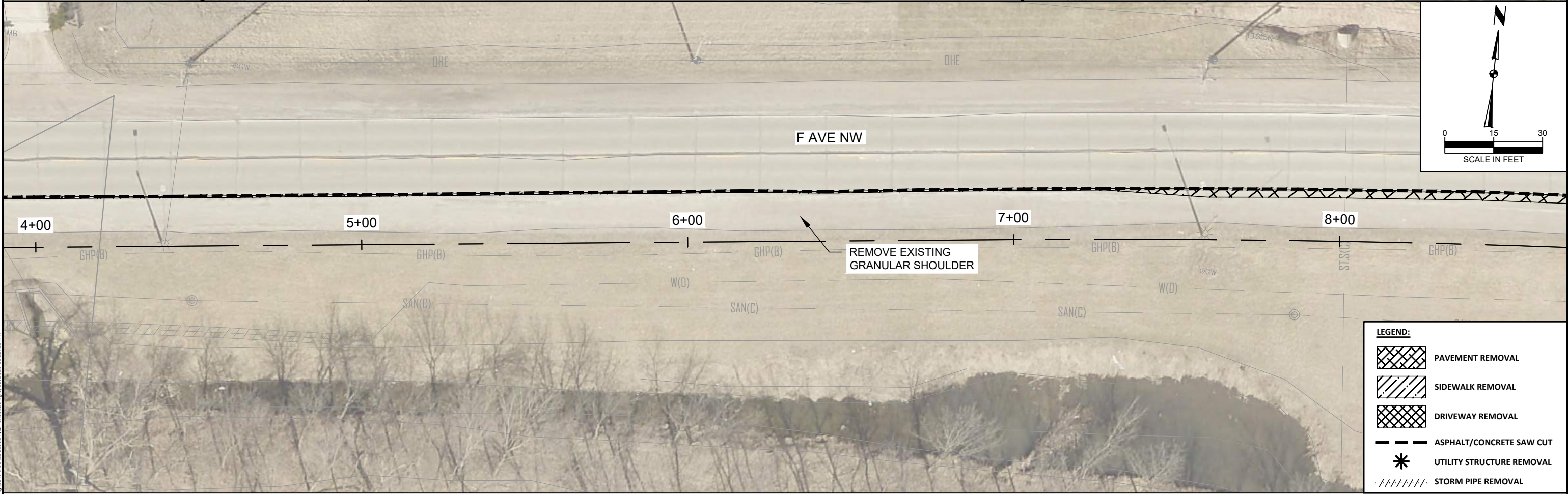
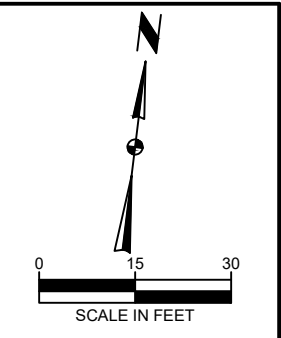
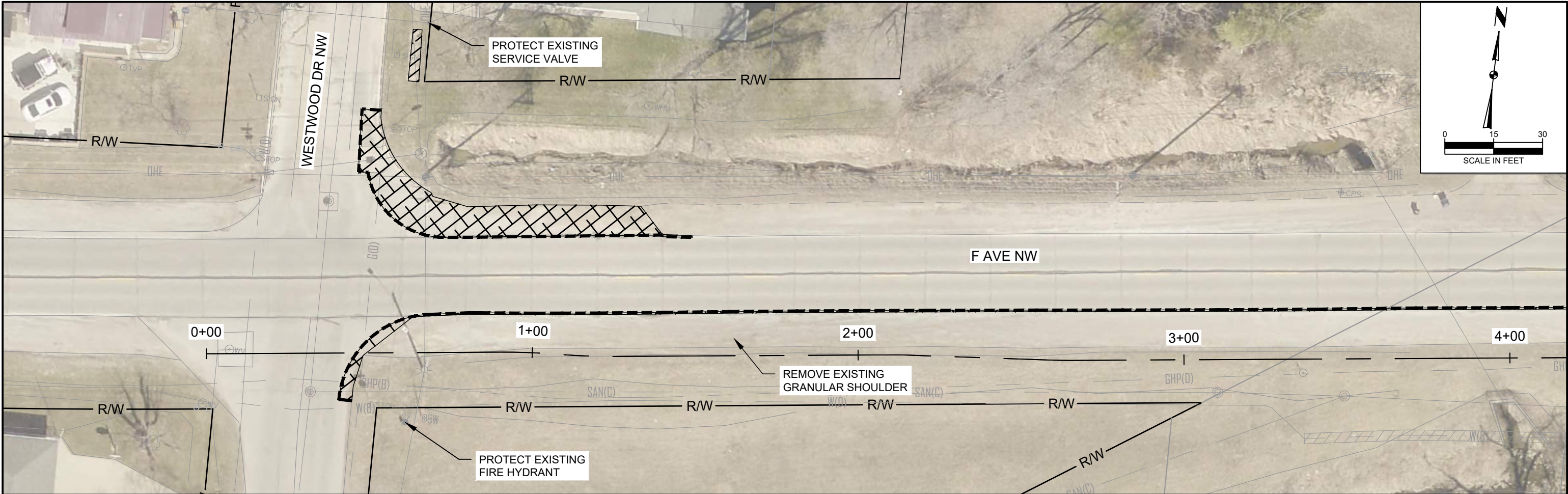
REVISION	
3	12-16-2024

8910.999.901

SHEET 2 OF 2

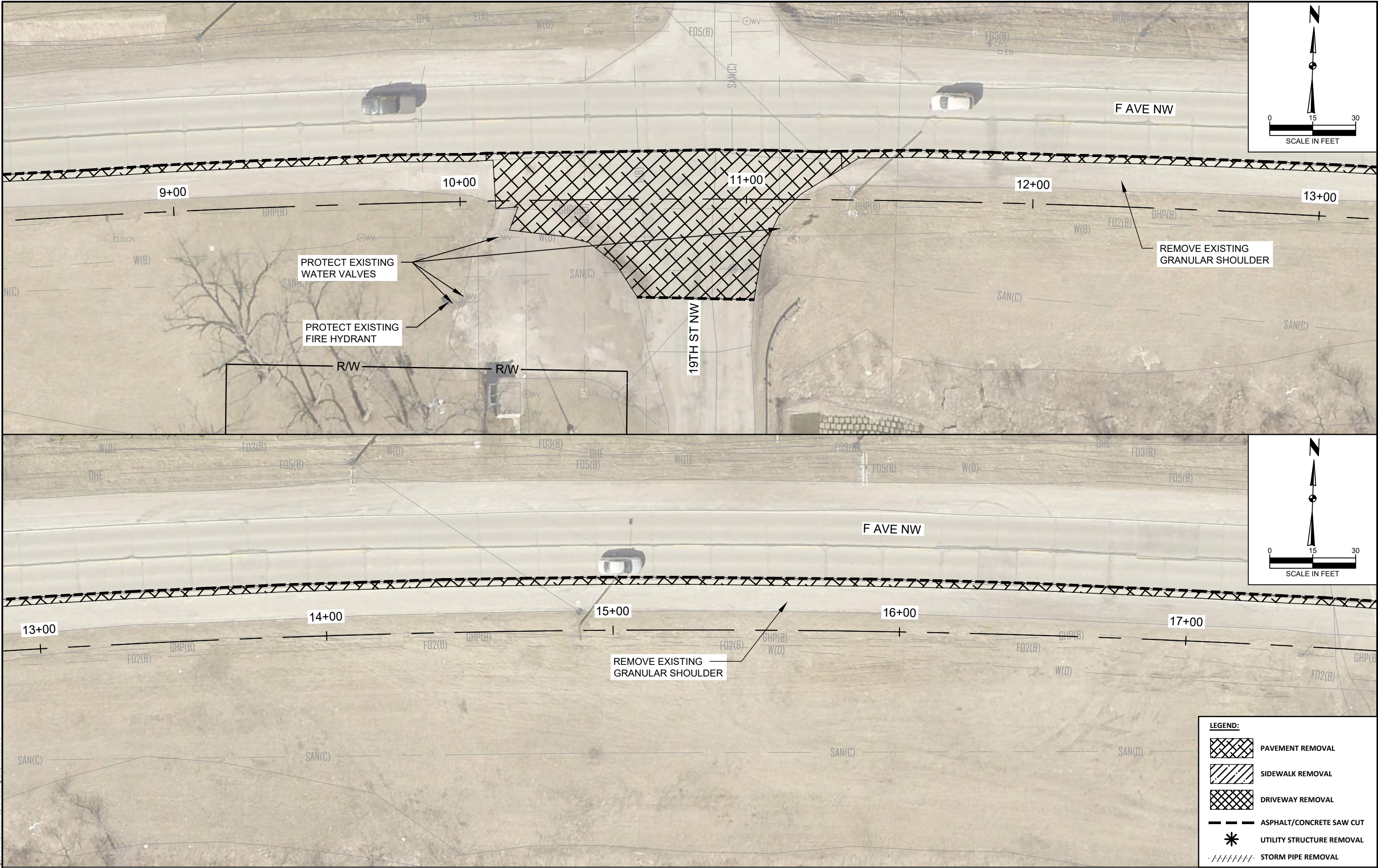
Cedar Rapids General
Supplemental Specifications To SUDAS

PUSH BUTTON PEDESTAL POLE
AND PLACEMENT DETAILS

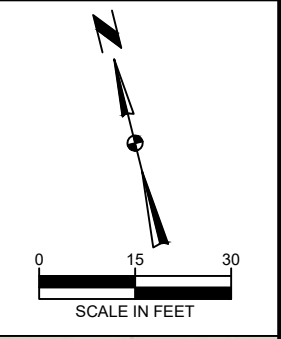
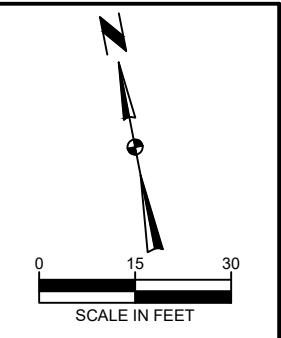
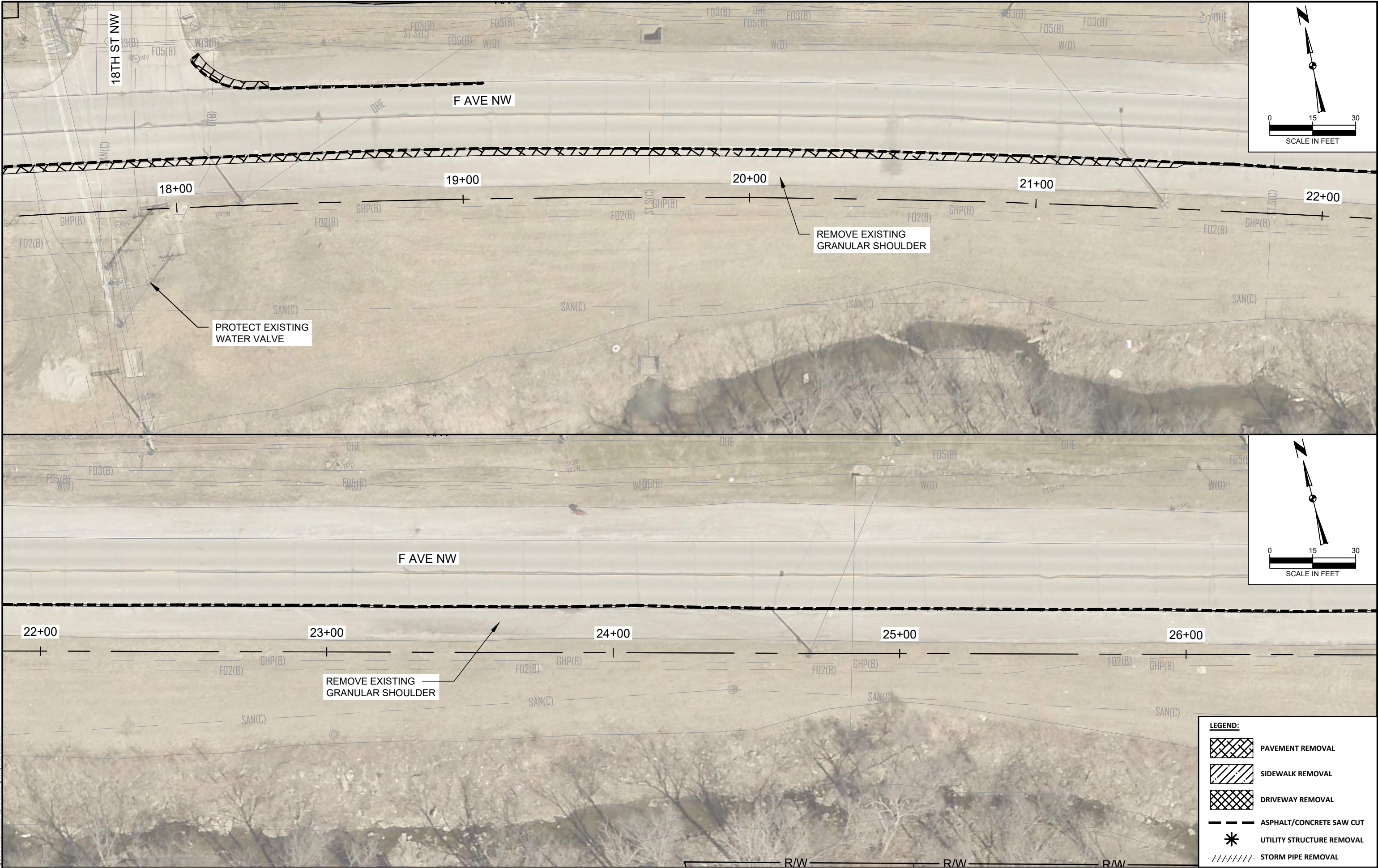


LEGEND:	
	PAVEMENT REMOVAL
	SIDEWALK REMOVAL
	DRIVEWAY REMOVAL
	ASPHALT/CONCRETE SAW CUT
	UTILITY STRUCTURE REMOVAL
	STORM PIPE REMOVAL

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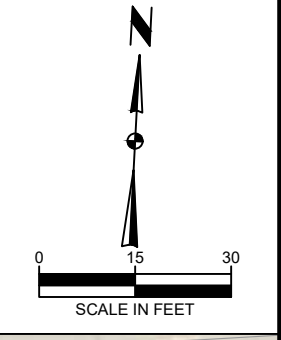
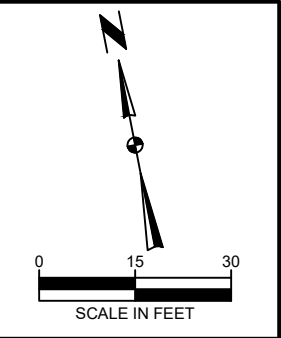
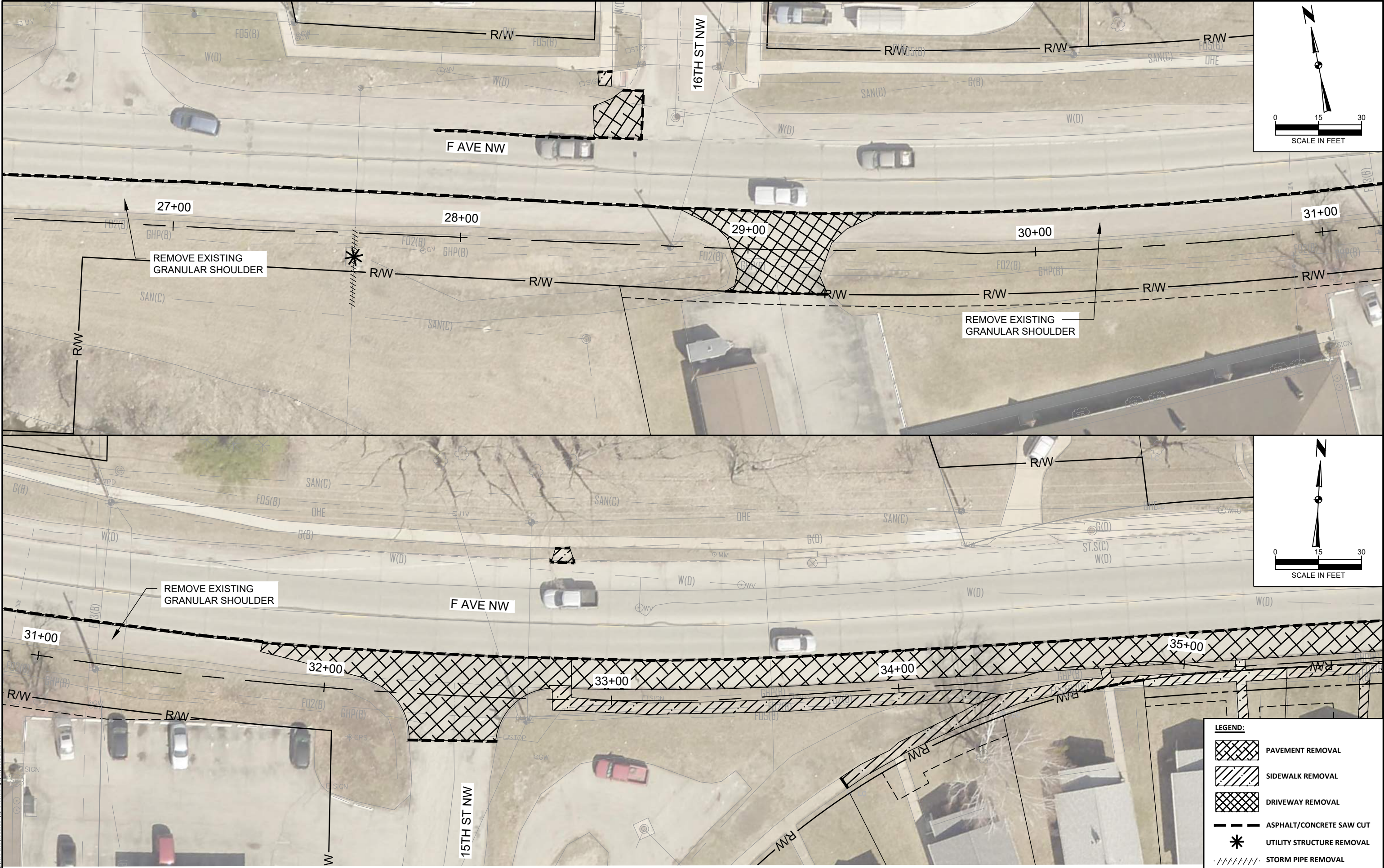
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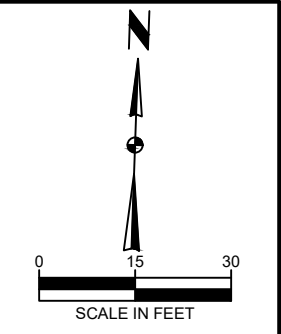
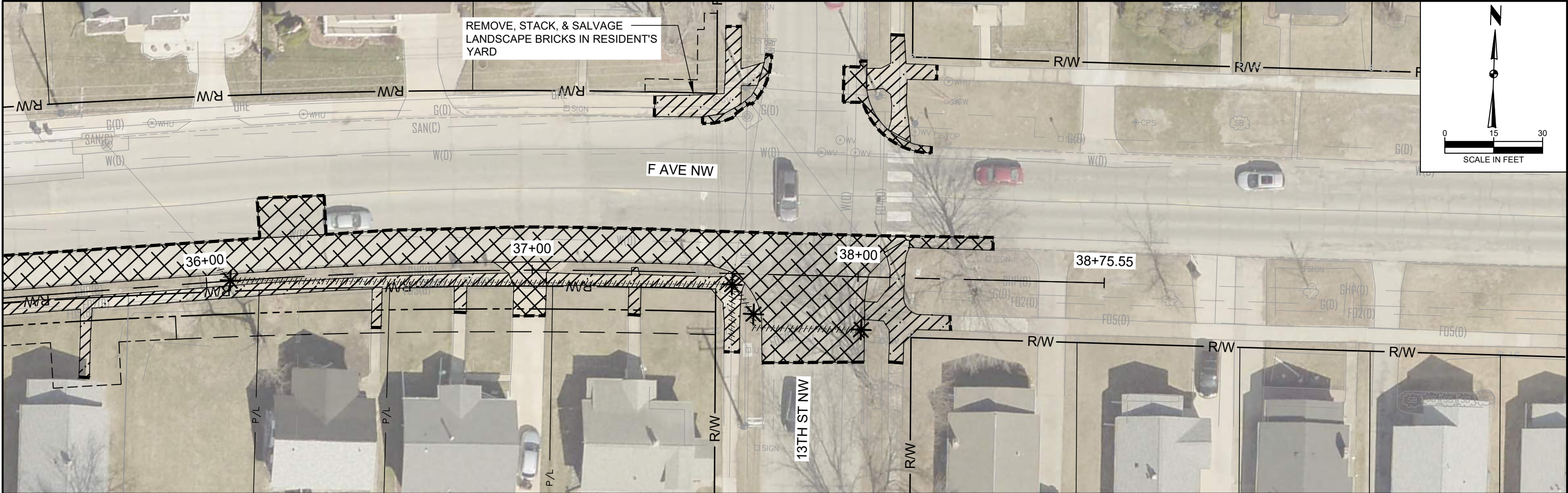
LEGEND:

- PAVEMENT REMOVAL
- SIDEWALK REMOVAL
- DRIVEWAY REMOVAL
- ASPHALT/CONCRETE SAW CUT
- UTILITY STRUCTURE REMOVAL
- STORM PIPE REMOVAL

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LEGEND:	
	PAVEMENT REMOVAL
	SIDEWALK REMOVAL
	DRIVEWAY REMOVAL
	ASPHALT/CONCRETE SAW CUT
	UTILITY STRUCTURE REMOVAL
	STORM PIPE REMOVAL



LEGEND:	
	PAVEMENT REMOVAL
	SIDEWALK REMOVAL
	DRIVEWAY REMOVAL
	ASPHALT/CONCRETE SAW CUT
	UTILITY STRUCTURE REMOVAL
	STORM PIPE REMOVAL

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			110-12L 10-20-20
POLLUTION PREVENTION PLAN			
This project is regulated by the requirements of the Iowa Department of Natural Resources (DNR) National Pollutant Discharge Elimination System (NPDES) General Permit No. 2 OR an Iowa Department of Natural Resources (DNR) National Pollutant Discharge Elimination System (NPDES) individual storm water permit. The Contractor shall carry out the terms and conditions of this permit and the Pollution Prevention Plan (PPP). This Base PPP includes information on Roles and Responsibilities, Project Site Description, Controls, Maintenance Procedures, Inspection Requirements, Non-Storm Water Controls, Potential Sources of Off Right-of-Way Pollution, and Definitions. This plan references other documents rather than repeating the information contained in the documents. A copy of this Base Pollution Prevention Plan, amended as needed during construction, will be readily available for review. All contractors shall conduct their operations in a manner that controls pollutants, minimizes erosion, and prevents sediments from entering waters of the state and leaving the highway right-of-way. The Contractor shall be responsible for compliance and implementation of the PPP for their entire contract. This responsibility shall be further shared with subcontractors whose work is a source of potential pollution as defined in this PPP. I. ROLES AND RESPONSIBILITIES A. Designer: 1. Prepares Base PPP included in the project plan. 2. Prepares Notice of Intent (NOI) submitted to Iowa DNR. 3. Is signature authority on the Base PPP. If consultant designed, signature from Contracting Authority is also required. B. Contractor: 1. Signs a co-permittee certification statement adhering to the requirements of the NPDES permit and this PPP. All co-permittees are legally required under the Clean Water Act and the Iowa Administrative Code to ensure compliance with the terms and conditions of this PPP. 2. Designates a Water Pollution Control Manager (WPCM), who has the duties and responsibilities as defined in Section 2602 of the Standard Specifications. 3. Submits an Erosion Control Implementation Plan (ECIP) and ECIP updates according to Section 2602 of the Standard Specifications. 4. Installs and maintains appropriate controls. This work may be subcontracted as documented through Subcontractor Request Forms (Form 830231). 5. Supervises and implements good housekeeping practices according to Paragraph III, C, 2. 6. Conducts joint required inspections of the site with inspection staff. When Contractor is not mobilized on site, Contractor may delegate this responsibility to a trained or certified subcontractor. Contracting Authority also may waive joint inspection requirement during winter shutdown. In both circumstances, WPCM (or trained or certified delegate from the Contractor) is still responsible to review and sign inspection reports. 7. Complies with training and certification requirements of Section 2602 of the Standard Specifications. 8. Submits amended PPP site map according to Section 2602 of the Standard Specifications. C. Subcontractors: 1. Sign a co-permittee certification statement adhering to the requirements of the NPDES permit and this PPP if: responsible for sediment or erosion controls; involved in land disturbing activities; or performing work that is a source of potential pollution as defined in this PPP. Subcontracted work items are identified in Subcontractor Request Forms (Form 830231). All co-permittees are legally required under the Clean Water Act and the Iowa Administrative Code to ensure compliance with the terms and conditions of this PPP. 2. Implement good housekeeping practices according to Paragraph III, C, 2. D. RCE/Project Engineer: 1. Is Project Storm Water Manager. 2. Takes actions necessary to ensure compliance with storm water requirements including, where appropriate, issuing stop work orders, and directing additional inspections at construction project sites that are experiencing problems with achieving permit compliance. 3. Orders the taking of measures to cease, correct, prevent, or minimize the consequences of non-compliance with the storm water requirements of the Applicable Permit. 4. Supervises all work necessary to meet storm water requirements at the Project, including work performed by contractors and subcontractors. 5. Requires employees, contractors, and subcontractors to take appropriate responsive action to comply with storm water requirements, including requiring any such person to cease or correct a violation of storm water requirements, and to order or recommend such other actions as necessary to meet storm water requirements. 6. Is familiar with the Project PPP and storm water site map. 7. Is the point of contact for the Project for regulatory officials, Inspector, contractors, and subcontractors regarding storm water requirements. 8. Is signature authority on Notice of Discontinuation. 9. Maintains an up-to-date record of contractors, subcontractors, and subcontracted work items through Subcontractor Request Forms (Form 830231). 10. Makes information to determine permit compliance available to the DNR upon their request. E. Inspector: 1. Updates PPP through fieldbook entries and storm water site inspection reports if there is a change in design, construction, operation, or maintenance which has a significant effect on the discharge of pollutants from the project. 2. Makes information to determine permit compliance available to the DNR upon their request. 3. Conducts joint required inspections of the site with the contractor/subcontractor. 4. Completes an inspection report after each inspection. 5. Is signature authority on storm water inspection reports. II. PROJECT SITE DESCRIPTION A. This Pollution Prevention Plan (PPP) is for the construction of a PCC Trail along F Avenue NW from Westwood Dr NW to 13th St NW B. This PPP covers approximately 10.6 acres with an estimated 2.9 acres being disturbed. The portion of the PPP covered by this contract has 2.9 acres disturbed. C. The PPP is located in an area of 1 soil association Dinsdale - Klinger. The estimated weighted average runoff coefficient number for this PPP after completion will be 0.47. D. Storm Water Site Map - Multiple sources of information comprise the base storm water site map including: 1. Drainage Patterns - Plan and Profile sheets and Situation plans. 2. Proposed Slopes - Cross Sections. 3. Areas of Soil Disturbance - Construction limits shown on Plan and Profile sheets. 4. Location of Structural Controls - Tabulations in C sheets. 5. Locations of Non-structural Controls - Tabulations in C sheets. 6. Locations of Stabilization Practices - Generally within construction limits shown on Plan and Profile sheets. 7. Surface Waters (including wetlands) - Project Location Map and Plan and Profile sheets. 8. Locations where Storm Water is Discharged - Plan and Profile sheets. E. The base storm water site map is amended by contract modifications and progress payments (fieldbook entries) of completed erosion			

