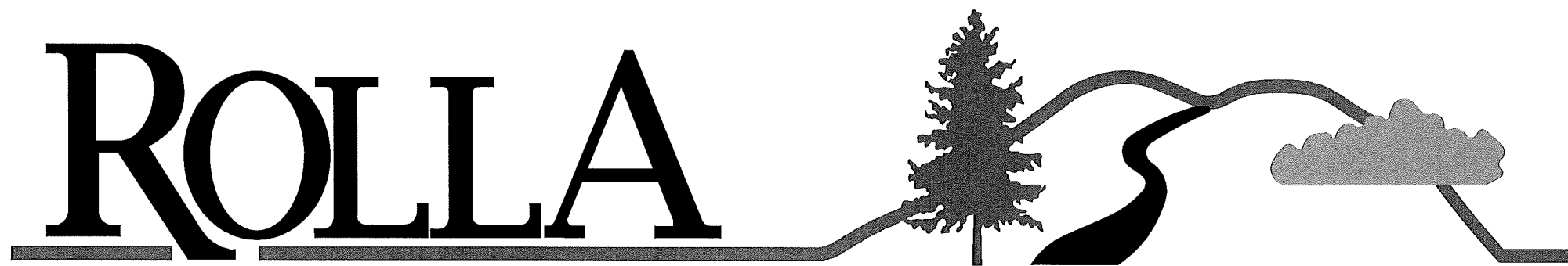
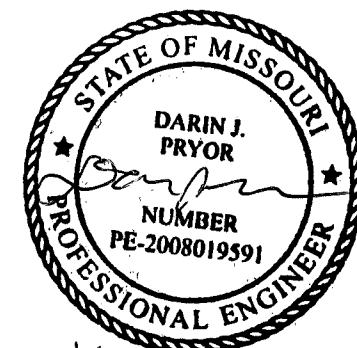


PROJECT 517
2024 STREET IMPROVEMENTS
PINE STREET

APRIL 2024



PREPARED BY:
CITY OF ROLLA PUBLIC WORKS DEPARTMENT



4-17-24

GENERAL NOTE:

ALL WORK SHALL BE DONE IN ADHERENCE TO THE CITY OF ROLLA STANDARDS AND SPECIFICATIONS.

CONTRACTOR SHALL PERFORM ALL WORK ASSOCIATED WITH THE PROJECT UNLESS OTHERWISE NOTED AS "BY OTHERS" BY OTHERS SHALL INCLUDE THE CITY OF ROLLA AND ALL APPROPRIATE UTILITY COMPANIES.

ALL CONSTRUCTION STAKING SHALL BE COMPLETED BY CITY PROJECT COORDINATORS UNLESS OTHERWISE SPECIFIED. NOTIFICATION OF REQUEST FOR STAKING SHALL BE SUBMITTED IN WRITING TO CITY PROJECT COORDINATOR NO LESS THAN TWO WEEKS PRIOR TO DATE NEEDED. CONSTRUCTION STAKING SHALL INCLUDE (BUT NOT BE LIMITED TO) ALIGNMENT, GRADES, FLOWLINE ELEVATIONS FOR STORM SEWER STRUCTURES, AND UTILITY ADJUSTMENTS NECESSARY FOR COMPLETION OF PROJECT.

UTILITIES ARE SHOWN FOR REFERENCE ONLY. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO CONTACT ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION FOR A FIELD LOCATE TO VERIFY THE DEPTH AND POSITION OF THE RESPECTIVE UTILITY.

STREET LANE RESTRICTIONS AND/OR CLOSINGS SHALL BE COORDINATED WITH THE CITY OF ROLLA STREET DEPARTMENT.

ALL EXCAVATIONS MUST BE CLOSED AT THE END OF EACH DAY OR MUST BE FENCED TO PREVENT INJURY TO PERSONS AND/OR PROPERTY.

SEEDING AND MULCHING OF ALL DISTURBED AREAS SHALL BE BY OTHERS.

ALL TREE REMOVAL SHALL BE BY OTHERS. ALL CLEARING, GRUBBING AND DISPOSAL OF TREES, BRUSH, AND DEBRIS SHALL BE BY OTHERS.

RESTORATION OF EXISTING GRAVEL DRIVES AND DRIVEWAYS TO PRECONSTRUCTION CONDITION AND GRADE SHALL BE BY OTHERS.

