

P:\21\249\DRAWINGS\CIVIL\21249D.ZZ 00 C.DWG 3/19/2024 2:12:45 PM LYNN NEAL

CITY OF DYERSVILLE - DELAWARE COUNTY

20 WEST INDUSTRIAL CENTER
LETTING DATE
MAY 1, 2024
RM-2160(618)--9D-31

IOWA DNR STORM WATER PERMIT
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 PART OF THESE CONTRACT DOCUMENTS. REFER TO SECTION 2602 OF
THE IDOT STANDARD SPECIFICATIONS FOR ADDITIONAL INFORMATION.

NPDES PERMIT DISCHARGE AUTHORIZATION NUMBER 41617-41242
ISSUED FOR 20 WEST INDUSTRIAL CENTER - SEVENTH ADDITION CONSTRUCTION
WEST END OF INDUSTRIAL PARKWAY SW IN THE CITY OF DYERSVILLE, DELAWARE COUNTY
LOCATED AT NE 1/4 SEC 2 T88N R3W.
COVERAGE PROVIDED THROUGH 8/1/2025

TRAFFIC CONTROL PLAN
THIS ROAD SHALL BE CLOSED TO VEHICULAR AND PEDESTRIAN TRAFFIC DURING
CONSTRUCTION. ALL TRAFFIC CONTROL DEVICES, PROCEDURES, AND LAYOUTS WITHIN THE
LIMITS OF THIS PROJECT SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC
CONTROL DEVICES FOR STREETS AND HIGHWAYS, (MUTCD) AS ADOPTED BY THE
DEPARTMENT PER 761 OF THE IOWA ADMINISTRATIVE CODE (IAC), CHAPTER 130." THE
CONTRACTOR SHALL FURNISH TRAFFIC CONTROL INCLUDING BARRICADES AND SIGNS IN
ACCORDANCE WITH TC-252 AND THE MUTCD. CONTRACTOR SHALL FURNISH, ERECT AND
MAINTAIN ALL NECESSARY TRAFFIC CONTROL DEVICES ON A 24 HOUR PER DAY, 7 DAYS A
WEEK BASIS DURING THE CONSTRUCTION PERIOD. CONTRACTOR TO PROVIDE 24 HOUR
CALL NUMBER FOR REPAIR OF DEFICIENCIES. SEE SHEET D.2 AND TRAFFIC CONTROL
ESTIMATE REFERENCE NOTE FOR TRAFFIC CONTROL AT WEST END OF EXISTING INDUSTRIAL
PARKWAY PAVEMENT.

CITY OF DYERSVILLE - DELAWARE COUNTY

RM-2160(618)--9D-31

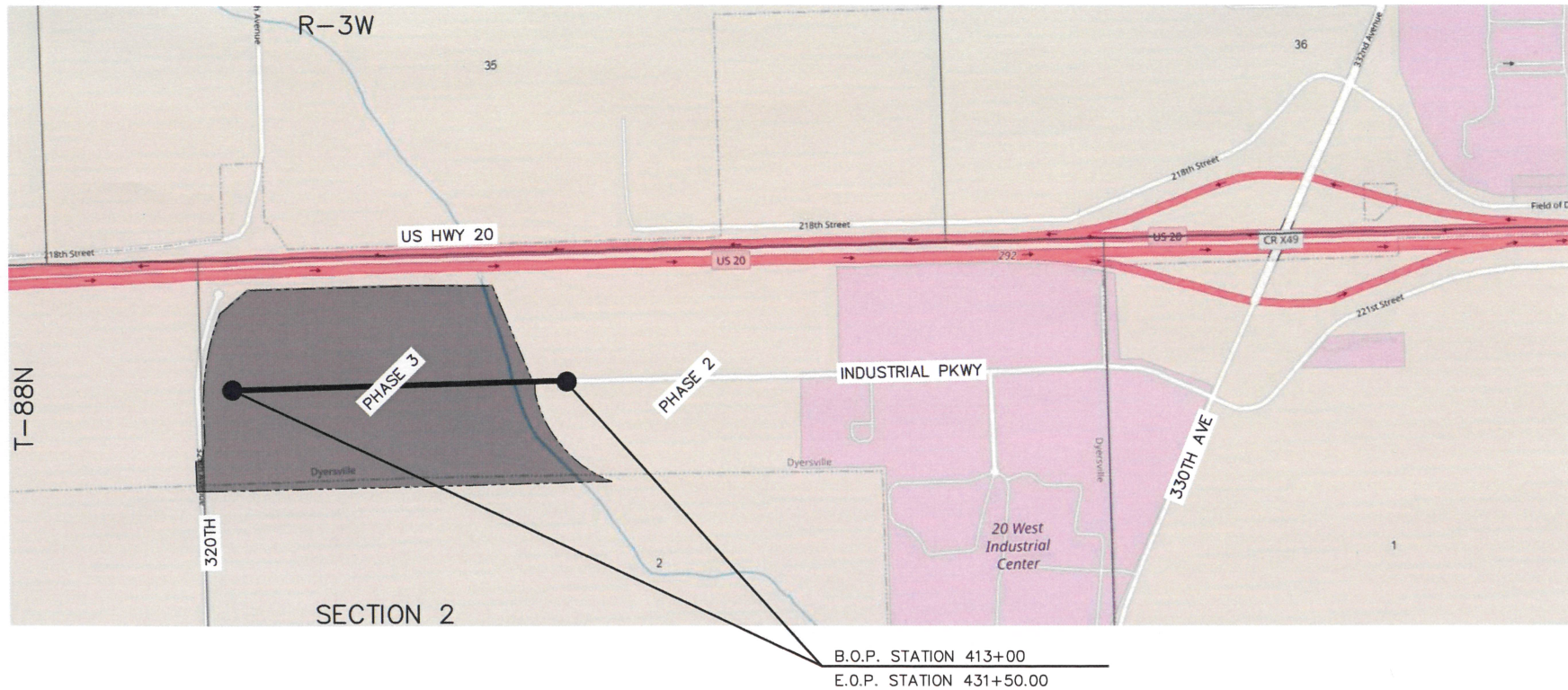
20 WEST INDUSTRIAL CENTER

PHASE 3

CONTRACT D-STORM SEWER, PAVING AND LIGHTING

THE 2023 EDITION OF THE IOWA DEPARTMENT OF TRANSPORTATION STANDARD
SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, GENERAL
SUPPLEMENTAL SPECIFICATIONS AND APPLICABLE SUPPLEMENTAL
SPECIFICATIONS, DEVELOPMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS
SHALL APPLY UNLESS OTHERWISE SUPERCEDED BY THE CONTRACT DOCUMENTS
AND TECHNICAL SPECIFICATIONS.

SEE SHEET C.3 FOR STANDARD ROAD PLAN TABULATION

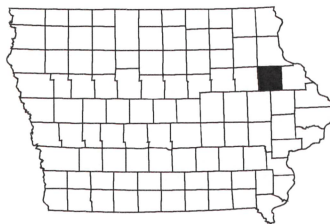


B.O.P. STATION 413+00
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LOCATION MAP



WORKING DRAWINGS/SUBMITTALS/SHOP
DRAWINGS WILL BE CHECKED BY ORIGIN DESIGN
137 MAIN STREET, DUBUQUE, IA 52001
563-556-2464 (PHONE); 563-556-7811 (FAX)
JON LUTZ
jon.lutz@origindesign.com

IOWA
ONE CALL
1 (800) 292 - 8989

WATER & SEWER: CITY OF DYERSVILLE
wandsnider@cityofdyserville.com
(563) 875-7724

GAS: BLACK HILLS ENERGY
BRIAN.MCWILLIAM@BLACKHILLSCORP.COM
(563) 927-1017

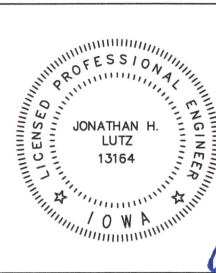
ELECTRICAL POWER: ALLIANT ENERGY
CHAD MEYER
(563) 587-4510

COMMUNICATION: WINDSTREAM COMMUNICATIONS
(800) 289-1901

COMMUNICATION: CENTURY LINK
(918) 547-0147

COMMUNICATION: IOWA COMMUNICATIONS NETWORK
(800) 572-3940

ONE CALL
IOWA ONE CALL
1 (800) 292-8989



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

FOR ORIGIN DESIGN CO. *[Signature]* 3/19/2024

JONATHAN H. LUTZ DATE
PE 13164 12/31/2024
LICENSE # RENEWAL DATE

PAGES OR SHEETS COVERED BY THIS CERTIFICATION:
ALL SHEETS SHOWN IN INDEX

TOTAL SHEETS

31

PROJECT NUMBER

RM-2160(618)--9D-31

INDEX OF SHEETS

105-3

10-18-05

NO.	DESCRIPTION
*A.1 - A.3	TITLE SHEET, LEGENDS AND ABBREVIATIONS, OVERALL PLAN
B.1 - B.3	TYPICAL SECTIONS AND DETAILS
C.1 - C.6	QUANTITIES, REFERENCE NOTES, TABULATIONS & POLLUTION PREVENTION PLAN
D.1 - D.2	PLAN & PROFILES
M.1 - M.3	STORM SEWER
P.1 - P.3	ELECTRICAL AND LIGHTING
*RR.1 - RR.2	EROSION CONTROL DETAILS & PLAN
W.1 - W.9	CROSS SECTIONS
	*DENOTES COLOR SHEETS

MILEAGE SUMMARY

105-1

09-27-94

DIV.	LOCATION	LIN. FT.	MILES
1	INDUSTRIAL PARKWAY STA 413+00 TO 431+50.00	1850	0.35
	TOTAL	1850	0.35

PROJECT NUMBER

RM-2160(618)--9D-31

20 WEST INDUSTRIAL CENTER - PHASE 3 - CONTRACT D

origin
design

800 556-4491

CITY OF DYERSVILLE - DELAWARE COUNTY

COVER SHEET

03-19-24

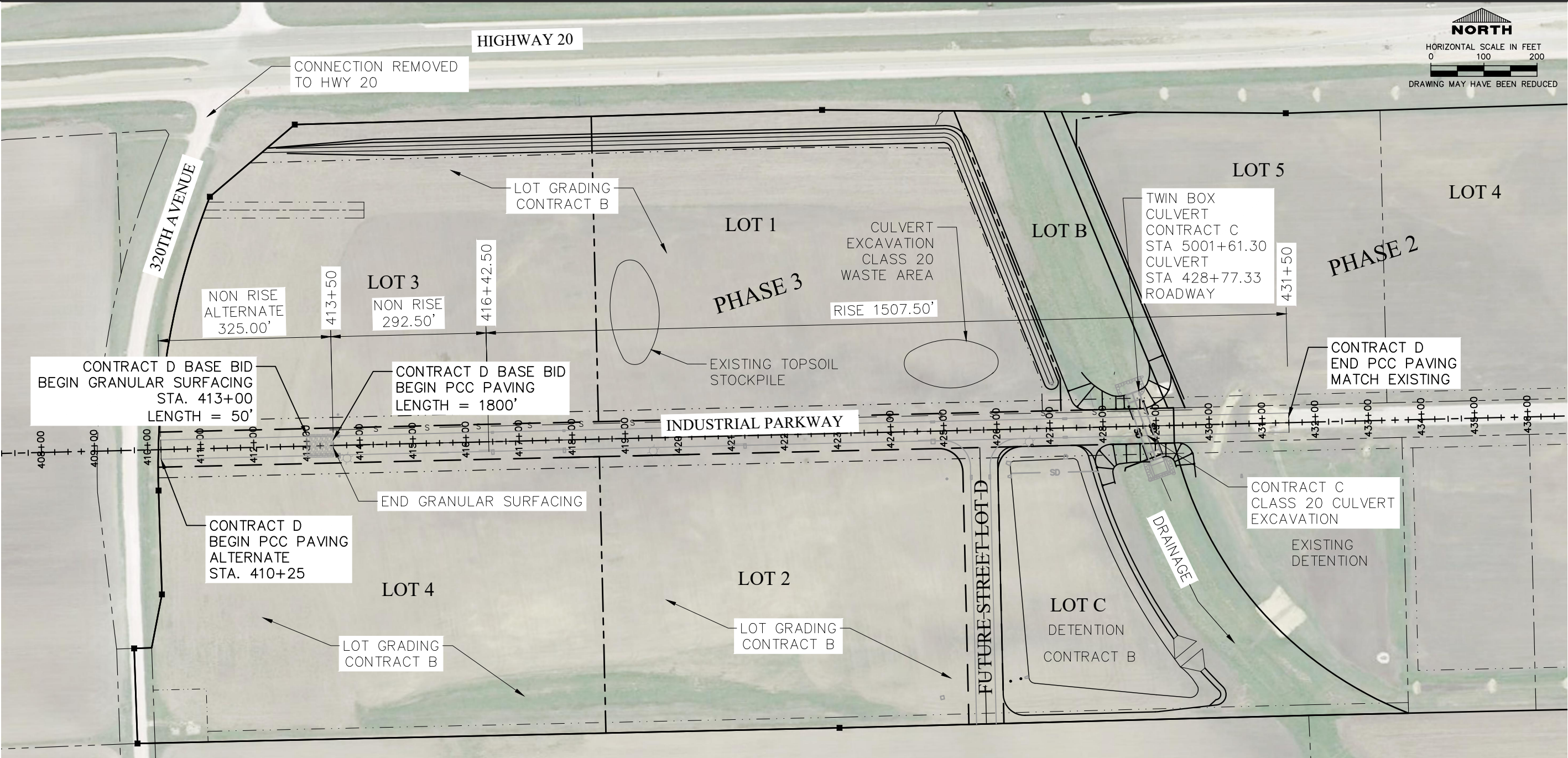
A.1

LEGEND

[illegible]

SURVEY

- FOUND REBAR
- FOUND IRON PIPE
- SET REBAR



20 WEST INDUSTRIAL CENTER OVERALL PLAN

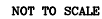
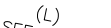
PHASE 3 CONSTRUCTION	
PREVIOUS WORK COMPLETED	
<ul style="list-style-type: none">CONTRACT A – SANITARY SEWER & WATER MAINCONTRACT B – LOT GRADING & SITE STORM SEWERCONTRACT C – CULVERT	
THIS CONTRACT	
<ul style="list-style-type: none">CONTRACT D – PAVING, ROADWAY STORM SEWER & LIGHTING	



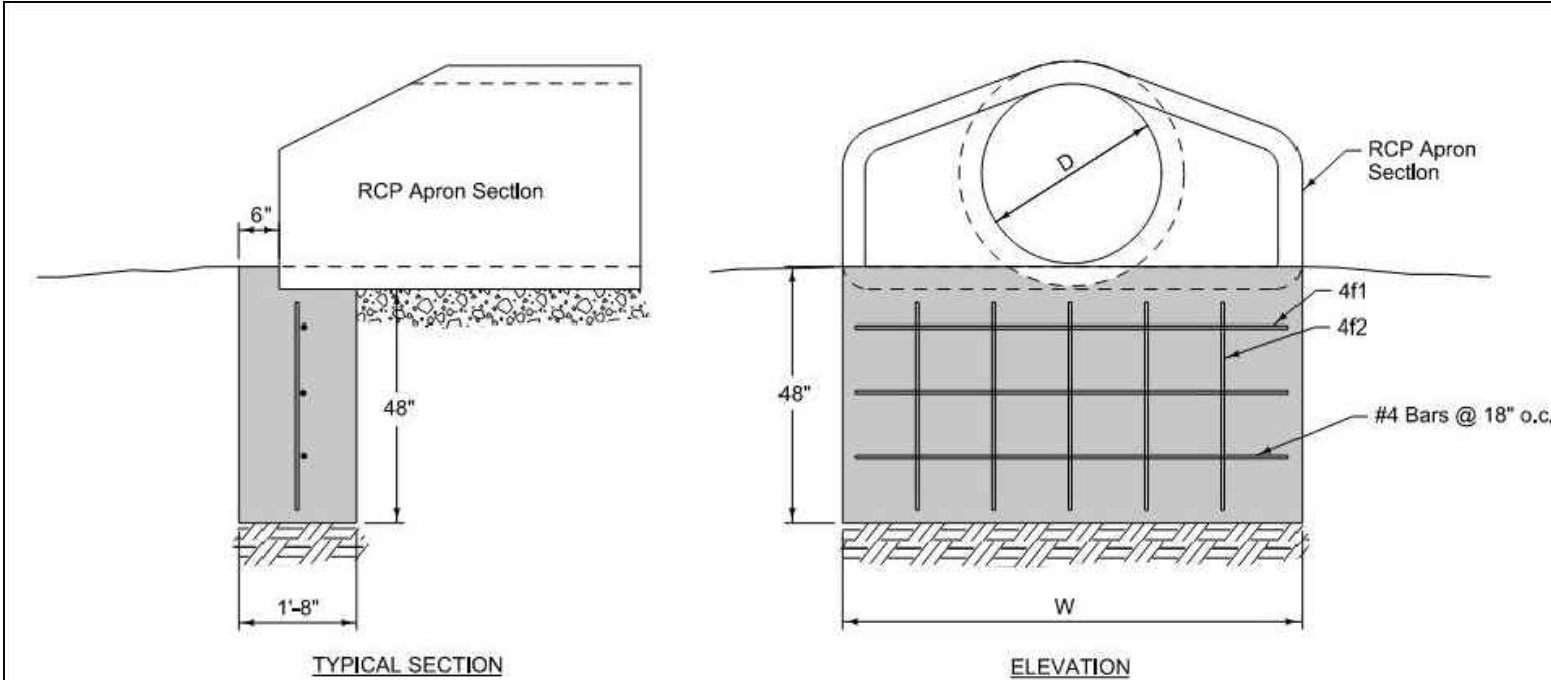
11. FOR INTAKES AND UTILITY ACCESSES, PAYMENT LINES FOR GRANULAR BACKFILL SHALL BE VERTICAL AND 2 FEET OUTSIDE THE NEAT LINES OF THE FOUNDATIONS IN EACH DIRECTION HORIZONTALLY.



NOT TO SCALE



NOTE: CAST IRON GRATE AND FRAME SHALL BE
NEENAH R-3246-AL, DEETER 2064, EJ 7510 M3,
OR APPROVED EQUAL



REINFORCING BAR LIST

D	W	Mark	Size	Length	Count	D	W	Mark	Size	Length	Count
12"	2'-4"	4f1	4	2'-0"	3	48"	7'-10"	4f1	4	7'-6"	3
		4f2	4	3'-8"	2			4f2	4	3'-8"	6
15"	2'-10 1/2"	4f1	4	2'-6 1/2"	3	54"	8'-5"	4f1	4	8'-1"	3
		4f2	4	3'-8"	2			4f2	4	3'-8"	6
18"	3'-5"	4f1	4	3'-1"	3	60"	8'-11"	4f1	4	8'-7"	3
		4f2	4	3'-8"	3			4f2	4	3'-8"	6
24"	4'-6"	4f1	4	4'-2"	3	66"	8'-11"	4f1	4	8'-7"	3
		4f2	4	3'-8"	3			4f2	4	3'-8"	6
30"	5'-7"	4f1	4	5'-3"	3	72"	10'-0"	4f1	4	9'-8"	3
		4f2	4	3'-8"	4			4f2	4	3'-8"	7
36"	6'-8"	4f1	4	6'-4"	3	78"	10'-7"	4f1	4	10'-3"	3
		4f2	4	3'-8"	5			4f2	4	3'-8"	7
42"	7'-3"	4f1	4	6'-11"	3	84"	11'-1"	4f1	4	10'-9"	3
		4f2	4	3'-8"	5			4f2	4	3'-8"	8

FIGURE 4030.221 SHEET 1 OF 1

11
B.3
APRON FOOTING
NOT TO SCALE

RM-2160(618)--9D-31

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ESTIMATED PROJECT QUANTITIES						
20 West Industrial Center - Phase 3 - Contract D RM-2160(618)--9D-31				Base Bid		
REF. NO.	ITEM CODE	BID ITEM DESCRIPTION	UNITS	DIVISION 1 RISE Quantities	DIVISION 2 Non-Participating Quantities	TOTAL QUANTITIES
1	2109-8225100	SPECIAL COMPACTION OF SUBGRADE	STA	15.08	3.42	18.5
2	2115-0100000	MODIFIED SUBBASE	CY	1200.4	325.8	1526.2
3	2123-7450000	SHOULDER CONSTRUCTION, EARTH	STA	30.15	5.85	36
4	2210-0475290	BASE MACADAM STONE	TON	227	44	271
5	2301-1033080	STANDARD OR SLIP FORM PCC CL C, CL 3 DURABILITY, 8 INCH	SY	6198	1203	7401
6	2416-0100030	APRON, CONCRETE, 30 INCH	EA	0	1	1
7	2416-0100042	APRON, CONCRETE, 42 INCH	EA	1	0	1
8	2416-0100048	APRON, CONCRETE, 48 INCH	EA	1	0	1
9	2435-0250100	INTAKE, SW-501	EA	4	1	5
10	2435-0250110	INTAKE, SW-501 MODIFIED	EA	3	1	4
11	2435-0250500	INTAKE, SW-505	EA	2	0	2
12	2435-0250510	INTAKE, SW-505 MODIFIED	EA	1	0	1
13	2435-0251224	INTAKE, SW-512, 24 IN.	EA	0	2	2
14	2502-8212034	SUBDRAIN, LONGITUDINAL, (SHOULDER) 4 IN. DIA.	LF	3090	685	3775
15	2502-8221303	SUBDRAIN OUTLET, DR-303	EA	12	2	14
16	2502-8221305	SUBDRAIN OUTLET, DR-305	EACH	2	0	2
17	2503-0114215	STORM SEWER, GRAVITY MAIN, TRENCHED, RCP, 2000D (CL 3), 15 INCH	LF	0	81	81
18	2503-0114218	STORM SEWER, GRAVITY MAIN, TRENCHED, RCP, 2000D (CL 3), 18 INCH	LF	148	37	185
19	2503-0114230	STORM SEWER, GRAVITY MAIN, TRENCHED, RCP, 2000D (CL 3), 30 INCH	LF	0	68	68
20	2503-0114236	STORM SEWER, GRAVITY MAIN, TRENCHED, RCP, 2000D (CL 3), 36 INCH	LF	38	311	349
21	2503-0114242	STORM SEWER, GRAVITY MAIN, TRENCHED, RCP, 2000D (CL 3), 42 INCH	LF	64	451	515
22	2503-0114248	STORM SEWER, GRAVITY MAIN, TRENCHED, RCP, 2000D (CL 3), 48 INCH	LF	62	436	498
23	2507-3250005	ENGINEERING FABRIC	SY	65	0	65
24	2507-6800061	REVETMENT, CLASS E	TON	100	0	100
25	2523-0000100	LIGHTING POLES	EA	2	1	3
26	2523-0000200	ELECTRICAL CIRCUITS	LF	1025	268	1293
27	2523-0000310	HANDHOLES AND JUNCTION BOXES	EA	2	1	3
28	2523-0000400	CONTROL CABINET	EA	1	0	1
29	2528-2518000	SAFETY CLOSURE	EA	1	0	1
30	2528-8445110	TRAFFIC CONTROL	LS	1	0	1
31	2533-4980005	MOBILIZATION	LS	0.8375	0.1625	1
32	2599-9999010	CONCRETE WASHOUT	LS	1	0	1
33	2601-2634100	MULCHING	AC	2.5	1.5	4
34	2601-2636044	SEEDING AND FERTILIZING (URBAN)	AC	2.5	1.5	4
35	2601-2642120	STABILIZING CROP - SEEDING AND FERTILIZING (URBAN)	AC	2.5	1.5	4
36	2602-0000020	SILT FENCE	LF	350	100	450
37	2602-0000071	REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS	LF	350	100	450
38	2602-0000101	MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECK	LF	35	10	45
39	2602-0000150	STABILIZED CONSTRUCTION ENTRANCE, EC-303	LF	100	0	100
40	2602-0000309	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 9 INCH DIA.	LF	600	150	750
41	2602-0000351	REMOVAL OF PERIMETER AND SLOPE OR DITCH CHECK SEDIMENT CONTROL DEVICE	LF	600	150	750
42	2602-0010010	MOBILIZATIONS, EROSION CONTROL	EA	3	1	4
43	2602-0010020	MOBILIZATIONS, EMERGENCY EROSION CONTROL	EACH	1	0	1
44	2602-0000530	GRATE INTAKE SEDIMENT FILTER BAG	EACH	4	10	14
45	2602-0000540	MAINTENANCE OF GRATE INTAKE SEDIMENT FILTER BAG	EACH	4	10	14
46	2602-0000550	REMOVAL OF GRATE INTAKE SEDIMENT FILTER BAG	EACH	4	10	14