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POLLUTION PREVENTION PLAN			
control work. Also, due to project phasing, erosion and sediment controls shown on project plans may not be installed until needed, based on site conditions. For example, silt fence ditch checks will typically not be installed until the ditch has been installed. Installed locations may also be modified from tabulation locations by field staff. Installed locations will be documented by fieldbook entries and amended PPP site map. F. Runoff from this work will flow into Vinton Ditch to City Storm Sewer to the Cedar River. III. CONTROLS A. The Contractor’s ECIP specified in Article 2602.03 of the Standard Specifications for accomplishment of storm water controls should clearly describe the intended sequence of major activities, and for each activity define the control measure and the timing during the construction process that the measure will be implemented. B. Preserve vegetation in areas not needed for construction. C. Sections 2601 and 2602 of the Standard Specifications define requirements to implement erosion and sediment control measures. Actual quantities used and installed locations may vary from the Base PPP and amendment of the plan will be documented via fieldbook entries, amended PPP site map, or by contract modification. Additional erosion and sediment control items may be required as determined by the inspector and/or contractor during storm water site inspections. If the work involved is not applicable to any contract items, the work will be paid for according to Article 1109.03 paragraph B of the Standard Specifications. 1. EROSION AND SEDIMENT CONTROLS a. Stabilization Practices 1) Site plans will ensure that existing vegetation or natural buffers are preserved where attainable and disturbed portions of the site will be stabilized. 2) Initialize stabilization of disturbed areas immediately after clearing, grading, excavating, or other earth disturbing activities have: a) Permanently ceased on any portion of the site, or b) Temporarily ceased on any portion of the site and will not resume for a period exceeding 14 calendar days. 3) Staged permanent and/or temporary stabilizing seeding and mulching shall be completed as the disturbed areas are completed. Incomplete areas shall be stabilized according to paragraph III, C, 1, a, 2, b above. 4) Permanent and Temporary Stabilization practices to be used for this project are located in the Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C sheets. Typical drawings detailing construction of the practices to be used on this project are referenced in the Standard Road Plans Tabulation (105-4) in the C sheets. 5) Preservation of existing vegetation within right-of-way or easements will act as vegetative buffer strips. 6) Preservation of topsoil: Bid items to be used for this project are located in the Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C sheets. Additional information may be found in Tabulations in the C or T sheets or is referenced in Section 2105 of Standard Specifications. b. Structural Practices 1) Structural practices will be implemented to divert flows from exposed soils and detain or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. Additionally, structural practices may include: silt basins that provide 3600 cubic feet of storage per acre drained or equivalent sediment controls, outlet structures that withdraw water from surface when discharging basins, and controls to direct storm water to vegetated areas. 2) Structural practices to be used for this project are located in the Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C sheets, as well as all other item specific Tabulations. Typical drawings detailing construction of the devices to be used on this project can be found in the B sheets or are referenced in the Standard Road Plans Tabulation (105-4) located in the C sheets. c. Storm Water Management Measures shall be installed during the construction process to control pollutants in storm water discharges that will occur after construction operations have been completed. This may include velocity dissipation devices at discharge locations and along length of outfall channel as necessary to provide a non-erosion velocity flow from structure to water course. If included with this project, these items are located in the Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C sheets, as well as all other item specific Tabulations. Typical drawings detailing construction of the practices to be used on this project are referenced in the Standard Road Plans Tabulation (105-4) in the C sheets. The installation of these devices may be subject to Section 404 of the Clean Water Act. 2. OTHER CONTROLS Contractor disposal of unused construction materials and construction material wastes shall comply with applicable state and local waste disposal, sanitary sewer, or septic system regulations. In the event of a conflict with other governmental laws, rules and regulations, the more restrictive applicable laws, rules or regulations shall apply. a. Vehicle Entrances and Exits - Construct and maintain entrances and exits to prevent tracking of sediments onto roadways. b. Material Delivery, Storage and Use - Implement practices to prevent discharge of construction materials during delivery, storage, and use. c. Stockpile Management - Install controls to reduce or eliminate pollution of storm water from stockpiles of soil and paving. d. Waste Disposal - Do not discharge any materials, including building materials, into waters of the state, except as authorized by a Section 404 permit. e. Spill Prevention and Control - Implement chemical spill and leak prevention and response procedures to contain and clean up spills and prevent material discharges to the storm drain system and waters of the state. f. Concrete Residuals and Washout Wastes - Waste shall not be discharged to a surface water and is not allowed to adversely affect a water of the state. Designate temporary concrete washout facilities for rinsing out concrete trucks. Provide directions to truck drivers where designated washout facilities are located. Designated washout areas should be located at least 50 feet away from storm drains, streams or other water bodies. Care should be taken to ensure these facilities do not overflow during storm events. g. Concrete Grooving/Grinding Slurry - Do not discharge slurry to a waterbody or storm drain. Slurry may be applied on foreslopes or removed from the project. h. Vehicle and Equipment Storage and Maintenance Areas - Perform on site fueling and maintenance in accordance with all environment laws such as proper storage of onsite fuels and proper disposal of used engine oil or other fluids on site. Employ washing practices that prevent contamination of surface and ground water from wash water. Wash waters must be treated in a sediment basin or alternative control that provides equivalent or better treatment prior to discharge. i. Litter Management - Ensure employees properly dispose of litter. Minimize exposure of trash if exposure to precipitation or storm water would result in a discharge of pollutants. j. Dewatering - Properly treat water to remove suspended sediment before it re-enters a waterbody or discharges off-site. Measures are also to be taken to prevent scour erosion at dewatering discharge point. 3. APPROVED STATE OR LOCAL PLANS During the course of this construction, it is possible that situations will arise where unknown materials will be encountered. When such situations are encountered, they will be handled according to all federal, state, and local regulations in effect at the time. IV. MAINTENANCE PROCEDURES			

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POLLUTION PREVENTION PLAN

The Contractor is required to maintain all temporary erosion and sediment control measures in proper working order, including cleaning, repairing, or replacing them throughout the contract period. This shall begin when the features have lost 50% of their capacity.

V. INSPECTION REQUIREMENTS

A. Inspections shall be made jointly by the Contractor and the Contracting Authority's inspector at least once every seven calendar days. Storm water site inspections will include:

1. Date of the inspection.
2. Summary of the scope of the inspection.
3. Name and qualifications of the personnel making the inspection.
5. Review of erosion and sediment control measures within disturbed areas for the effectiveness in preventing impacts to receiving waters.
6. Major observations related to the implementation of the PPP.
7. Identification of corrective actions required to maintain or modify erosion and sediment control measures.

B. Include storm water site inspection reports in the amended PPP. Incorporate any additional erosion and sediment control measures determined as a result of the inspection. Immediately begin corrective actions on all deficiencies found within 3 calendar days of the inspection and complete within 7 calendar days following the inspection. If it is determined that making the corrections less than 72 hours after the inspection is impracticable, it should be documented why it is impracticable and indicate an estimated date by which the corrections will be made.

VI. NON-STORM WATER DISCHARGES

This includes subsurface drains (i.e. longitudinal and standard subdrains) and slope drains. The velocity of the discharge from these features may be controlled by the use of headwalls or blocks, Class A stone, erosion stone or other appropriate materials. This also includes uncontaminated groundwater from dewatering operations, which will be controlled as discussed in Section III of the PPP.

VII. POTENTIAL SOURCES OF OFF RIGHT-OF-WAY (ROW) POLLUTION

Silts, sediment, and other forms of pollution may be transported onto highway right-of-way (ROW) as a result of a storm event. Potential sources of pollution located outside highway ROW are beyond the control of this PPP. Pollution within highway ROW will be conveyed and controlled per this PPP.

VIII. DEFINITIONS

A. Base PPP - Initial Pollution Prevention Plan.

B. Amended PPP - Base PPP amended during construcion. May include Plan Revisions or Contract Modifications for new items, storm water site inspection reports, fieldbook entries made by the inspector, amended PPP site map by the Contractor, ECIP, NOI, co-permittee certifications, and Subcontractor Request Forms. Items amending the PPP are stored electronically and are readily available upon request.

C. Fieldbook Entries - This contains the inspector's daily diary and bid item postings.

D. Controls - Methods, practices, or measures to minimize or prevent erosion, control sedimentation, control storm water, or minimize contaminants from other types of waste or materials. Also called Best Management Practices (BMPs).

E. Signature Authority - Representative authorized to sign various storm water documents.

CERTIFICATION STATEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Abkes, Keith D.

Signature

Keith Abkes, P.E.

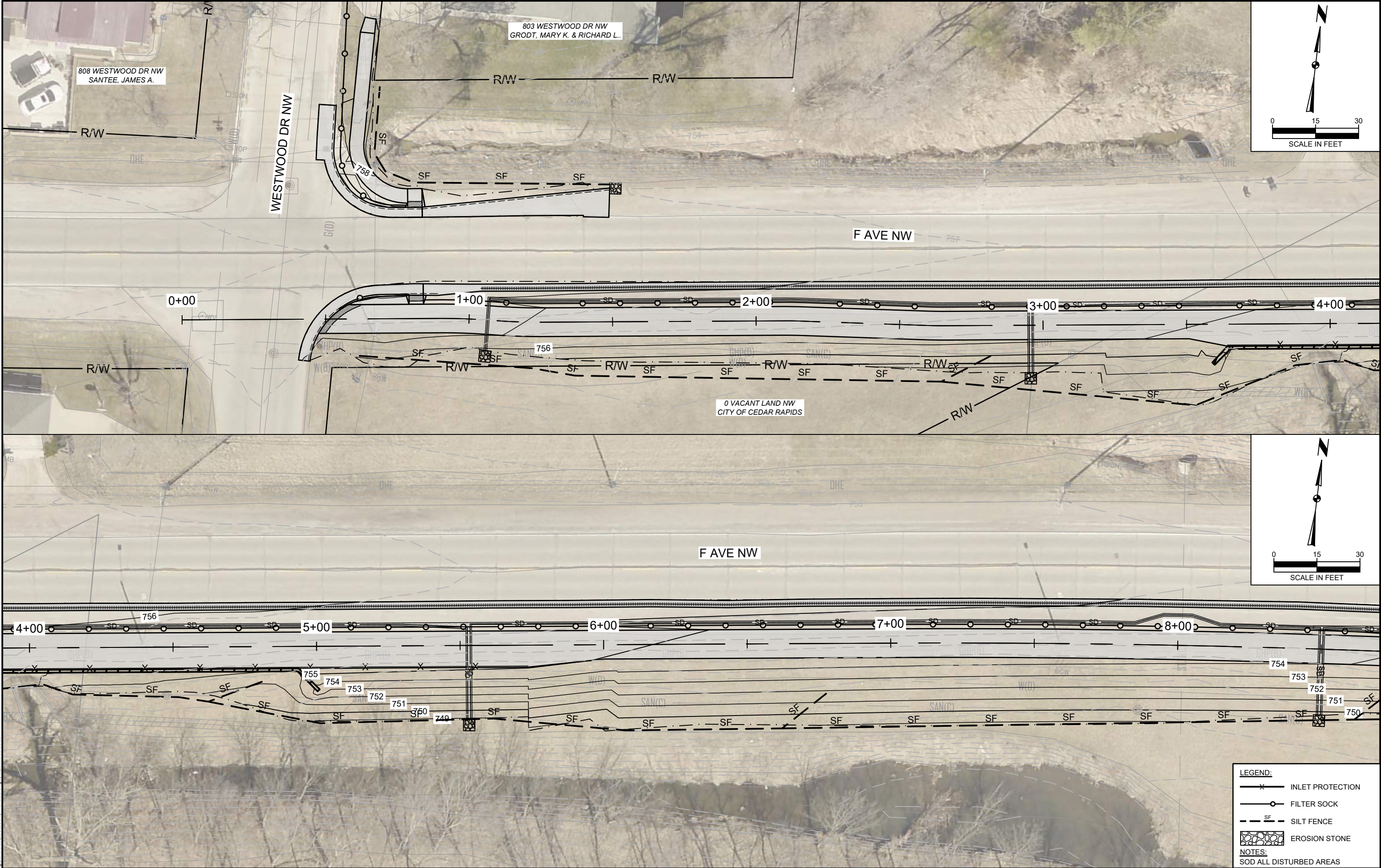
Printed or Typed Name

Michael Kurek, P.E.

Printed or Typed Name

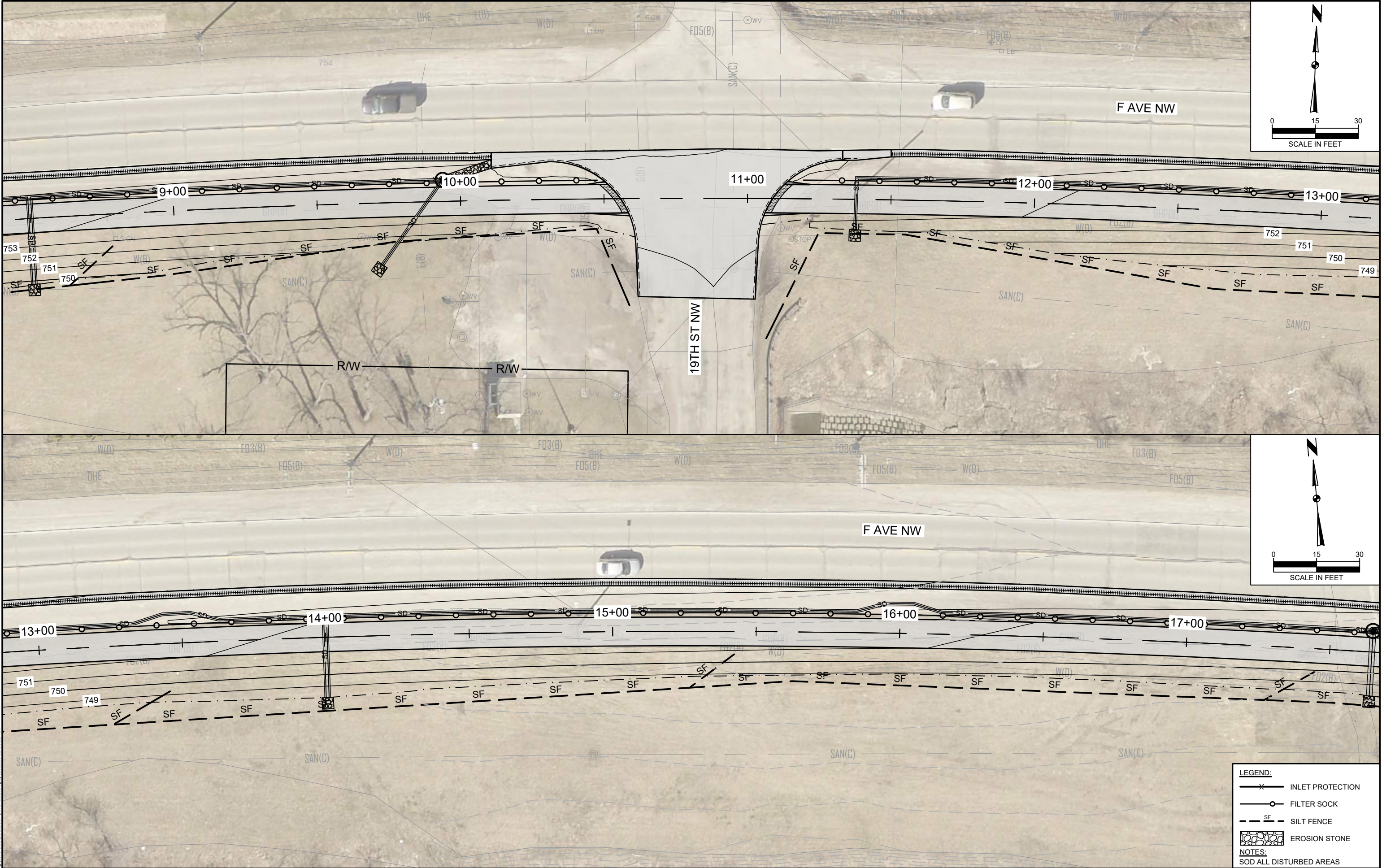
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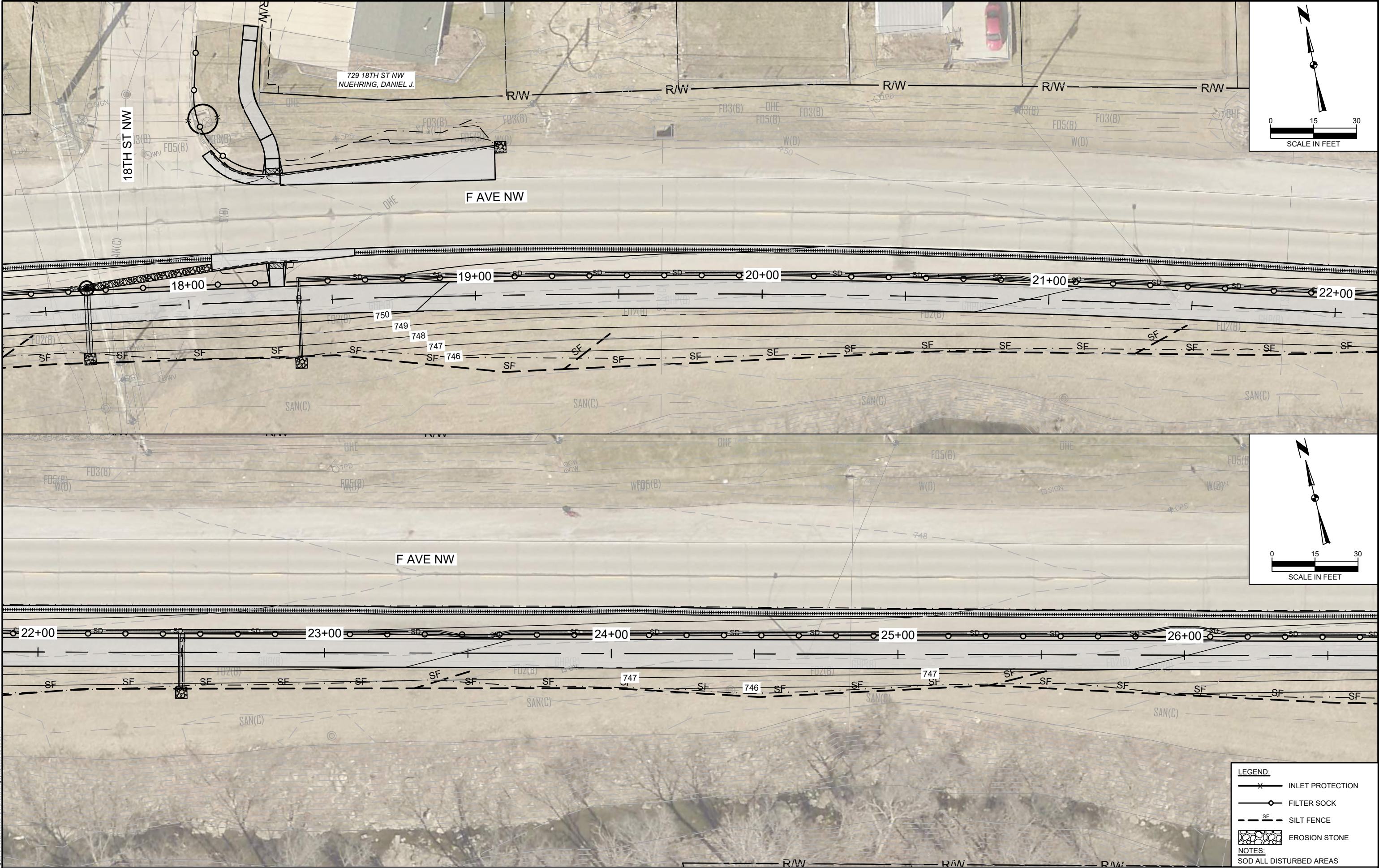


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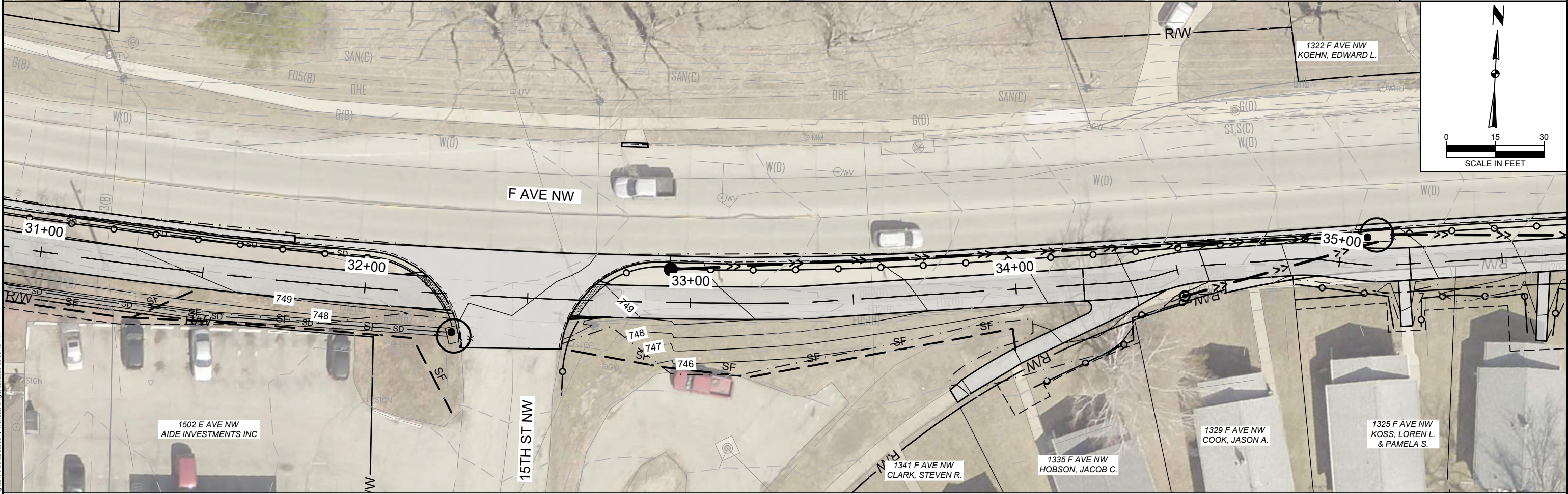
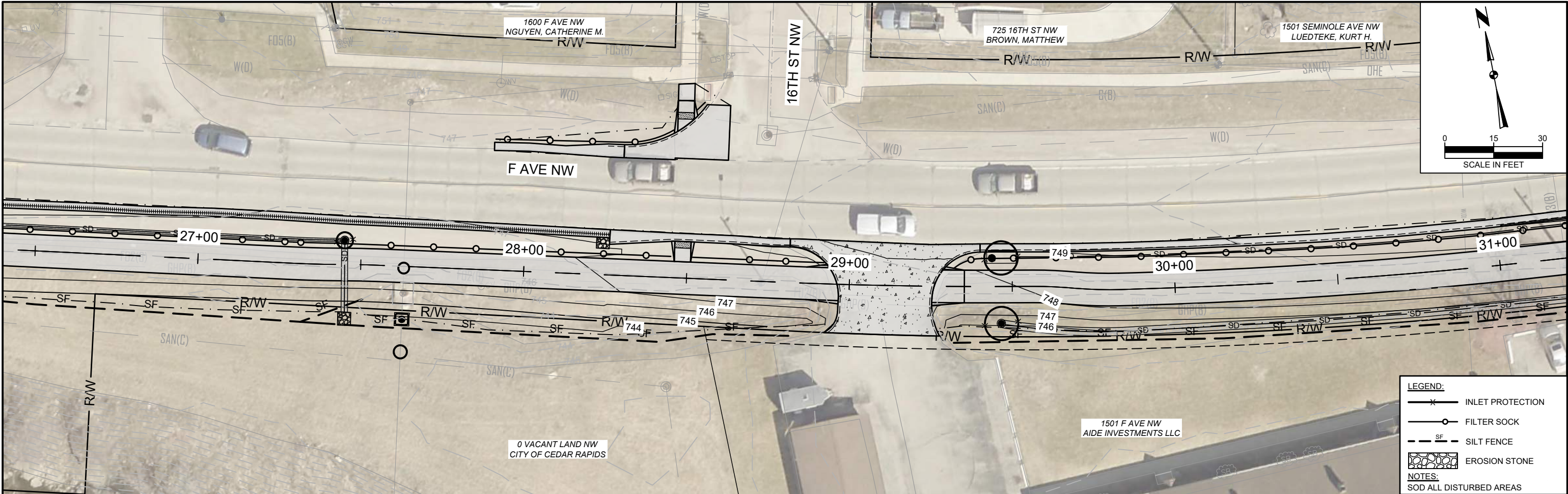


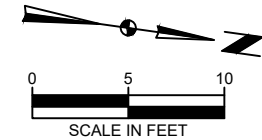
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LEGEND:

PROPOSED SIDEWALK

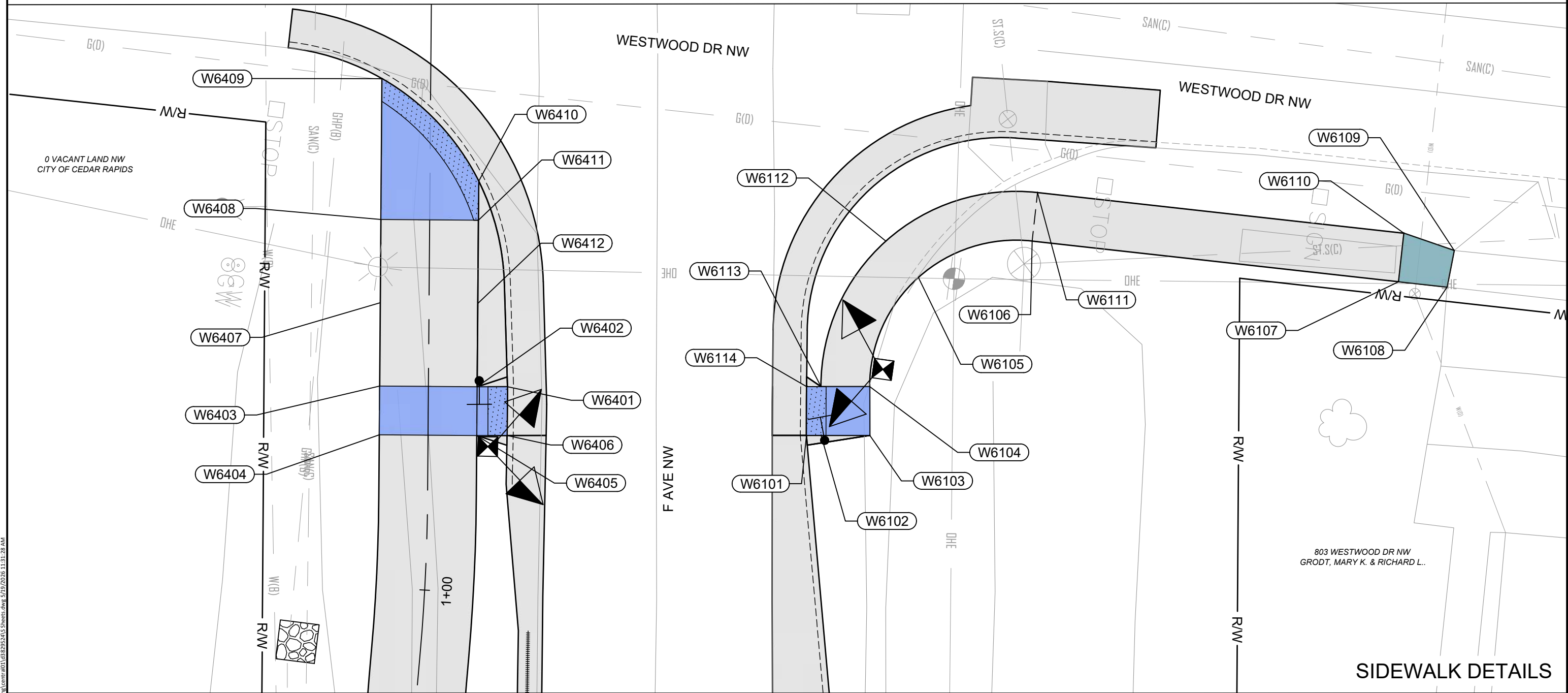
PROPOSED TURNING SPACE

PROPOSED CURB RAMP

PROPOSED SPECIAL SHAPING

PROPOSED SLOPE TRANSITION

PROPOSED DETECTABLE WARNING



SIDEWALK DETAILS

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SIDEWALK COMPLIANCE

See S Sheets

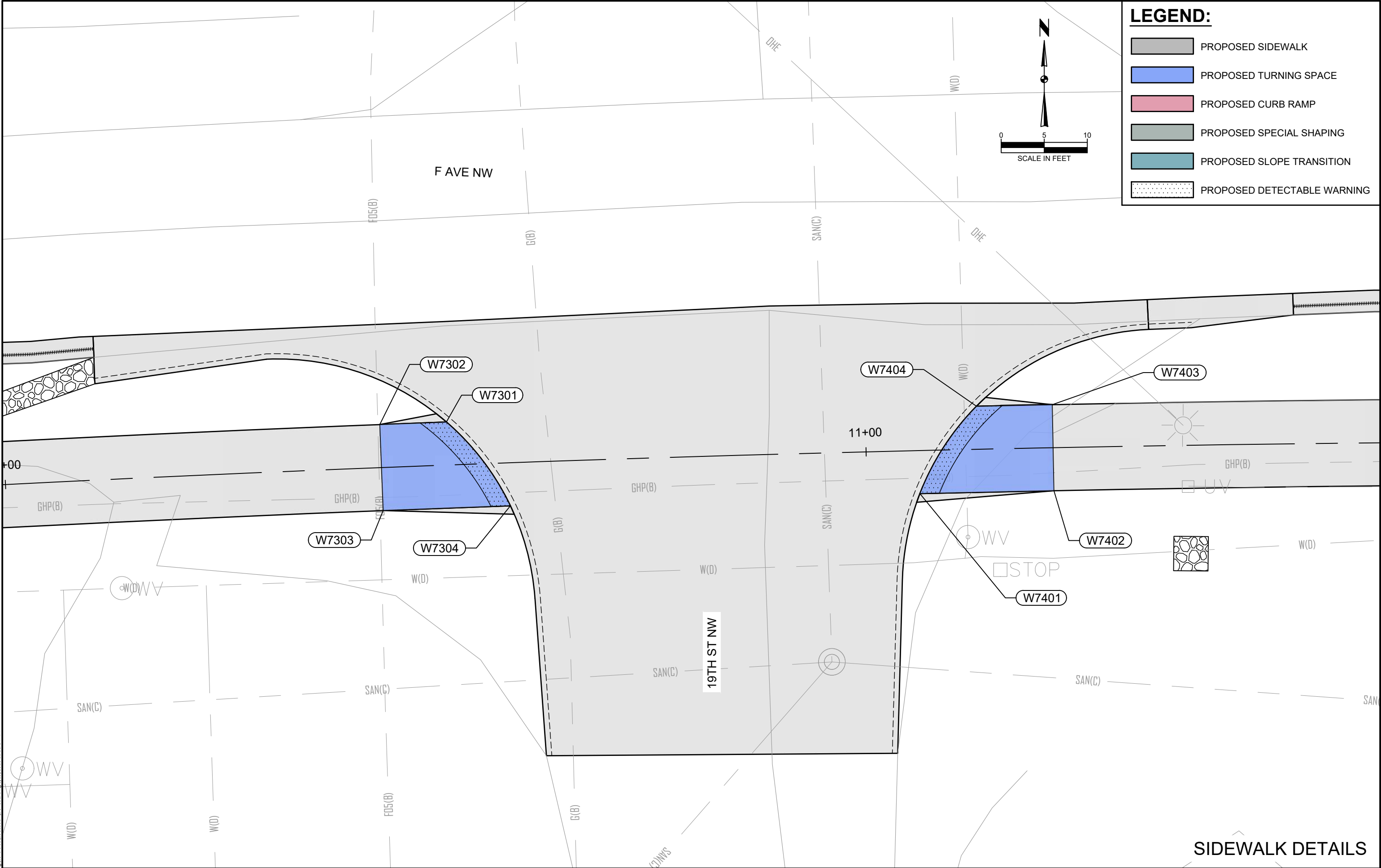
113-10A
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- * Does not include curb
① Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.
② Refer to tabulation 113-01 for bid quantities.

Point to Point		Sidewalk Designation	" PCC Sidewalk ②	Distance*	Δ Elevation	Slope	Acceptable Constructed Range	Staking Required on this Quadrant? ①	Measured Slope	Initials	Remarks	FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES			
				FT	FT	%	Pos. or Neg.		%			Point	Northing	Easting	Elevation
W6101	W6102	Landing/Turning Space	6	1.50	0.02	1.3%	0.1% to 2.0%	Yes				W6101	34609+00.57	5409876.67	757.54
W6102	W6103	Landing/Turning Space	6	5.00	0.08	1.6%	0.1% to 2.0%					W6102	34609+02.06	5409876.26	757.56
W6103	W6104	Landing/Turning Space	6	5.00	0.04	0.8%	0.1% to 2.0%					W6103	34609+07.01	5409875.59	757.64
W6104	W6105	Sidewalk Running Slope	4	12.61	0.33	2.6%	0.5% to 5.0%					W6104	34609+06.34	5409870.63	757.68
W6105	W6106	Sidewalk Running Slope	4	12.61	0.12	1.0%	0.5% to 5.0%					W6105	34609+09.78	5409858.88	758.01
W6106	W6107	Sidewalk Running Slope	4	37.82	0.44	1.2%	0.5% to 5.0%					W6106	34609+20.84	5409853.62	758.13
W6107	W6108	Sidewalk Running Slope	4	5.00	0.12	2.4%	0.5% to 5.0%					W6107	34609+58.64	5409852.69	758.57
W6108	W6109	Match Existing Cross Slope	4	3.82	-0.11	-2.9%	Match Existing					W6108	34609+63.64	5409852.57	758.69
W6109	W6110	Sidewalk Running Slope	4	5.45	-0.08	-1.5%	0.5% to 5.0%					W6109	34609+63.87	5409848.75	758.58
W6110	W6111	Sidewalk Running Slope	4	37.82	-0.45	-1.2%	0.5% to 5.0%					W6110	34609+58.52	5409847.70	758.50
W6111	W6112	Sidewalk Running Slope	4	16.82	-0.12	-0.7%	0.5% to 5.0%					W6111	34609+20.71	5409848.62	758.05
W6112	W6113	Sidewalk Running Slope	4	16.82	-0.33	-2.0%	0.5% to 5.0%					W6112	34609+05.98	5409855.64	757.93
W6113	W6114	Landing/Turning Space	6	1.48	-0.02	-1.4%	0.1% to 2.0%					W6113	34609+01.38	5409871.31	757.60
W6114	W6101	Crosswalk Cross Slope - No Yield Condition	6	5.00	-0.04	-0.8%	0.0% to 5.0%					W6114	34608+99.92	5409871.51	757.58
W6113	W6102	Landing/Turning Space	6	5.00	-0.04	-0.8%	0.1% to 2.0%								
W6113	W6104	Landing/Turning Space	6	5.00	0.08	1.6%	0.1% to 2.0%	Yes				W6401	34608+69.52	5409875.65	757.55
W6112	W6105	Sidewalk Cross Slope	4	5.00	0.08	1.6%	0.5% to 2.0%	Yes				W6402	34608+66.44	5409876.06	757.50
W6111	W6106	Sidewalk Cross Slope	4	5.00	0.08	1.6%	0.5% to 2.0%	Yes				W6403	34608+56.52	5409877.33	757.35
W6110	W6107	Sidewalk Cross Slope	4	5.00	0.07	1.4%	0.5% to 2.0%					W6404	34608+57.15	5409882.29	757.28
												W6405	34608+67.07	5409881.02	757.43
												W6406	34608+70.15	5409880.60	757.48
												W6407	34608+55.43	5409868.86	757.56
												W6408	34608+54.35	5409860.40	757.41
												W6409	34608+52.52	5409846.08	757.26
W6401	W6402	Landing/Turning Space	6	3.11	-0.05	-1.6%	0.1% to 2.0%	Yes				W6410	34608+63.76	5409855.16	757.48
W6402	W6403	Landing/Turning Space	6	10.00	-0.15	-1.5%	0.1% to 2.0%					W6411	34608+64.27	5409859.13	757.54
W6403	W6404	Landing/Turning Space	6	5.00	-0.07	-1.4%	0.1% to 2.0%					W6412	34608+65.35	5409867.60	757.71
W6404	W6405	Landing/Turning Space	6	10.00	0.15	1.5%	0.1% to 2.0%								
W6405	W6406	Landing/Turning Space	6	3.11	0.05	1.6%	0.1% to 2.0%	Yes							
W6406	W6401	Crosswalk Cross Slope - No Yield Condition	6	5.00	0.07	1.4%	0.0% to 5.0%								
W6405	W6402	Landing/Turning Space	6	5.00	0.07	1.4%	0.1% to 2.0%								
W6403	W6407	Sidewalk Running Slope	6	8.54	0.21	2.5%	0.5% to 5.0%								
W6407	W6408	Sidewalk Running Slope	6	8.53	-0.15	-1.8%	0.5% to 5.0%								
W6408	W6409	Landing/Turning Space	6	14.43	-0.15	-1.0%	0.1% to 2.0%								
W6409	W6410	Crosswalk Cross Slope - Yield Condition	6	14.66	0.22	1.5%	0.0% to 2.0%								
W6410	W6411	Landing/Turning Space	6	4.00	0.06	1.5%	0.1% to 2.0%								
W6411	W6412	Sidewalk Running Slope	6	8.54	0.17	2.0%	0.5% to 5.0%								
W6412	W6402	Sidewalk Running Slope	6	8.54	-0.21	-2.5%	0.5% to 5.0%								

SIDEWALK DETAILS

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SIDEWALK DETAILS

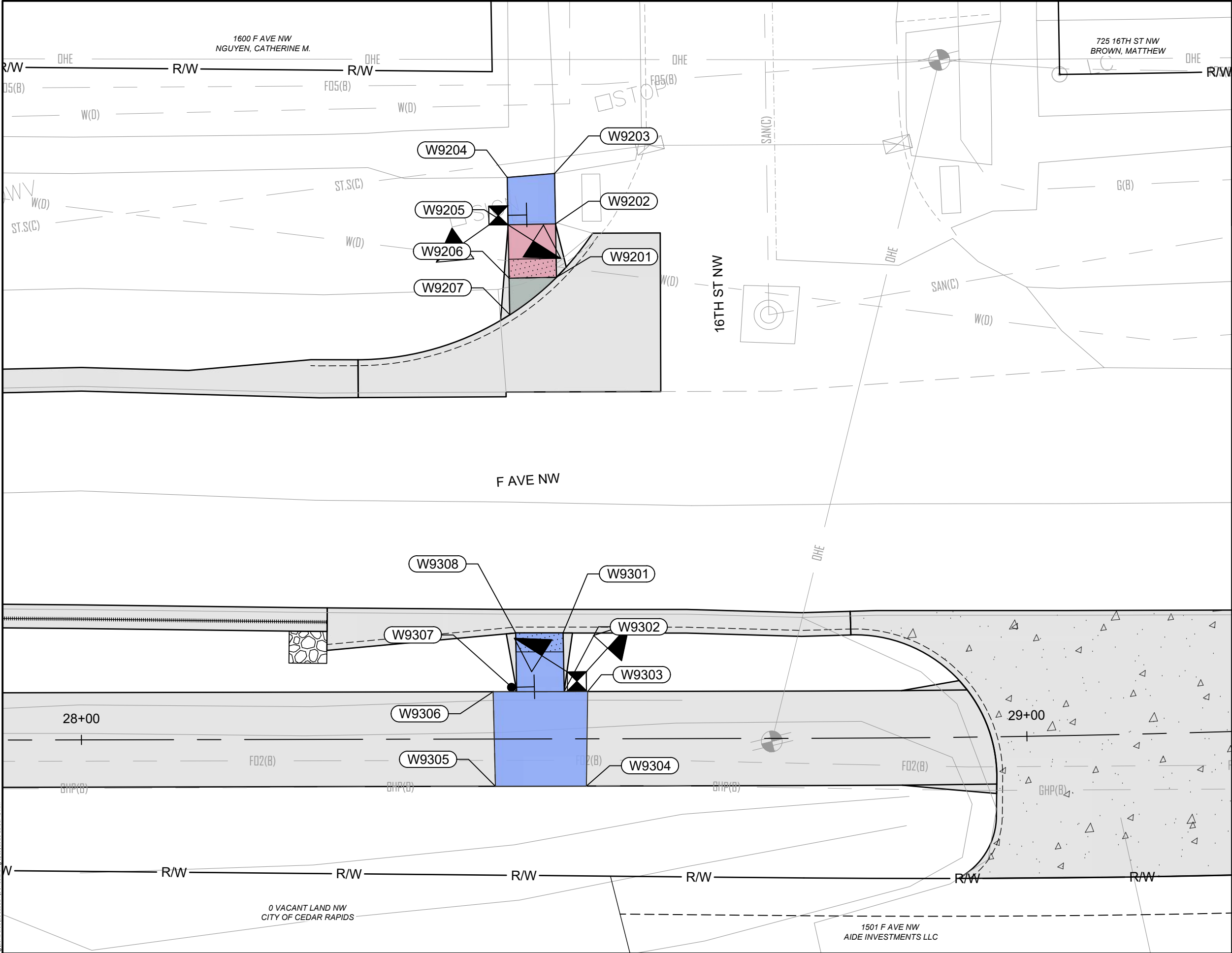
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② Refer to tabulation 113-01 for bid quantities.

SIDEWALK DETAILS

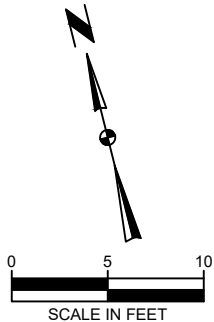
(2) Refer to tabulation 113-01 for bid quantities.

SIDEWALK DETAILS



LEGEND:

- PROPOSED SIDEWALK
- PROPOSED TURNING SPACE
- PROPOSED CURB RAMP
- PROPOSED SPECIAL SHAPING
- PROPOSED SLOPE TRANSITION
- PROPOSED DETECTABLE WARNING



SIDEWALK DETAILS

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SIDEWALK COMPLIANCE

See S Sheets

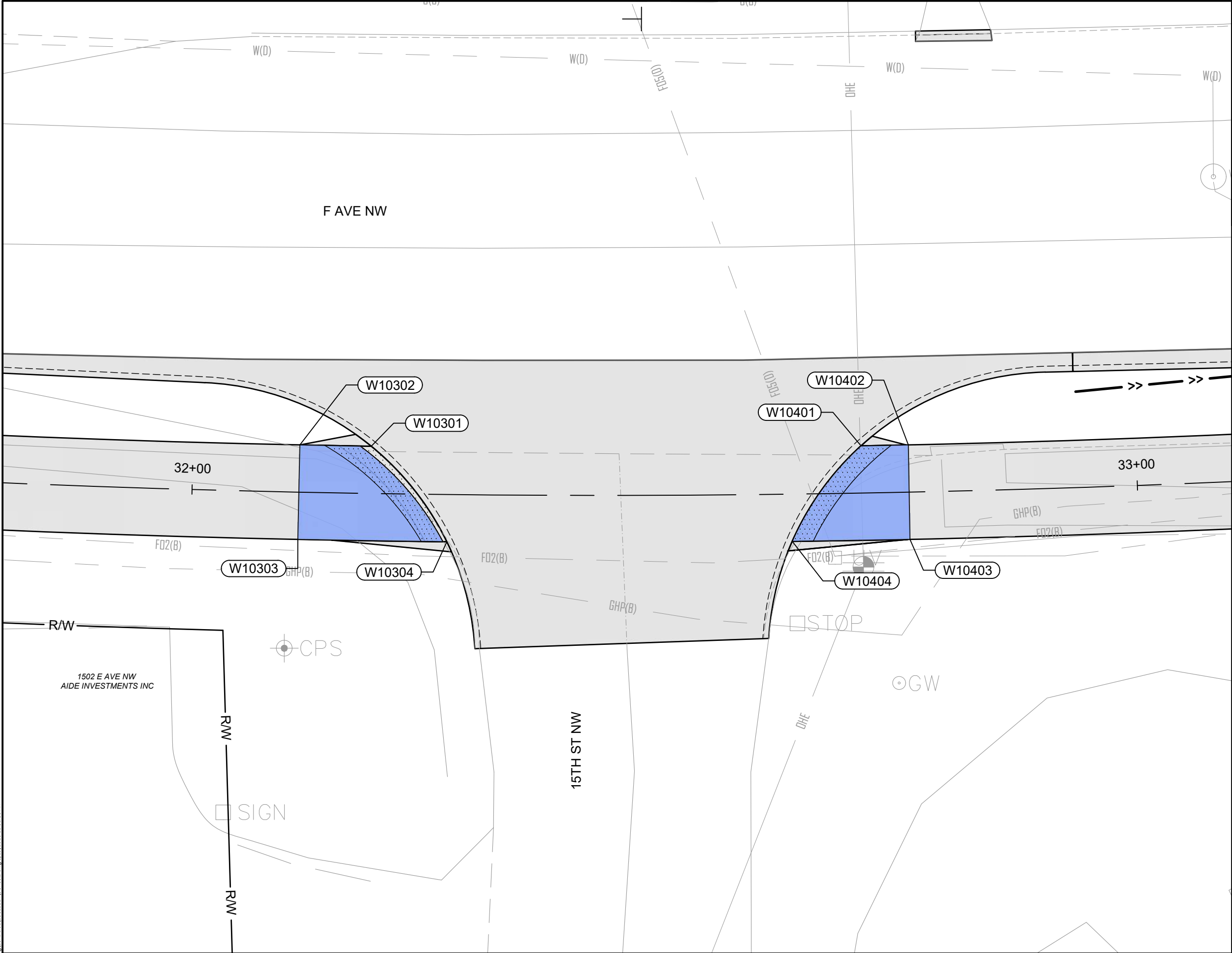
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- * Does not include curb
① Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.
② Refer to tabulation 113-01 for bid quantities.

Point to Point		Sidewalk Designation	_" PCC Sidewalk ②	Distance*	Δ Elevation	Slope	Acceptable Constructed Range	Staking Required on this Quadrant? ①	Measured Slope	Initials	Remarks	FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES			
				FT	FT	%	Pos. or Neg.	①	%			Point	Northing	Easting	Elevation
W9201	W9202	Ramp Running Slope	6	5.65	0.31	5.5%	0.5% to 8.3%					W9201	34607+33.12	5412623.70	747.50
W9202	W9203	Landing/Turning Space	6	5.33	0.08	1.5%	0.1% to 2.0%					W9202	34607+38.63	5412624.94	747.81
W9203	W9204	Match Existing Cross Slope	6	5.00	0.00	0.0%	Match Existing					W9203	34607+43.82	5412626.12	747.89
W9204	W9205	Landing/Turning Space	6	5.00	-0.05	-1.0%	0.1% to 2.0%					W9204	34607+44.61	5412621.17	747.89
W9205	W9206	Ramp Running Slope	6	5.65	-0.26	-4.6%	0.5% to 8.3%					W9205	34607+39.73	5412620.07	747.84
W9206	W9207	Sidewalk Running Slope	6	3.87	-0.14	-3.6%	0.5% to 5.0%					W9206	34607+34.22	5412618.82	747.58
W9201	W9206	Ramp Cross Slope	6	5.00	0.08	1.6%	0.1% to 2.0%	Yes				W9207	34607+30.45	5412617.97	747.44
W9202	W9205	Landing/Turning Space	6	5.00	0.03	0.6%	0.1% to 2.0%								
W9201	W9207	Crosswalk Cross Slope - No Yield Condition	6	6.33	-0.06	-0.9%	0.0% to 5.0%					W9301	34606+96.41	5412615.39	747.46
												W9302	34606+90.36	5412614.02	747.37
W9301	W9302	Landing/Turning Space	4	6.20	-0.09	-1.5%	0.1% to 2.0%					W9303	34606+89.77	5412616.45	747.40
W9302	W9303	Landing/Turning Space	6	2.50	0.03	1.2%	0.1% to 2.0%					W9304	34606+80.09	5412613.93	747.25
W9303	W9304	Landing/Turning Space	6	10.00	-0.15	-1.5%	0.1% to 2.0%					W9305	34606+82.37	5412604.58	747.14
W9304	W9305	Landing/Turning Space	6	9.63	-0.11	-1.1%	0.1% to 2.0%					W9306	34606+92.14	5412606.73	747.29
W9305	W9306	Landing/Turning Space	6	10.00	0.15	1.5%	0.1% to 2.0%					W9307	34606+91.54	5412609.16	747.32
W9306	W9307	Landing/Turning Space	6	2.50	0.03	1.2%	0.1% to 2.0%					W9308	34606+97.61	5412610.54	747.41
W9307	W9308	Landing/Turning Space	6	6.22	0.09	1.4%	0.1% to 2.0%								
W9302	W9307	Landing/Turning Space	6	5.00	-0.05	-1.0%	0.1% to 2.0%								
W9301	W9308	Crosswalk Cross Slope - No Yield Condition	6	5.00	-0.05	-1.0%	0.0% to 5.0%								

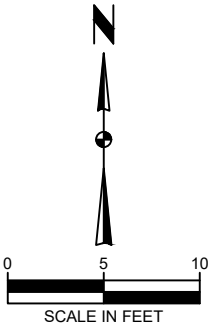
SIDEWALK DETAILS

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LEGEND:

- PROPOSED SIDEWALK
- PROPOSED TURNING SPACE
- PROPOSED CURB RAMP
- PROPOSED SPECIAL SHAPING
- PROPOSED SLOPE TRANSITION
- PROPOSED DETECTABLE WARNING