ROAD SHALL BE OPEN TO LOCAL TRAFFIC AND CLOSED TO THROUGH TRAFFIC. DETOUR ROUTE SHALL BE DETERMINED IN COORDINATION WITH THE PUBLIC WORKS DEPARTMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING AND MAINTAINING ALL SIGNAGE AND BARRICADES NECESSARY TO CARRY OUT DETOUR PLAN.

TRAFFIC CONTROL/SAFETY SHALL BE STRICTLY ENFORCED. DEMOBILIZATION AND REMOBILIZATION FEES WILL NOT BE REIMBURSED UNDER ANY CIRCUMSTANCES.

CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING AND MAINTAINING FINAL GRADE SURFACE UNTIL SUCH TIME AS CONCRETE CAN BE LAID.

CONTRACTOR SHALL BE RESPONSIBLE FOR BARRICADING ALL WATER VALVES AND MANHOLES TO PREVENT PERSONAL INJURY OR PROPERTY DAMAGE BY OTHERS.

ALL WORK DONE ON STATE RIGHT OF WAY SHALL BE COORDINATED THROUGH MODOT. LANE CLOSURES SHALL FOLLOW MODOT SPECIFICATIONS FOR TRAFFIC CONTROL.

CONTRACTOR SHALL CONTACT PROPERTY OWNER PRIOR TO CONSTRUCTION OF NEW DRIVEWAYS TO AVOID CONFINING VEHICLES DURING CONSTRUCTION

UNIT PRICE FOR INSTALLATION OF CURB, DRIVEWAY APRONS AND SIDEWALK SHALL INCLUDE ALL CONCRETE, LABOR, FORMS AND EQUIPMENT NECESSARY FOR THE COMPLETE INSTALLATION OF THE ITEM. ROCK SHALL BE FURNISHED BY THE CITY OF ROLLA.

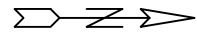
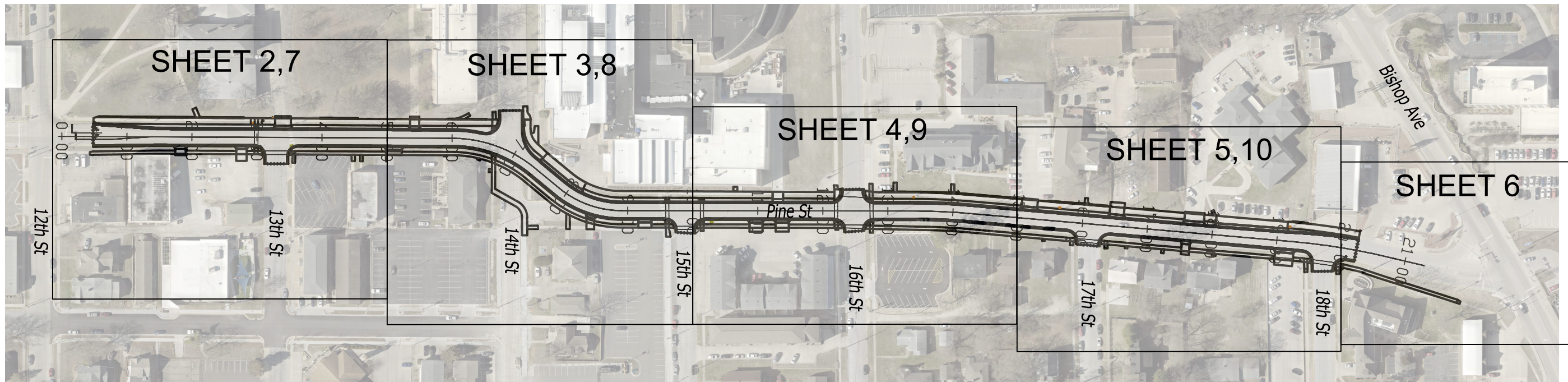
EROSION CONTROL NOTE:
EROSION CONTROL SHALL BE BY CITY.