ADDITIVE ALTERNATE 1 - PAVING EXTENSION						
REF. NO.	ITEM CODE	BID ITEM DESCRIPTION	UNITS	DIVISION 1 RISE Quantities	DIVISION 2 Non-Participating Quantities	TOTAL QUANTITIES
A1	2109-8225100	SPECIAL COMPACTION OF SUBGRADE	STA	0	2.75	2.75
A2	2115-0100000	MODIFIED SUBBASE	CY	0	165.9	165.9
A3	2123-7450000	SHOULDER CONSTRUCTION, EARTH	STA	0	6.5	6.5
A4	2210-0475290	BASE MACADAM STONE	TON	0	42	42
A5	2301-1033080	STANDARD OR SLIP FORM PCC, CL C, CL 3, 8"	SY	0	1336	1336
A6	2502-8212034	SUBDRAIN, LONGITUDINAL, (SHOULDER) 4 IN. DIA.	LF	0	560	560

ESTIMATE REFERENCE INFORMATION	
20 West Industrial Center Phase 3 - Contract D RM-2160(618)--9D-31	
DATA BELOW IS FOR INFORMATION ONLY AND DOES NOT CONSTITUTE A BASIS FOR EXTRA WORK ORDER REQUESTS	
REF. NO.	DESCRIPTION
1	SEE TYPICAL SECTION ON SHEET B.1 FOR LOCATION. APPLIES UNDER MODIFIED SUBBASE PLACED FOR PCC PAVEMENT TO A DEPTH OF 1' BELOW BOTTOM OF THE MODIFIED SUBBASE.
2	TO BE USED AS BASE MATERIAL UNDER ROADWAY AS SHOWN ON THE TYPICAL SECTIONS ON B.1. ALSO PLACED AS GRANULAR SURFACING AT THE WEST END OF PROPOSED PAVING OPERATIONS IF ADDITIVE ALTERNATE 1 IS NOT SELECTED. SEE PCC PAVEMENT TABULATION ON C SHEETS.
3	FOR USE CONSTRUCTING EARTH SHOULDER ADJACENT TO CURB ALONG THE ROADWAY, AS INDICATED IN THE TYPICAL SECTION ON SHEET B.1. TOPSOIL MATERIAL MAY BE USED FOR FULL DEPTH OF MATERIAL ADJACENT TO PAVEMENT AS WELL AS THE TOP 4 INCHES AT THE SURFACE. PROVIDING, HAULING, AND PLACING MATERIAL FOR PLACEMENT AS PART OF EARTH SHOULDER CONSTRUCTION IS INCIDENTAL TO THIS ITEM. SUFFIENT MATERIAL, ESTIMATED TO BE 910 CY, IS ANTICIPATED TO BE AVAILABLE STOCKPILED NEAR THE PROJECT AREA AS PART OF PREVIOUS CONTRACT WORK AS SHOWN ON SHEET A.3.
4	FOR USE AT LOCATIONS AS DIRECTED BY THE ENGINEER WHERE SUBGRADE IS NOT STABLE AFTER PROOF ROLLING. MATERIAL MAY INCLUDE FINES. SEE SUBGRADE STABILIZATION DETAIL ON SHEET B.2
5	SEE TYPICAL SECTION ON B.1 AND LOCATIONS ON THE D SHEETS. TYPICAL JOINT TYPES ARE NOTED ON SHEET B.1. CONTRACTOR SHALL PROVIDE CERTIFIED PLANT INSPECTION.
6	SEE D AND M SHEETS FOR TABULATION AND LOCATION. APRON SHALL BE TIED TO ADJACENT PIPE SECTION PER DETAIL ON SHEET B.2. MATERIALS AND INSTALLATION FOR PIPE CONNECTORS ARE INCIDENTAL TO THIS ITEM.
7	SEE D AND M SHEETS FOR TABULATION AND LOCATION. APRON SHALL BE TIED TO ADJACENT PIPE SECTION PER DETAIL ON SHEET B.2. PROVIDE APRON FOOTING PER DETAIL ON SHEET B.3. MATERIALS AND INSTALLATION FOR APRON FOOTING AND PIPE CONNECTORS ARE INCIDENTAL TO THIS ITEM. CONTRACTOR SHALL PROVIDE CERTIFIED PLANT INSPECTION FOR CAST IN PLACE COMPONENTS.
8	SEE D AND M SHEETS FOR TABULATION AND LOCATION. APRON TYPE INCLUDES ENDWALL PER DR-205. SEE DETAIL ON SHEET M.3 FOR ADDITIONAL INFORMATION. APRON SHALL BE TIED TO ADJACENT PIPE SECTION PER DETAIL ON SHEET B.2. PROVIDE APRON FOOTING PER DETAIL ON SHEET B.3. MATERIALS AND INSTALLATION FOR APRON FOOTING AND PIPE CONNECTORS ARE INCIDENTAL TO THIS ITEM. CONTRACTOR SHALL PROVIDE CERTIFIED PLANT INSPECTION FOR CAST IN PLACE COMPONENTS.
9	SEE D AND M SHEETS FOR TABULATION AND LOCATIONS. CONTRACTOR SHALL PROVIDE CERTIFIED PLANT INSPECTION FOR CAST IN PLACE COMPONENTS.
10	SEE D AND M SHEETS FOR TABULATION AND LOCATIONS. CONTRACTOR SHALL PROVIDE CERTIFIED PLANT INSPECTION FOR CAST IN PLACE COMPONENTS. SEE DETAIL ON SHEET B.2
11	SEE D AND M SHEETS FOR TABULATION AND LOCATIONS. CONTRACTOR SHALL PROVIDE CERTIFIED PLANT INSPECTION FOR CAST IN PLACE COMPONENTS.
12	SEE D AND M SHEETS FOR TABULATION AND LOCATIONS. CONTRACTOR SHALL PROVIDE CERTIFIED PLANT INSPECTION FOR CAST IN PLACE COMPONENTS. SEE DETAIL ON SHEET B.2
13	SEE D AND M SHEETS FOR TABULATION AND LOCATIONS. CONTRACTOR SHALL PROVIDE CERTIFIED PLANT INSPECTION FOR CAST IN PLACE COMPONENTS.
14	INCLUDES STADARD ROADWAY SUBDRAIN. SEE D SHEETS FOR LOCATIONS. DR-303, TYPE 12 INSTALLATION.
15	SEE M SHEETS FOR LOCATIONS. FOR CONNECTION OF SUBDRAIN TO INTAKE STRUCTURES AS NOTED.
16	SEE D SHEETS FOR LOCATIONS. FOR OULETTING SUBDRAIN TO DITCH. TYPE A INSTALLATION.
17	SEE M SHEETS FOR TABULATION AND LOCATIONS.
18	SEE M SHEETS FOR TABULATION AND LOCATIONS.
19	SEE M SHEETS FOR TABULATION AND LOCATIONS. BID ITEM SHALL INCLUDE MATERIALS AND INSTALLATION FOR CONNECTED PIPE JOINTS PER DR-121 FOR THE FIRST THREE PIPE SECTIONS ADJACENT TO CONCRETE APRONS ON PIPE RUNS WITH AN APRON. USE TYPE 3 CONNECTIONS.
20	SEE D AND M SHEETS FOR TABULATION AND LOCATIONS.
21	SEE D AND M SHEETS FOR TABULATION AND LOCATIONS. BID ITEM SHALL INCLUDE MATERIALS AND INSTALLATION FOR CONNECTED PIPE JOINTS PER DR-121 FOR THE FIRST THREE PIPE SECTIONS ADJACENT TO CONCRETE APRONS ON PIPE RUNS WITH AN APRON. USE TYPE 3 CONNECTIONS.
22	SEE D AND M SHEETS FOR TABULATION AND LOCATIONS. BID ITEM SHALL INCLUDE MATERIALS AND INSTALLATION FOR CONNECTED PIPE JOINTS PER DR-121 FOR THE FIRST THREE PIPE SECTIONS ADJACENT TO CONCRETE APRONS ON PIPE RUNS WITH AN APRON. USE TYPE 3 CONNECTIONS.
23	PLACED UNDER CLASS E REVETMENT AT OUTLET LOCATIONS FOR STORM SEWER. SEE SHEET D.2 FOR PLACEMENT AREAS.
24	FOR USE AT OUTLET LOCATIONS FOR STORM SEWER. SEE SHEET D.2 FOR PLACEMENT AREAS.
25	SEE P SHEETS FOR LOCATIONS AND SHEET C.3 FOR TABULATIONS. INCLUDES BREAKAWAY BASE ASSEMBLY. LIGHT POLE FOUNDATION SHALL BE CONCRETE. CONTRACTOR SHALL PROVIDE CERTIFIED PLANT INSPECTION FOR CAST IN PLACE COMPONENTS.
26	SEE P SHEETS FOR LOCATIONS AND SHEET C.3 FOR TABULATIONS. INCLUDES CONDUCTORS, CONDUIT, TRENCHING AND BACKFILL. VERTICAL RUNS ARE INCIDENTAL TO THE BID ITEMS.
27	SEE P SHEETS FOR LOCATIONS AND SHEET C.3 FOR TABULATIONS. USE TYPE 2 PER LI-103
28	SEE P SHEETS FOR LOCATION AND SHEET P.3 FOR DETAILS.
29	TO BE INSTALLED AT THE EXISTING END OF PAVEMENT ON INDUSTRIAL PARKWAY AS NOTED ON SHEET D.2
30	SEE TABULATION OF STANDARD ROAD PLANS ON SHEET C.3. INCLUDES INSTALLATION OF "ROAD CLOSED AHEAD" SIGN 100 FEET IN ADVANCE OF THE SAFETY CLOSURE NOTED ON SHEET D.2. OTHER TC-252 SIGNAGE NOT REQUIRED. ALSO INCLUDES REMOVAL OF EXISTING BARRICADE LOCATED IN GRAVEL TURNAROUND AT WEST END OF EXISTING INDUSTRIAL PARKWAY PAVEMENT.

ESTIMATE REFERENCE INFORMATION	
20 West Industrial Center Phase 3 - Contract D RM-2160(618)--9D-31	
DATA BELOW IS FOR INFORMATION ONLY AND DOES NOT CONSTITUTE A BASIS FOR EXTRA WORK ORDER REQUESTS	
REF. NO.	DESCRIPTION
31	OTHER WORK MAY BE OCCURING IN THE PROJECT AREA AS PART OF OTHER CONTRACTS, SEE SHEET A.3 FOR ADDITIONAL INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION BETWEEN CONTRACTORS TO ENSURE THEIR SCHEDULE, ACCESS, AND OTHER CONSTRUCTION NEEDS ARE MET.
32	FOR FURNISHING PERIODIC CLEANING AND MAINTENANCE OF THE WASHOUT AREA AS DIRECTED BY THE ENGINEER. SEE DETAIL ON SHEET RR.1. CONCRETE WASHOUTS SHALL BE MAINTAINED THROUGH THE DURATION OF THE PROJECT. CONCRETE WASHOUT LOCATION SHALL BE NOTED IN THE SWPPP. METHOD OF MEASUREMENT AND BASIS OF PAYMENT SHALL BE LUMP SUM. INCLUDES INSTALLATION, MAINTAINING WASHOUT AND SHALL BE FULL COMPENSATION FOR ALL LABOR, EQUIPMENT AND MATERIALS REQUIRED TO INSTALL AND MAINTAIN THE CONCRETE WASHOUT.
33	ALL DISTURBED AREAS WITHOUT PAVING OR STONE. HYDROMULCHING IS ALLOWED.
34	ALL DISTURBED AREAS WITHOUT PAVING OR STONE.
35	FOR USE AT DISTURBED LOCATIONS THAT WILL NOT BE SEEDED OR SURFACED WITH PAVEMENT OR STONE WITHIN THE TIMEFRAME ALLOWED BY THE NPDES PERMIT.
36	FOR USE ON SLOPES TO PREVENT EROSION AND AS PERIMETER CONTROL TO PREVENT SEDIMENT FROM LEAVING SITE. PRELIMINARY DEVICE LOCATIONS ARE SHOWN ON THE RR SHEETS. PRIOR TO PLACEMENT, VERIFY LOCATIONS WITH THE ENGINEER.
37	REMOVE DEVICES ONLY AS DIRECTED BY THE ENGINEER. OWNER MAY CHOOSE TO REMOVE SOME OR ALL OF THE DEVICES.
38	--
39	SEE SHEET RR.2 FOR SUGGESTED INSTALLATION LOCATION.
40	FOR USE IN GRADED AREAS TO PREVENT EROSION AND TO PREVENT SEDIMENT FROM LEAVING SITE. PRELIMINARY DEVICE LOCATIONS ARE SHOWN ON THE RR SHEETS. PRIOR TO PLACEMENT, VERIFY LOCATIONS WITH THE ENGINEER.
41	REMOVE DEVICES ONLY AS DIRECTED BY THE ENGINEER. OWNER MAY CHOOSE TO REMOVE SOME OR ALL OF THE DEVICES.
42	WILL BE BY COUNT FOR EACH MOBILIZATION IN THE ACCEPTE EOP AND ACCEPTABLY PERFORMED, AS WELL AS ADDITIONAL MOBILIZATIONS ORDERED OR APPROVED BY THE ENGINEER AND ACCEPTABLY PERFORMED.
43	USED FOR A SUDDEN OCCURRENCE OF A SERIOUS AND URGENT NATRUE WHICH IS BEYOND NORMAL MAINTENANCE OF EROSION CONTROL ITEMS.
44	PER STANDARD ROAD PLAN EC-604, INSTALL ON INTAKES AND DRAINAGE STRUCTURES AFTER THE GRATES ARE INSTALLED. METHOD OF MEASUREMENT SHALL BE BY EACH GRATE SEDIMENT FILTER BAG INSTALLED AS MEASURED BY THE ENGINEER. BASIS OF PAYMENT INCLUDES ALL LABOR, MATERIALS, AND EQUIPMENT FOR THE INSTALLATION OF THE GRATE SEDIMENT FILTER BAG IN ACCORDANCE WITH EC-604.
45	MAINTENANCE INCLUDES REMOVAL AND DISPOSAL OF SILT MATERIAL TRAPPED BY THE FILTER BAG, WITHOUT ALLOWING THE MATERIAL TO BE DISCHARGED INTO THE INTAKE OR MANHOLE. METHOD OF MEASUREMENT SHALL BE FOR EACH TIME MAINTENANCE AND CLEANING IS REQUIRED BY THE ENGINEER. BASIS OF PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT TO CLEAN THE FILTER BAG AND DISPOSE OF THE MATERIAL.
46	REMOVAL INCLUDES REMOVAL OF THE FILTER BAG, WITHOUT ALLOWING ANY TRAPPED SILT MATERIAL TO BE DISCHARGED INTO THE INTAKE OR MAHNOLE. METHOD OF MEASUREMENT SHALL BE FOR REMOVAL OF EACH GRATE SEDIMENT FILTER BAG AS MEASURED BY THE ENGINEER. BASIS OF PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT TO REMOVE THE FILTER BAG AND DISPOSE OF IT AND ANY TRAPPED MATERIAL.

ADDITIVE ALTERNATE 1 - PAVING EXTENSION	
REF. NO.	DESCRIPTION
A1	SEE TYPICAL SECTION ON SHEET B.1 FOR LOCATION. APPLIES UNDER MODIFIED SUBBASE PLACED FOR PCC PAVEMENT TO A DEPTH OF 1' BELOW BOTTOM OF THE MODIFIED SUBBASE.
A2	TO BE USED AS BASE MATERIAL UNDER ROADWAY AS SHOWN ON THE TYPICAL SECTIONS ON B.1. IF ADDITIVE ALTERNATE 1 IS SELECTED, UTILIZE MATERIAL FOR GRANULAR SURFACING AT WEST END OF BASE BID PAVING FOR ADDITIONAL PAVING BASE INSTEAD.
A3	FOR USE CONSTRUCTING EARTH SHOULDER ADJACENT TO CURB ALONG THE ROADWAY, AS INDICATED IN THE TYPICAL SECTION ON SHEET B.1. TOPSOIL MATERIAL MAY BE USED FOR FULL DEPTH OF MATERIAL ADJACENT TO PAVEMENT AS WELL AS THE TOP 4 INCHES AT THE SURFACE. PROVIDING, HAULING, AND PLACING MATERIAL FOR PLACEMENT AS PART OF EARTH SHOULDER CONSTRUCTION IS INCIDENTAL TO THIS ITEM. SUFFIENT MATERIAL, ESTIMATED TO BE 165 CY, IS ANTICIPATED TO BE AVAILABLE STOCKPILED NEAR THE PROJECT AREA AS PART OF PREVIOUS CONTRACT WORK AS SHOWN ON SHEET A.3.
A4	FOR USE AT LOCATIONS AS DIRECTED BY THE ENGINEER WHERE SUBGRADE IS NOT STABLE AFTER PROOF ROLLING. MATERIAL MAY INCLUDE FINES. SEE SUBGRADE STABILIZATION DETAIL ON SHEET B.2
A5	SEE TYPICAL SECTION ON B.1 AND LOCATIONS ON THE D SHEETS. TYPICAL JOINT TYPES ARE NOTED ON SHEET B.1. CONTRACTOR SHALL SUPPLY CERTIFIED PLANT INSPECTION.
A6	INCLUDES STADARD ROADWAY SUBDRAIN. SEE D SHEETS FOR LOCATIONS. DR-303, TYPE 12 INSTALLATION.

LIGHTING CONDUIT										
This Data Entry Sheet fills Tab 108-2A effective 08-01-08										
Handholes			Conduits						Notes	
No.	Station	LI-103 Type	Conduit No.	Location		Conduit Type	Dia. IN	Length		
				From	To					
HH1	413+80.81, 24.5' RT	II	** E1	LP1	HH1	HDPE	2.0	6.0	CIRCUIT A * 6' NON RISE	
HH2	419+51.95, 29.5' RT	II	E2	HH1	HH2	HDPE	2.0	570.0	CIRCUIT A * 262' NON RISE 308' RISE	
HH3	426+54.98, 24.5' RT	II	** E3	HH2	LP2	HDPE	2.0	5.0	CIRCUIT A * 5' RISE	
			E4	HH2	HH3	HDPE	2.0	702.0	CIRCUIT A * 702' RISE	
			** E5	HH3	LP3	HDPE	2.0	5.0	CIRCUIT A * 5' RISE	
			E6	HH3	CP1	HDPE	2.0	5.0	CIRCUIT A * 5' RISE	
	Non Rise	1								
	Rise	2								
									TOTAL 1293' 268' NON RISE 1025' RISE	

* CIRCUIT A SHALL BE (2) #10 xHHW COPPER AND (1) #10 xHHW COPPER GROUND.
** INCLUDE ADDITIONAL SPARE CONDUIT.

STANDARD ROAD PLANS			105-4 10-18-11
The following Standard Road Plans apply to construction work on this project.			
Number	Date	Title	
DR-201	10-17-23	Concrete Aprons	
DR-205	10-17-23	Concrete Apron with End Wall	
DR-303	10-17-17	Subdrains (Longitudinal)	
DR-305	04-19-22	Subdrain Outlets (Standard Subdrain, Pressure Release and Special)	
EC-201	04-20-21	Silt Fence	
EC-204	10-19-21	Perimeter, Slope and Ditch Check Sediment Control Devices	
EC-303	10-19-21	Stabilized Construction Entrance	
EC-604	10-17-23	Grate Intake Sediment Filter Bag	
EW-403	04-18-17	Temporary Erosion Control Measures	
PV-101	04-19-22	Joints	
LI-101	10-21-14	Light Pole Location	
LI-103	04-19-22	Conduit and Precast Handholes	
LI-201	04-18-17	Light Pole Foundation	
PV-102	04-21-20	PCC Curb Details	
SW-102	04-20-21	Rigid Gravity Pipe Trench Bedding	
SW-211	04-17-18	Storm Sewer Pipe Connections	
SW-501	04-21-20	Single Grate Intake	
SW-505	04-21-20	Double Grate Intake	
SW-512	04-21-20	Circular Area Intake	
SW-514	04-17-18	Boxouts for Grate Intakes	
SW-603	10-16-18	Castings for Grate Intakes	
SW-604	04-21-20	Castings for Area Intakes	
TC-1	10-15-19	Work Not Affecting Traffic (Two-Lane or Multi-Lane)	
TC-252	04-21-20	Routes Closed to Traffic	

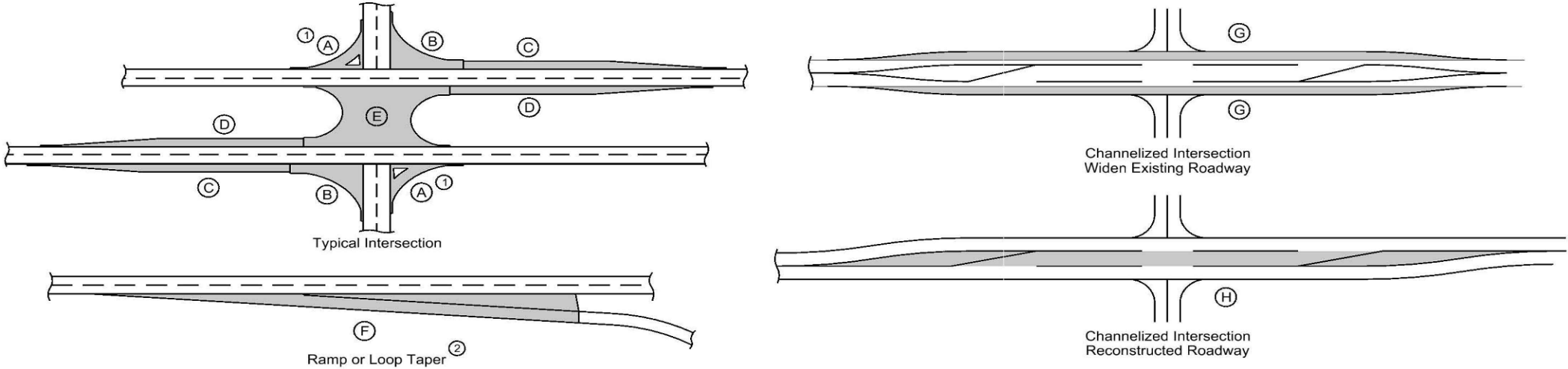
LIGHTING INSTALLATIONS						
This Data Entry Sheet fills Tab 108-1 effective 10-21-14						
Location		LI-101		LI-201	Remarks	
No.	Station	Type		E FT		
				Type		
LP1	413+74.98, 24.50' R	2		6.0	A	30-8-III-X-LP1
LP2	419+51.95, 24.50' R	2		6.0	A	30-8-III-X-LP2
LP3	426+59.99, 24.50' R	2		6.0	A	30-8-III-X-LP3









NON RISE
RISE
RISE

GENERAL NOTES:

- ALL UNSALVAGEABLE MATERIAL AND RUBBLE GENERATED DURING THIS PROJECT SHALL BE DISPOSED OF OFF THE HIGHWAY RIGHT-OF-WAY IN A WASTE AREA PROVIDED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. THE WASTED MATERIAL MUST NOT CREATE AN UNSIGHTLY CONDITION WHEN VIEWED FROM PUBLIC HIGHWAYS. REMOVALS AND DISPOSALS SHALL BE IN ACCORDANCE WITH SECTION 2401 OF THE STANDARD SPECIFICATIONS. ALSO, ALL EXCESSIVE EXCAVATED MATERIAL AND UNSUITABLE MATERIAL FOR BACKFILL WILL BECOME THE PROPERTY OF THE CONTRACTOR AND WILL BE DISPOSED OF OFF SITE. ALL BORROW MATERIAL SHALL BE SUPPLIED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
- NO EXTRA PAYMENT IS ALLOWED FOR COLD WEATHER PROTECTION DURING CONSTRUCTION. WORKING DAYS WILL BE CHARGED OVER THE WINTER.
- CITY OF DYERSVILLE WILL PROVIDE THE CONSTRUCTION STAKING FOR USE BY THE CONTRACTOR.
- ROAD CONTRACTOR IS TO USE DUE CAUTION IN WORKING OVER AND AROUND ALL TILE LINES. BREAKS IN THE TILE LINE DUE TO THE CONTRACTOR'S CARELESSNESS ARE TO BE REPLACED AT THE CONTRACTOR'S EXPENSE WITHOUT COST TO CITY OF DYERSVILLE. ANY TILE LINES BROKEN OR DISTURBED BY DESIGNATED CUT LINES WILL BE REPLACED AS DIRECTED BY THE ENGINEER AND PAID PER LINEAR FOOT OF SUBDRAIN ITEM.