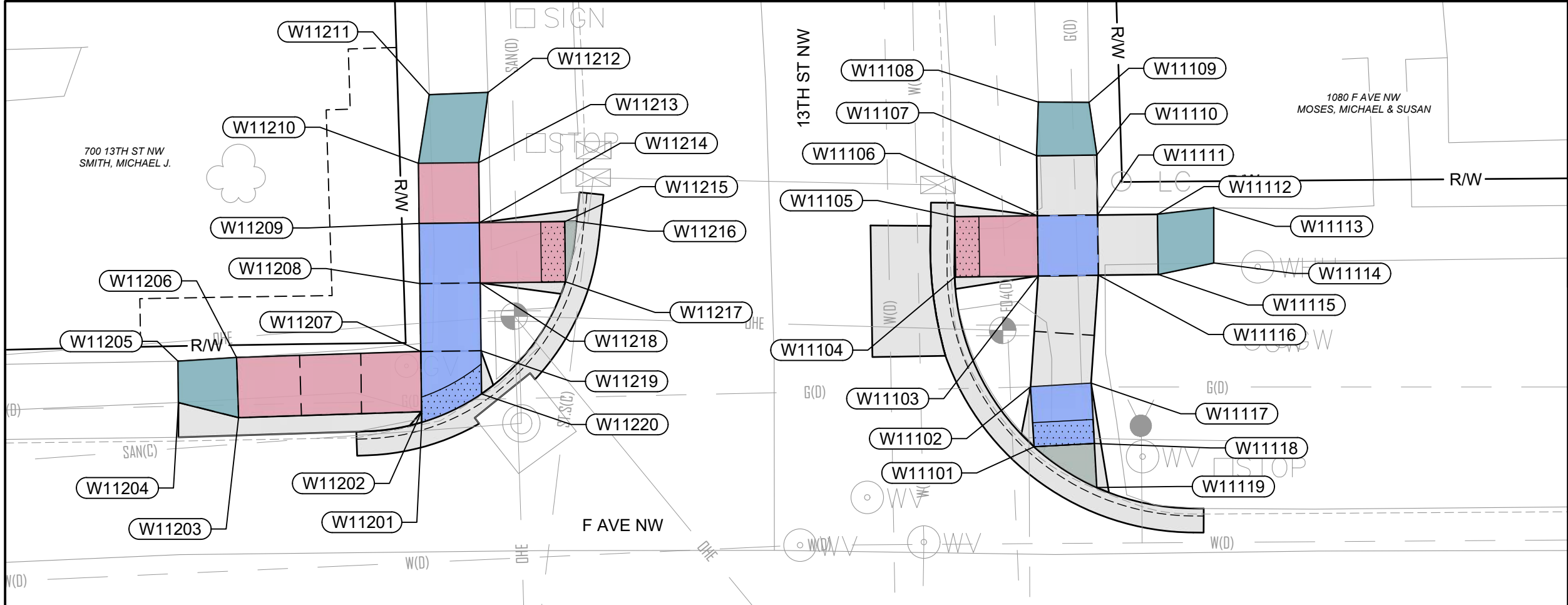


SIDEWALK DETAILS

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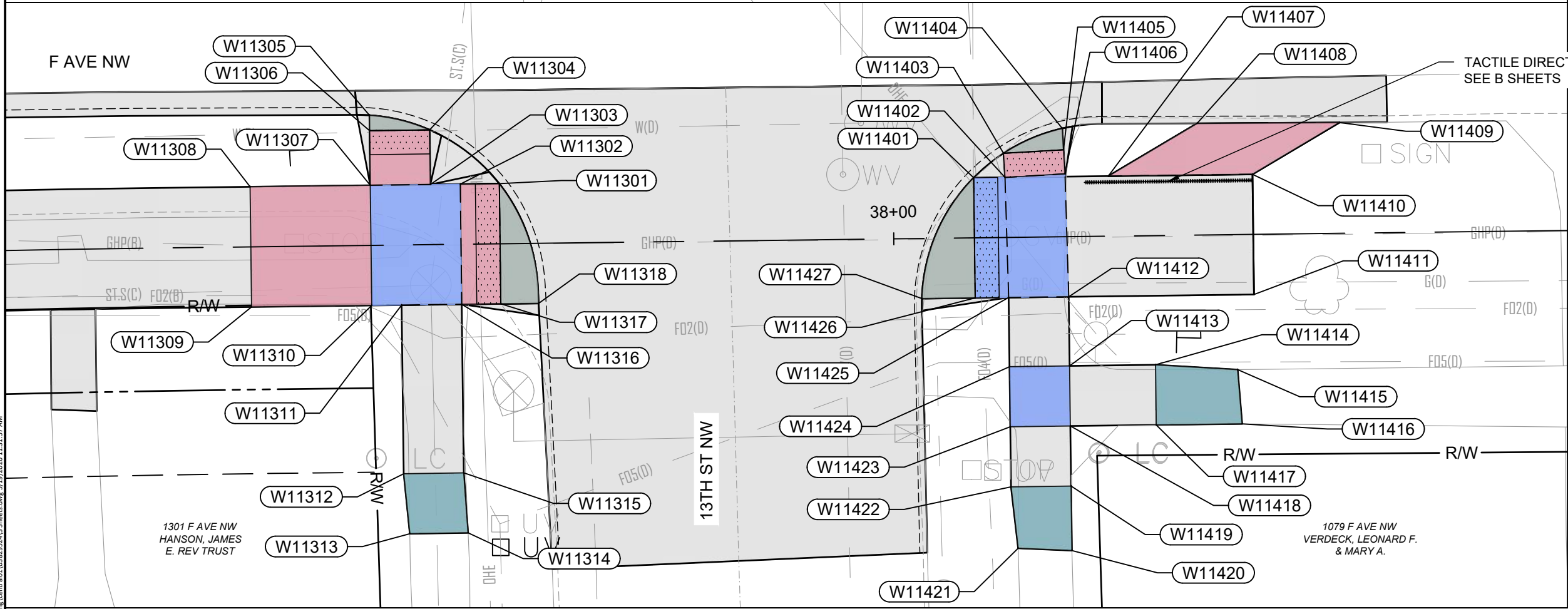
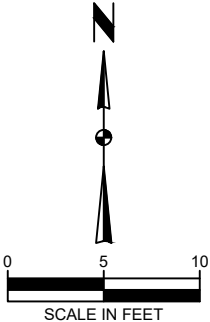
② Refer to tabulation 113-01 for bid quantities.

SIDEWALK DETAILS



LEGEND:

- PROPOSED SIDEWALK
- PROPOSED TURNING SPACE
- PROPOSED CURB RAMP
- PROPOSED SPECIAL SHAPING
- PROPOSED SLOPE TRANSITION
- PROPOSED DETECTABLE WARNING



SIDEWALK DETAILS

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113-10A 04-21-20															
SIDEWALK COMPLIANCE															
See S Sheets															
* Does not include curb															
(1) Staking Required by Contracting Authority per Article 2511.03 of the Standard Specifications.															
(2) Refer to tabulation 113-01 for bid quantities.															
Point to Point		Sidewalk Designation	- " PCC Sidewalk (2)	Distance*	Δ Elevation	Slope	Acceptable Constructed Range	Staking Required on this Quadrant? (1)	Measured Slope %	Initials	Remarks	FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES			
												Point	Northing	Easting	Elevation
W11101	W11102	Landing/Turning Space	6	5.00	0.05	1.0%	0.1% to 2.0%					W11101	3460722.28	5413561.41	733.98
W11102	W11103	Sidewalk Running Slope	6	9.23	0.06	0.7%	0.5% to 5.0%					W11102	3460727.28	5413561.11	734.01
W11103	W11104	Ramp Running Slope	6	6.94	-0.36	-5.2%	0.5% to 8.3%					W11103	3460736.48	5413561.74	734.09
W11104	W11105	Crosswalk Cross Slope - Yield Condition	6	5.00	-0.07	-1.4%	0.0% to 2.0%					W11104	3460736.40	5413554.80	733.73
W11105	W11106	Ramp Running Slope	6	6.87	0.50	7.3%	0.5% to 8.3%					W11105	3460741.40	5413554.81	733.66
W11106	W11107	Sidewalk Running Slope	4	5.00	0.23	4.6%	0.5% to 5.0%	Yes				W11106	3460741.48	5413561.68	734.16
W11107	W11108	Sidewalk Running Slope	4	4.46	0.15	3.4%	0.5% to 5.0%					W11107	3460746.48	5413561.62	734.39
W11108	W11109	Match Existing Cross Slope	4	4.20	-0.13	-3.1%	Match Existing					W11108	3460750.94	5413561.77	734.54
W11109	W11110	Sidewalk Running Slope	4	4.41	0.05	1.1%	0.5% to 5.0%					W11109	3460750.91	5413565.97	734.41
W11110	W11111	Sidewalk Running Slope	4	5.00	-0.22	-4.4%	0.5% to 5.0%	Yes				W11110	3460746.55	5413566.62	734.46
W11111	W11112	Sidewalk Running Slope	4	5.00	0.22	4.4%	0.5% to 5.0%	Yes				W11111	3460741.55	5413566.68	734.24
W11112	W11113	Sidewalk Cross Slope	4	4.70	0.09	1.9%	0.5% to 2.0%	Yes				W11112	3460741.61	5413571.68	734.46
W11113	W11114	Match Existing Cross Slope	4	4.58	-0.11	-2.4%	Match Existing					W11113	3460742.14	5413576.35	734.55
W11114	W11115	Sidewalk Running Slope	4	4.70	-0.05	-1.1%	0.5% to 5.0%					W11114	3460737.56	5413576.34	734.44
W11115	W11116	Sidewalk Running Slope	4	5.00	-0.23	-4.6%	0.5% to 5.0%	Yes				W11115	3460736.61	5413571.74	734.39
W11116	W11117	Sidewalk Running Slope	6	8.99	-0.05	-0.6%	0.5% to 5.0%					W11116	3460736.55	5413566.74	734.16
W11117	W11118	Landing/Turning Space	6	5.02	-0.05	-1.0%	0.1% to 2.0%					W11117	3460727.57	5413566.15	734.11
W11118	W11119	Sidewalk Running Slope	6	3.66	0.02	0.5%	0.5% to 5.0%					W11118	3460722.56	5413566.42	734.06
W11119	W11101	Crosswalk Cross Slope - Yield Condition	6	6.24	-0.10	-1.6%	0.0% to 2.0%					W11119	3460718.90	5413566.61	734.08
W11101	W11118	Landing/Turning Space	6	5.00	0.08	1.6%	0.1% to 2.0%	Yes							
W11102	W11117	Landing/Turning Space	6	5.04	0.08	1.6%	0.1% to 2.0%	Yes				W11201	3460724.31	5413510.45	734.40
W11103	W11116	Landing/Turning Space	6	5.00	0.07	1.4%	0.1% to 2.0%					W11202	3460725.20	5413510.44	734.41
W11103	W11106	Landing/Turning Space	6	5.00	0.07	1.4%	0.1% to 2.0%					W11203	3460724.71	5413495.21	735.54
W11106	W11111	Landing/Turning Space	6	5.00	0.08	1.6%	0.1% to 2.0%	Yes				W11204	3460725.96	5413490.22	735.69
W11107	W11110	Sidewalk Cross Slope	4	5.00	0.07	1.4%	0.5% to 2.0%					W11205	3460729.39	5413490.18	735.83
W11116	W11111	Landing/Turning Space	6	5.00	0.08	1.6%	0.1% to 2.0%	Yes				W11206	3460729.70	5413495.05	735.61
W11115	W11112	Sidewalk Cross Slope	4	5.00	0.07	1.4%	0.5% to 2.0%					W11207	3460730.20	5413510.38	734.44
												W11208	3460735.84	5413510.31	734.52
W11201	W11202	Landing/Turning Space	6	0.89	0.01	1.1%	0.1% to 2.0%					W11209	3460740.84	5413510.25	734.60
W11202	W11203	Ramp Running Slope	6	15.24	1.13	7.4%	0.5% to 8.3%	Yes				W11210	3460745.84	5413510.19	734.87
W11203	W11204	Sidewalk Running Slope	4	5.15	0.15	2.9%	0.5% to 5.0%					W11211	3460751.55	5413511.09	735.03
W11204	W11205	Match Existing Cross Slope	4	3.43	0.14	4.1%	Match Existing					W11212	3460751.74	5413515.96	735.00
W11205	W11206	Sidewalk Running Slope	4	4.88	-0.22	-4.5%	0.5% to 5.0%	Yes				W11213	3460745.91	5413515.19	734.79
W11206	W11207	Ramp Running Slope	6	15.34	-1.17	-7.6%	0.5% to 8.3%	Yes				W11214	3460740.91	5413515.25	734.52
W11207	W11208	Landing/Turning Space	6	5.64	0.08	1.4%	0.1% to 2.0%					W11215	3460740.99	5413522.35	734.10
W11208	W11209	Landing/Turning Space	6	5.00	0.08	1.6%	0.1% to 2.0%	Yes				W11216	3460741.00	5413523.33	734.06
W11209	W11210	Ramp Running Slope	4	5.00	0.27	5.4%	0.5% to 8.3%					W11217	3460736.00	5413522.41	734.18
W11210	W11211	Sidewalk Running Slope	4	5.77	0.16	2.8%	0.5% to 5.0%					W11218	3460735.91	5413515.31	734.45
W11211	W11212	Match Existing Cross Slope	4	4.87	-0.03	-0.6%	Match Existing					W11219	3460730.26	5413515.38	734.36
W11212	W11213	Sidewalk Running Slope	4	5.88	-0.21	-3.6%	0.5% to 5.0%					W11220	3460726.68	5413515.43	734.31
W11213	W11214	Ramp Running Slope	4	5.00	-0.27	-5.4%	0.5% to 8.3%								
W11214	W11215	Ramp Running Slope	6	7.10	-0.42	-5.9%	0.5% to 8.3%					W11301	3460680.95	5413521.73	734.73
W11215	W11216	Sidewalk Running Slope	6	0.98	-0.04	-4.1%	0.5% to 5.0%	Yes				W11302	3460680.91	5413518.48	734.81
W11216	W11217	Crosswalk Cross Slope - Yield Condition	6	5.11	0.12	2.3%	0.0% to 3.3%					W11303	3460680.88	5413515.99	734.85
W11217	W11218	Ramp Running Slope	6	7.10	0.27	3.8%	0.5% to 8.3%					W11304	3460685.42	5413515.94	734.88
W11218	W11219	Landing/Turning Space	6	5.64	-0.09	-1.6%	0.1% to 2.0%	Yes				W11305	3460686.64	5413510.92	734.96
W11219	W11220	Landing/Turning Space	6	3.59	-0.05	-1.4%	0.1% to 2.0%					W11306	3460685.36	5413510.94	734.95
W11220	W11201	Crosswalk Cross Slope - Yield Condition	6	5.53	0.09	1.6%	0.0% to 2.0%					W11307	3460680.81	5413511.00	734.92
W11202	W11207	Landing/Turning Space	6	5.00	0.03	0.6%	0.1% to 2.0%					W11308	3460680.69	5413501.00	735.56
W11203	W11206	Ramp Cross Slope	6	5.00	0.07	1.4%	0.1% to 2.0%					W11309	3460670.69	5413501.12	735.71
W11219	W11207	Landing/Turning Space	6	5.00	0.08	1.6%	0.1% to 2.0%	Yes				W11310	3460670.82	5413511.12	735.07
W11218	W11208	Landing/Turning Space	6	5.00	0.07	1.4%	0.1% to 2.0%					W11311	3460670.85	5413513.60	735.04
W11214	W11209	Landing/Turning Space	6	5.00	0.08	1.6%	0.1% to 2.0%	Yes				W11312	3460656.81	5413513.78	735.25
W11213	W11210	Ramp Cross Slope	6	5.00	0.08	1.6%	0.1% to 2.0%	Yes				W11313	3460651.82	5413514.28	735.33
W11218	W11214	Landing/Turning Space	6	5.00	0.07	1.4%	0.1% to 2.0%					W11314	3460651.89	5413519.13	735.27
W11217	W11215	Ramp Cross Slope	6	5.00	-0.08	-1.6%	0.1% to 2.0%	Yes				W11315	3460656.89	5413518.78	735.17
												W11316	3460670.91	5413518.60	734.96
W11301	W11317	Ramp Cross Slope	6	10.00	0.03	0.									

SIDEWALK COMPLIANCE

See S Sheets

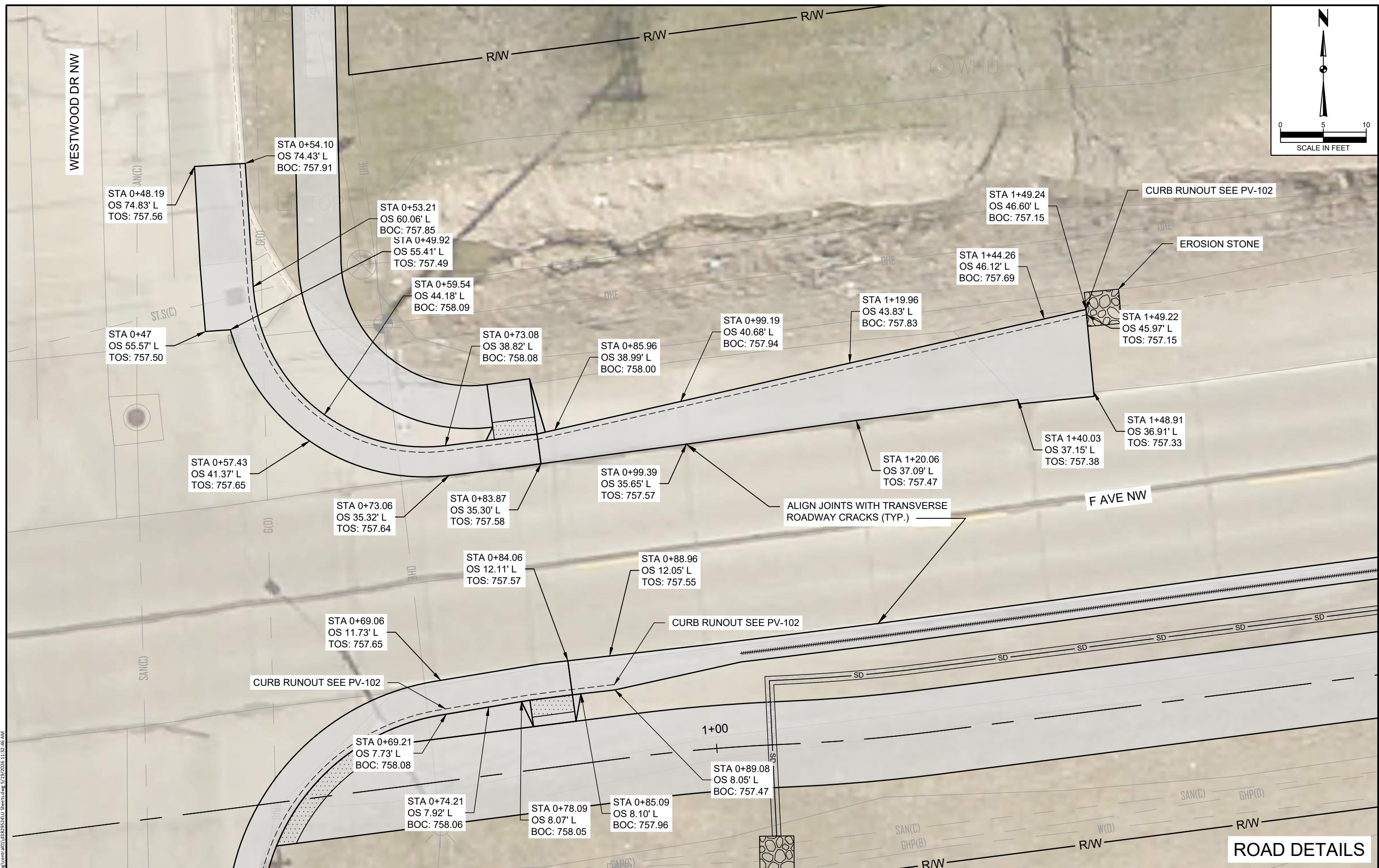
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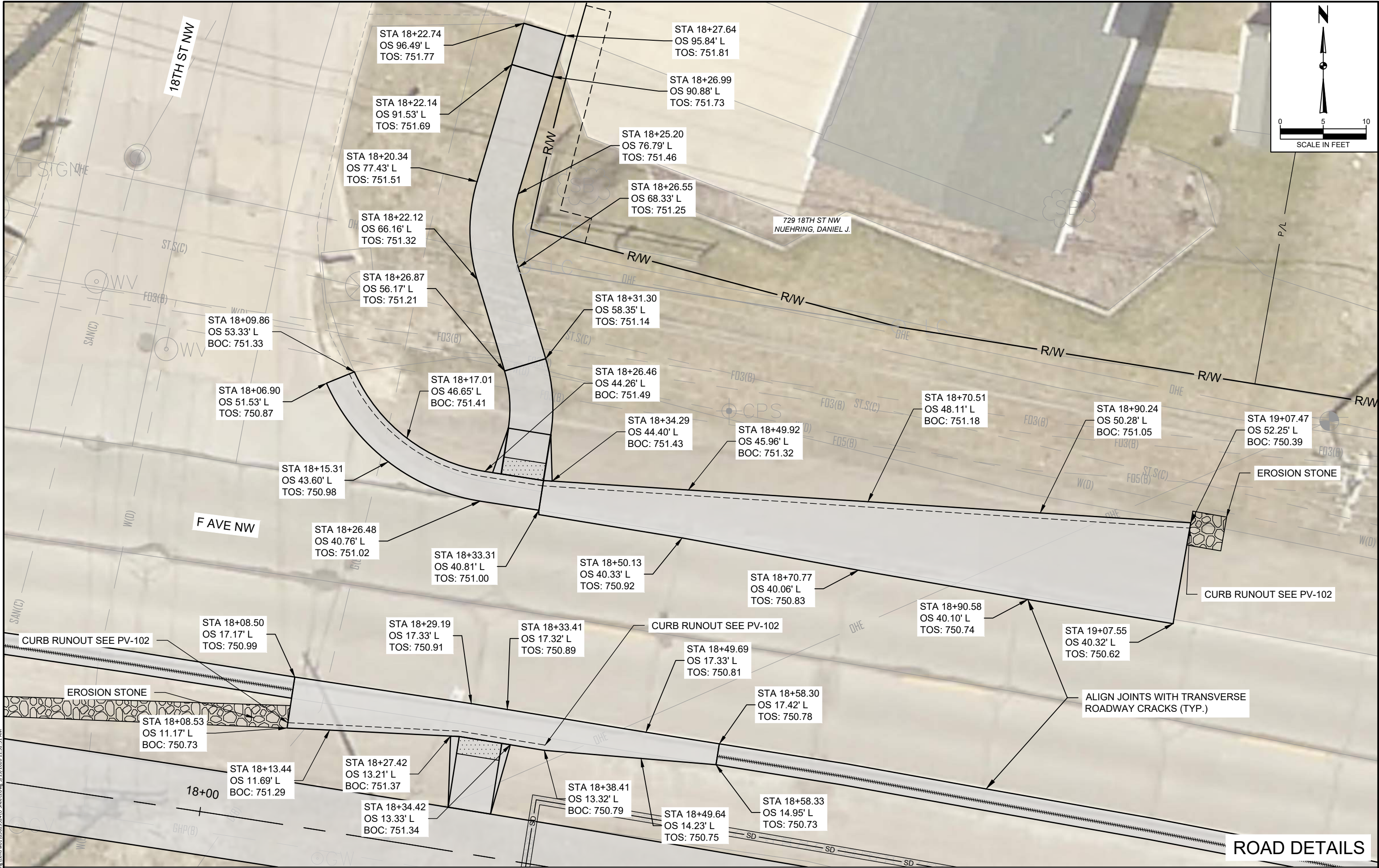
- * Does not include curb
(1) Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.
(2) Refer to tabulation 113-01 for bid quantities.