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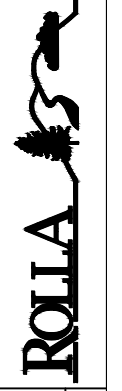
LEGEND

- | | |
|---|--|
| <ul style="list-style-type: none"> - EXISTING FIRE HYDRANT - EXISTING WATER VALVE - EXISTING WATER METER - EXISTING UTILITY POLE WITH GUY WIRE - EXISTING SANITARY SEWER MANHOLE - PROPOSED SANITARY SEWER MANHOLE - EXISTING SIGN - EXISTING STORM INLET - PROPOSED STORM INLET - EXISTING SANITARY SEWER CLEANOUT - EXISTING STREET LIGHT | <ul style="list-style-type: none"> - PROPOSED SANITARY SEWER - EXISTING SANITARY SEWER - EXISTING OVERHEAD ELECTRIC - EXISTING WATER LINE - EXISTING GAS LINE - EXISTING STORM SEWER - EXISTING CHAIN LINK FENCE - EXISTING WOOD FENCE - RIGHT-OF-WAY/PROPERTY LINE - PROPOSED TRUNCATED DOMES - EXISTING TREE |
|---|--|

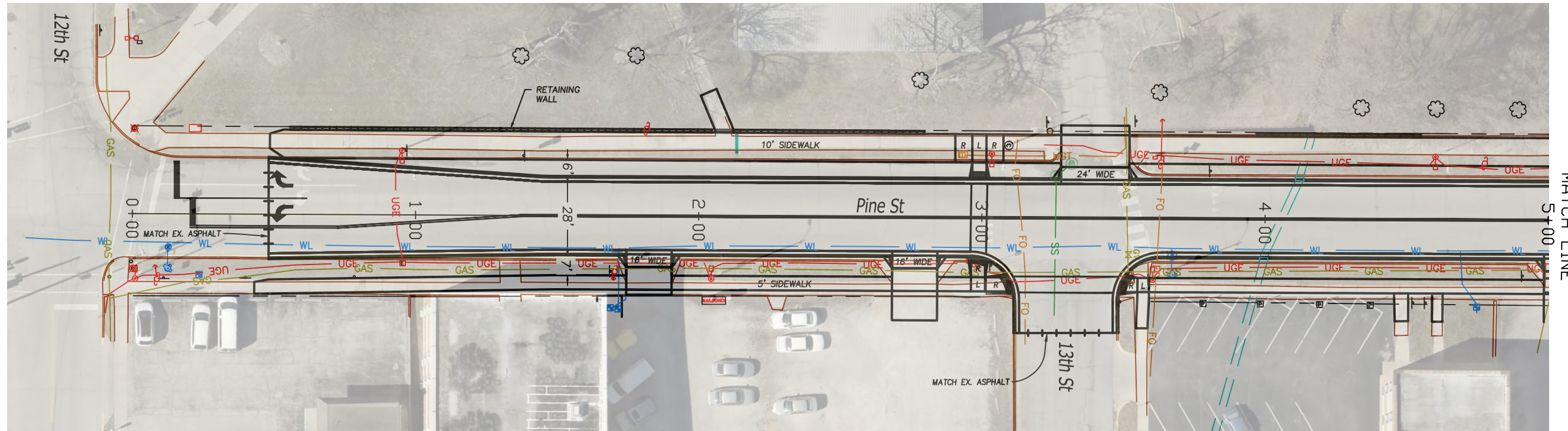
UTILITIES

- DIGRITE**
- STREET/SEWER - CITY OF ROLLA PUBLIC WORKS DEPARTMENT 573-364-8659
 - WATER/ELECTRIC - ROLLA MUNICIPAL UTILITIES 573-364-1572
 - NATURAL GAS - AMEREN MISSOURI 573-368-3440
 - EMERGENCY 1-800-552-7583
 - TELEPHONE - CENTURY/LINK 573-341-0405
 - FIDELITY CABLEVISION INC. 573-426-6111
- MODOT**
- MISSOURI DEPT OF TRANSPORTATION PERMIT INSPECTOR - KIM HILBURN 573-368-2575
 - SIGNAL MAINTENANCE SHED - STEVE HELTON 573-364-2218
 - ASK MODOT 1-888-275-6636
 - CENTRAL DISTRICT-JEFFERSON CITY 573-751-3322