PCC PAVEMENT



Location				Mainline			Area (3)								Total Area By Pavement Thickness		Special Backfill	Modified Subbase 6"	Modified Subbase 14"	Remarks
Road Identification	Direction of Travel	Station to Station		Width	Length	Area														
							SY	SY	SY	SY	SY	SY	SY	SY	SY	SY				
SY															8 IN		TONS	CY	CY	
ALTERNATE	W & E	410+25.00	413+50.00	37.0	325.0	1336.1									1336.1			258.8		DIVISION 2 NON-RISE
TEMPORARY ROCK TURN-AROUND	W & E	413+00.00	413+50.00	43.0	50.0	238.9													92.9	DIVISION 2 NON-RISE
INDUSTRIAL PARKWAY	W & E	413+50.00	416+42.50	37.0	292.5	1202.5									1202.5			232.9		DIVISION 2 NON-RISE
INDUSTRIAL PARKWAY	W & E	416+42.50	431+50.00	37.0	1507.5	6197.5									6197.5			1200.4		DIVISION 1 RISE

ROADWAY QUANTITY TOTAL				
TYPE	DIVISION 1 RISE TOTAL	DIVISION 2 NON RISE TOTAL	DIVISION 2--TURNAROUND NON RISE TOTAL	DIVISION 2--ALTERNATE NON RISE TOTAL
8" PCC SY	6198	1203		1336
MOD SUBBASE CY	1200.4	232.9	92.9	165.9

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RW-2160(618)--9D-31

POLLUTION PREVENTION PLAN	
This Data Entry Sheet fills Tab 110-12L effective 10-20-20	
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 City of Dyersville, 20 West Industrial Center, Phase 3, Contract B.	
B. This PPP covers approximately 50 acres with an estimated 3.5 acres being disturbed. The portion of the PPP covered by this contract has *Provide # of Acres* acres disturbed.	
C. The PPP is located in an area of 2 soil associations Kenyon-Clyde-Floyd and Dinsdale-Klinger. The estimated weighted average runoff coefficient number for this PPP after completion will be 0.45.	
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 and plans in RR sheets.	
5. Locations of Non-structural Controls - Tabulations and plans in RR 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 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 Bear Creek to North Fork Maquoketa River to Middle Fork Catfish Creek to Catfish Creek to Mississippi 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
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.

NPDES Permit Discharge Authorization Number 41617-41242 Issued for 20 West Industrial Center - Seventh Addition Construction West end of Industrial Parkway SW in the City of Dyersville, Delaware County located at NE 1/4, Section 2, T88N, R3W.
Coverage provided through 8/1/2025

RM-2160(618)--9D-31

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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 construction. 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.

Signature

Mick Michel, City Administrator

Printed or Typed Name

Signature

Jon Lutz, P.E.

Printed or Typed Name

CONTRACTOR'S CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE AS PART OF THIS CERTIFICATION. FURTHER, BY MY SIGNATURE, I UNDERSTAND THAT I AM BECOMING A CO-PERMITTEE, ALONG WITH THE OWNER(S) AND OTHER CONTRACTORS AND SUBCONTRACTORS SIGNING SUCH CERTIFICATIONS, TO THE IOWA DEPARTMENT OF NATURAL RESOURCES NPDES GENERAL PERMIT NO. 2 FOR "STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FOR CONSTRUCTION ACTIVITIES" AT THE IDENTIFIED SITE. AS A CO-PERMITTEE, I UNDERSTAND THAT I, AND MY COMPANY, ARE LEGALLY REQUIRED UNDER THE CLEAN WATER ACT AND THE CODE OF IOWA, TO ENSURE COMPLIANCE WITH THE TERMS AND CONDITIONS OF THE STORM WATER POLLUTION PREVENTION PLAN DEVELOPED UNDER THIS NPDES PERMIT AND THE TERMS OF THIS NPDES PERMIT. CONSTRUCTION ACTIVITY ASSOCIATED WITH THE 20 WEST INDUSTRIAL CENTER - PHASE 3 - CONTRACT B, DELAWARE COUNTY, IOWA.

NAME

TITLE

DATE

CONTRACTING FIRM: _____

ADDRESS: _____ TELEPHONE: _____

NAME

TITLE

DATE


CONTRACTING FIRM: _____

ADDRESS: _____ TELEPHONE: _____

PROJECT NUMBER	RM-2160(618)--9D-31	20 WEST INDUSTRIAL CENTER - PHASE 3 - CONTRACT D	origin design 800 556-4491	CITY OF DYERSVILLE - DELAWARE COUNTY	POLLUTION PREVENTION PLAN	03-19-24	C.6
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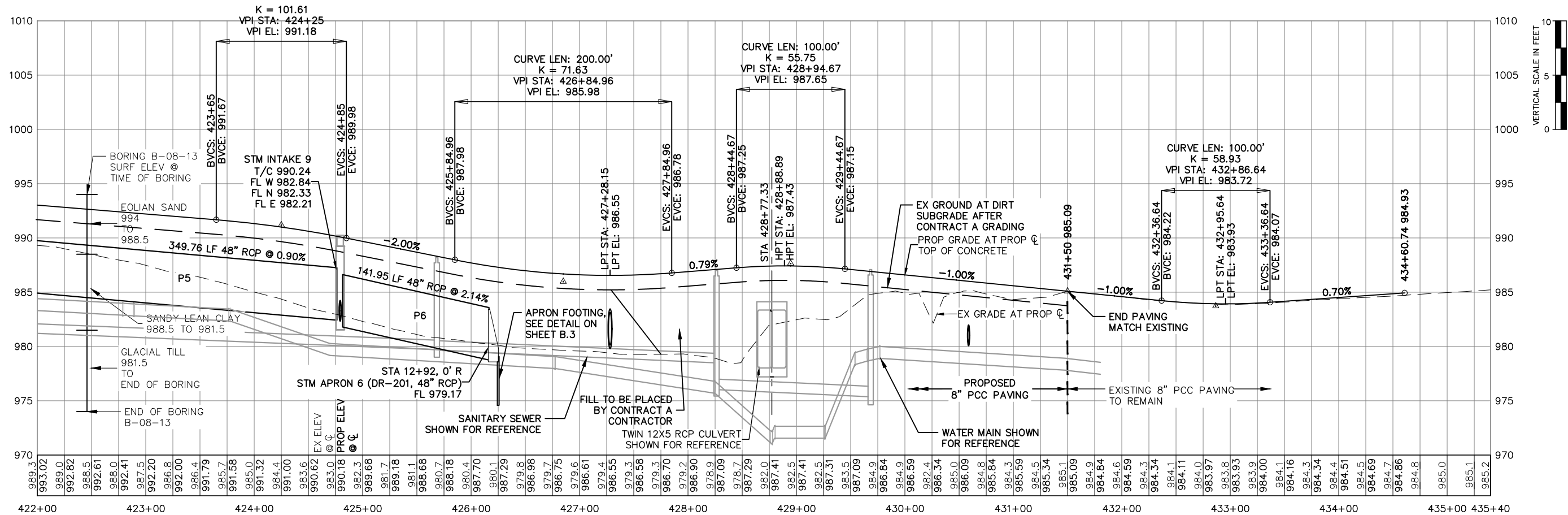
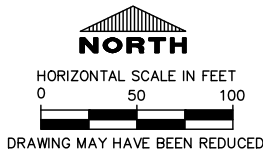
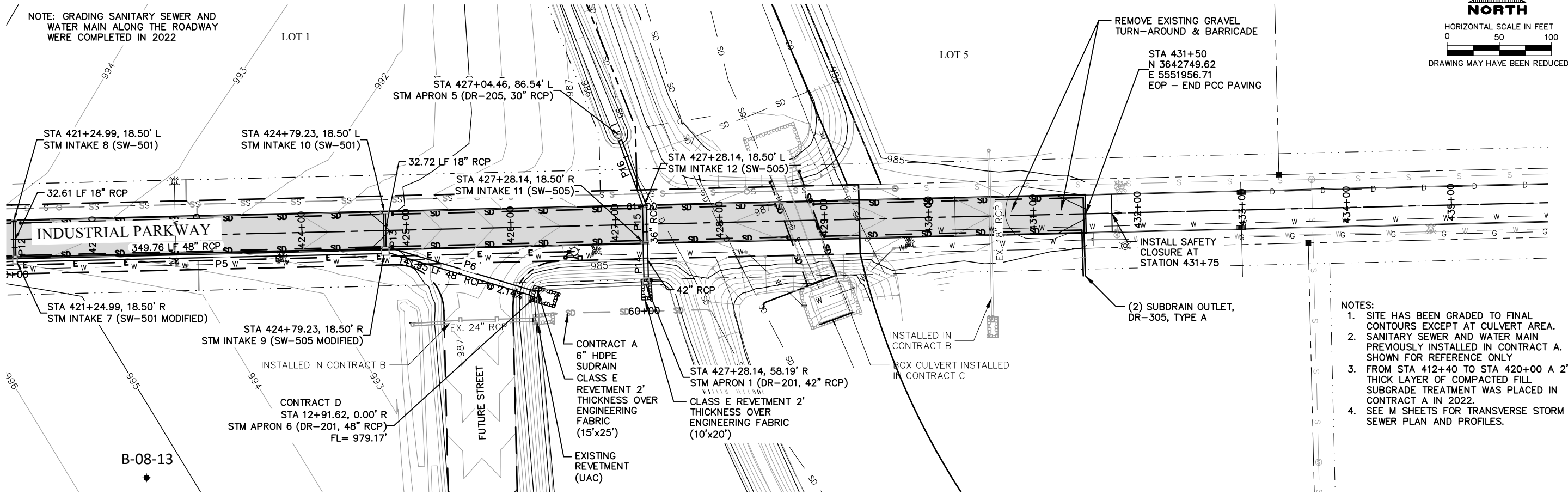
- NOTES:
1. SITE HAS BEEN GRADED TO FINAL CONTOURS EXCEPT AT CULVERT AREA.
 2. SANITARY SEWER AND WATER MAIN PREVIOUSLY INSTALLED IN CONTRACT A. SHOWN FOR REFERENCE ONLY
 3. FROM STA 412+40 TO STA 420+00 A 2' THICK LAYER OF COMPACTED FILL SUBGRADE TREATMENT WAS PLACED IN CONTRACT A IN 2022.
 4. SEE M SHEETS FOR TRANSVERSE STORM SEWER PLAN AND PROFILES

PROJECT NUMBER	RM-2160(618)--9D-31	20 WEST INDUSTRIAL CENTER - PHASE 3 - CONTRACT D	 800 556-4491	CITY OF DYERSVILLE - DELAWARE COUNTY	PAVING AND STORM SEWER	03-19-24	D.1
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RM-2160(618)--9D-31

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NOTE: GRADING SANITARY SEWER AND WATER MAIN ALONG THE ROADWAY WERE COMPLETED IN 2022



STORM SEWER

① Diameter or equivalent diameter

* Bid Item

**** For SW-545**


[illegible]

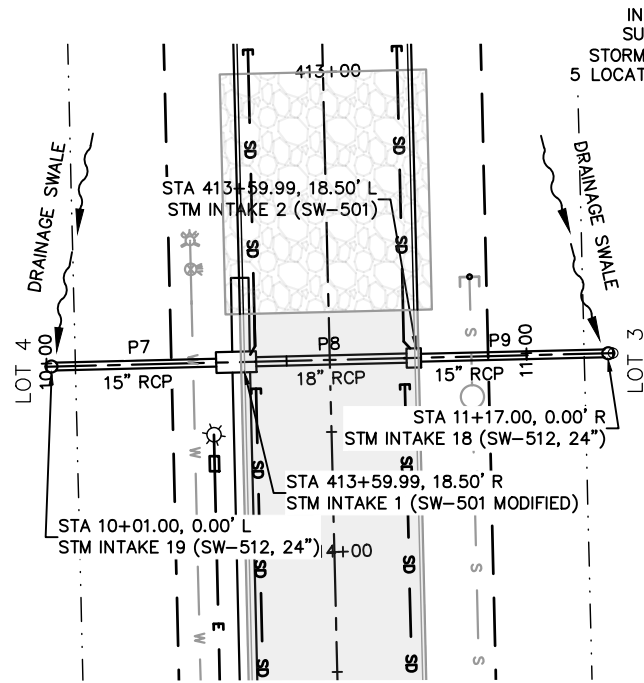
STRUCTURE QUANTITY TOTAL		
TYPE	DIVISION 1 RISE TOTAL	DIVISION 2 NON RISE TOTAL
SW-501	4	1
SW-501 MOD	3	1
SW-505	2	
SW-505 MOD	1	
SW-512-24"		2
DR-201-18"		0
DR-201-42"	1	
DR-201-48"	1	
DR-205-30"		1

PIPE QUANTITY TABLE				
TYPE	DIVISION 1 RISE TOTAL LONGITUDINAL (66/530)	DIVISION 2 NON RISE TOTAL LONGITUDINAL	DIVISION 1 RISE TOTAL TRANSVERSE	DIVISION 2 NON RISE TOTAL TRANSVERSE
15" RCP				81
18" RCP			148	37
30" RCP				68
36" RCP		311	38	
42" RCP	64	451		
48" RCP	62	436		

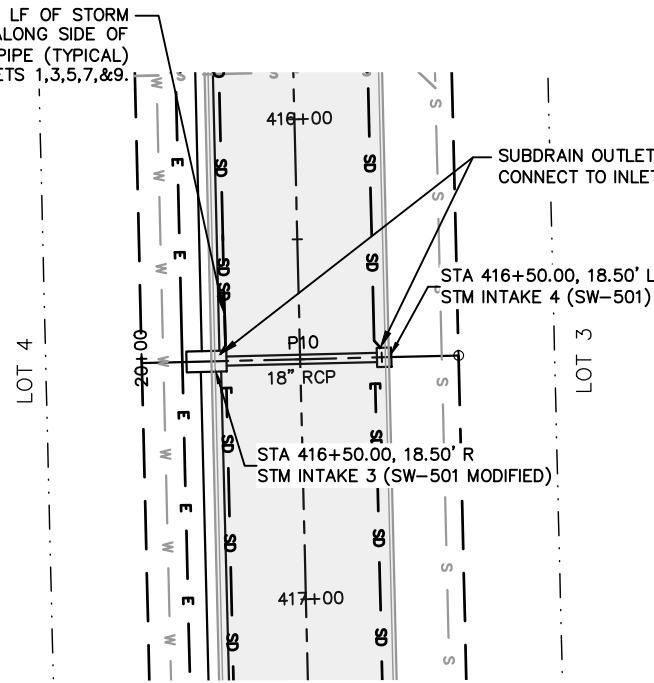
PIPE QUANTITY TABLE												
PIPE SIZE												
	15		18		30		36		42		48	
	RISE	NON RISE	RISE	NON RISE	RISE	NON RISE	RISE	NON RISE	RISE	NON RISE	RISE	NON RISE
P7		38										
P8				37								
P9		43										
P1								19				
P2								292				
P10			37									
P3									17	121		
P11			37						125			
P4									43	300		
P12			37								44	310
P5											18	126
P6												
P13			37									
P14									4	30		
P15							38					
P16						68						
TOTAL	0	81	148	37	0	68	38	311	64	451	62	436

NOTE: DRAINAGE RATIO $66/530 \pm = .125$ FOR LONGITUDINAL STORM SEWER

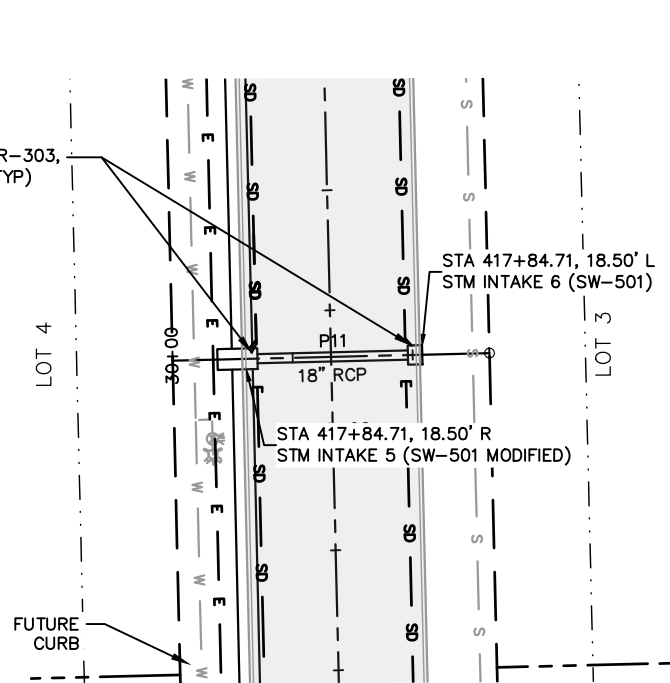
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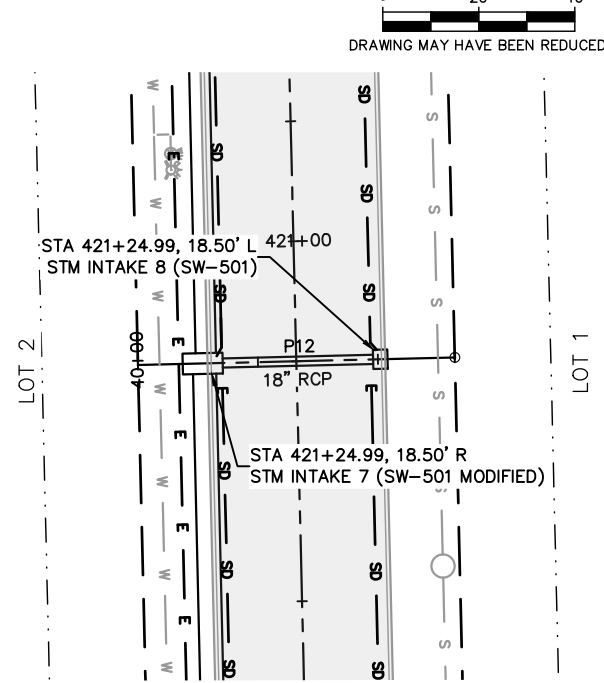
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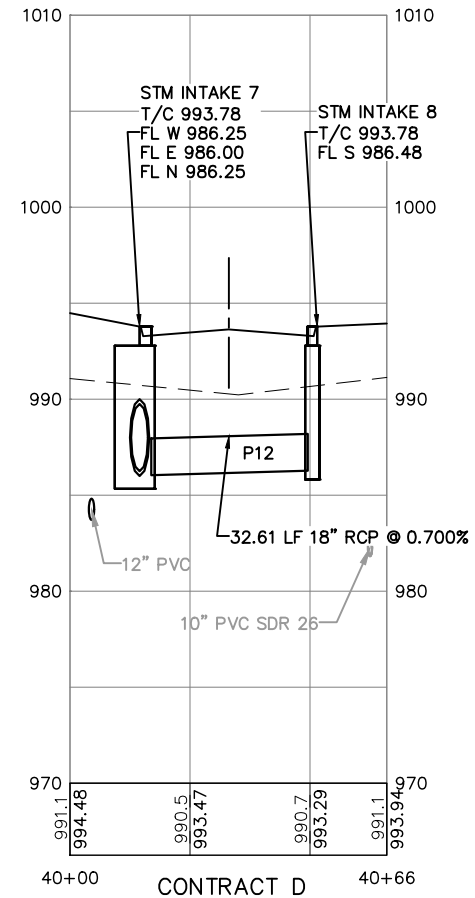
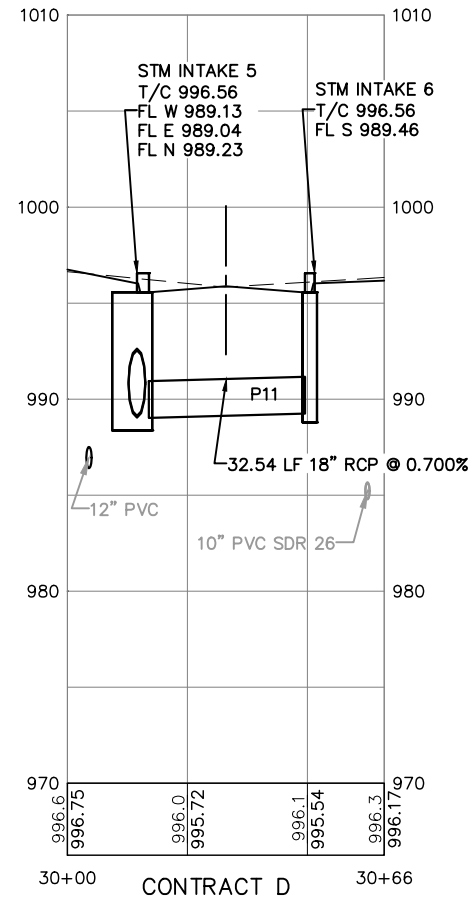
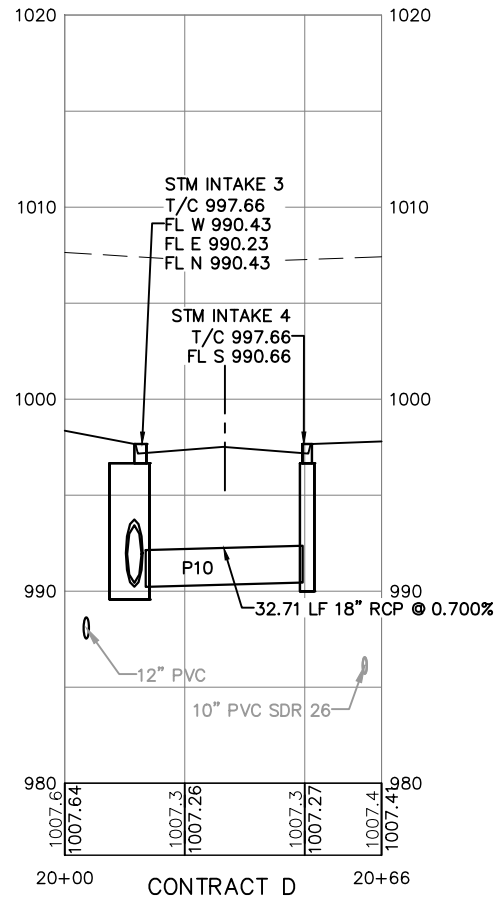
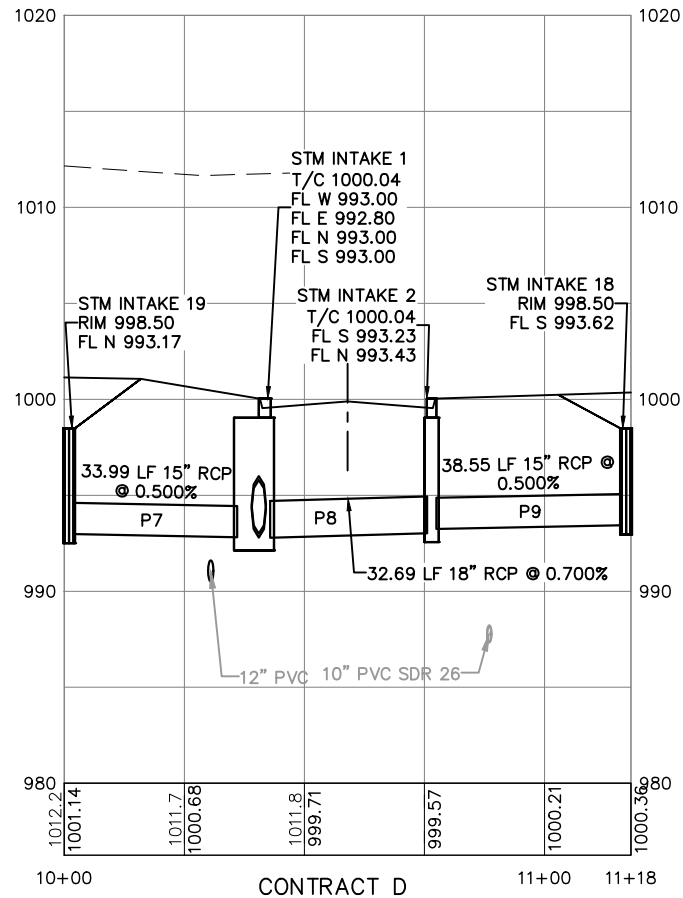
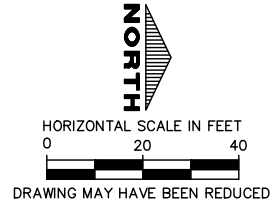
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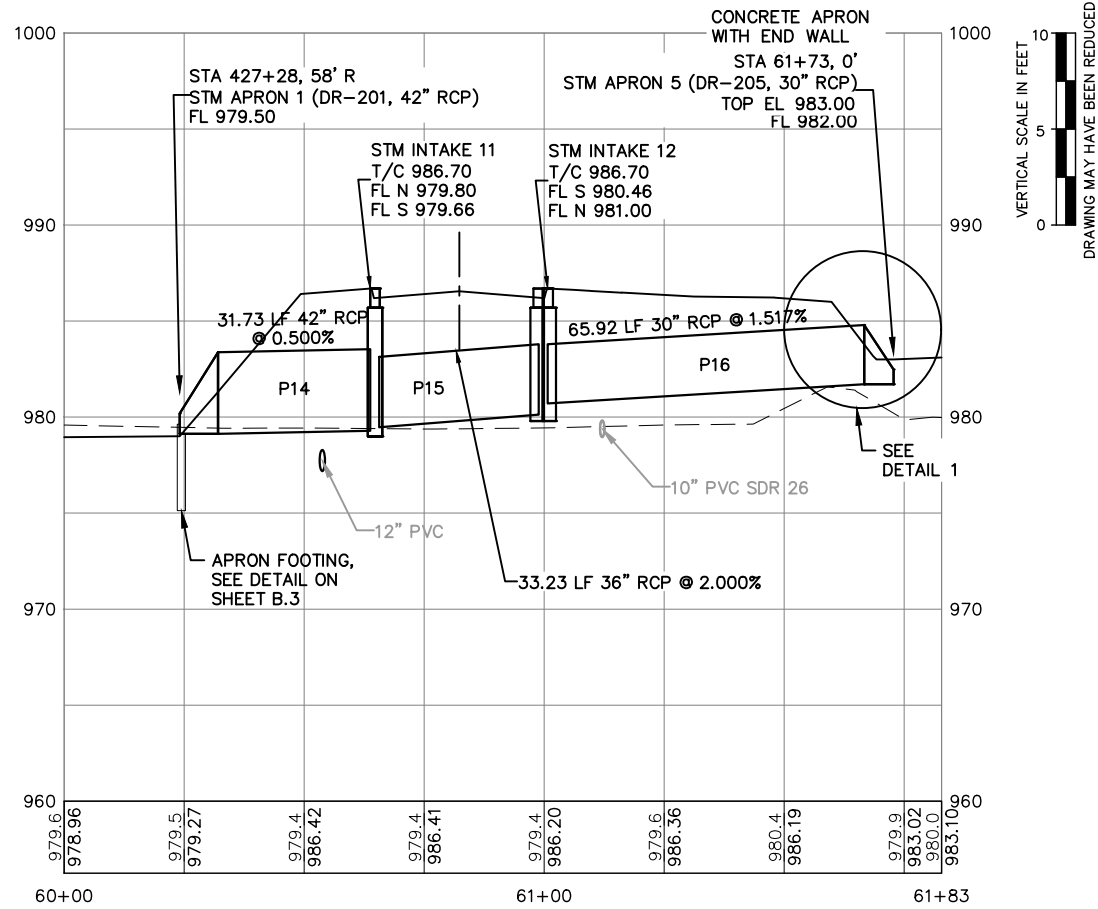
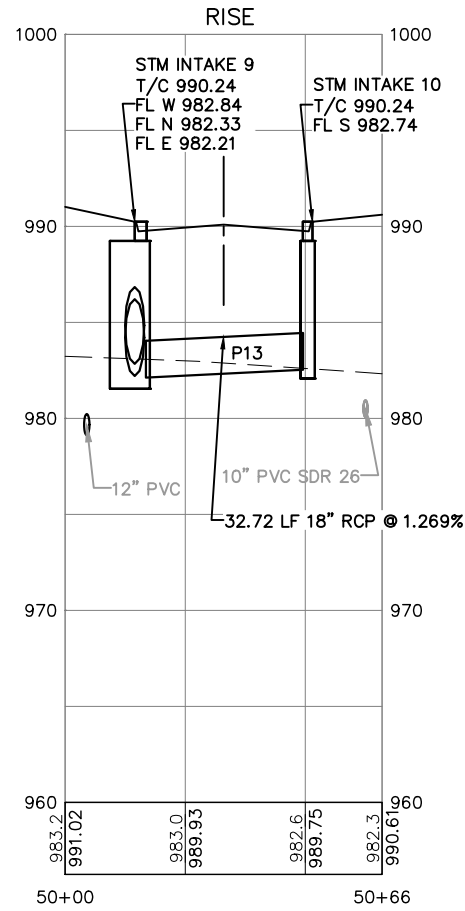
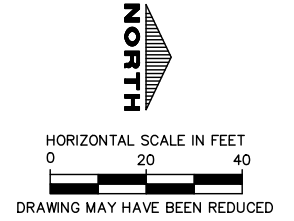
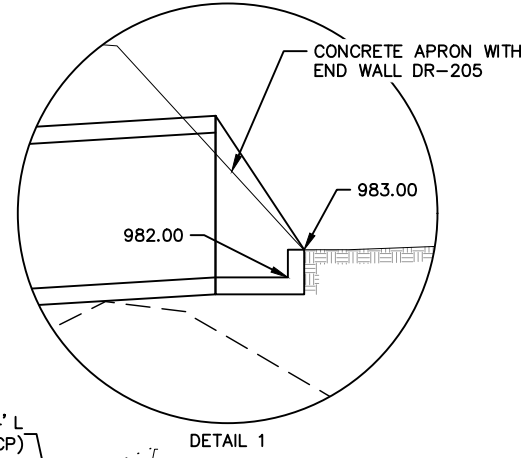
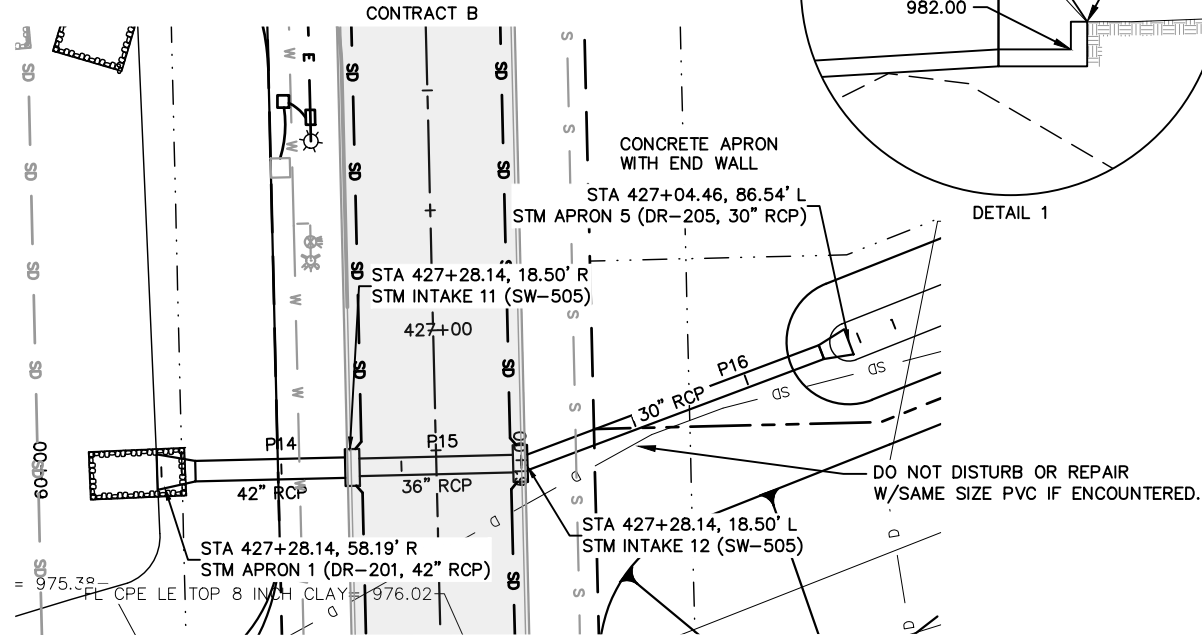
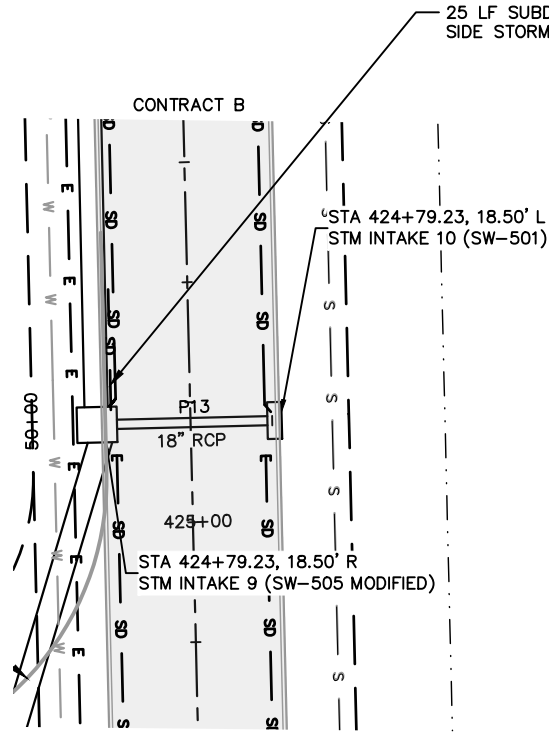