Point to Point		Sidewalk Designation	- " PCC Sidewalk (2)	Distance*	Δ Elevation	Slope	Acceptable Constructed Range	Staking Required on this Quadrant? (1)	Measured Slope	Initials	Remarks	FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES			
				FT	FT	%	Pos. or Neg.	(1)	%			Point	Northing	Easting	Elevation
W11302	W11316	Landing/Turning Space	6	10.00	0.15	1.5%	0.1% to 2.0%					W11417	3460660.87	5413576.39	734.71
W11303	W11307	Landing/Turning Space	6	5.00	0.07	1.4%	0.1% to 2.0%					W11418	3460660.79	5413569.24	734.62
W11304	W11306	Ramp Cross Slope	6	5.00	0.07	1.4%	0.1% to 2.0%					W11419	3460655.79	5413569.30	734.67
W11307	W11310	Landing/Turning Space	6	10.00	0.15	1.5%	0.1% to 2.0%					W11420	3460650.42	5413569.37	734.70
W11316	W11311	Landing/Turning Space	6	5.00	0.08	1.6%	0.1% to 2.0%	Yes				W11421	3460650.61	5413564.90	734.71
W11315	W11312	Sidewalk Cross Slope	4	5.00	0.08	1.6%	0.5% to 2.0%	Yes				W11422	3460655.72	5413564.30	734.60
												W11423	3460660.72	5413564.24	734.55
W11401	W11402	Landing/Turning Space	6	2.61	0.02	0.8%	0.1% to 2.0%					W11424	3460665.72	5413564.18	734.47
W11402	W11403	Ramp Running Slope	6	2.00	-0.14	-7.0%	0.5% to 8.3%					W11425	3460671.47	5413564.11	734.42
W11403	W11404	Crosswalk Cross Slope - Yield Condition	6	5.34	-0.05	-0.9%	0.0% to 2.0%					W11426	3460671.44	5413561.32	734.40
W11404	W11405	Sidewalk Running Slope	6	1.78	0.08	4.5%	0.5% to 5.0%	Yes				W11427	3460671.38	5413556.90	734.33
W11405	W11406	Ramp Running Slope	6	2.00	0.15	7.5%	0.5% to 8.3%	Yes							
W11406	W11407	Sidewalk Running Slope	6	3.59	0.03	0.8%	0.5% to 5.0%								
W11407	W11408	Ramp Running Slope	6	8.59	-0.38	-4.4%	0.5% to 8.3%								
W11408	W11409	Crosswalk Cross Slope - Yield Condition	6	11.86	-0.06	-0.5%	0.0% to 2.0%								
W11409	W11410	Ramp Running Slope	6	8.43	0.50	5.9%	0.5% to 8.3%								
W11410	W11411	Sidewalk Cross Slope	6	10.00	0.15	1.5%	0.5% to 2.0%								
W11411	W11412	Sidewalk Running Slope	6	15.42	-0.09	-0.6%	0.5% to 5.0%								
W11412	W11413	Sidewalk Running Slope	4	5.75	0.09	1.6%	0.5% to 5.0%								
W11413	W11414	Sidewalk Running Slope	4	7.15	0.11	1.5%	0.5% to 5.0%								
W11414	W11415	Sidewalk Running Slope	4	6.85	-0.05	-0.7%	0.5% to 5.0%								
W11415	W11416	Match Existing Cross Slope	4	4.53	-0.03	-0.7%	Match Existing								
W11416	W11417	Sidewalk Running Slope	4	7.15	0.13	1.8%	0.5% to 5.0%								
W11417	W11418	Sidewalk Running Slope	4	7.15	-0.09	-1.3%	0.5% to 5.0%								
W11418	W11419	Sidewalk Running Slope	4	5.00	0.05	1.0%	0.5% to 5.0%								
W11419	W11420	Sidewalk Running Slope	4	5.37	0.03	0.6%	0.5% to 5.0%								
W11420	W11421	Match Existing Cross Slope	4	4.48	0.01	0.2%	Match Existing								
W11421	W11422	Sidewalk Running Slope	4	5.14	-0.11	-2.1%	0.5% to 5.0%								
W11422	W11423	Sidewalk Running Slope	4	5.00	-0.05	-1.0%	0.5% to 5.0%								
W11423	W11424	Landing/Turning Space	6	5.00	-0.08	-1.6%	0.1% to 2.0%	Yes							
W11424	W11425	Sidewalk Running Slope	4	5.75	-0.05	-0.9%	0.5% to 5.0%								
W11425	W11426	Landing/Turning Space	6	2.78	-0.02	-0.7%	0.1% to 2.0%								
W11426	W11427	Sidewalk Running Slope	6	4.43	-0.07	-1.6%	0.5% to 5.0%								
W11427	W11401	Crosswalk Cross Slope - Yield Condition	6	11.19	-0.08	-0.7%	0.0% to 2.0%								
W11401	W11426	Landing/Turning Space	6	10.00	0.15	1.5%	0.1% to 2.0%								
W11402	W11425	Landing/Turning Space	6	10.00	0.15	1.5%	0.1% to 2.0%								
W11403	W11405	Ramp Cross Slope	6	5.00	0.03	0.6%	0.1% to 2.0%								
W11402	W11406	Ramp Cross Slope	6	5.00	0.04	0.8%	0.1% to 2.0%								
W11425	W11412	Landing/Turning Space	6	5.00	0.04	0.8%	0.1% to 2.0%								
W11406	W11412	Landing/Turning Space	6	10.23	0.15	1.5%	0.1% to 2.0%								
W11407	W11410	Ramp Cross Slope	6	12.00	0.06	0.5%	0.1% to 2.0%								
W11424	W11413	Landing/Turning Space	6	5.00	0.08	1.6%	0.1% to 2.0%	Yes							
W11423	W11418	Landing/Turning Space	6	5.00	0.07	1.4%	0.1% to 2.0%								
W11413	W11418	Landing/Turning Space	6	5.00	0.07	1.4%	0.1% to 2.0%								
W11414	W11417	Sidewalk Cross Slope	4	5.00	0.05	1.0%	0.5% to 2.0%								
W11422	W11419	Sidewalk Cross Slope	4	5.00	0.07	1.4%	0.5% to 2.0%								

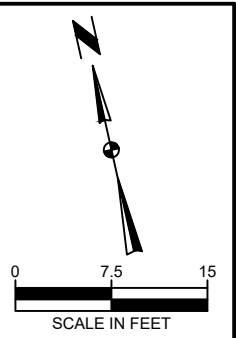
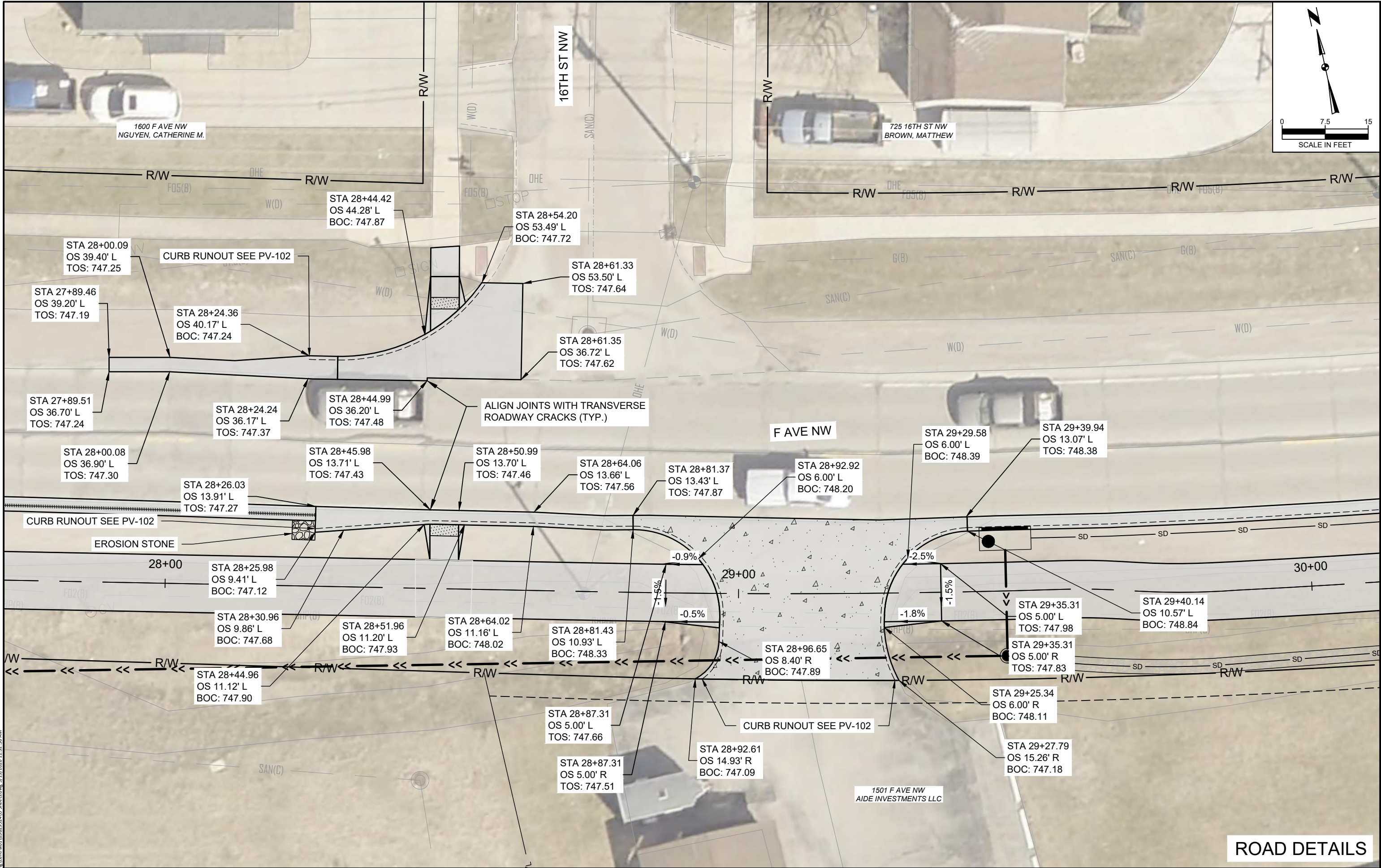
SIDEWALK DETAILS

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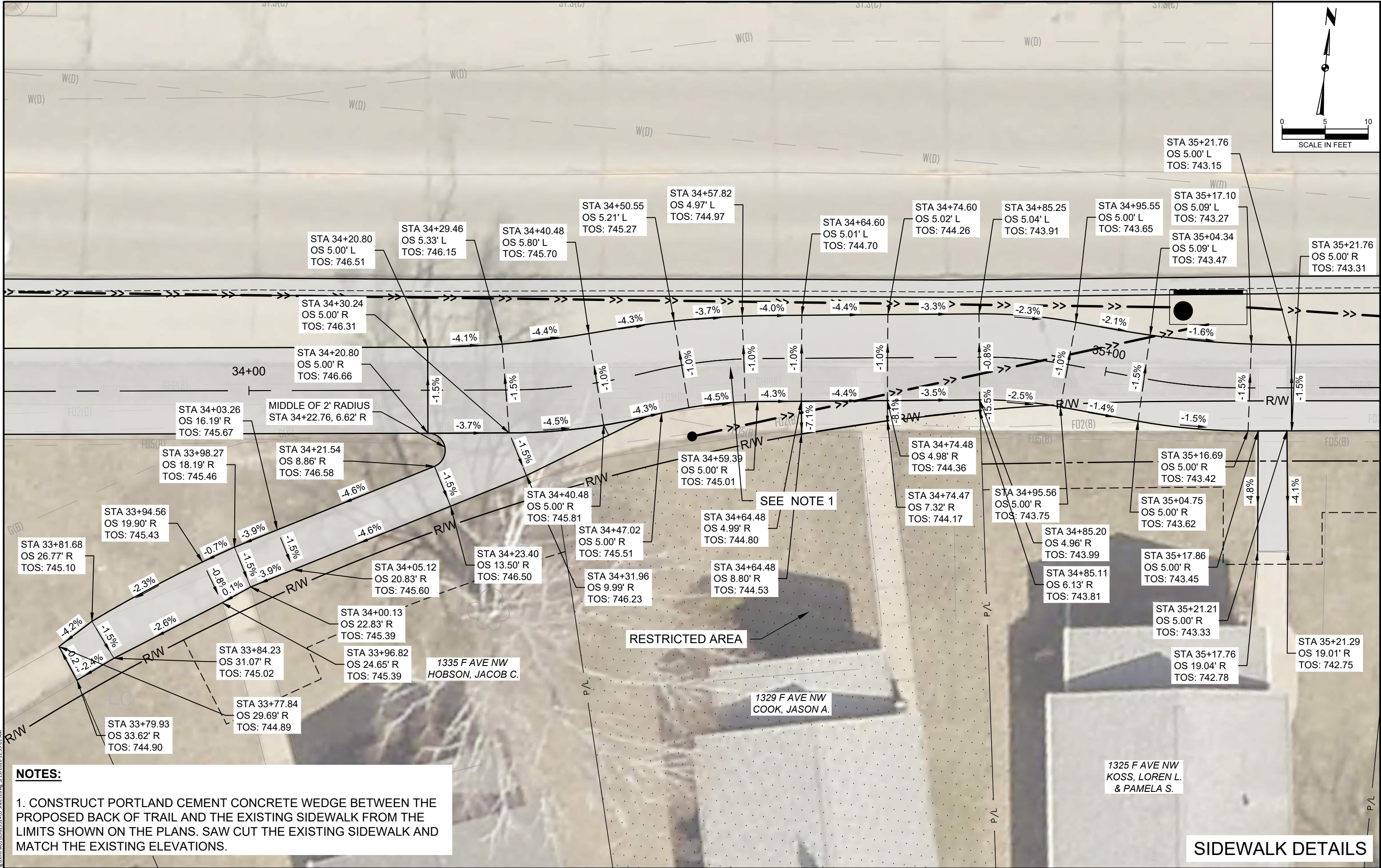




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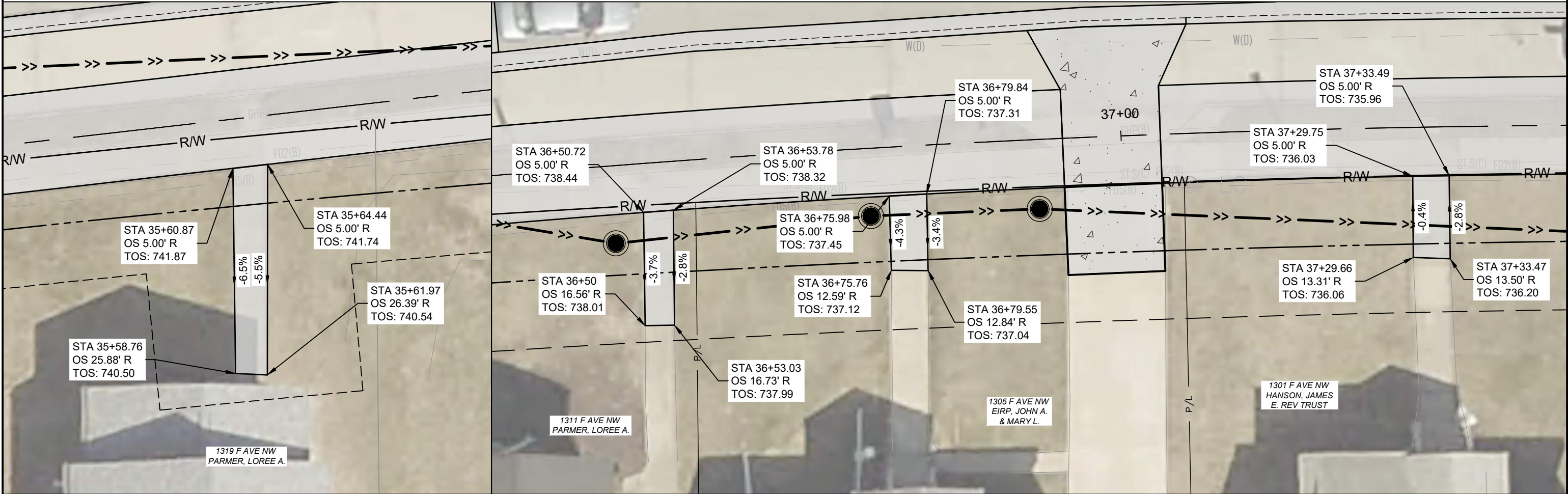
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NOTES:

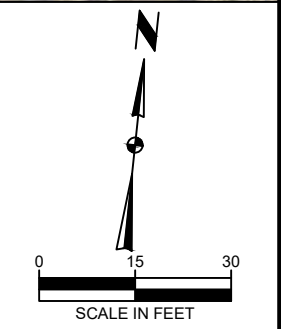
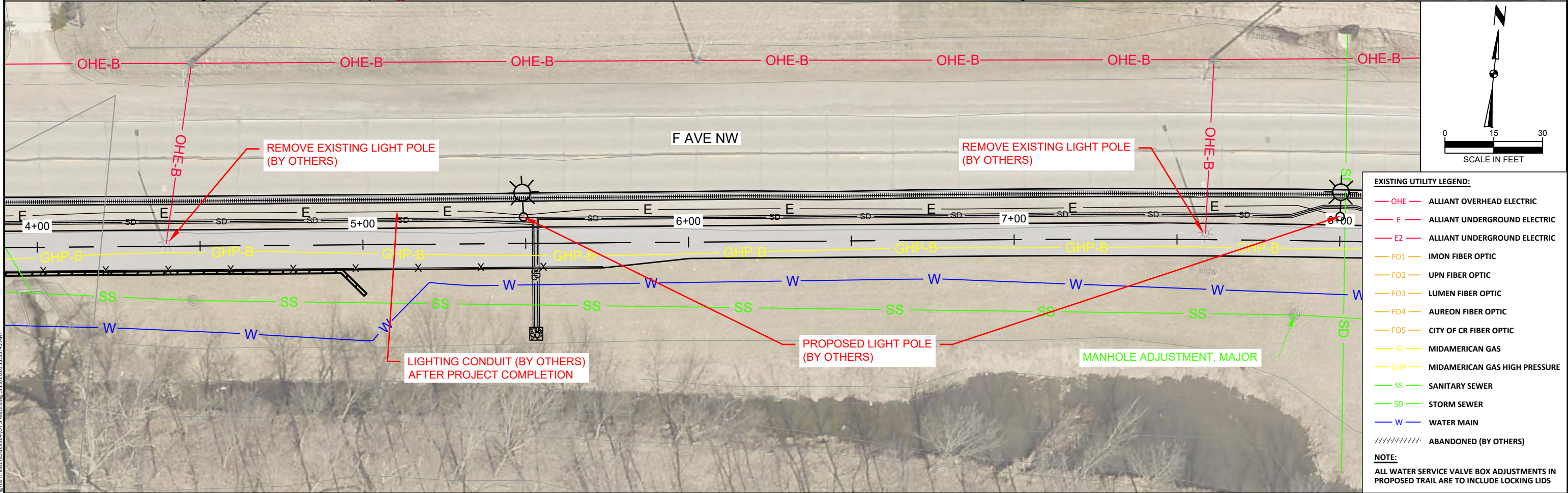
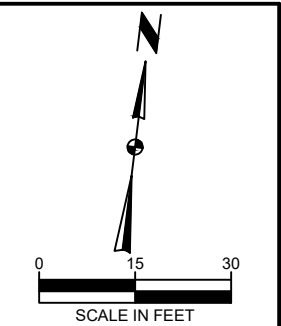
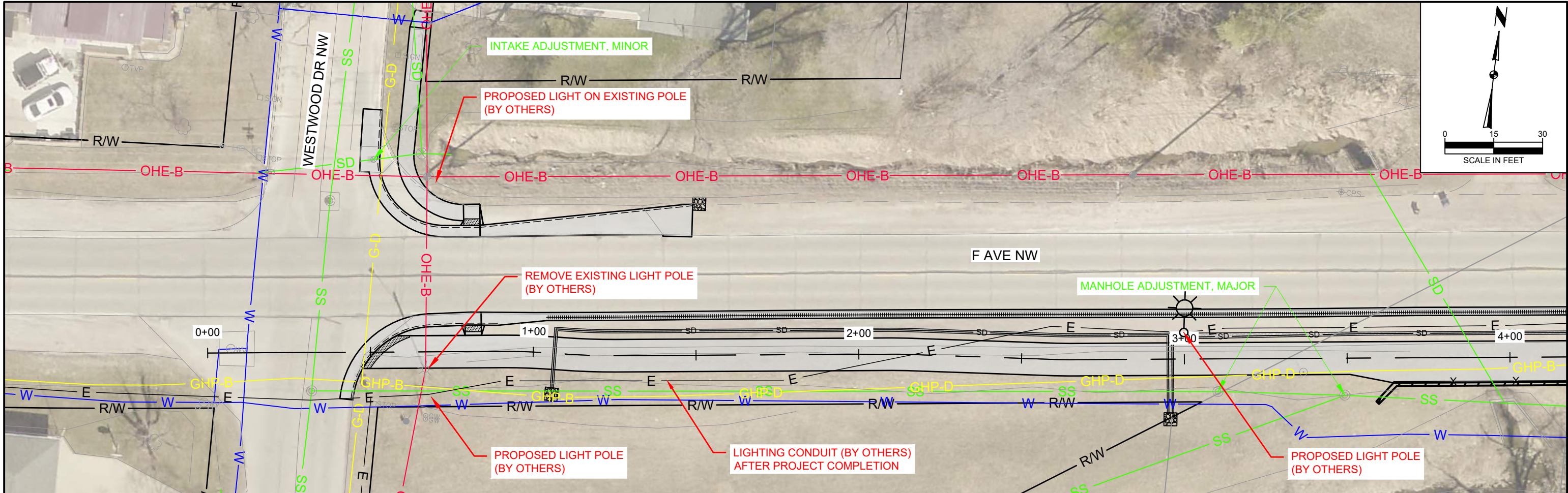
1. CONSTRUCT PORTLAND CEMENT CONCRETE WEDGE BETWEEN THE PROPOSED BACK OF TRAIL AND THE EXISTING SIDEWALK FROM THE LIMITS SHOWN ON THE PLANS. SAW CUT THE EXISTING SIDEWALK AND MATCH THE EXISTING ELEVATIONS.

SIDEWALK DETAILS



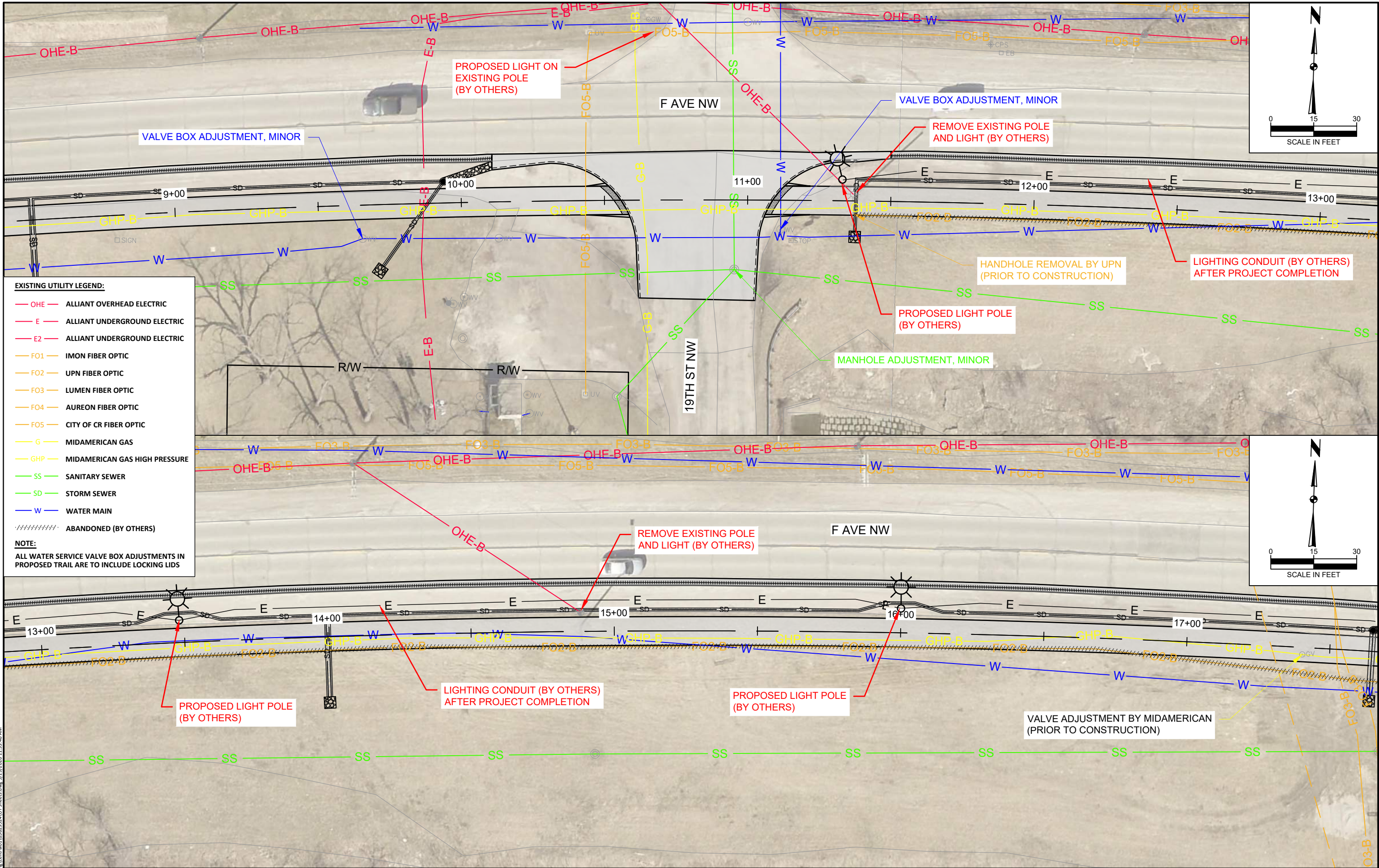
SIDEWALK DETAILS

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- EXISTING UTILITY LEGEND:**
- OHE — ALLIANT OVERHEAD ELECTRIC
 - E — ALLIANT UNDERGROUND ELECTRIC
 - E2 — ALLIANT UNDERGROUND ELECTRIC
 - FO1 — IMON FIBER OPTIC
 - FO2 — UPN FIBER OPTIC
 - FO3 — LUMEN FIBER OPTIC
 - FO4 — AUREON FIBER OPTIC
 - FO5 — CITY OF CR FIBER OPTIC
 - G — MIDAMERICAN GAS
 - GHP — MIDAMERICAN GAS HIGH PRESSURE
 - SS — SANITARY SEWER
 - SD — STORM SEWER
 - W — WATER MAIN
 - ///////// — ABANDONED (BY OTHERS)
- NOTE:**
ALL WATER SERVICE VALVE BOX ADJUSTMENTS IN PROPOSED TRAIL ARE TO INCLUDE LOCKING LIDS

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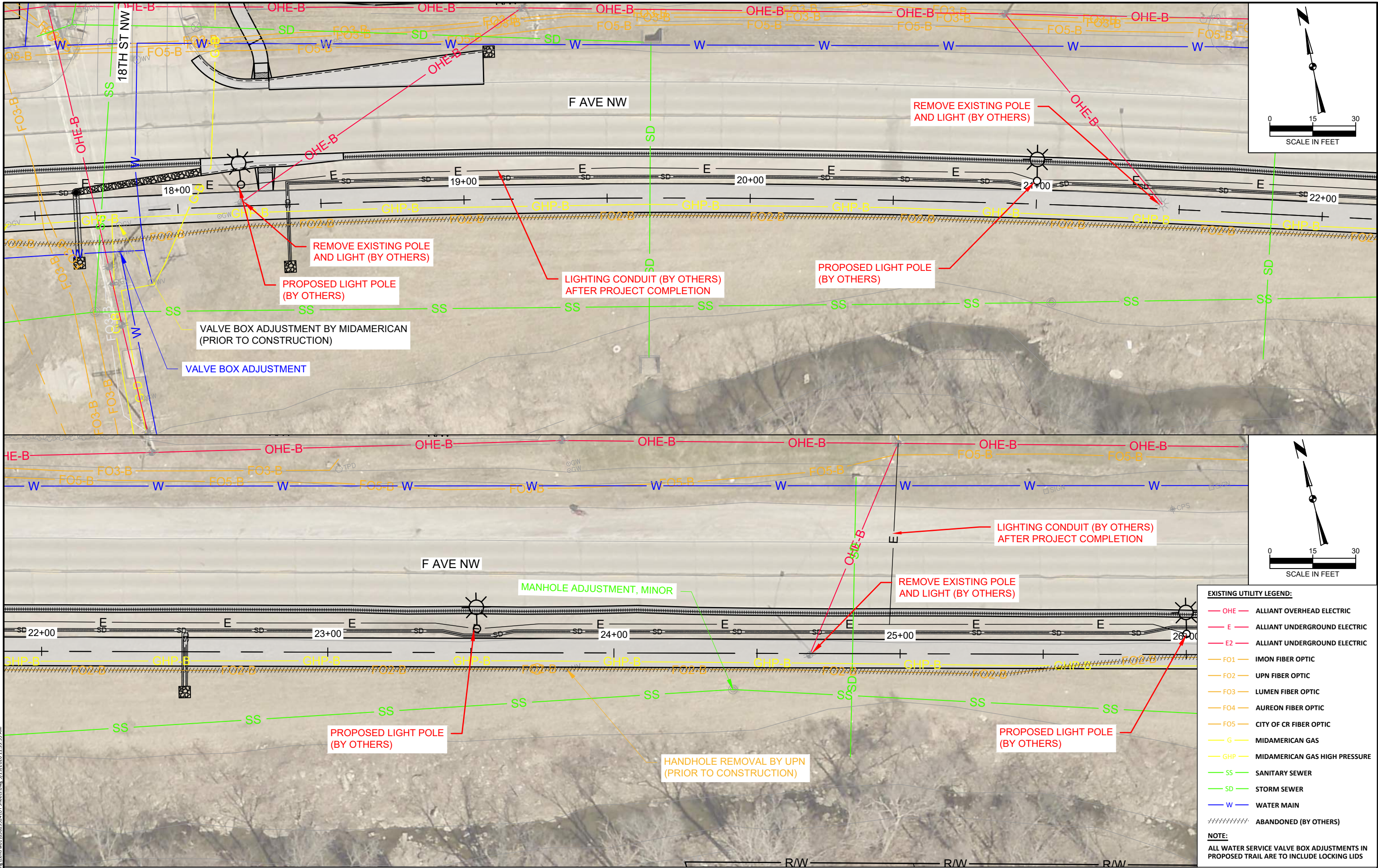