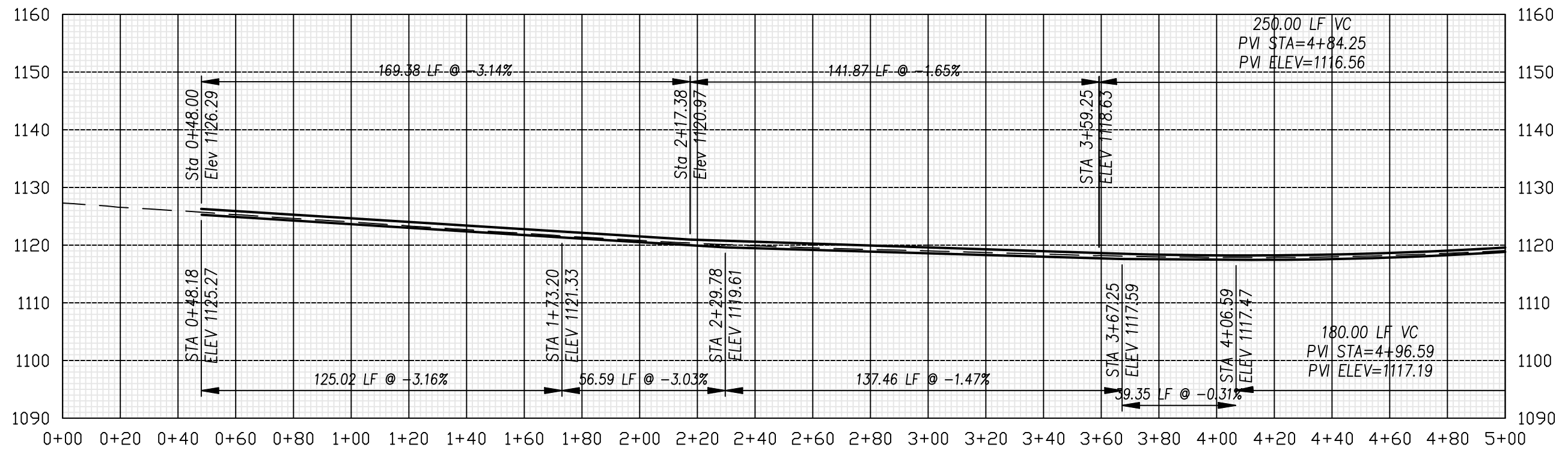
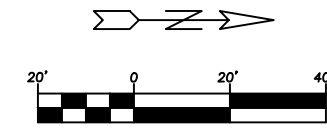
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PINE STREET IMPROVEMENTS
City of Rolla Public Works Department
Key Sheet