RISE



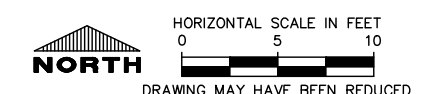
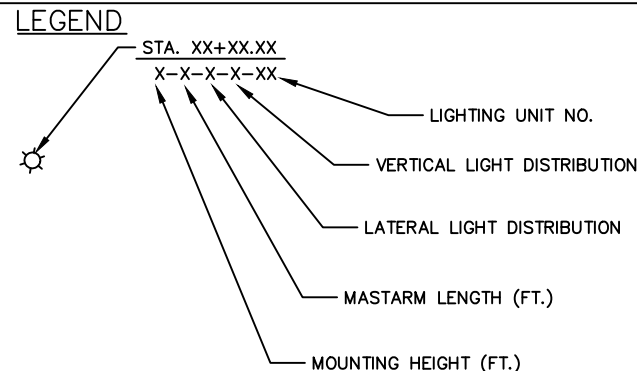
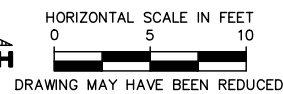
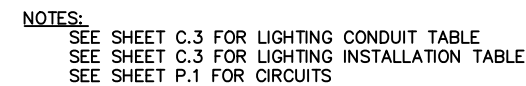
RISE





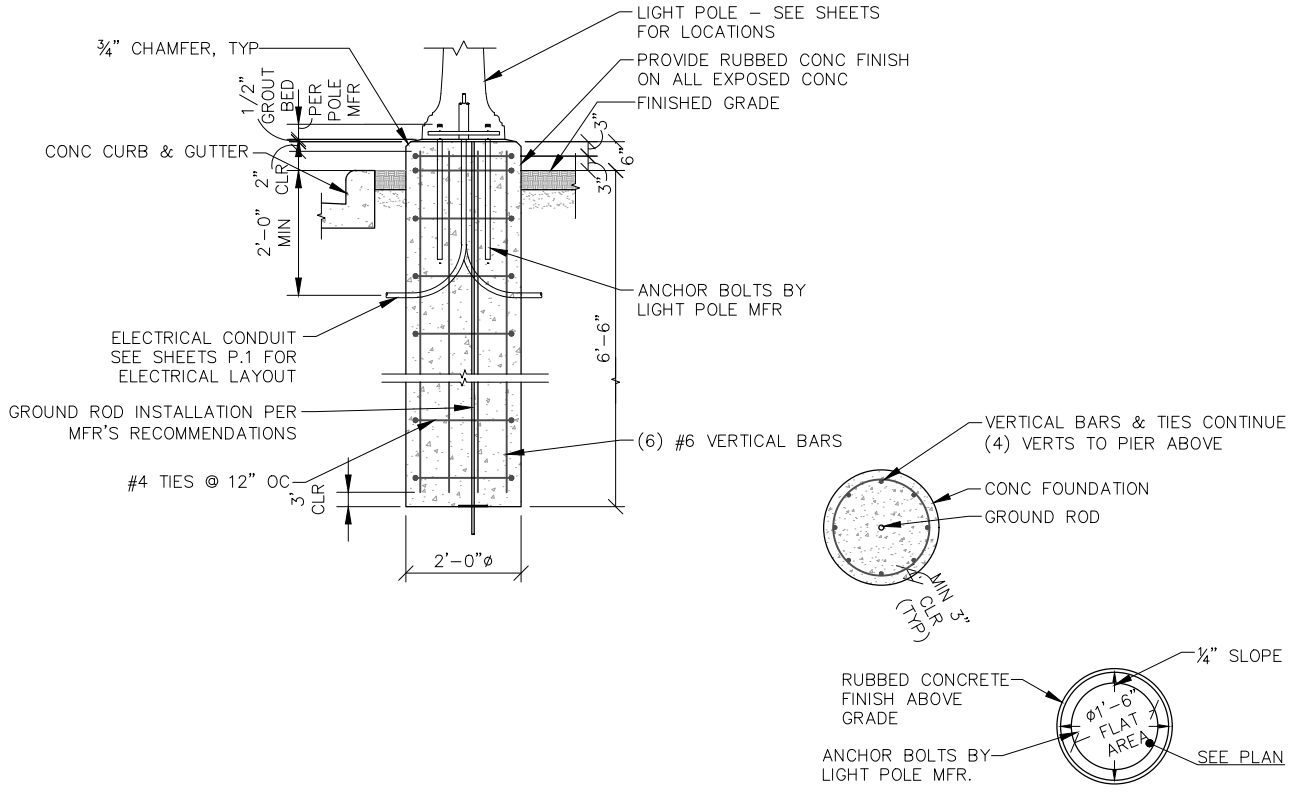
CONTRACT D

CONTRACT D



1. CONSTRUCTION SHALL CONFORM TO THE CURRENT IOWA DOT STANDARD SPECIFICATIONS, SPECIAL PROVISION AND CURRENT SUPPLEMENTAL SPECIFICATIONS FOR HIGHWAY LIGHTING, AND THE NATIONAL ELECTRIC CODE.
2. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY CABLE SPLICES, CONNECTOR ASSEMBLIES, AND FUSES AT EACH HANDHOLE OR BASE AS REQUIRED.
3. ALLIANT ENERGY WILL INSTALL A TRANSFORMER AT LOCATION SHOWN ON THE PLANS. CONTRACTOR SHALL INSTALL A COMMERCIAL GRADE WEATHERPROOF METER & CONTROLLER WITH BASE FOR SINGLE PHASE 120/240 VOLTS. PHOTOCCELL LIGHT SENSOR FOR LIGHTING CIRCUITS SHALL BE ON CONTROLLER.
4. ALL CONDUIT LENGTHS ARE MEASURED AND PAID BASED UPON THE HORIZONTAL DISTANCE FROM CENTER OF HANDHOLE TO CENTER OF HANDHOLE OR CENTER OF LIGHT BASE OR CENTER OF METER PEDESTAL. VERTICAL RUNS OF WIRE/CONDUIT ARE INCIDENTAL TO ASSOCIATED BID ITEMS.
5. CONDUIT DEPTH OF BURY FOR STREET LIGHTS SHALL BE 30". TRENCH BACKFILL WITHIN 5' OF EXISTING OR PROPOSED PAVEMENT SHALL BE MODIFIED SUBBASE TO WITHIN 6" OF FINISH GRADE OR BOTTOM OF SUBBASE. TRENCH BACKFILL OUTSIDE 5' OF EXISTING OR PROPOSED PAVEMENT MAY BE INSITU MATERIAL ADEQUATELY COMPACTED.

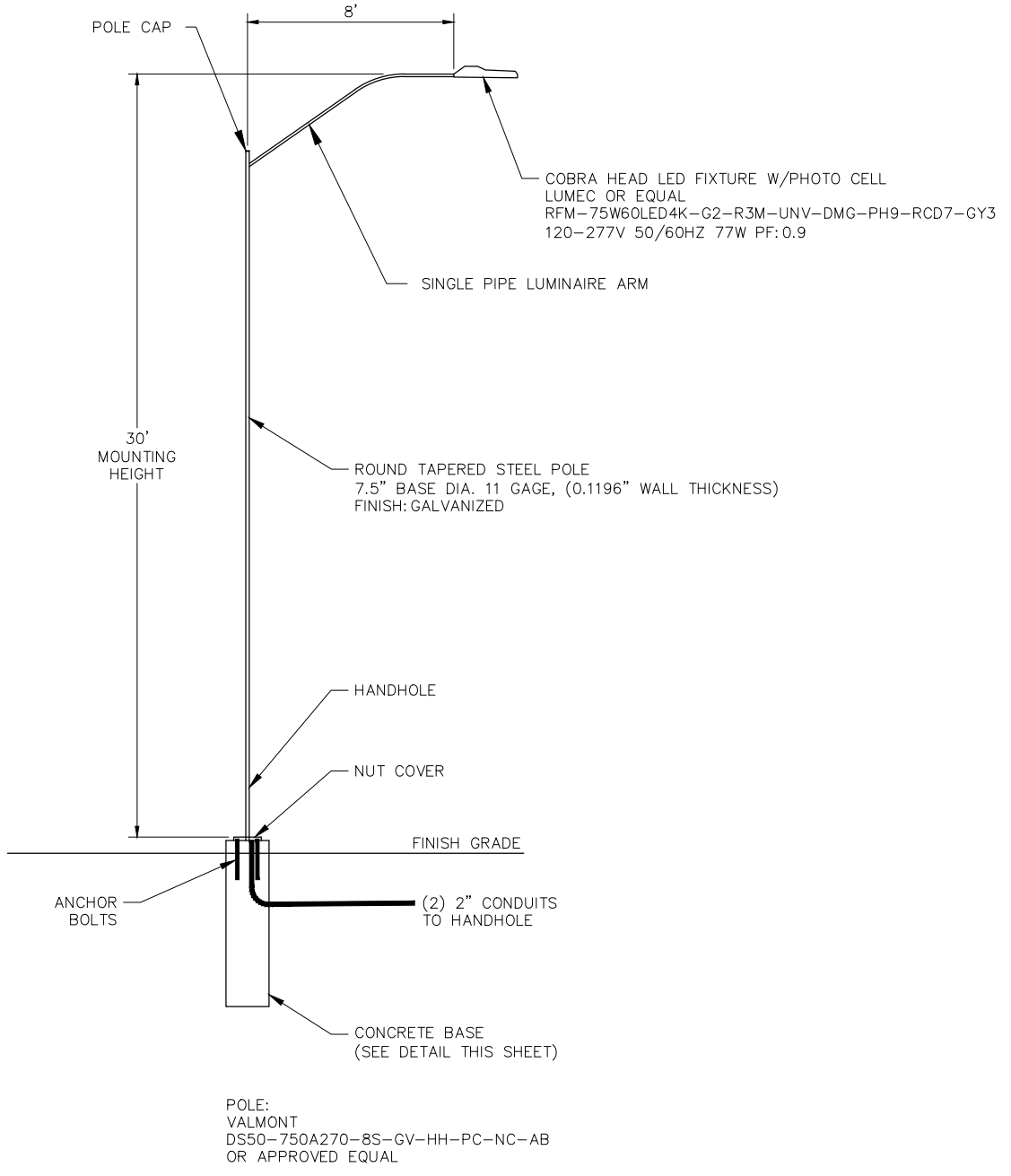
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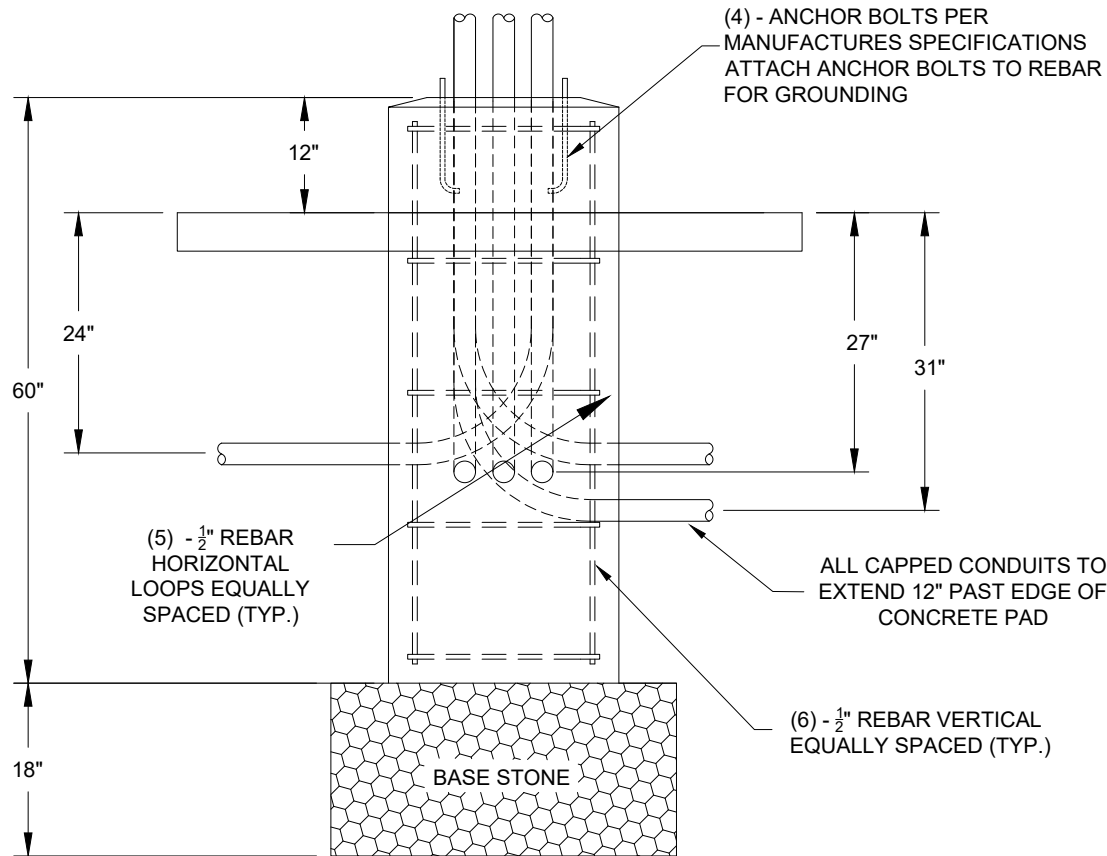
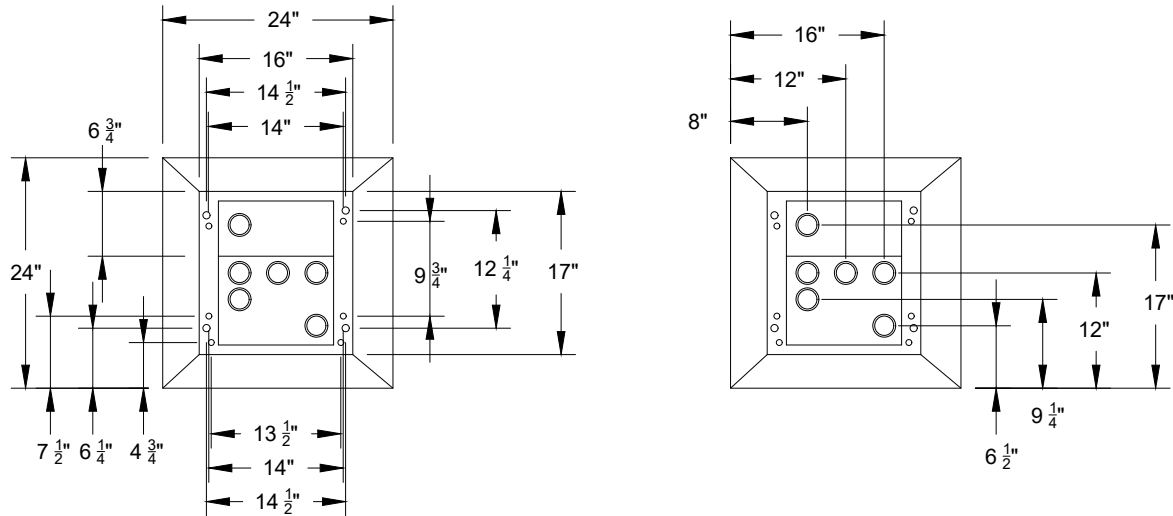
1 STREET LIGHT FOUNDATION DETAIL
P.2 NOT TO SCALE

NOTE

1. STREET LIGHT FOUNDATION SHALL BE 24" DIAMETER BY 84" DEEP PRECAST CONCRETE BASE BY IOWA BASE, INC. OR EQUIVALENT AND IS CONSIDERED INCIDENTAL TO STREET LIGHT.
2. FOUNDATION SHOULD INCLUDE ACCESS HOLES FOR SEPARATE 2" CONDUITS AS SHOWN ON PLANS CONNECTING TO POLE.
3. GROUND ROD IS TO BE PER MANUFACTURER'S RECOMMENDATION AND IS CONSIDERED INCIDENTAL TO STREET LIGHT



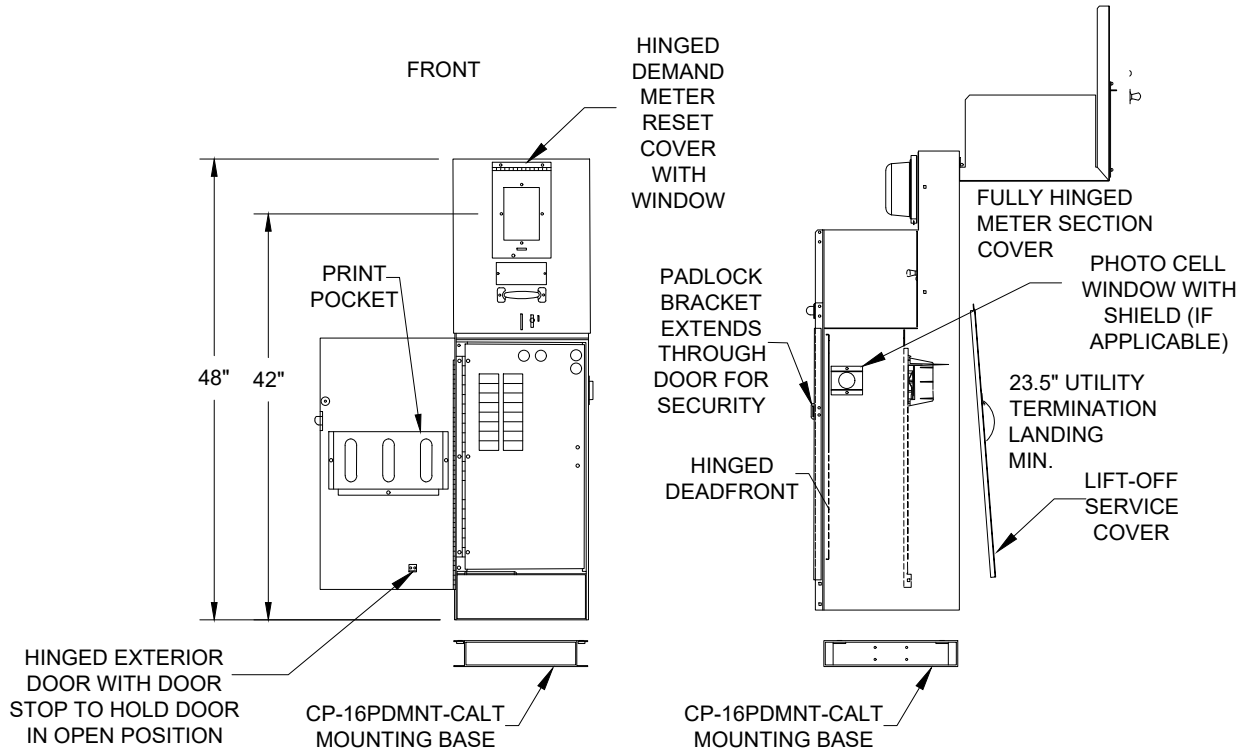
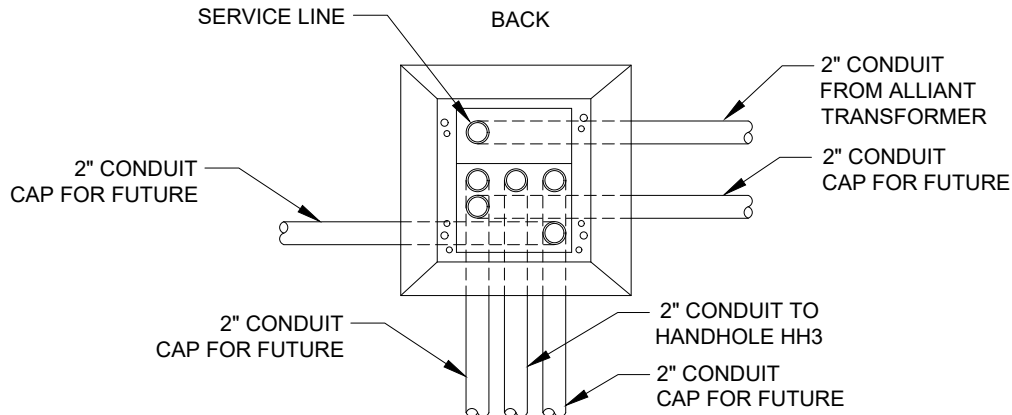
2 STREET LIGHT DETAIL
P.2 NOT TO SCALE



NOTE:
A GRADED STONE BASE SHALL
BE USED UNDER THE PC CONCRETE
SLAB AS DEEMED NECESSARY
BY THE ENGINEER.