EXISTING UTILITY LEGEND:

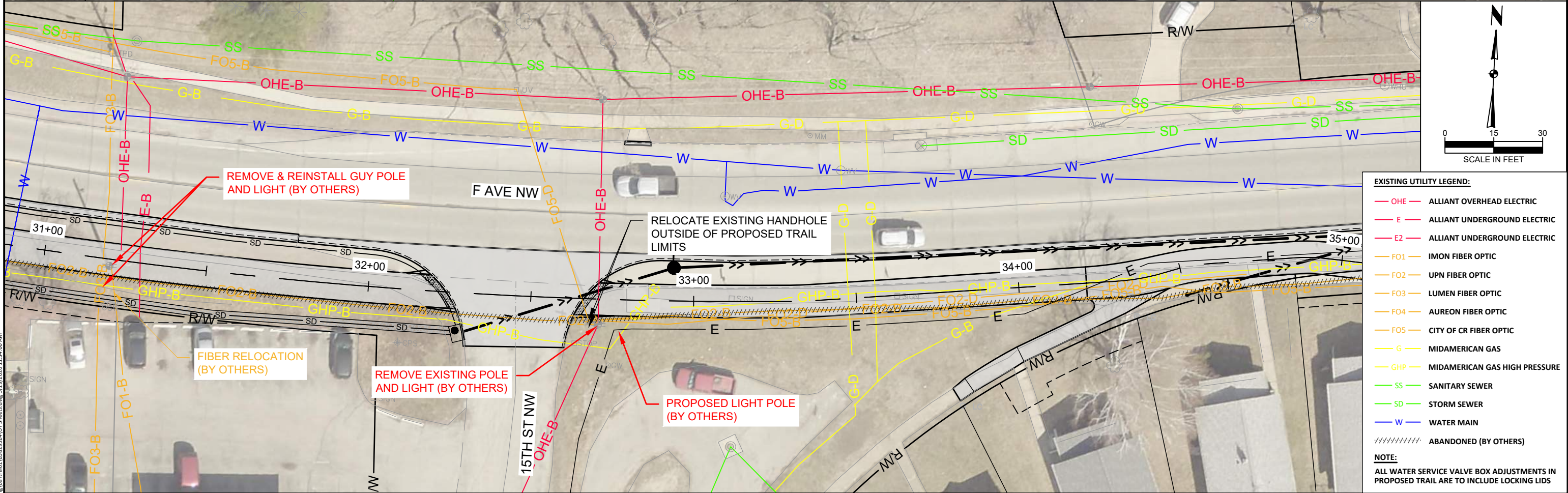
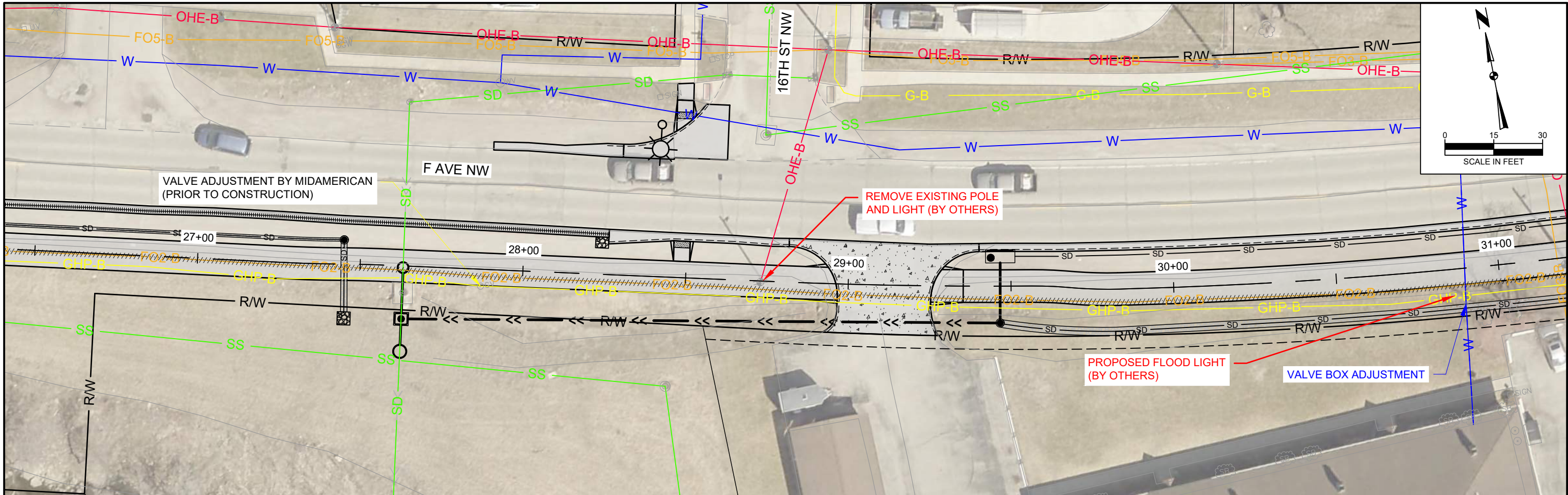
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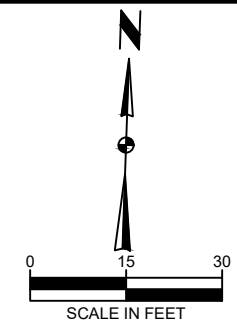
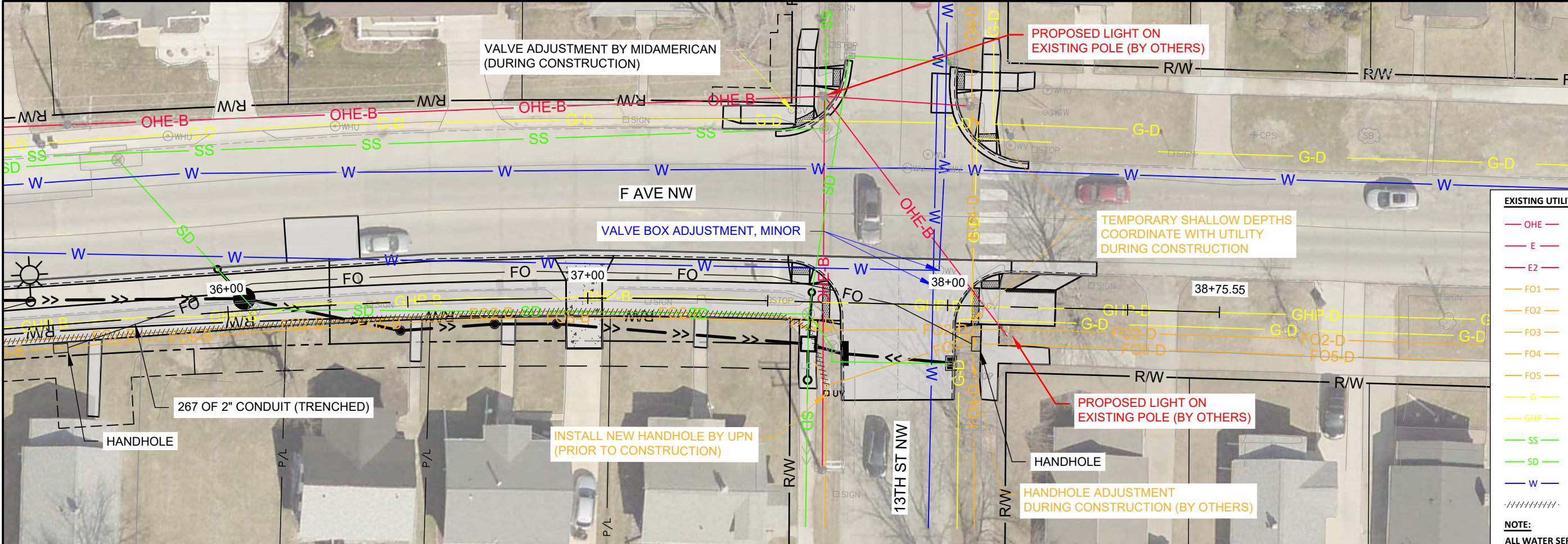
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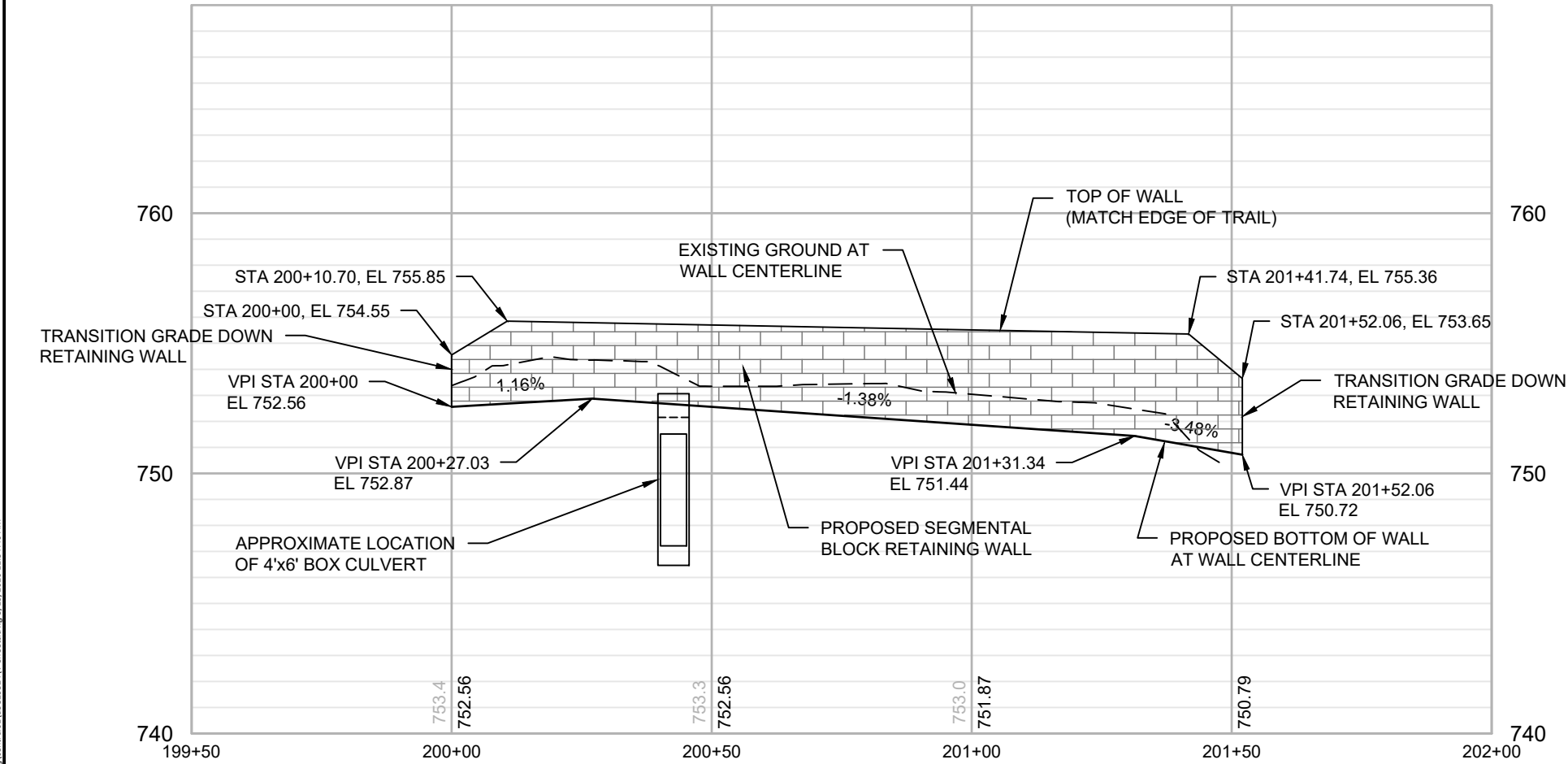
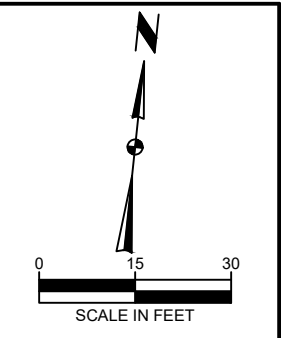
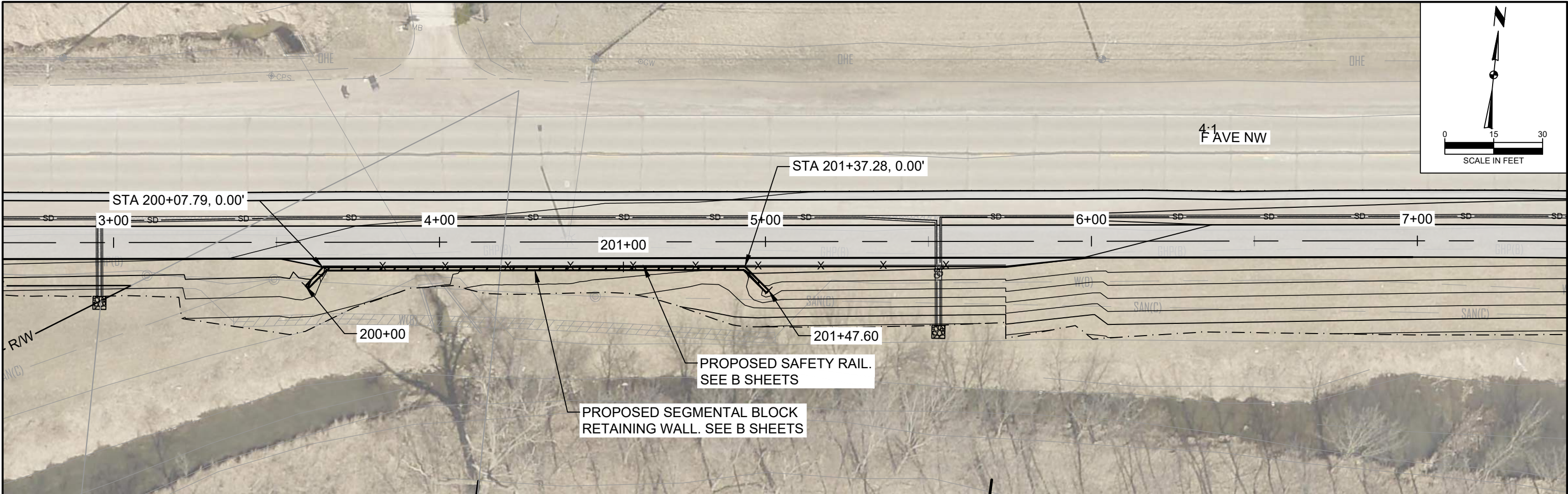


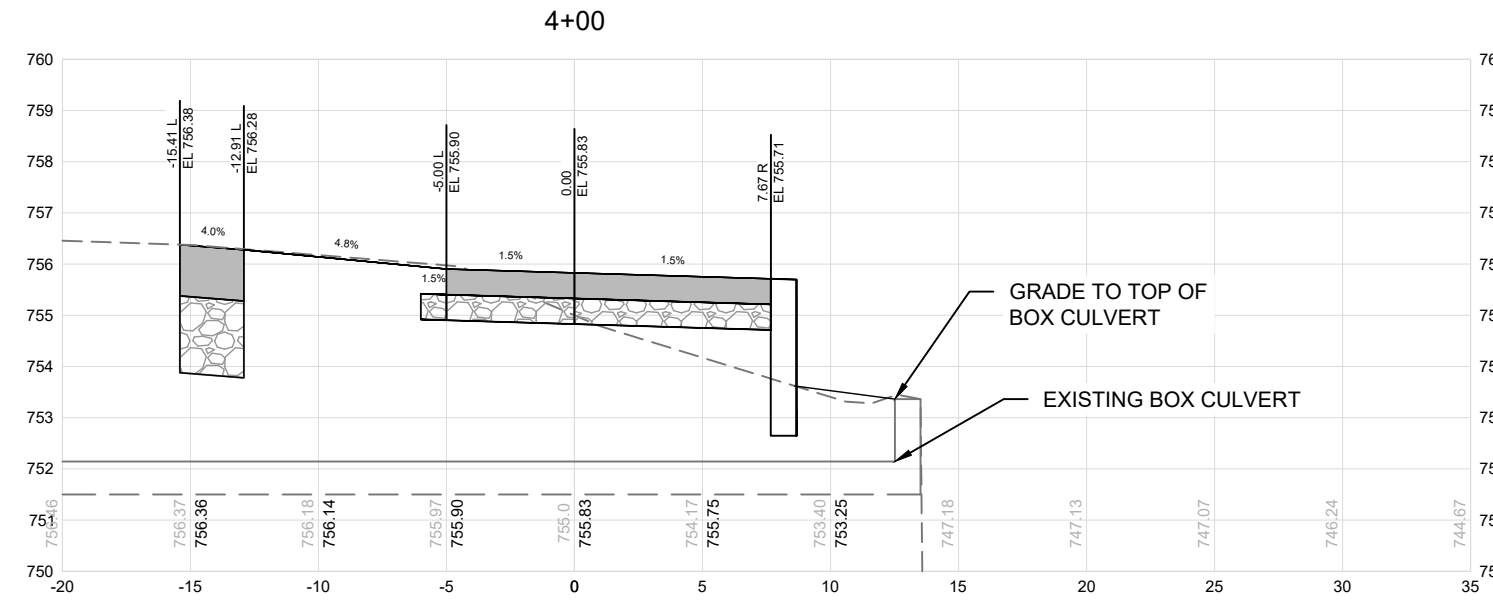
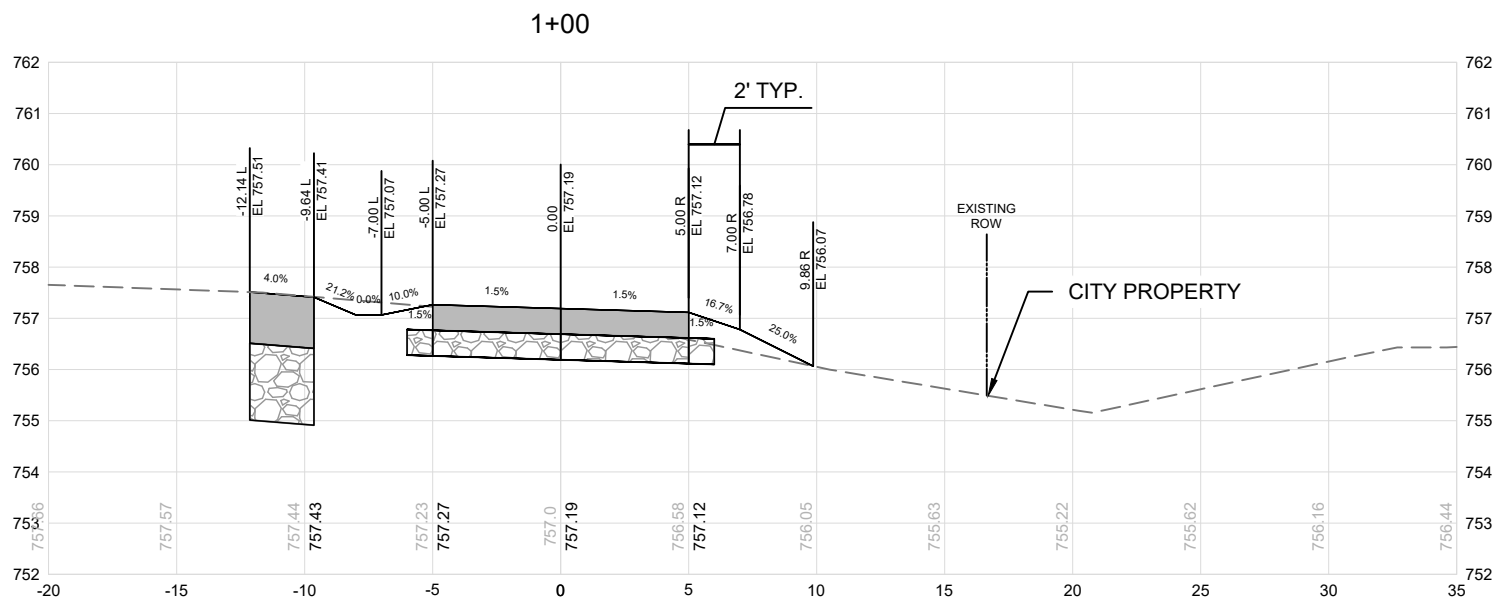
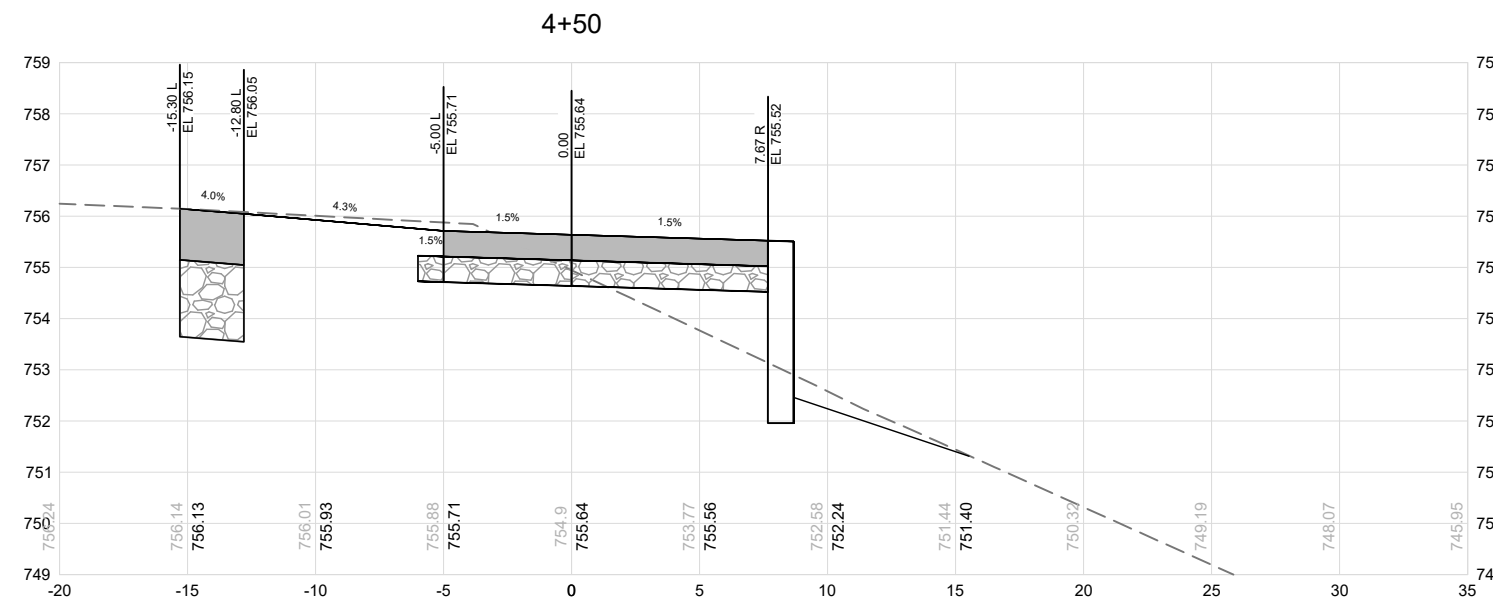
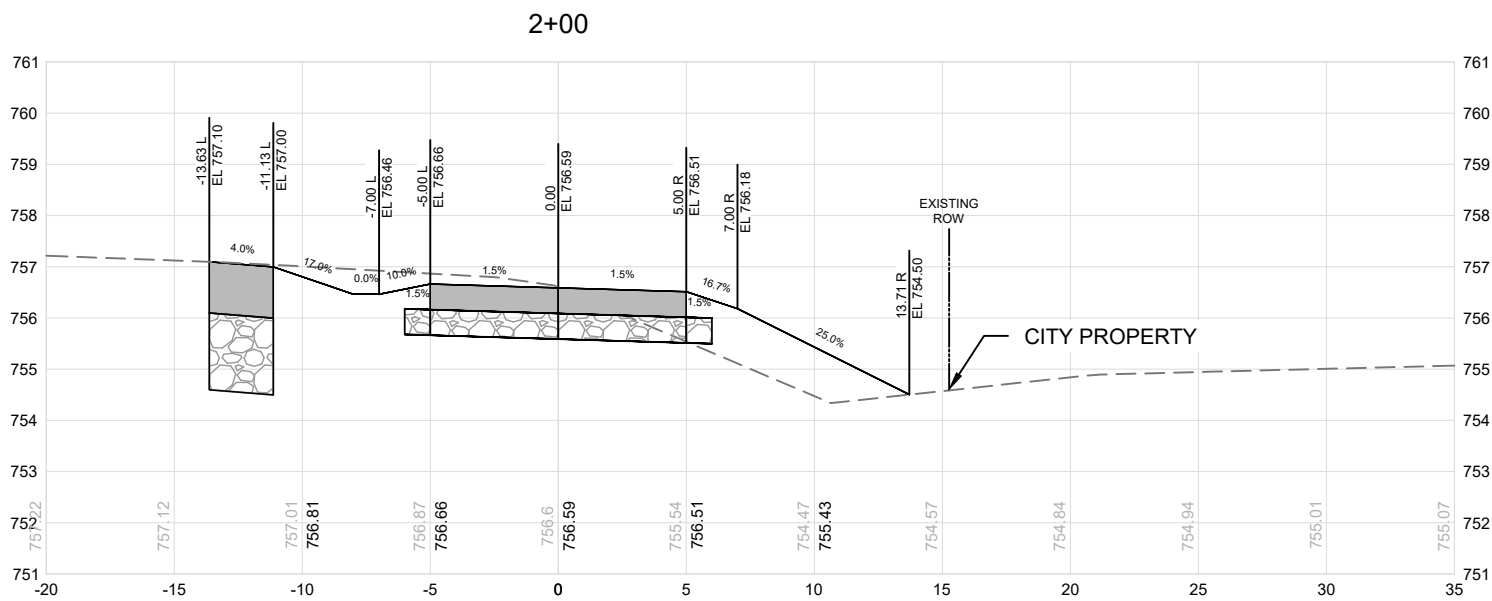
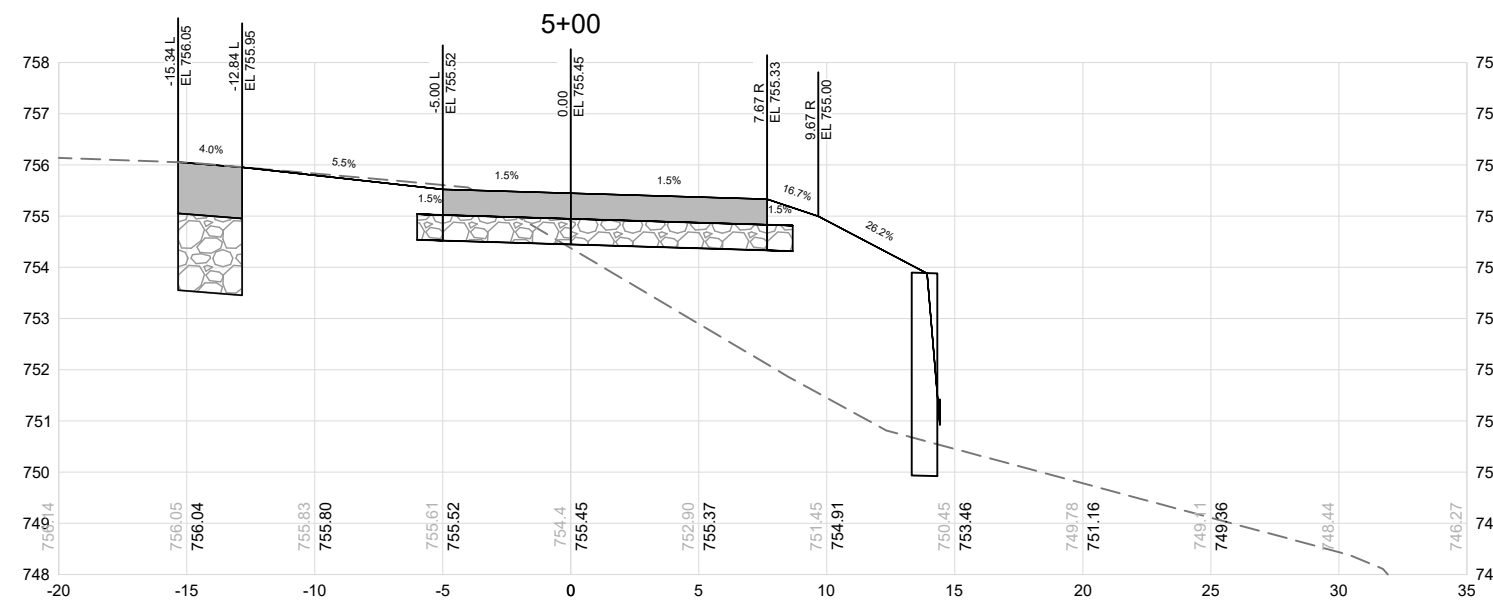
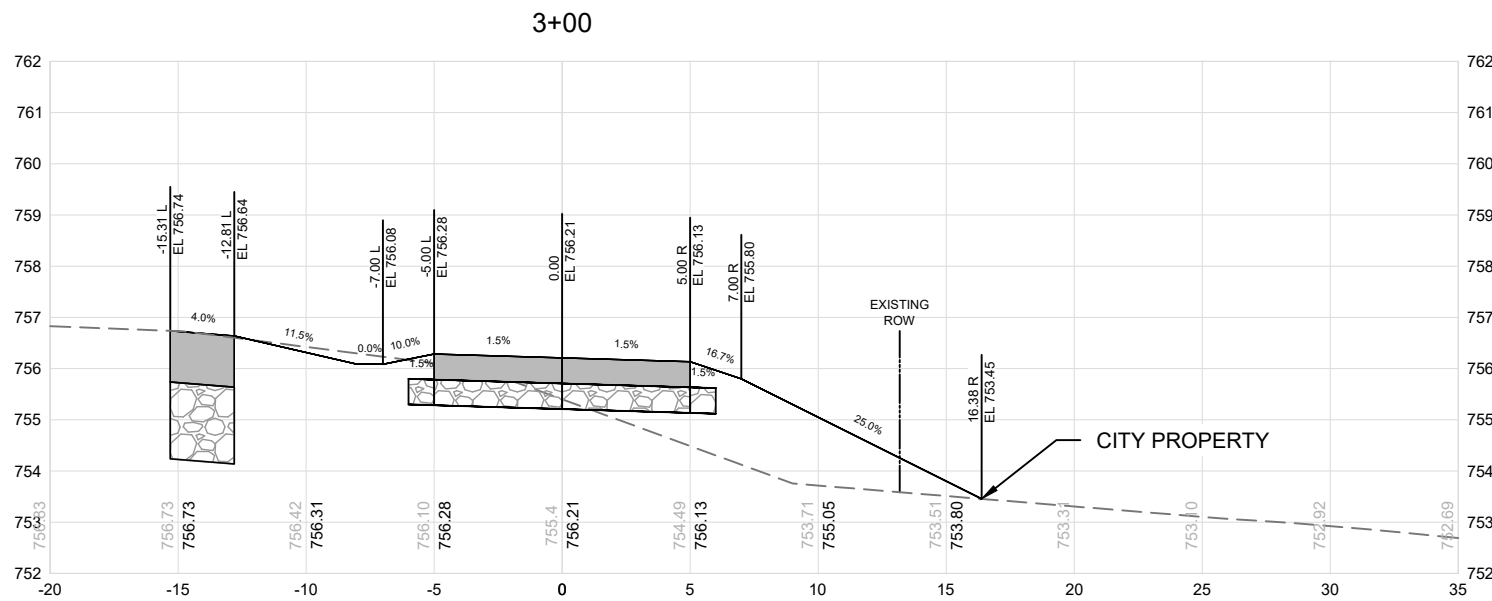
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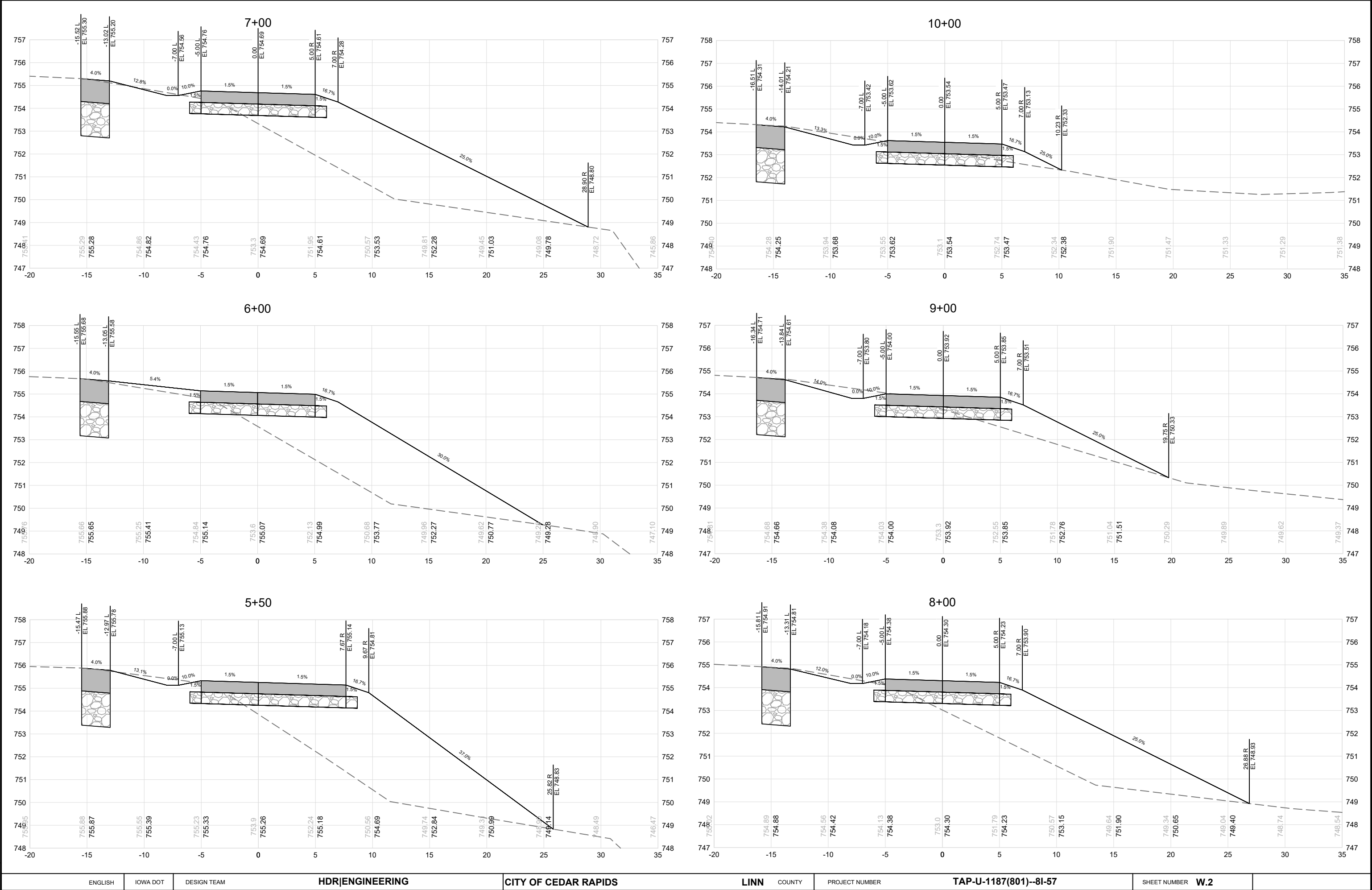
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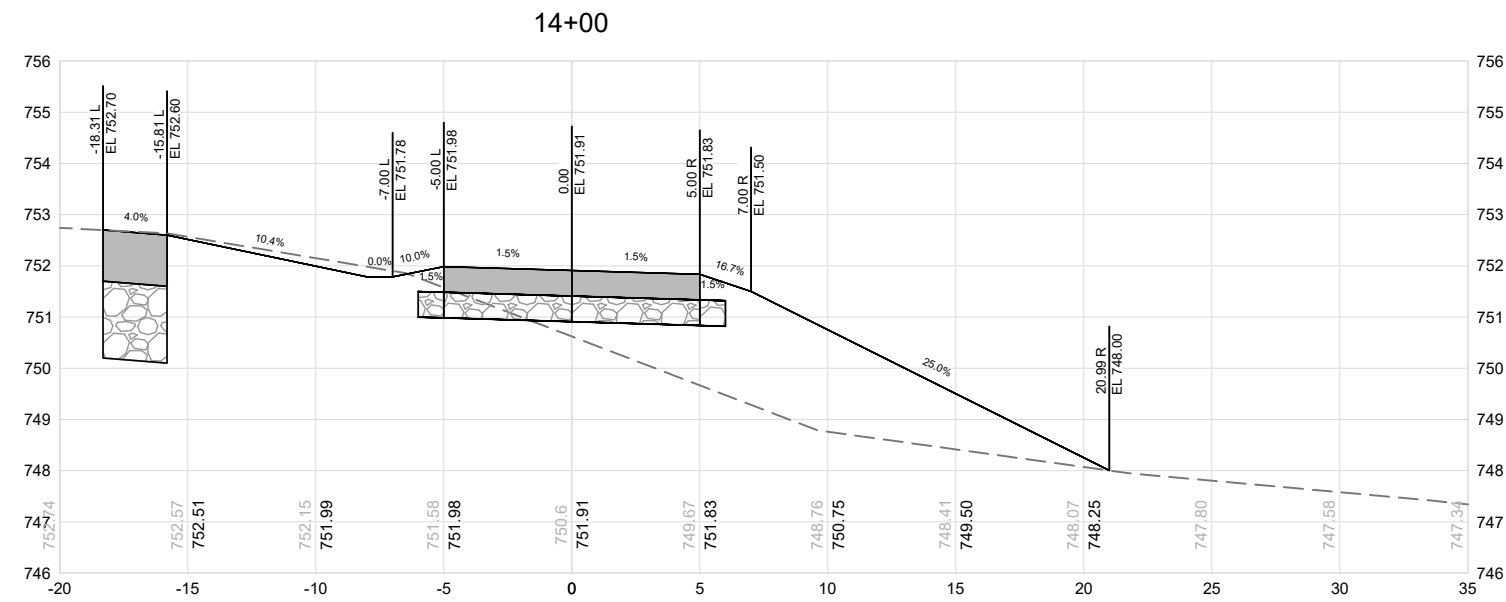
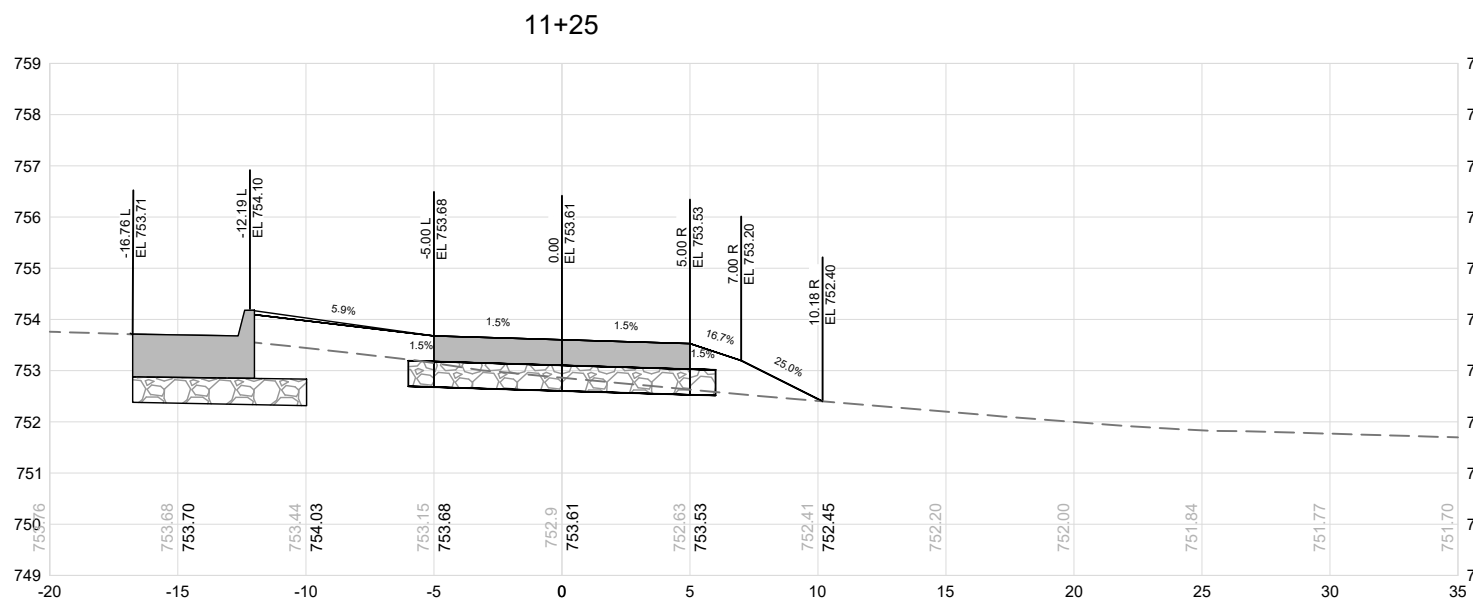
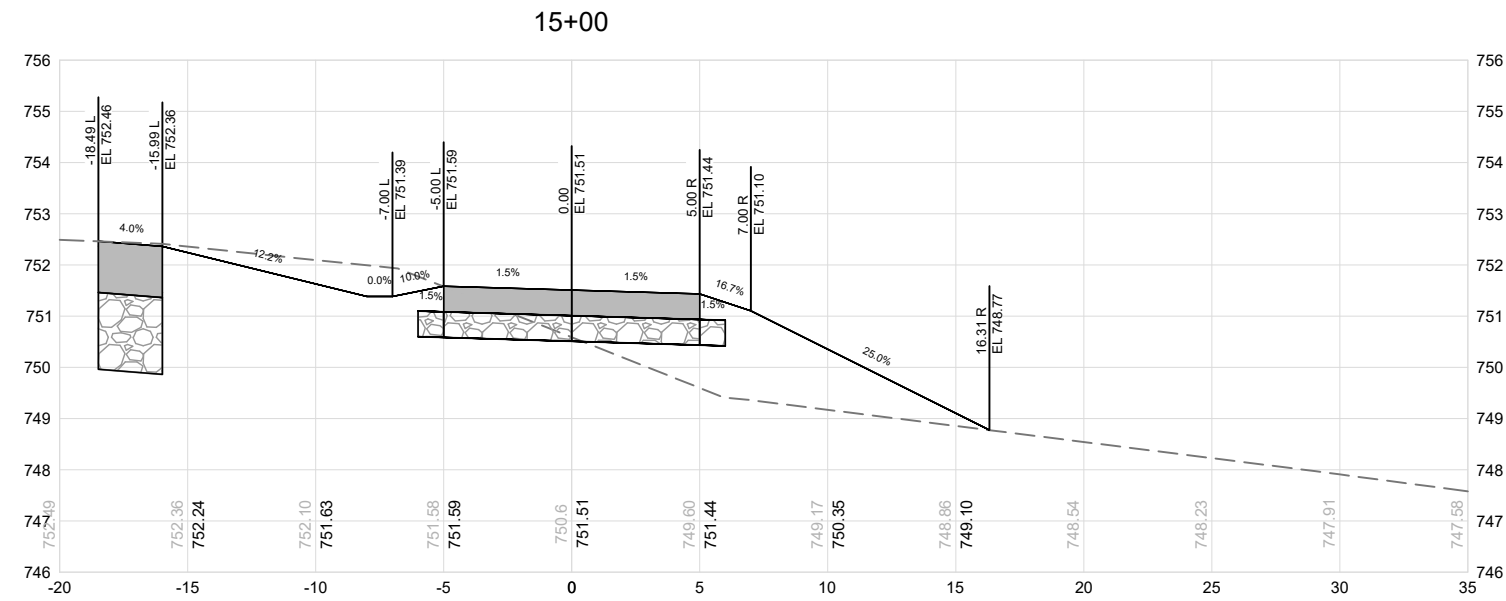
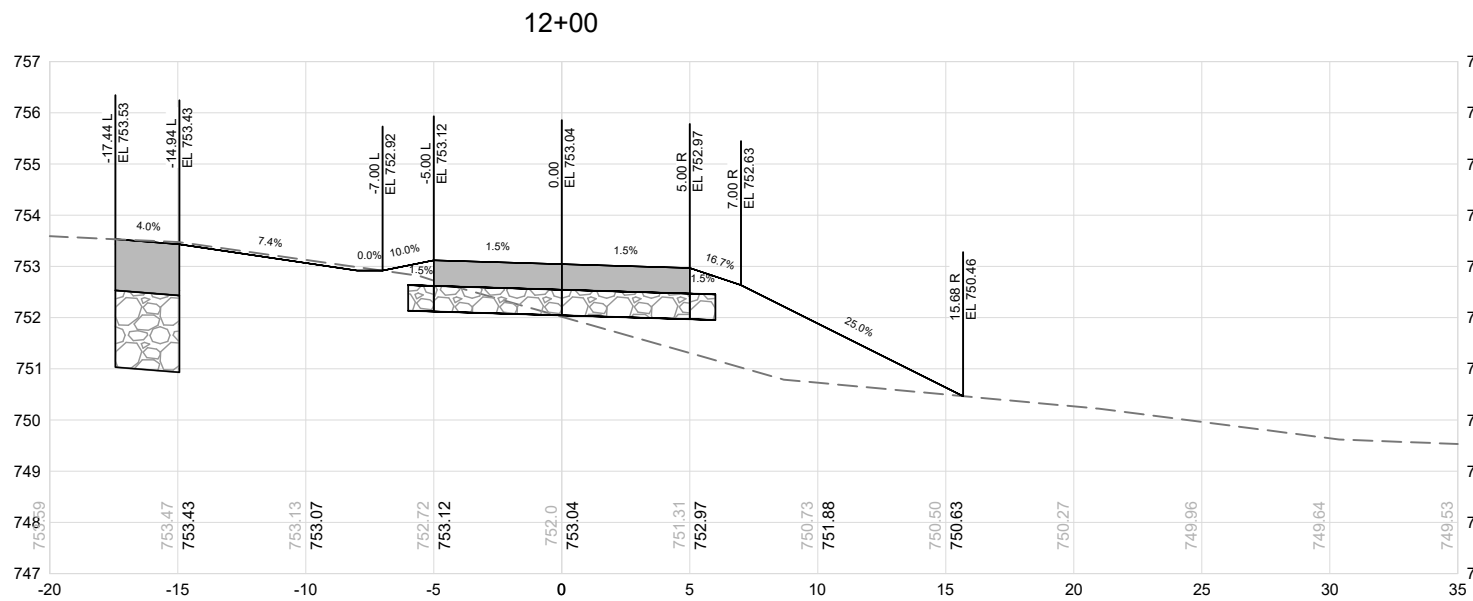
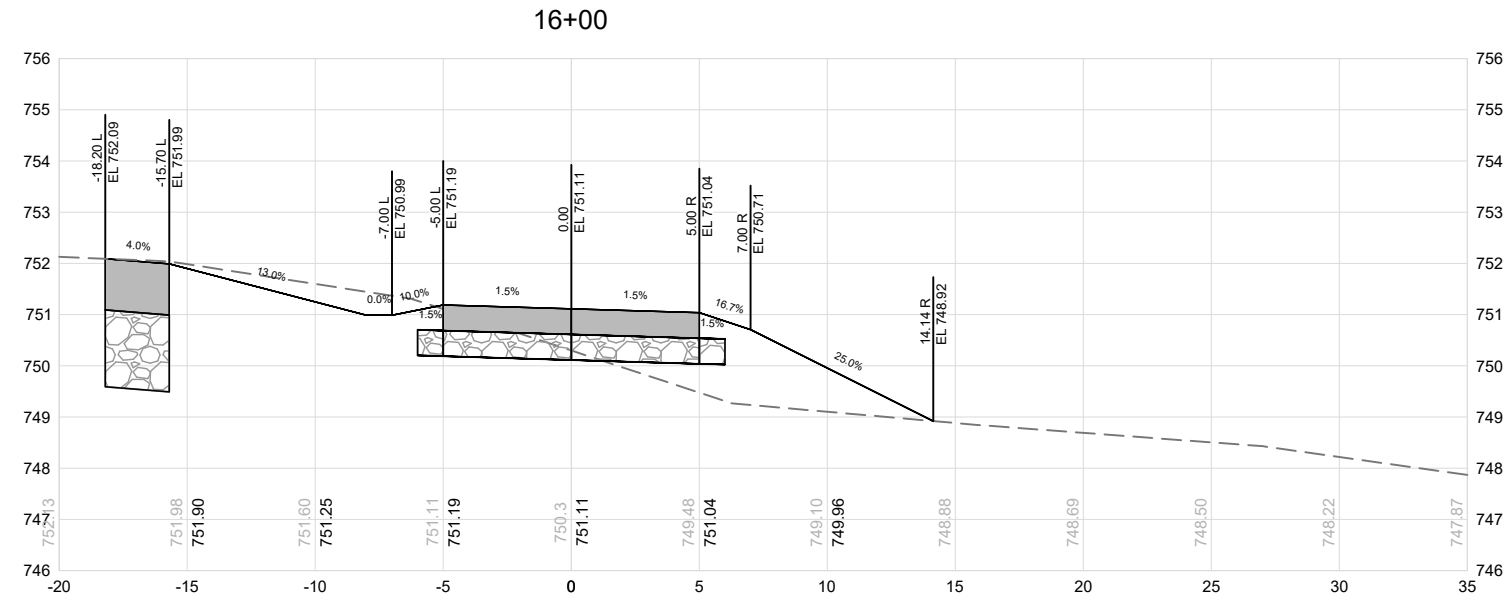
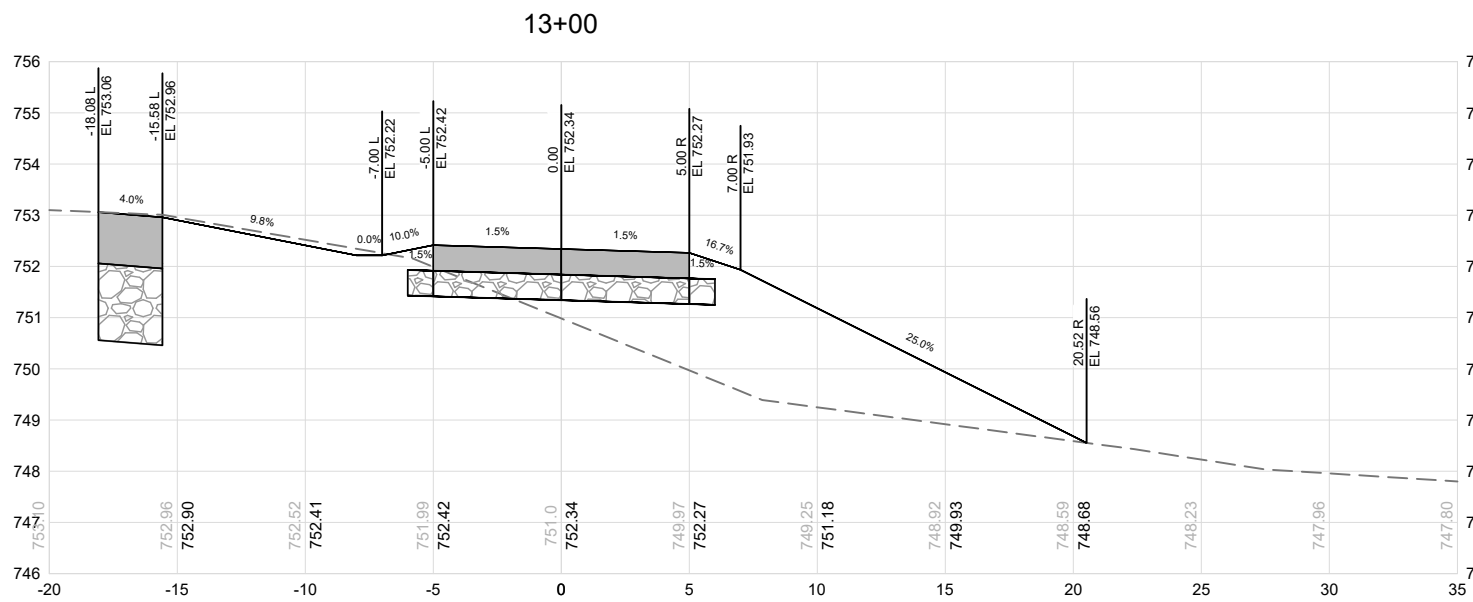
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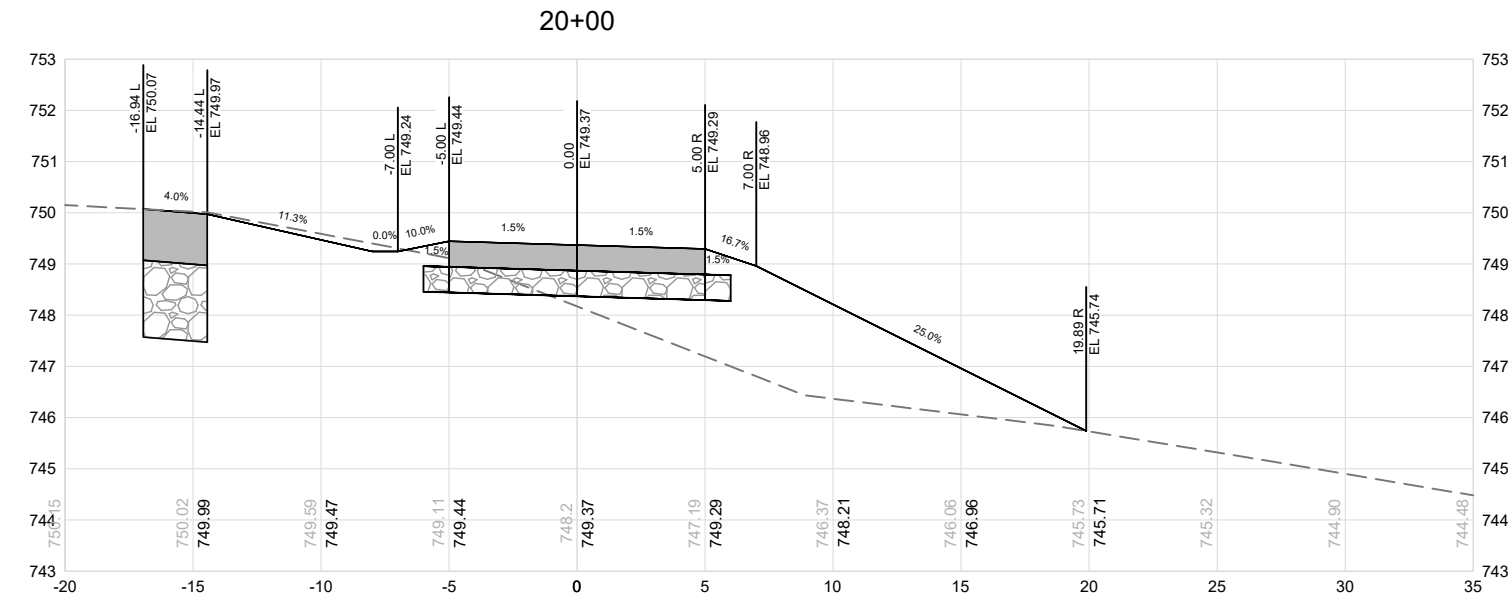
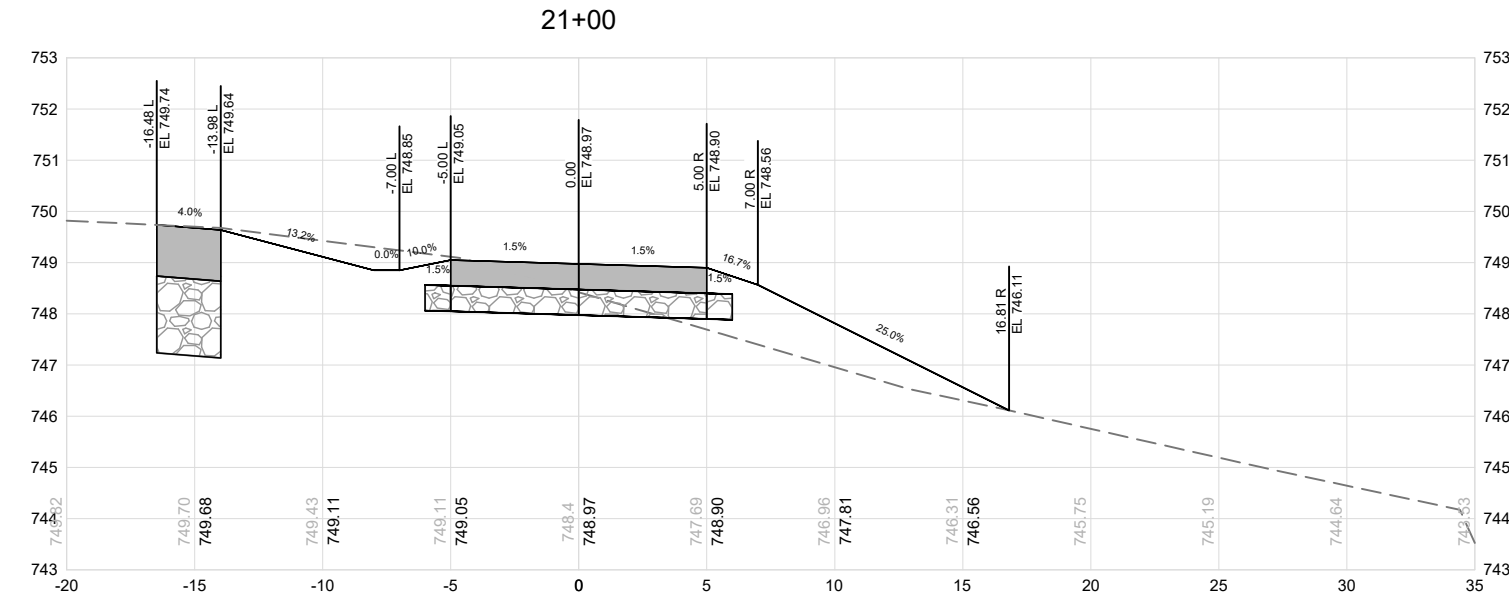
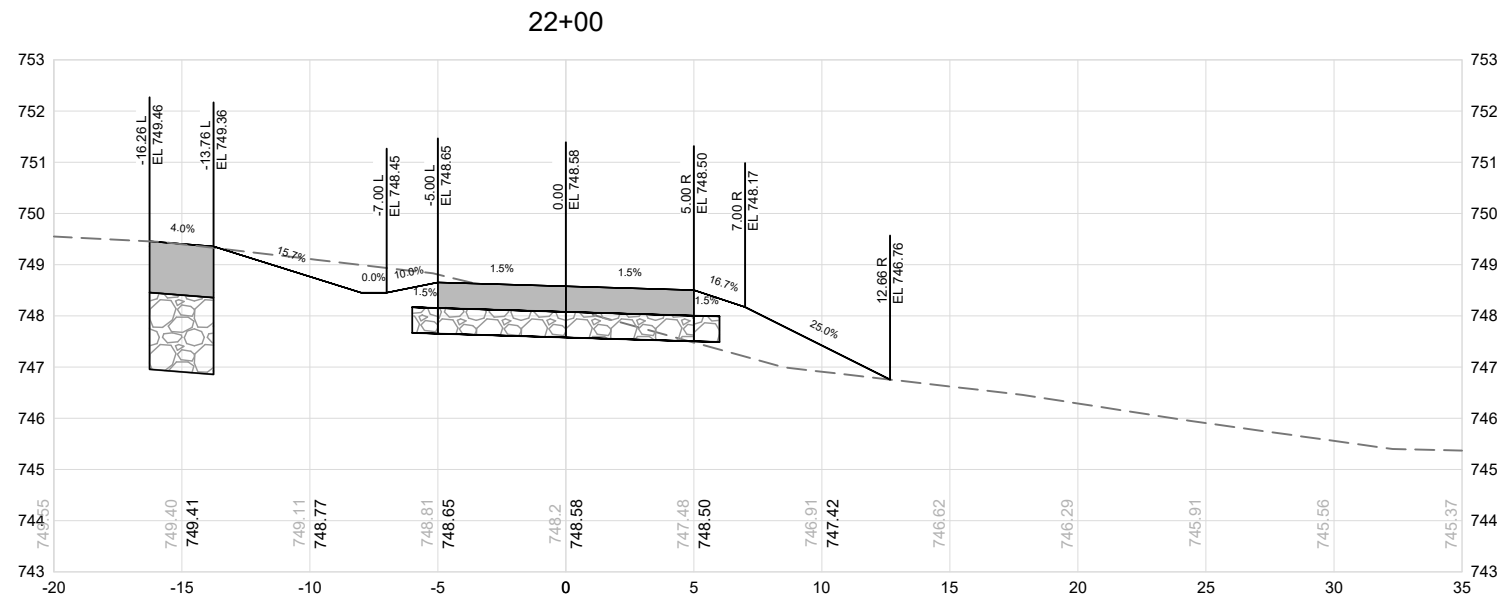
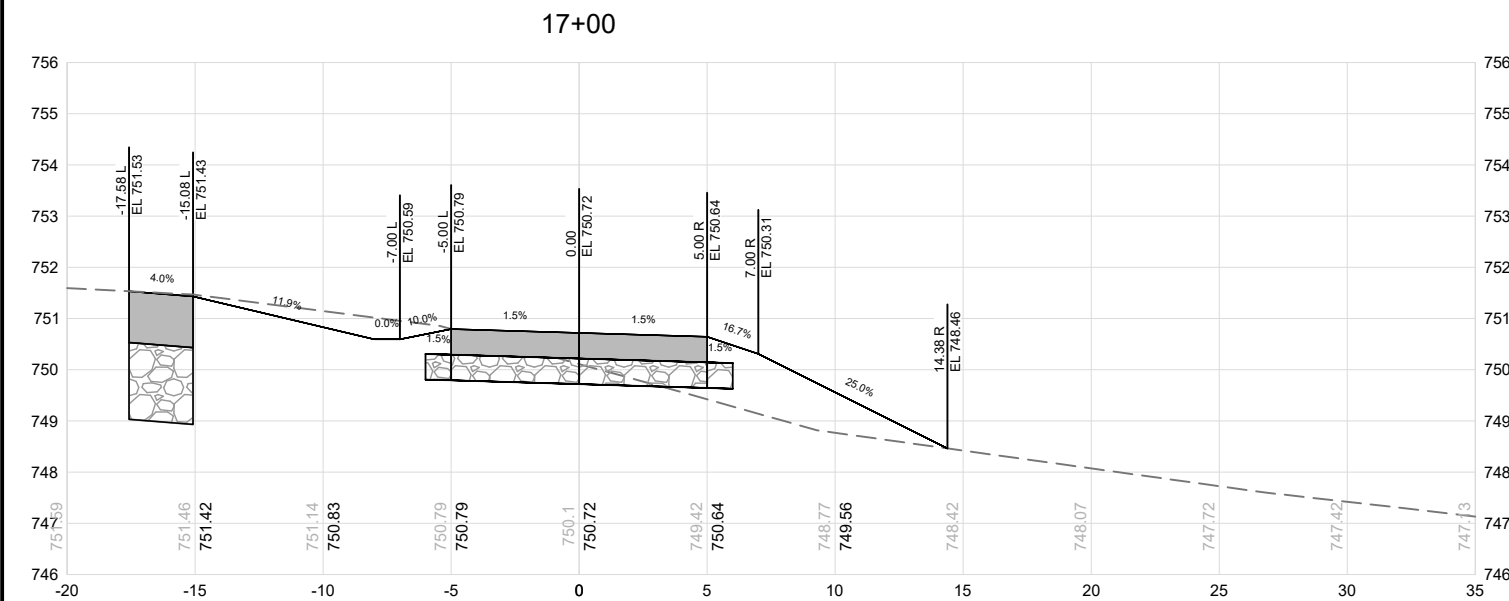
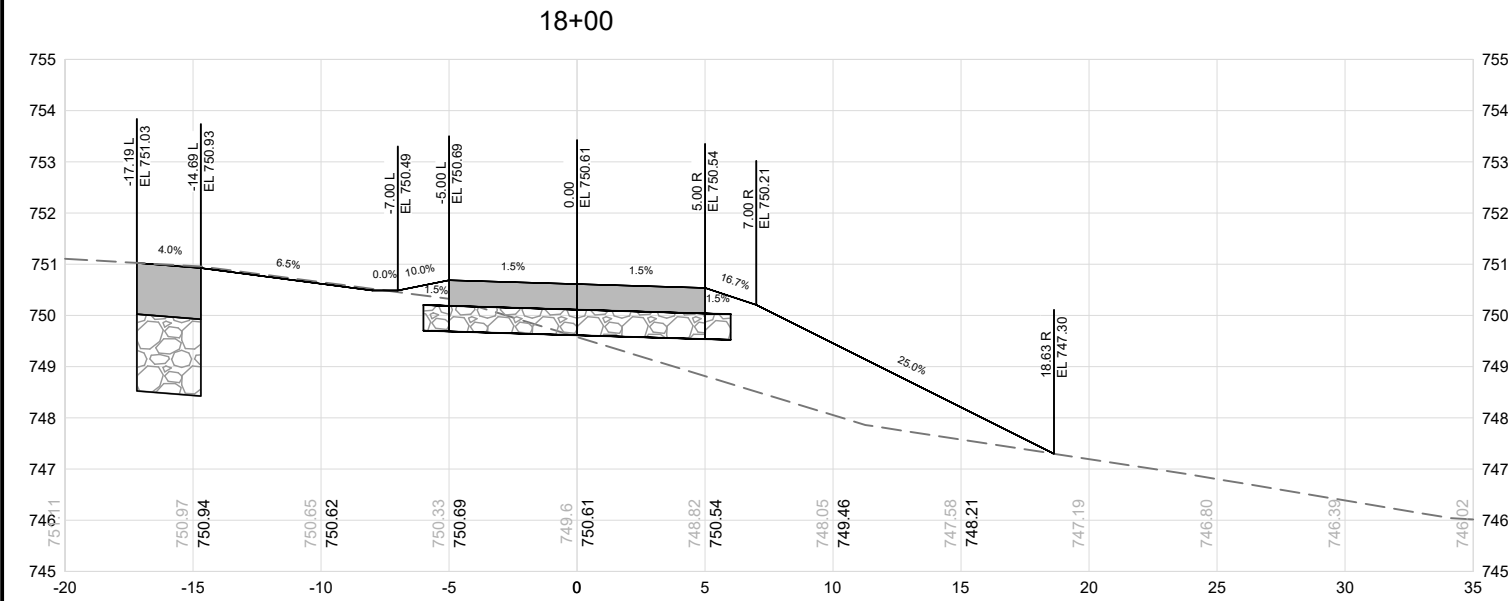
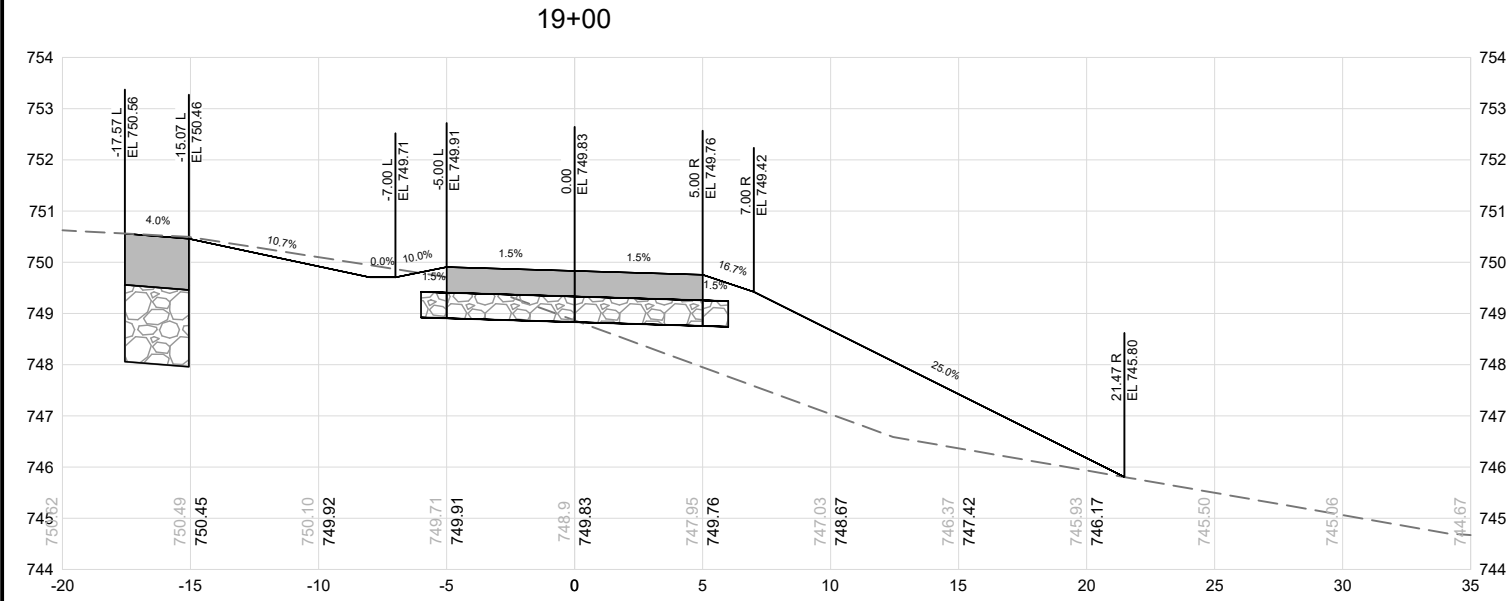