NOTE:
ALL REINFORCING STEEL SHALL
REMAIN 2.5" FROM ALL SIDES OF
CONTROLLER FOUNDATION.

FOUNDATION DETAIL



METER & CABINET DETAIL

ALLIANT ENERGY COORDINATION:

SERVING UTILITY: ALLIANT ENERGY - ENGINEERING CONTACT PERSON: CHAD MEIER 563-587-4564

TRANSFORMER: ALLIANT ENERGY WILL PROVIDE A PAD MOUNTED TRANSFORMER NEAR THE LOCATION OF THE SERVICE CONNECTION INDICATED ON PLAN SHEET P.1. ALLIANT ENERGY WILL PROVIDE CONNECTION FROM THE TRANSFORMER TO THE CONTROLLER.

TYPE OF SERVICE:

THE SERVICE WILL BE 120/240 VOLT, 100 AMP, SINGLE PHASE, GROUNDED AND WILL BE RUN UNDERGROUND FROM A NEW ALLIANT ENERGY SERVICE/METER. THE CONTRACTOR SHALL PROVIDE AND INSTALL CONDUCTORS OF THE PROPER SIZE FROM THE LIGHTING PANEL TO THE SERVICE/METER. THIS SHALL BE DONE SO AS TO COMPLY WITH THE LATEST PROVISIONS OF THE ALLIANT ENERGY "ELECTRIC SERVICE RULES, CHAPTER 6, SECTION 616".

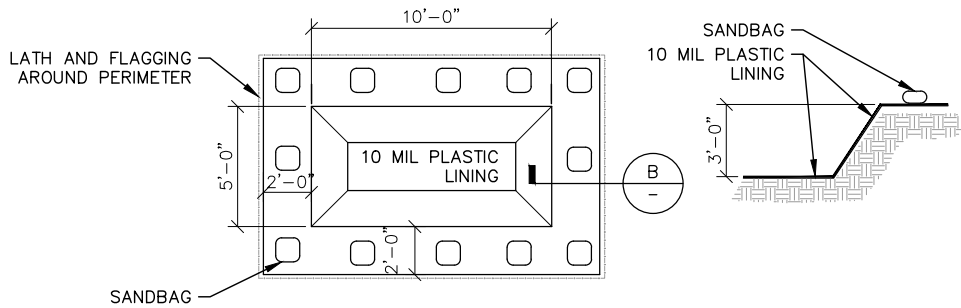
ENGINEERING CONTACT PERSON: JON LUTZ, PROJECT ENGINEER, ORIGIN DESIGN, 563-556-2464

CONTRACTOR: THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING AND INSTALLING ALL CONDUIT AND CONDUCTORS TO THE VARIOUS LOCATIONS AS SHOWN ON THE PLANS OR AS DESCRIBED HEREIN. THE CONTRACTOR SHALL COORDINATE THE PLACEMENT OF THE SERVICE CONDUCTOR AND THE METERING EQUIPMENT WITH ALLIANT ENERGY, AND PROVIDE FOR THESE REQUIREMENTS AS PART OF THEIR CONTRACT. ALL UNDERGROUND BENDS SHALL BE SWEEP TYPE. ALL WIRING SHALL BE COPPER.

CODE: ALL WORK SHALL CONFORM TO NEC AND ANY LOCAL OR STATE ORDINANCES.

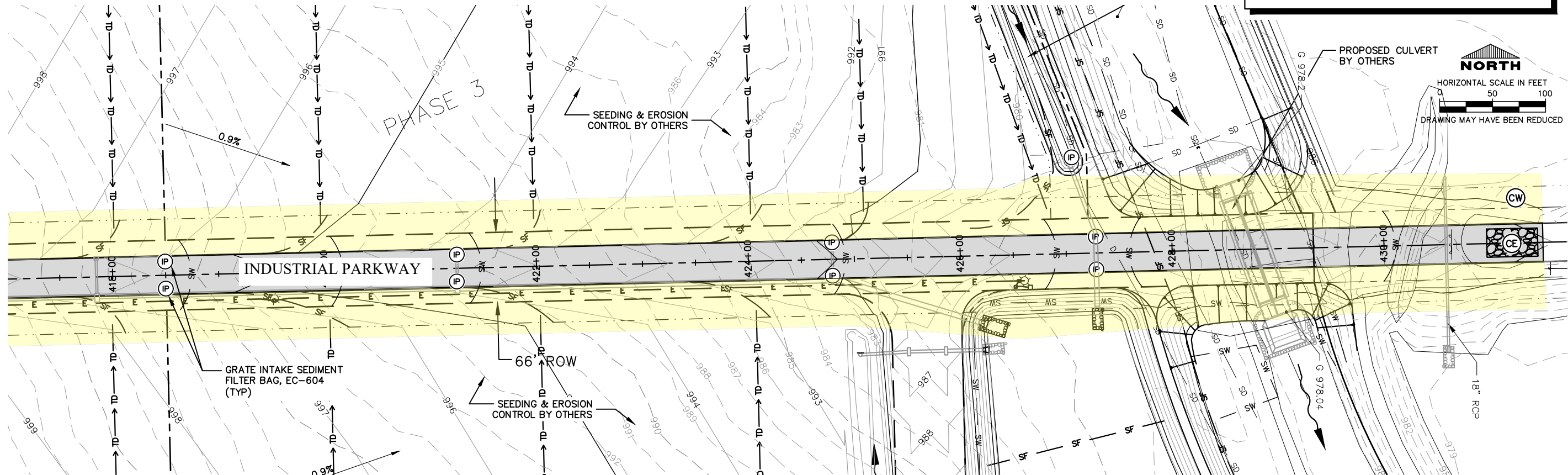
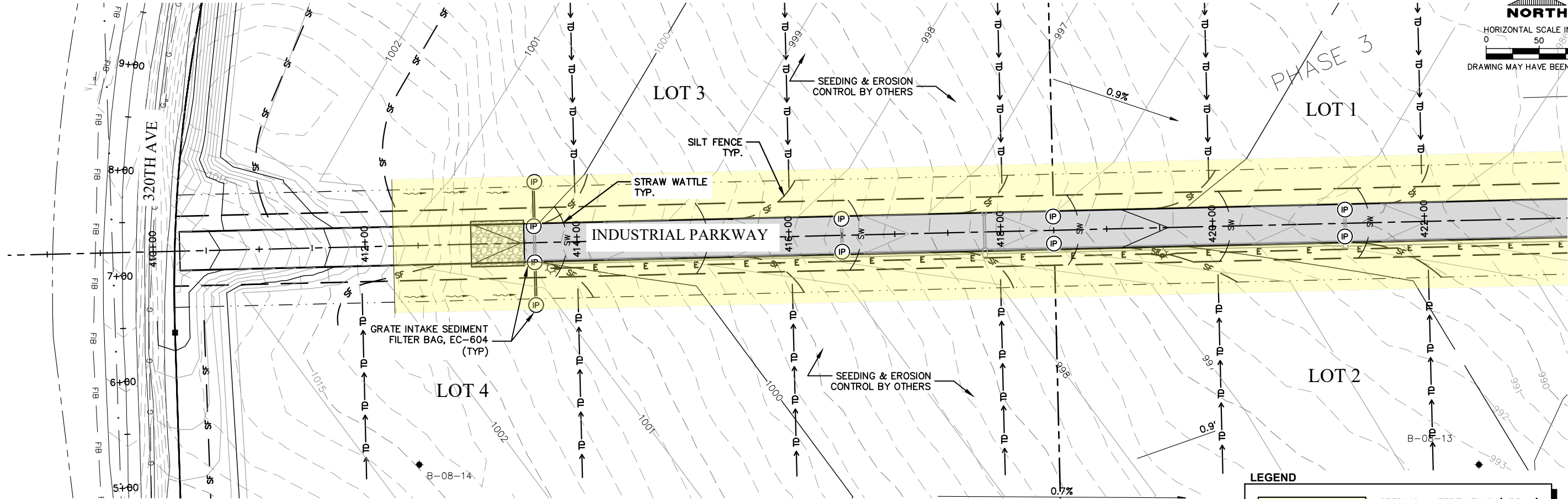
CONSTRUCTION COORDINATION: THE CONTRACTOR SHALL COORDINATE ALL ELECTRICAL WORK WITH ALLIANT ENERGY AND THE CITY OF DYERSVILLE.

REFERENCE PLANS AND SPECIFICATIONS: THE ELECTRICAL CONTRACTOR SHOULD REVIEW THE FOLLOWING PLAN SHEETS AND SPECIFICATIONS: PLAN SHEETS P.1-P.3, C.1-C.3.

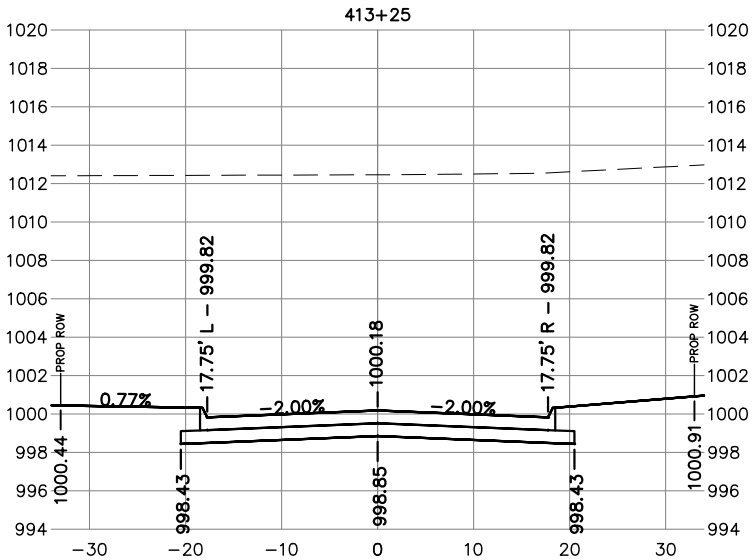
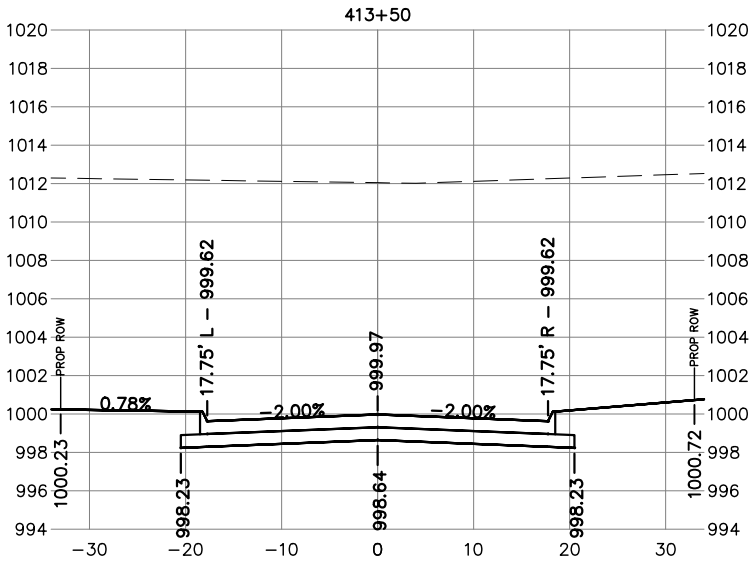
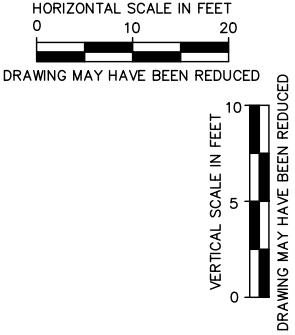


6 **TEMPORARY CONCRETE WASHOUT**
RR.1 NOT TO SCALE

- NOTES:
1. WASHOUT FACILITY SHALL NOT BE LOCATED WITHIN 50 FEET OF STORM DRAINS, OPEN DITCHES OR WATERBODIES.
 2. WASHOUT FACILITIES MUST BE CLEANED OR NEW FACILITIES CONSTRUCTED ONCE THE FACILITY IS 75% FULL. HARDENED CONCRETE SHALL BE REMOVED AND DISPOSED OF. IF THE FACILITY IS TO BE REUSED, LINE THE STRUCTURE WITH NEW 10 MIL POLYETHYLENE SHEETING FREE OF HOLES OR TEARS.
 3. A SIGN SHALL BE POSTED ADJACENT TO THE FACILITY TO INFORM CONCRETE EQUIPMENT OPERATORS OF THE FACILITY OR THE JOB SITE SUPERINTENDENT SHALL ENSURE THAT CONCRETE EQUIPMENT OPERATORS USE THE WASHOUT FACILITY.
 4. IF NECESSARY, A CRUSHED STONE PATH SHALL BE CONSTRUCTED TO PROVIDE EASE OF ACCESS FOR EQUIPMENT.
 5. WHEN THE FACILITY IS NO LONGER REQUIRED, THE HARDENED CONCRETE SHALL BE REMOVED AND DISPOSED OF, THE MATERIALS USED TO CONSTRUCT THE FACILITY SHALL BE REMOVED, AND THE HOLE BACKFILLED AND THE SURROUNDING AREA REPAIRED.




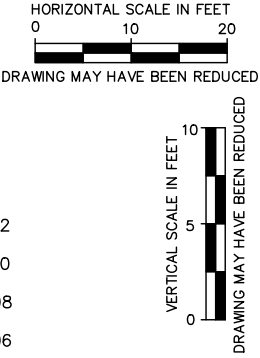
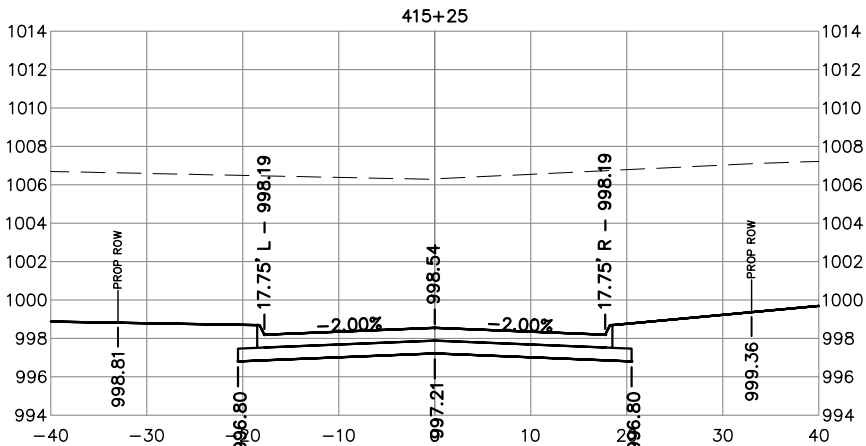
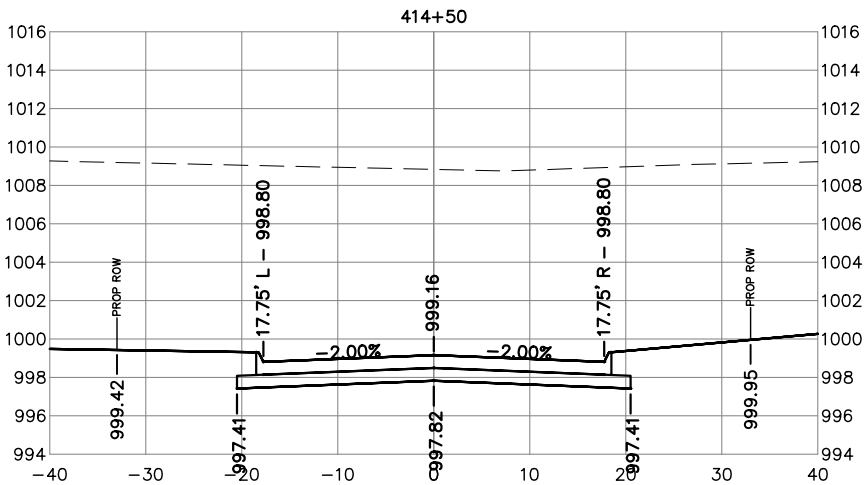
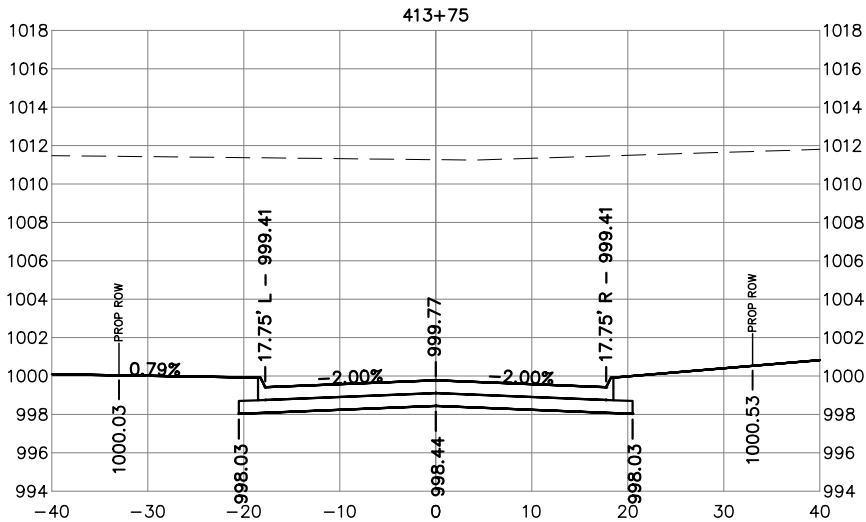
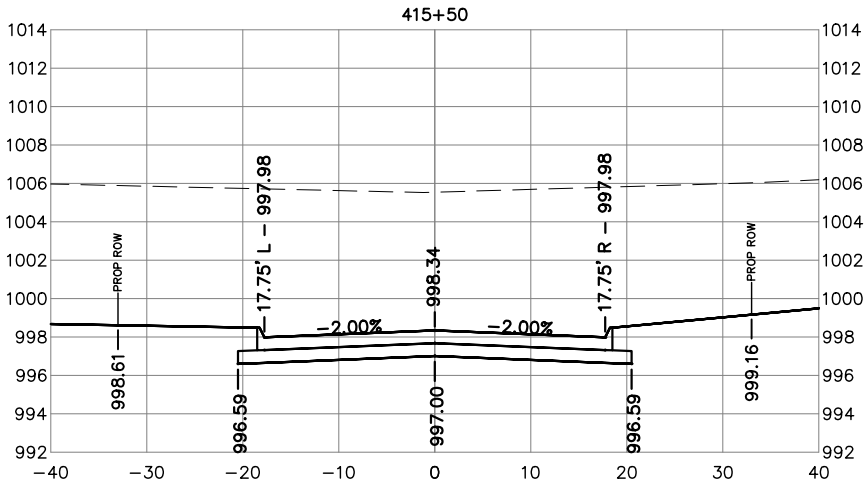
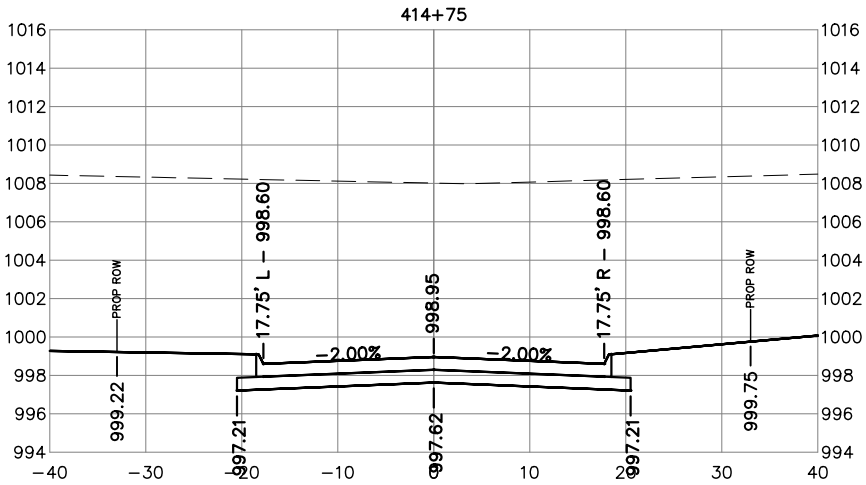
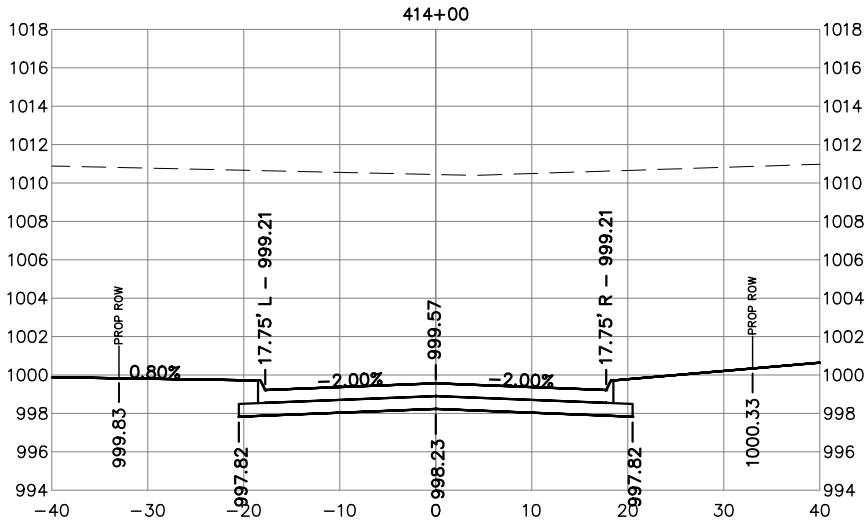
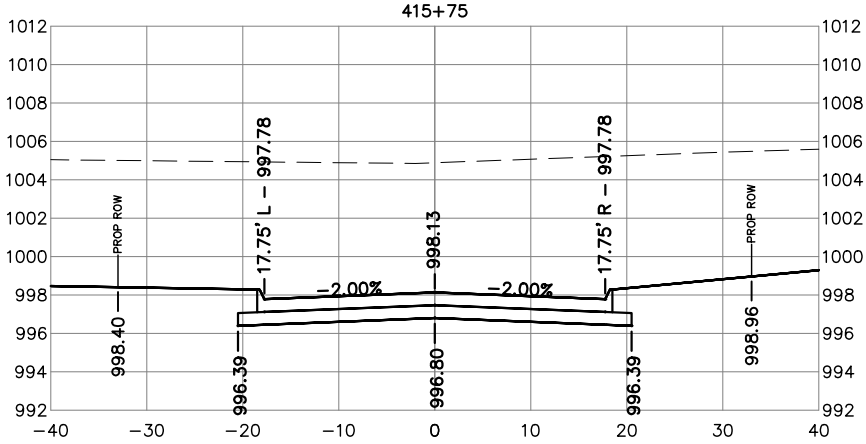
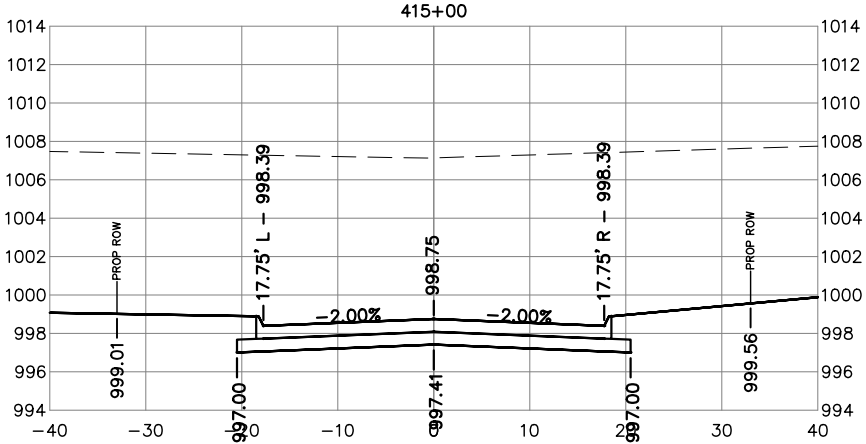
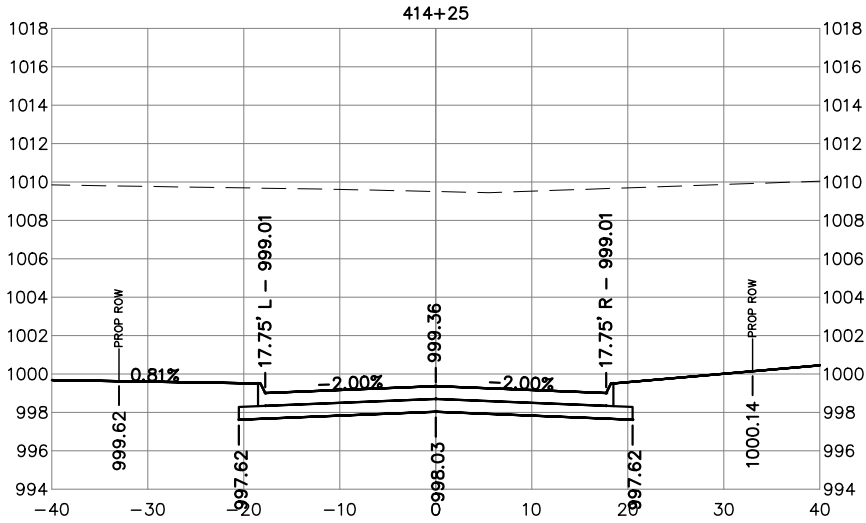
- NOTES:
- 1. SITE HAS BEEN GRADED TO FINAL CONTOURS INCLUDING AT CULVERT AREA.
 - 2. DIRT SUBGRADE HAS BEEN COMPACTED AND ROUGH TRIMMED TO 1" HIGH TO 3' OUTSIDE CURB IN 2023.



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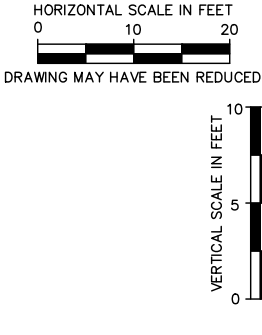
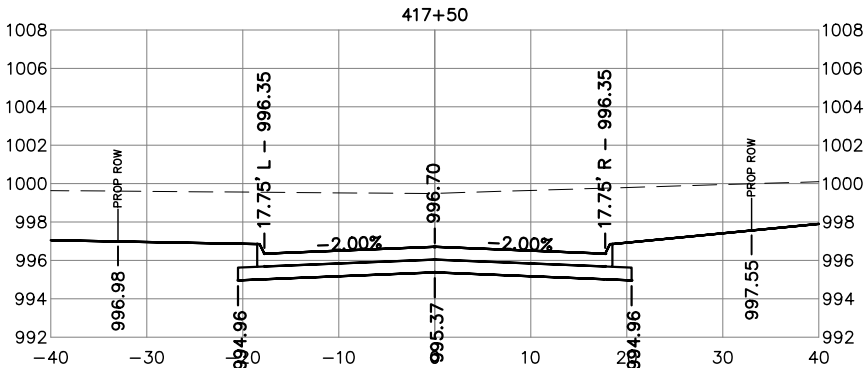
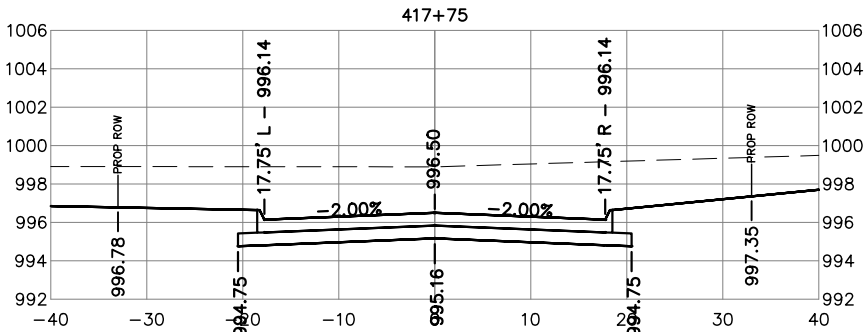
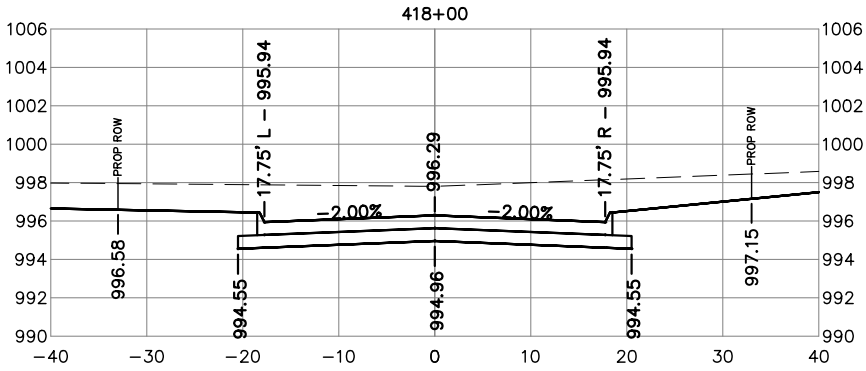
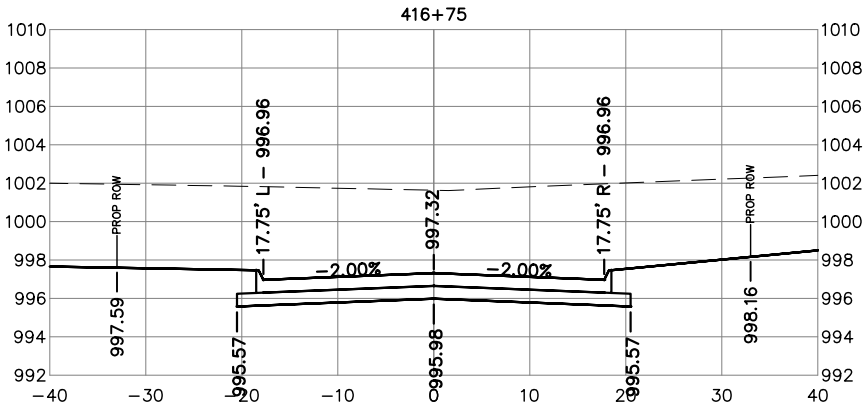
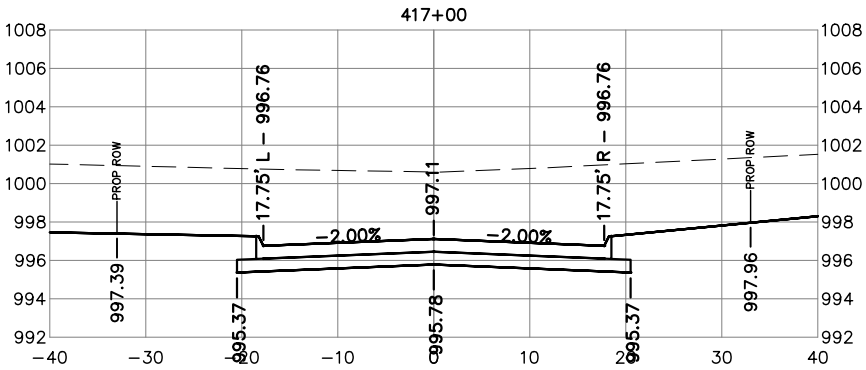
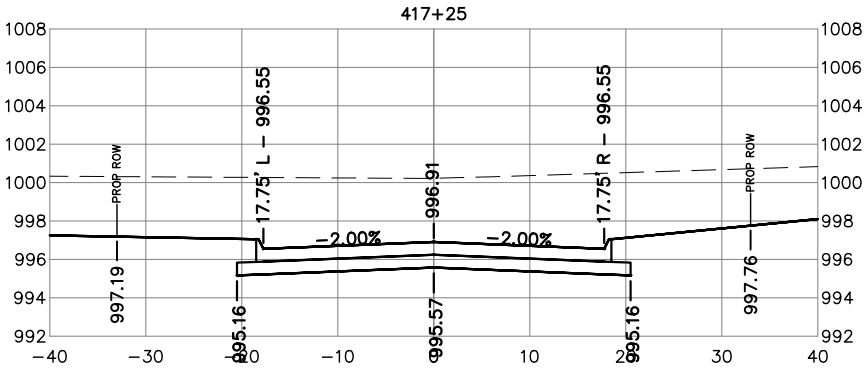
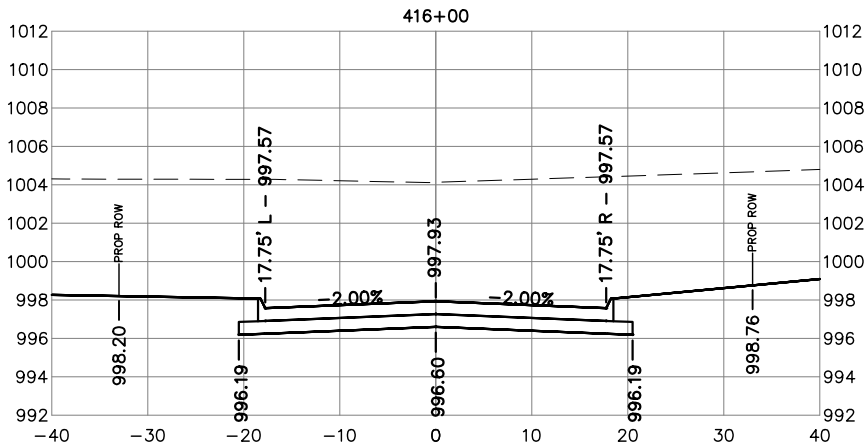
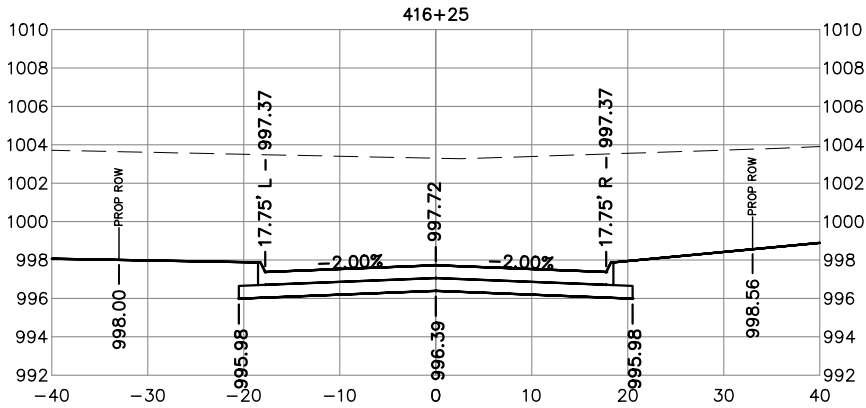
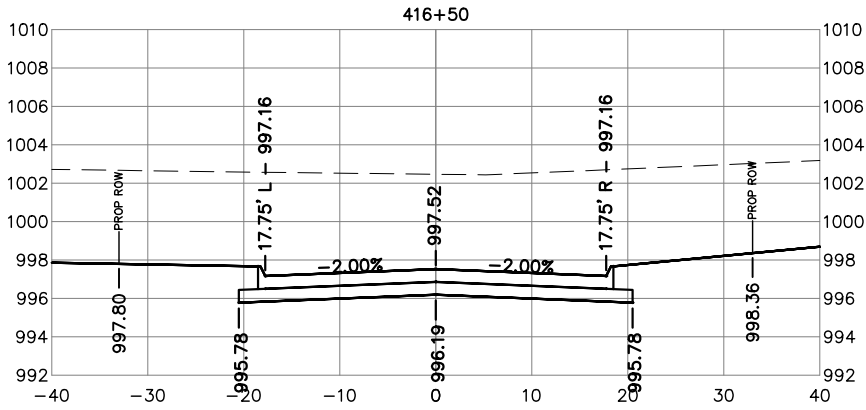
RM-2160(618)--9D-31


PROJECT NUMBER	RM-2160(618)--9D-31	20 WEST INDUSTRIAL CENTER - PHASE 3 - CONTRACT D	 800 556-4491	CITY OF DYERSVILLE - DELAWARE COUNTY	CROSS SECTIONS	03-19-24	W.2
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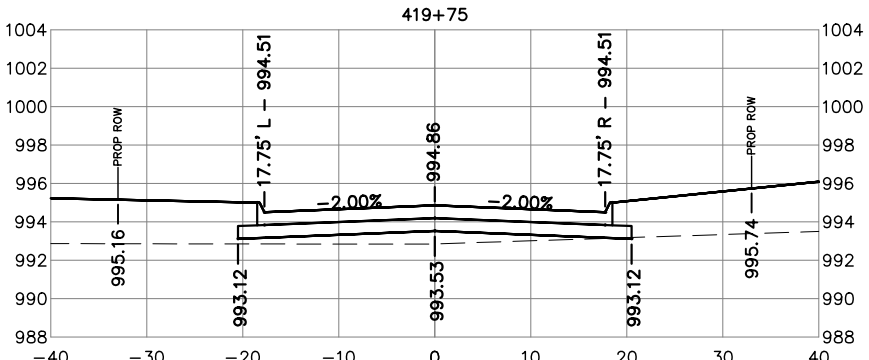
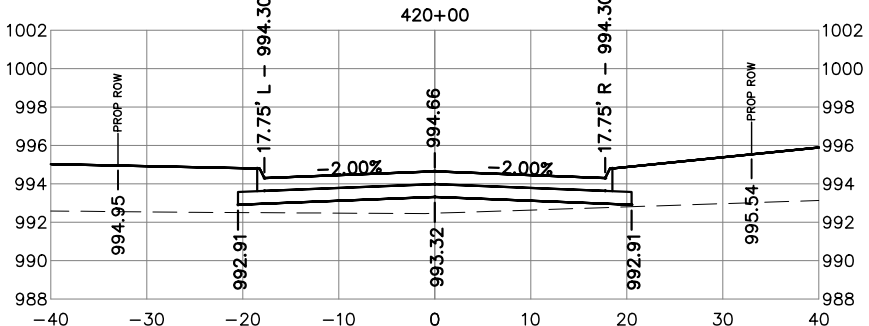
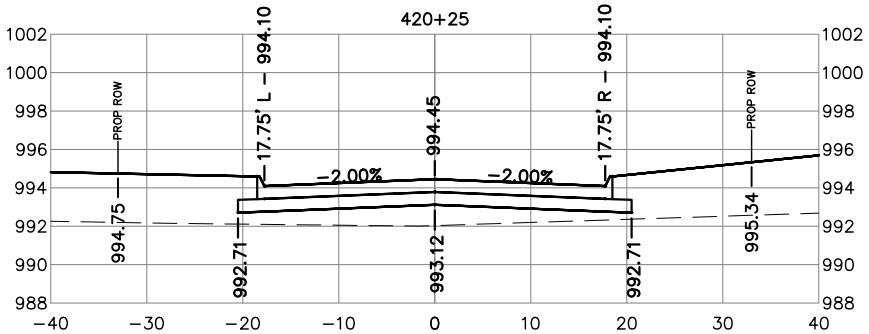
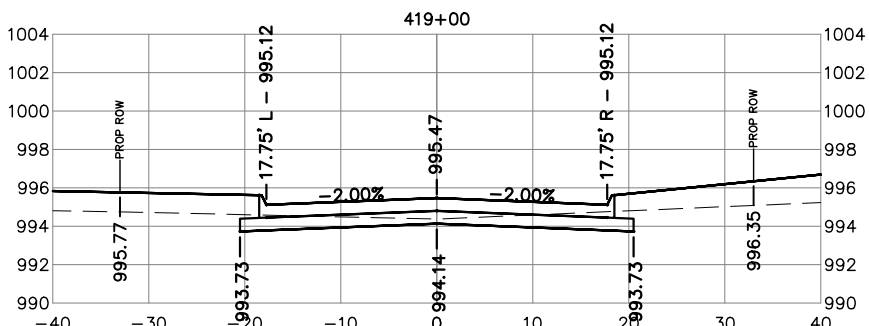
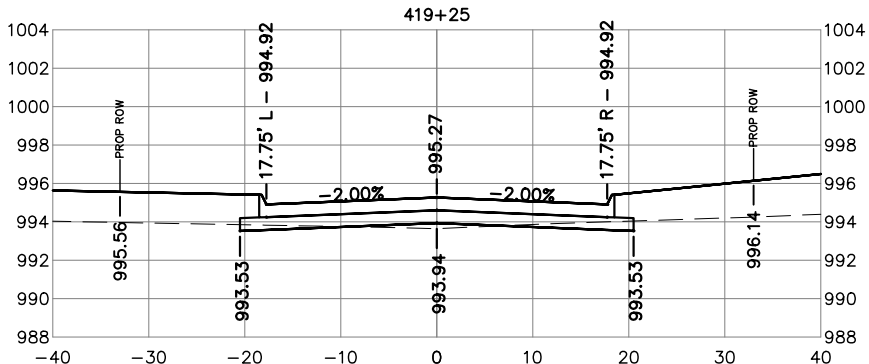
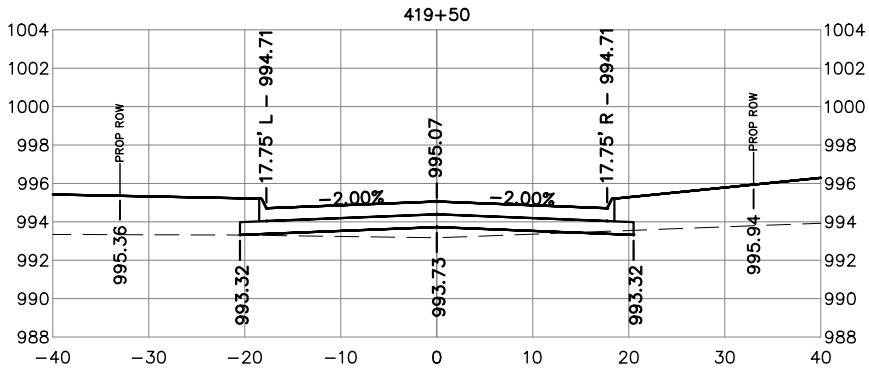
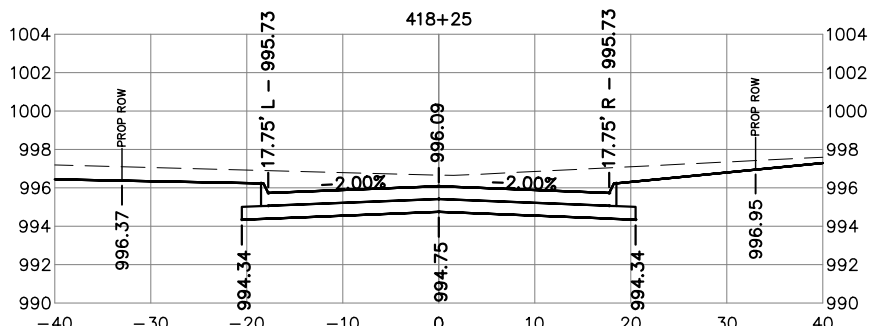
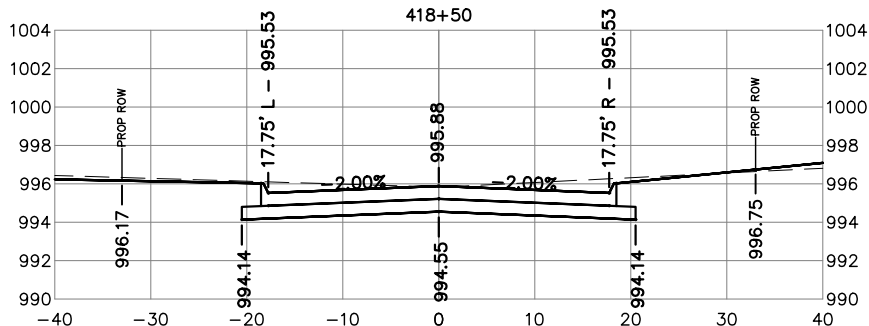
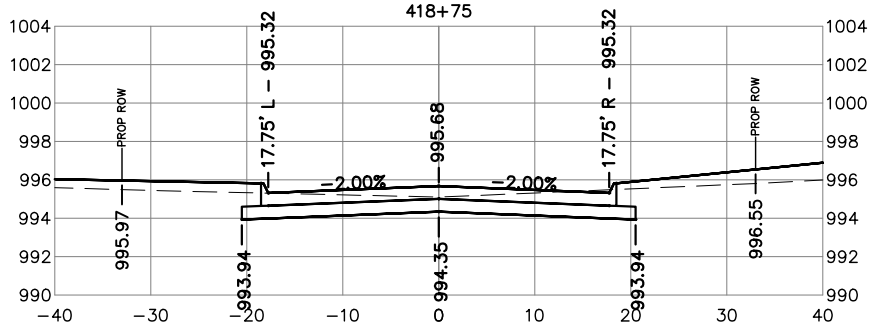
RM-2160(618)--9D-31



PROJECT NUMBER	RM-2160(618)--9D-31	20 WEST INDUSTRIAL CENTER - PHASE 3 - CONTRACT D	 800 556-4491	CITY OF DYERSVILLE - DELAWARE COUNTY	CROSS SECTIONS	03-19-24	W.3
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RM-2160(618)--9D-31