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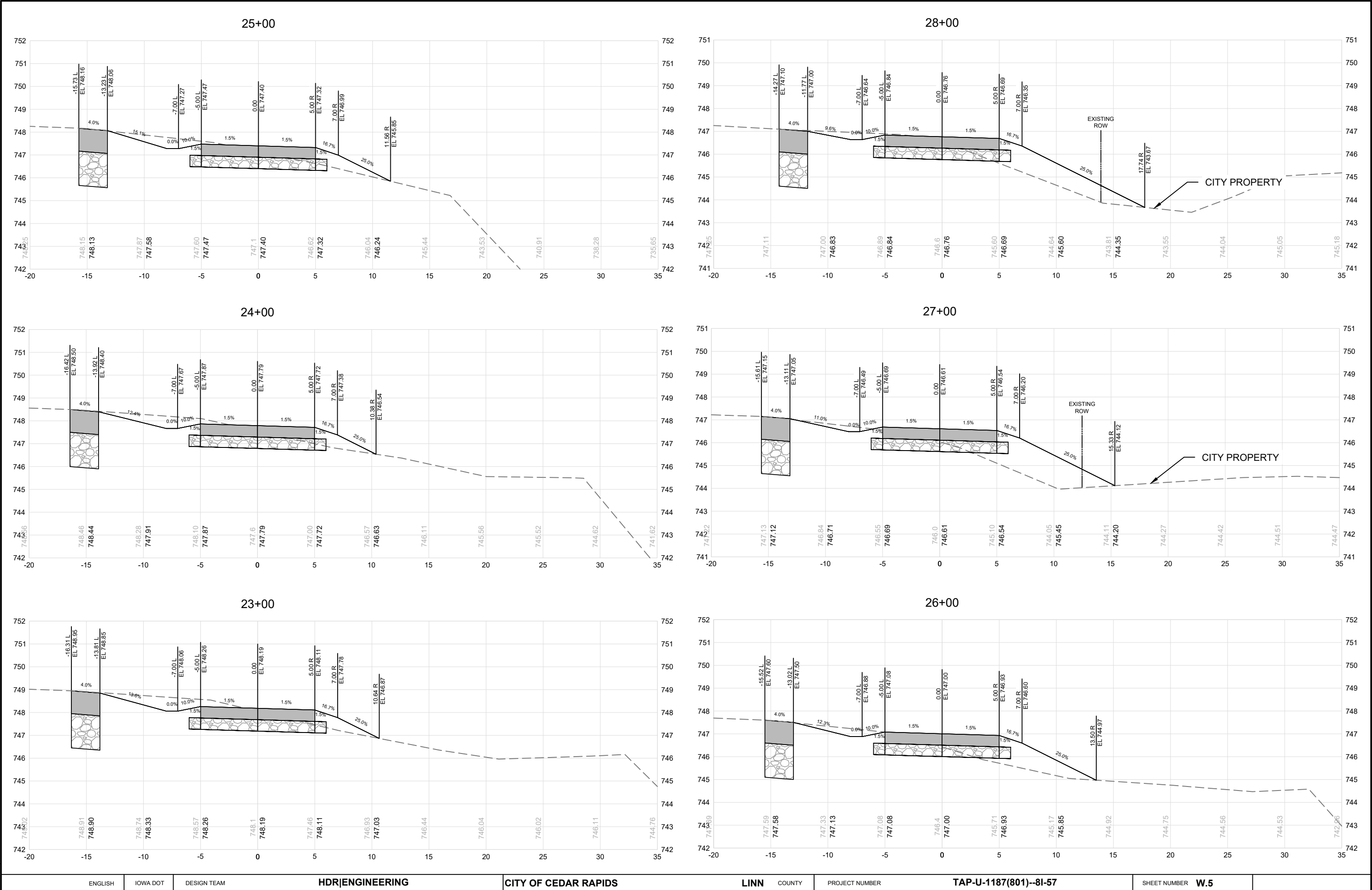




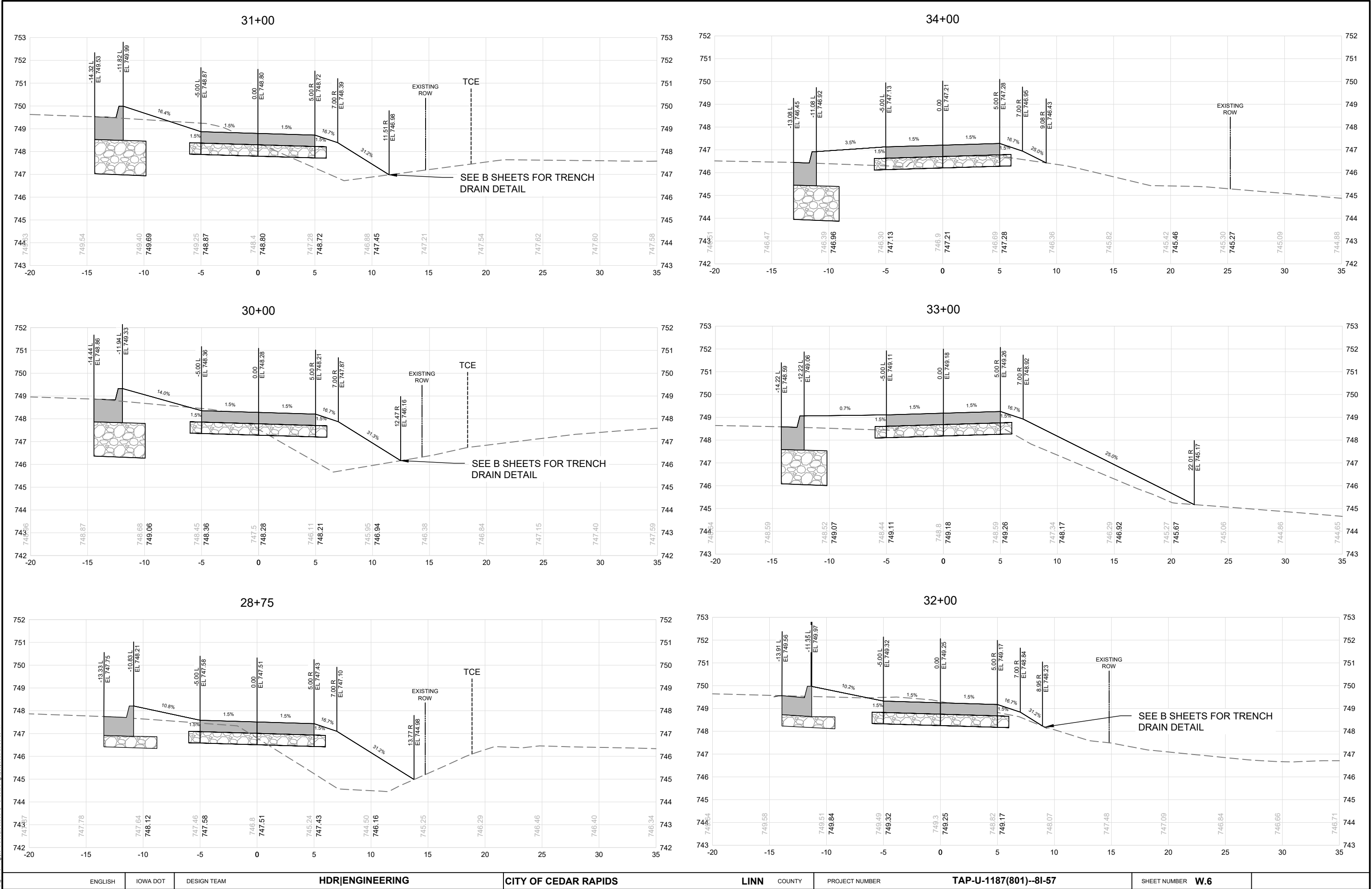
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ENGLISH

IOWA DOT

DESIGN TEAM

HDR|ENGINEERING

CITY OF CEDAR RAPIDS

LINN COUNTY

PROJECT NUMBER

TAP-U-1187(801)-8I-57

SHEET NUMBER W.6

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