HORIZONTAL SCALE IN FEET
0 10 20
DRAWING MAY HAVE BEEN REDUCED

VERTICAL SCALE IN FEET
0 5 10
DRAWING MAY HAVE BEEN REDUCED

PROJECT NUMBER

RM-2160(618)--9D-31

20 WEST INDUSTRIAL CENTER - PHASE 3 - CONTRACT D

origin 800 556-4491

CITY OF DYERSVILLE - DELAWARE COUNTY

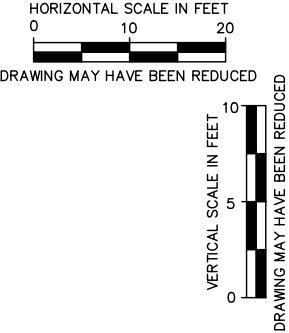
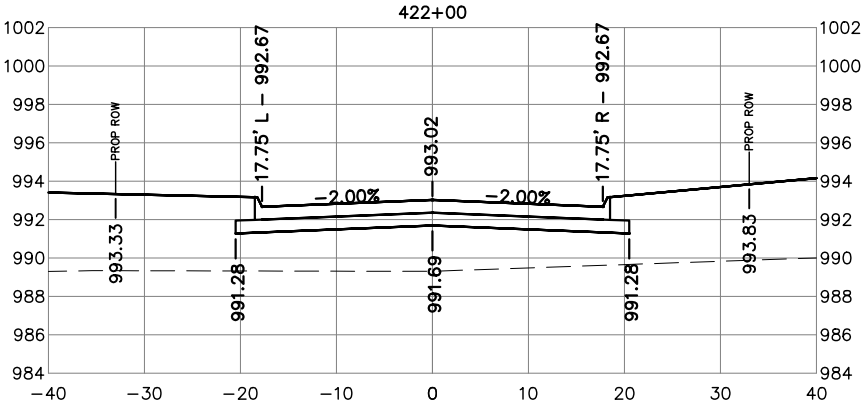
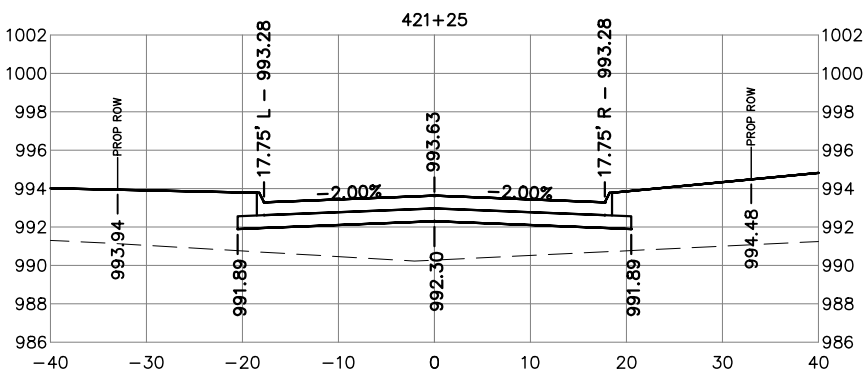
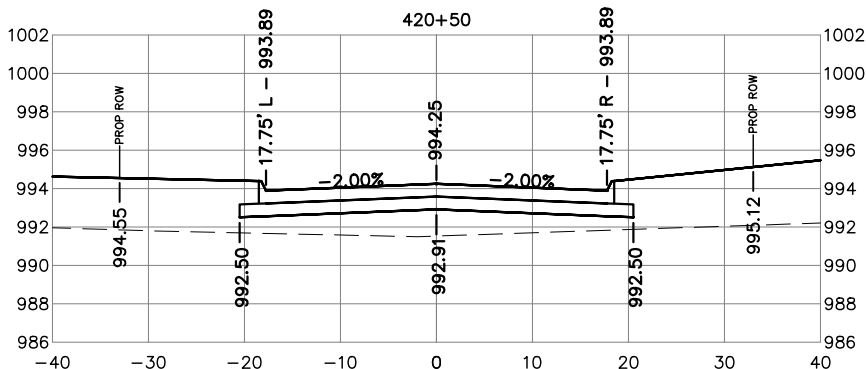
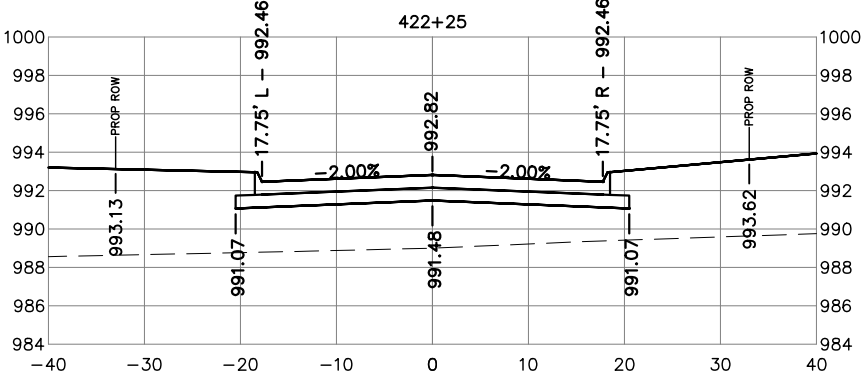
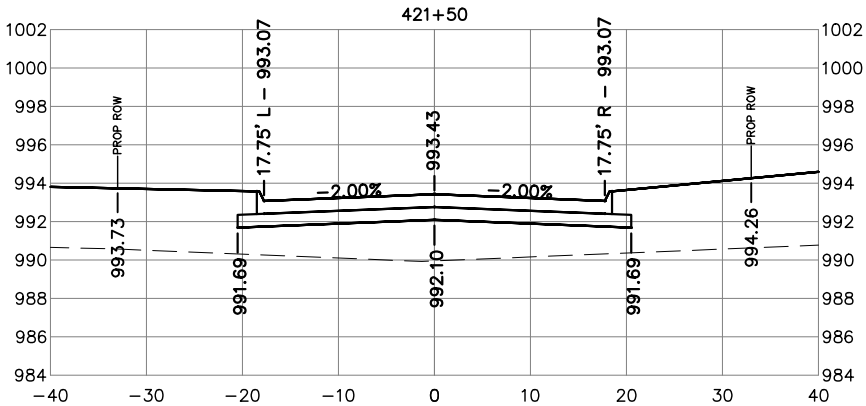
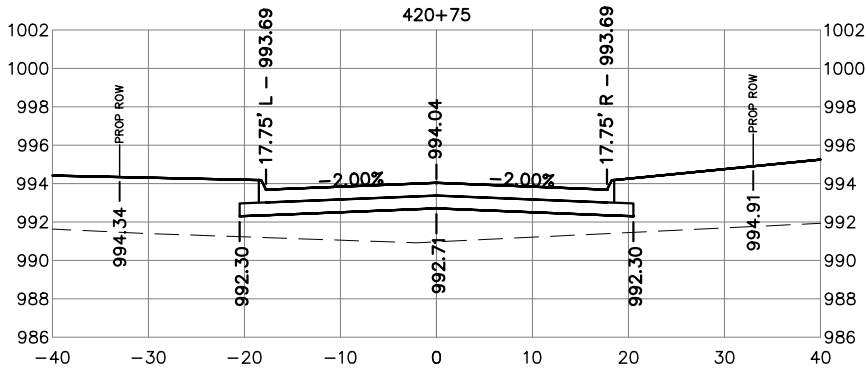
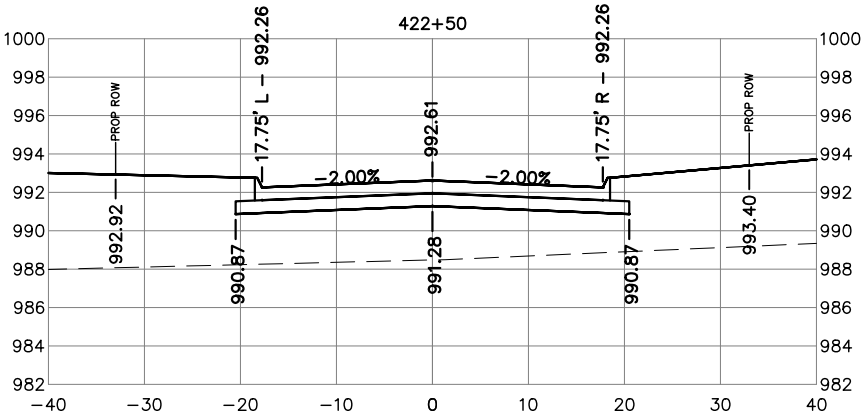
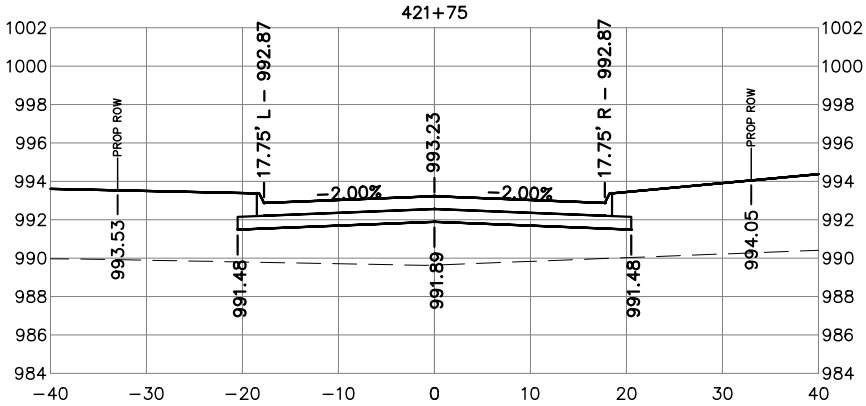
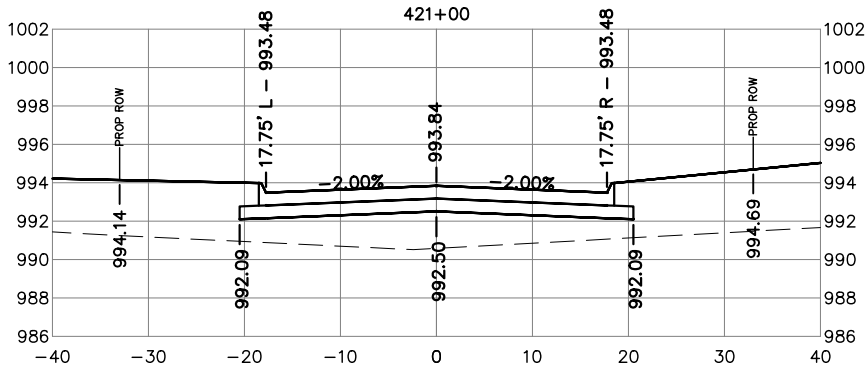
CROSS SECTIONS

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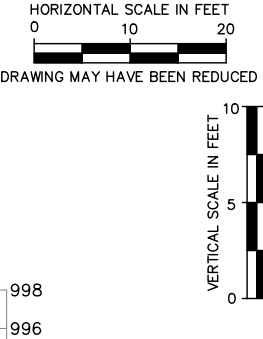
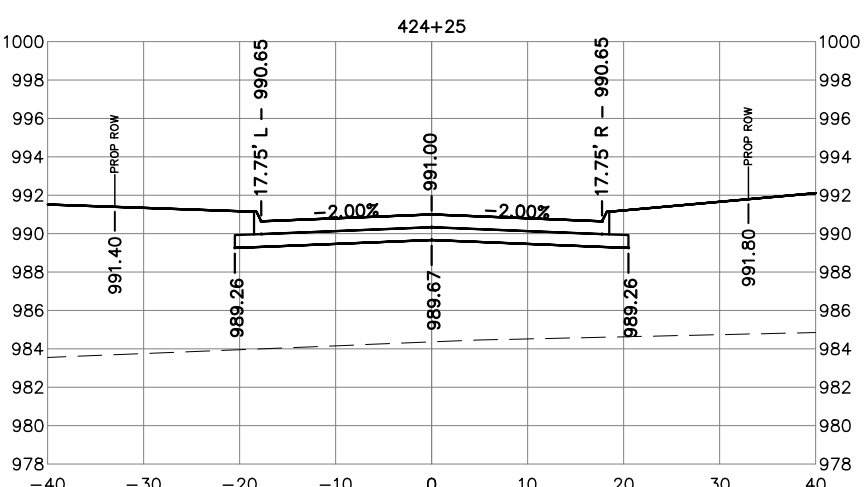
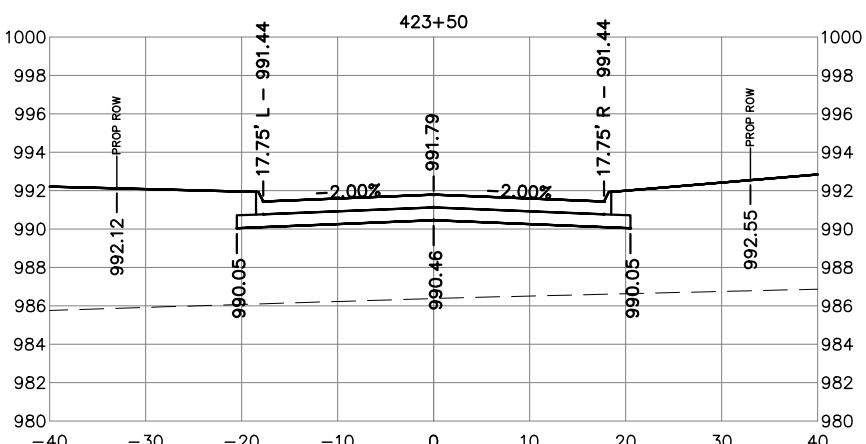
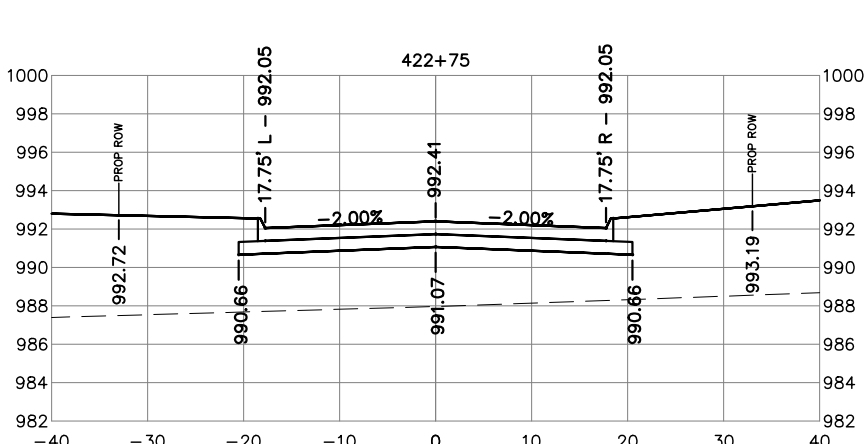
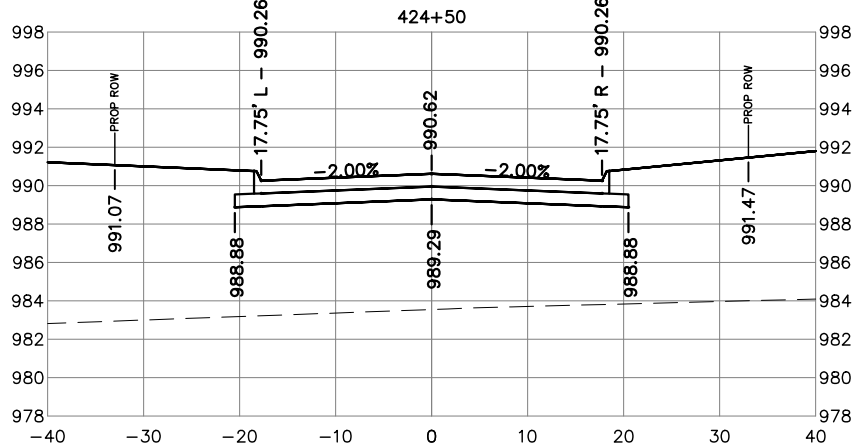
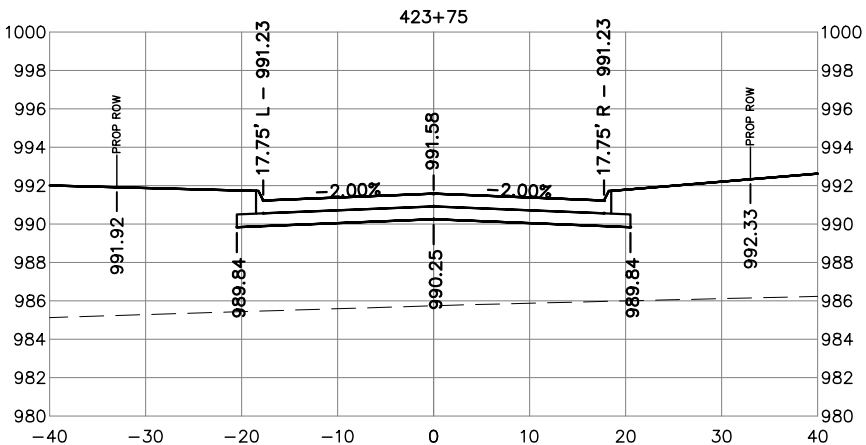
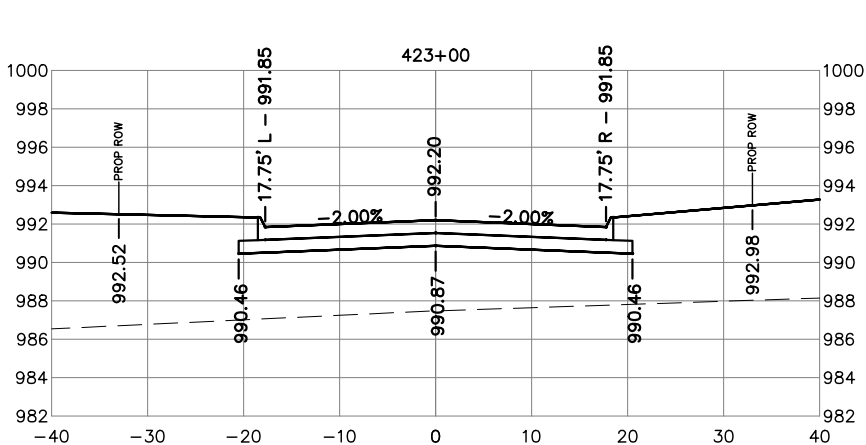
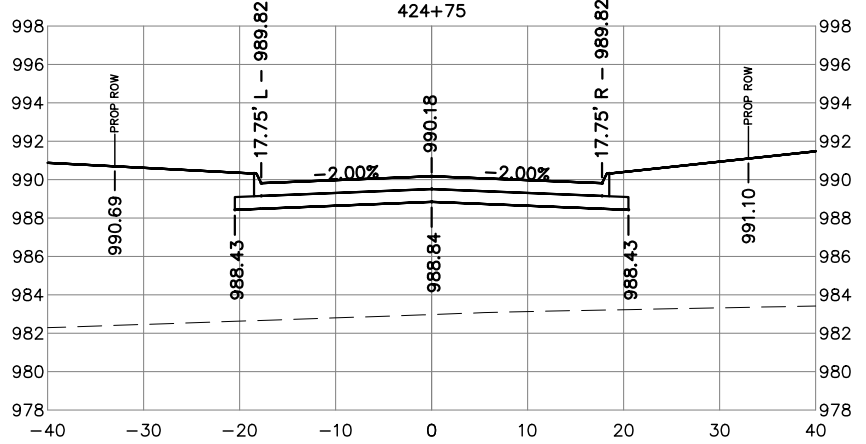
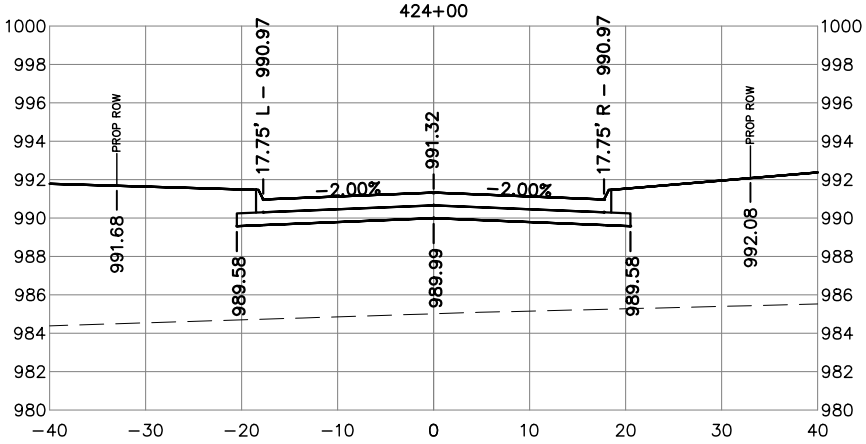
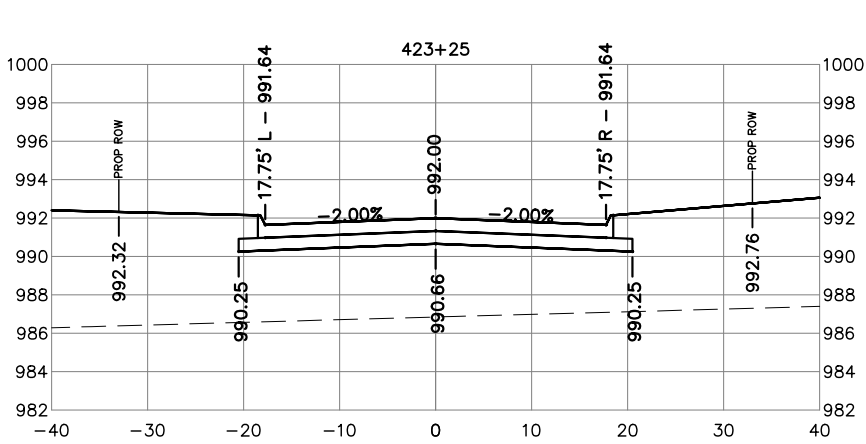
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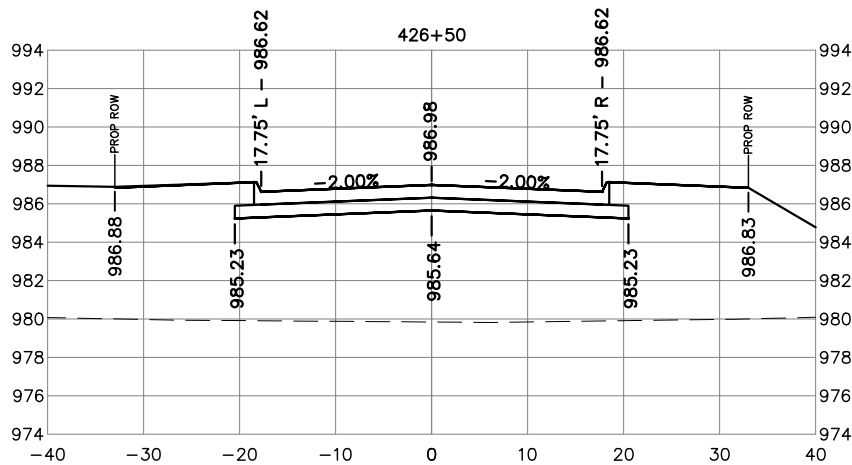
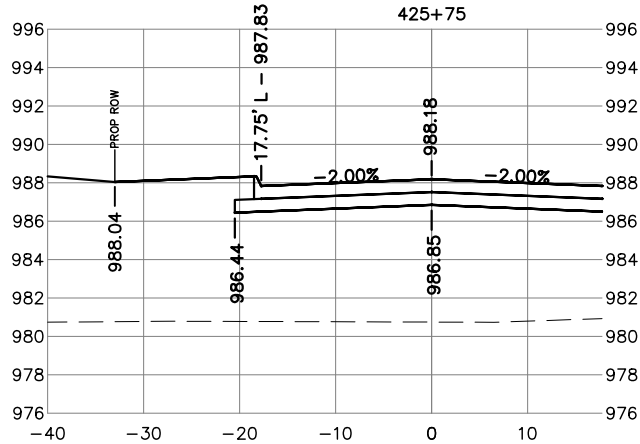
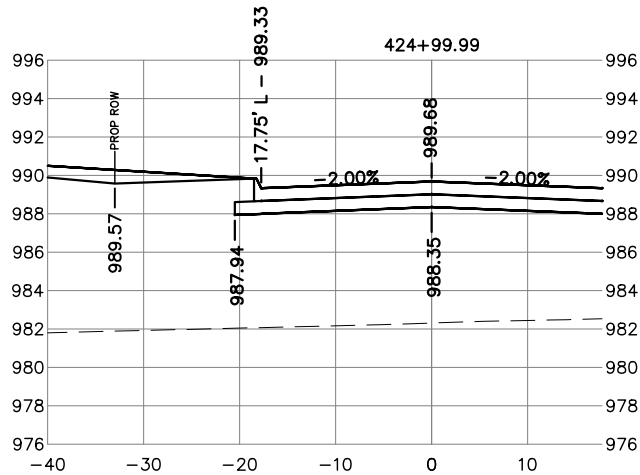
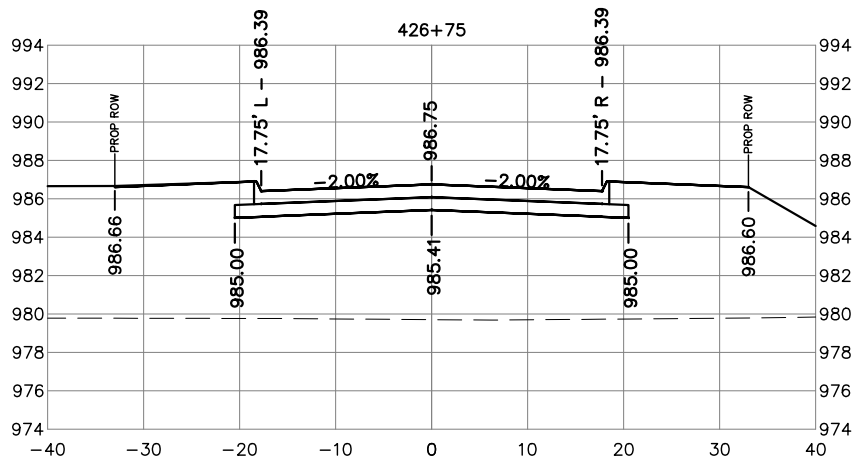
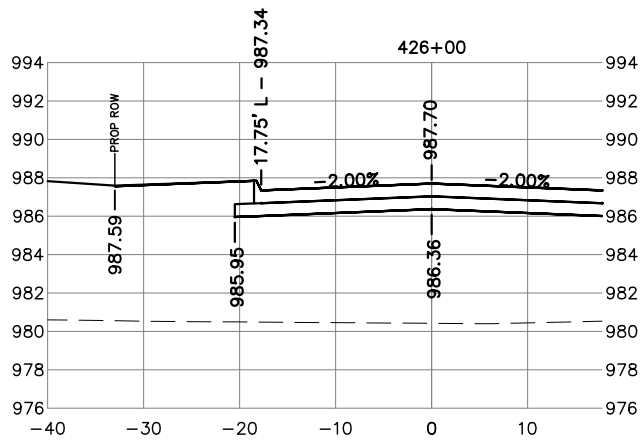
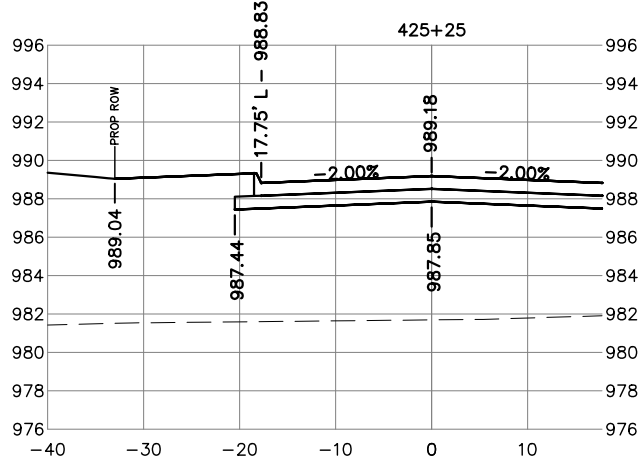
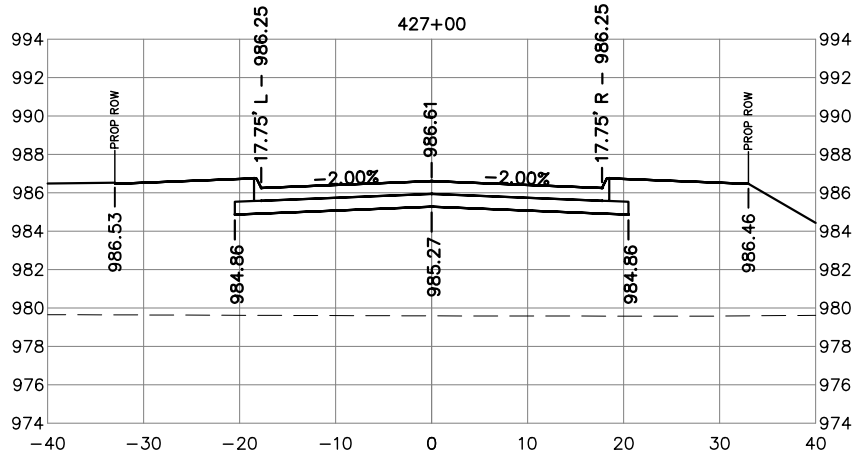
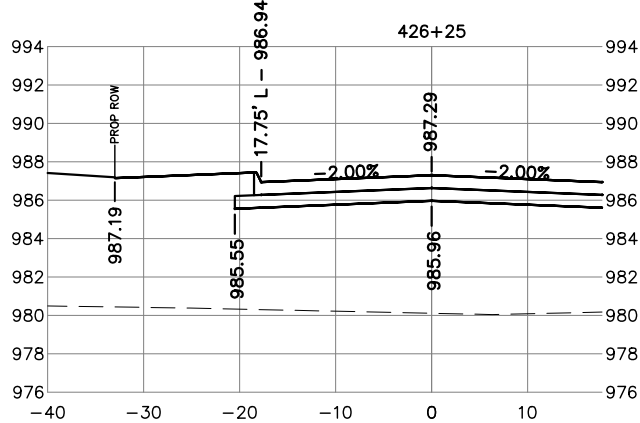
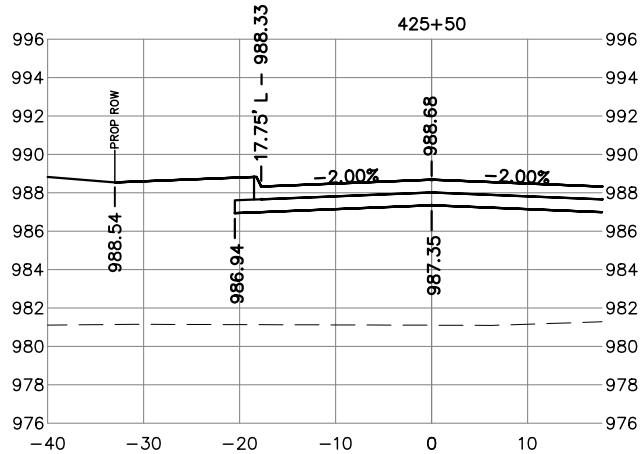
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P:\21\249\DRAWINGS\CIVIL\21249D_ZZ 11 XS4(DOT).DWG 3/19/2024 11:59:00 AM LYNN NEAL

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HORIZONTAL SCALE IN FEET

0 10 20

DRAWING MAY HAVE BEEN REDUCED

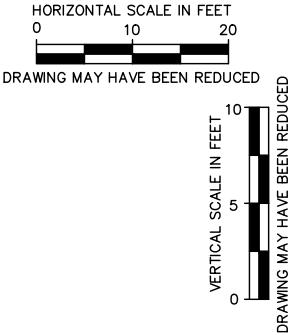
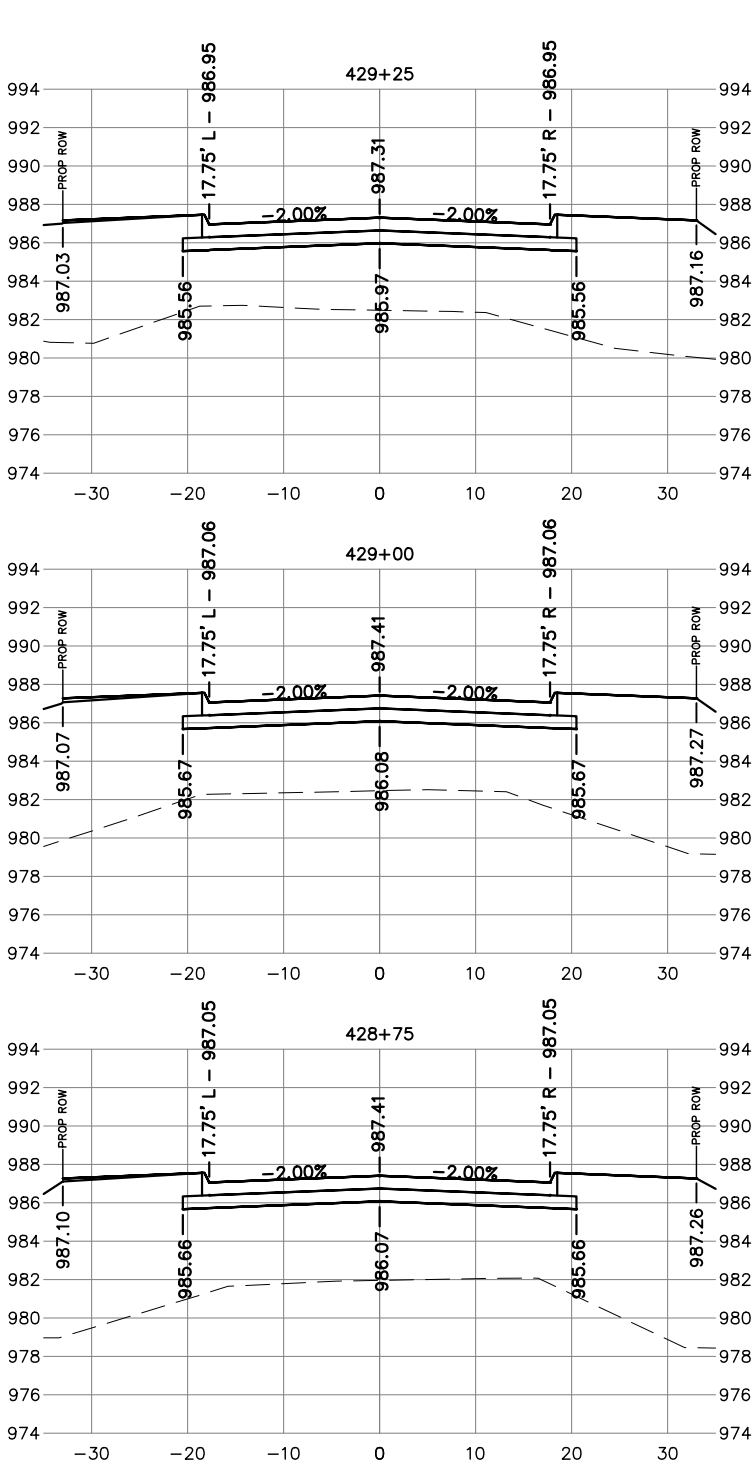
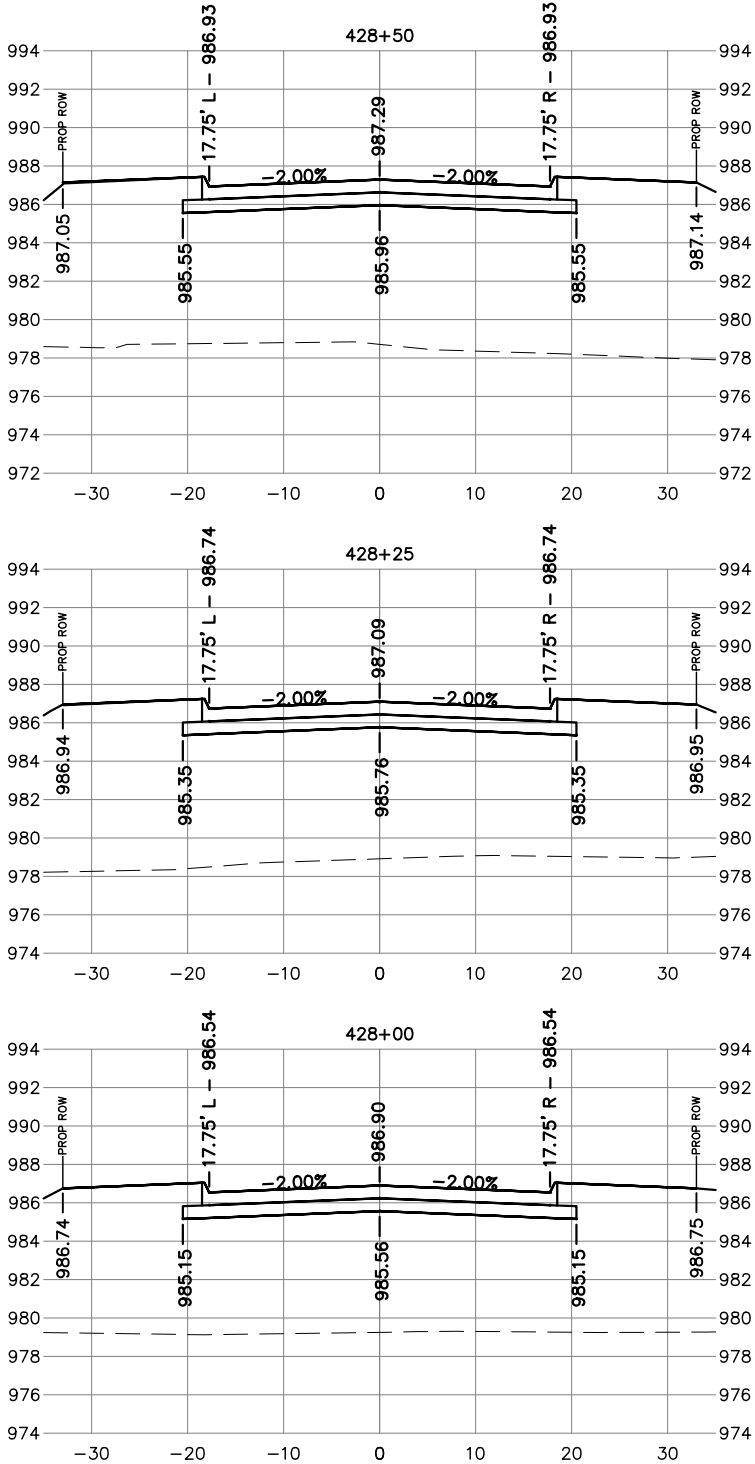
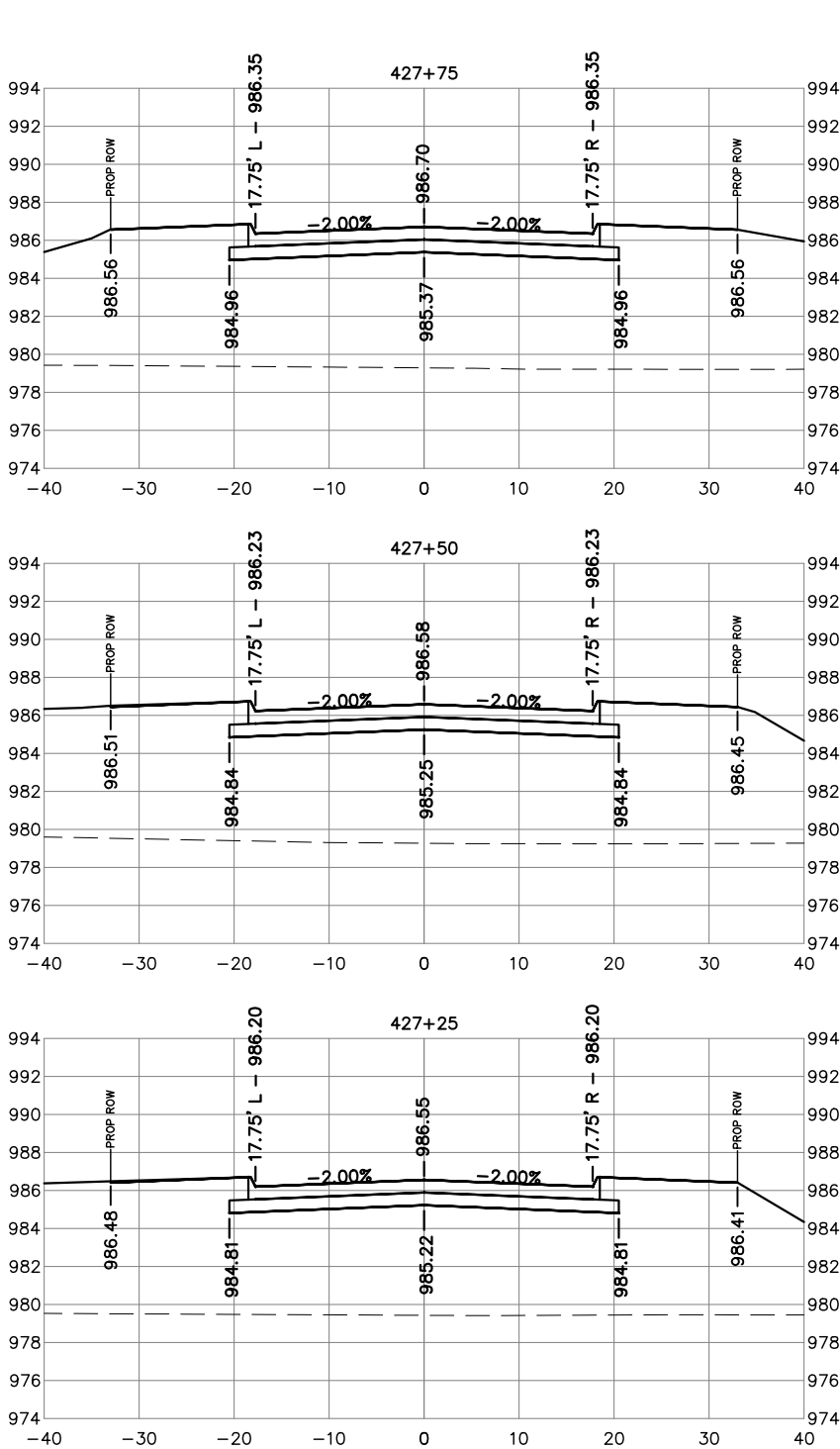
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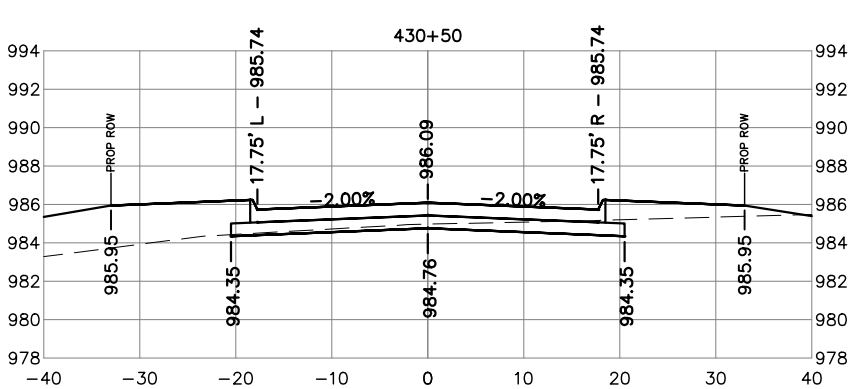
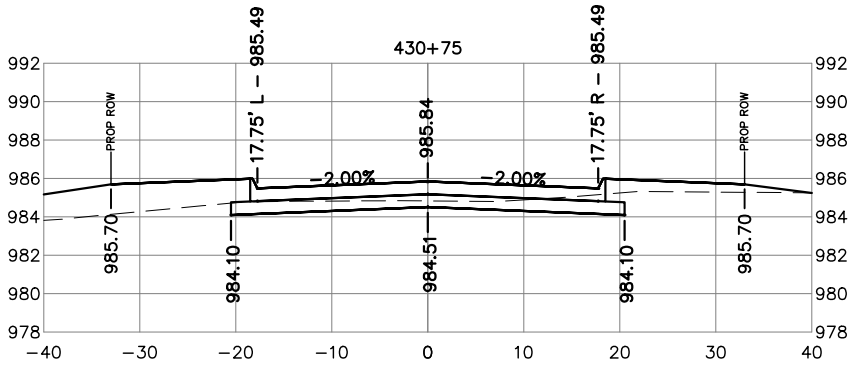
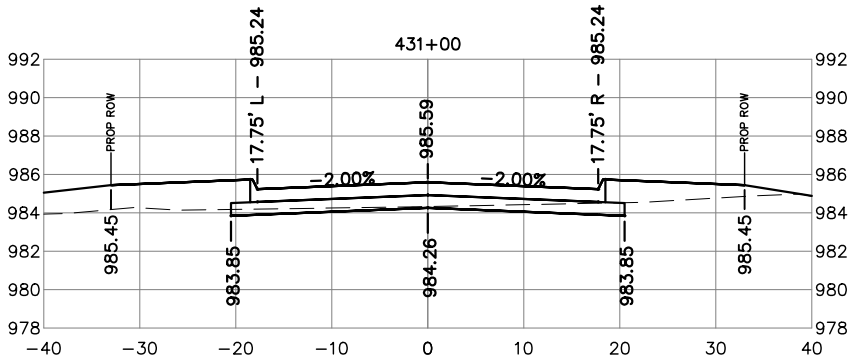
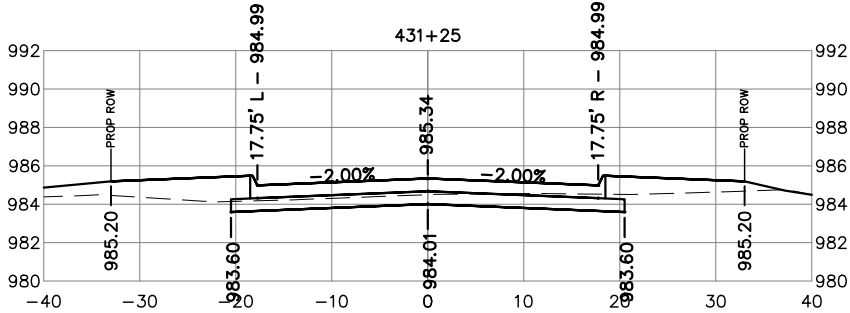
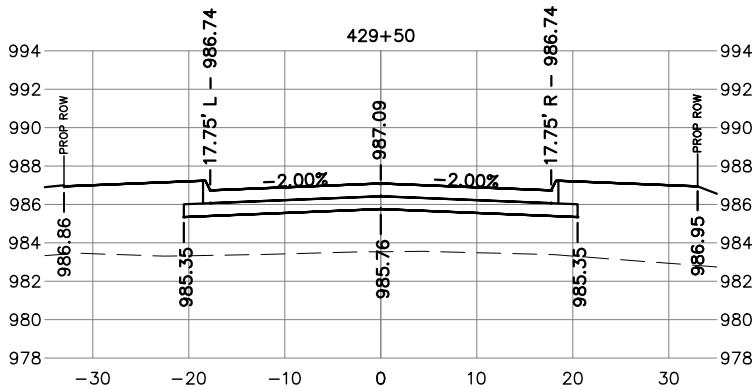
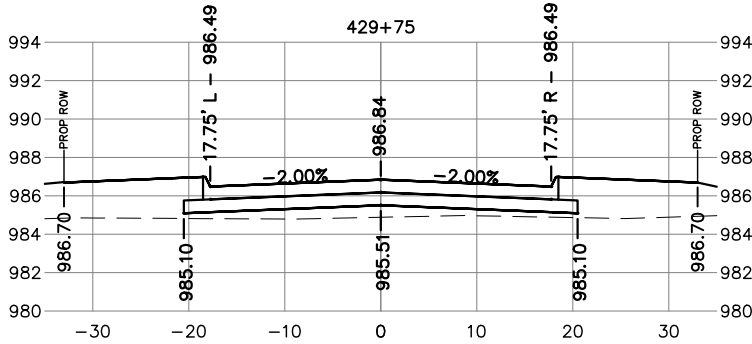
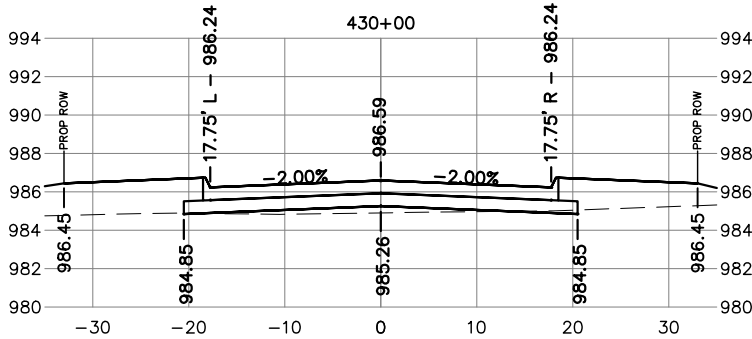
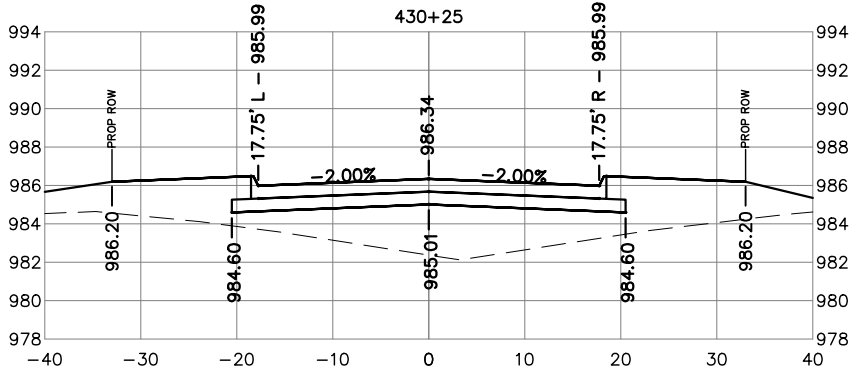
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HORIZONTAL SCALE IN FEET

0 10 20

DRAWING MAY HAVE BEEN REDUCED

VERTICAL SCALE IN FEET

0 5 10

DRAWING MAY HAVE BEEN REDUCED

PROJECT NUMBER

RM-2160(618)--9D-31

20 WEST INDUSTRIAL CENTER - PHASE 3 - CONTRACT D

origin 800 556-4491

CITY OF DYERSVILLE - DELAWARE COUNTY

CROSS SECTIONS

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