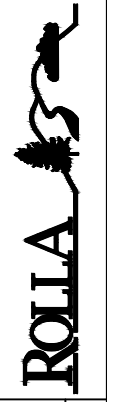
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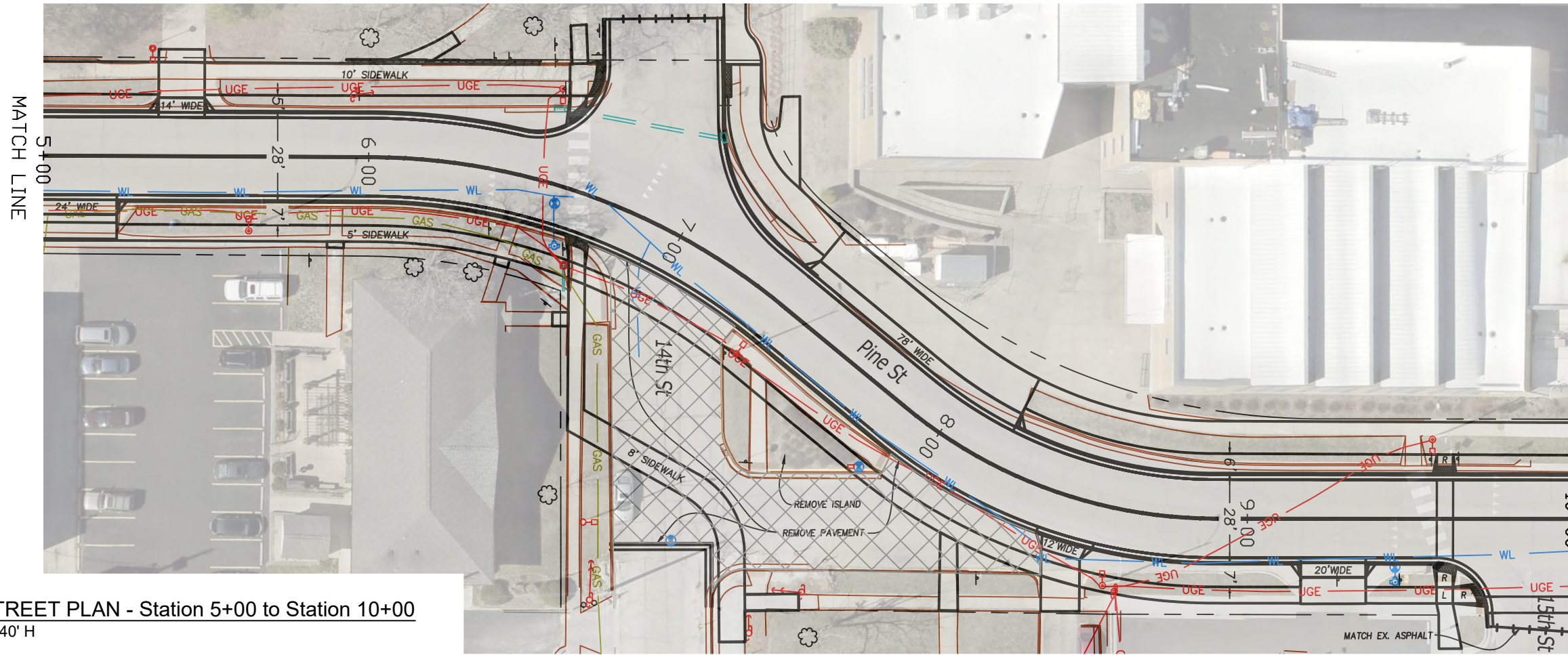
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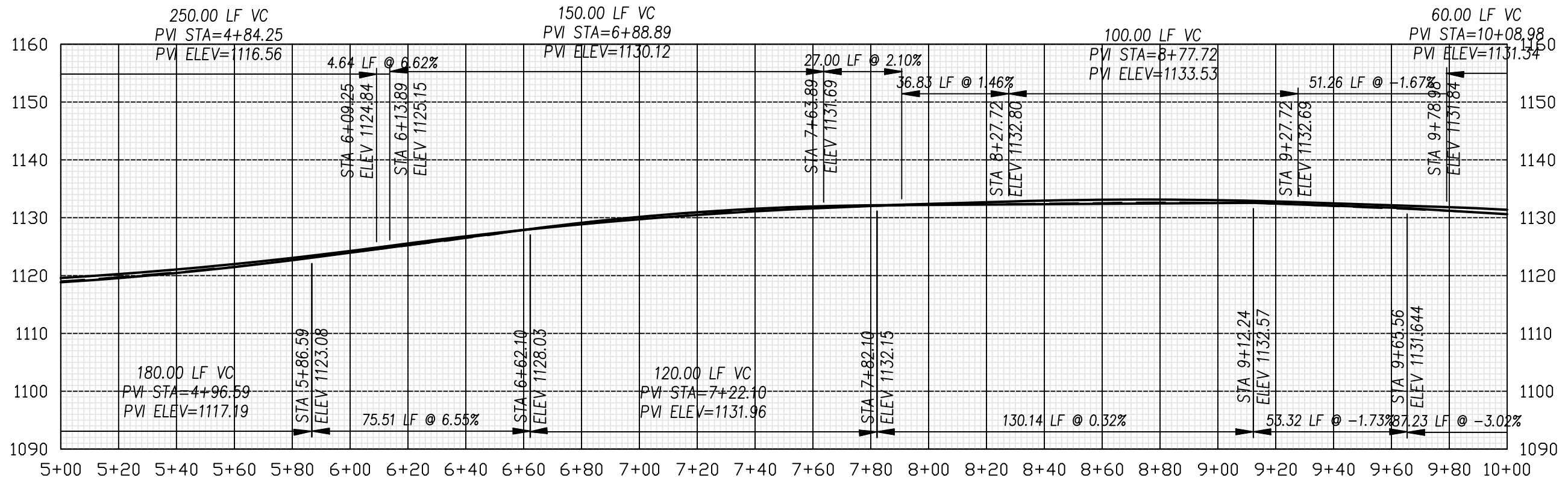
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PINE STREET IMPROVEMENTS
 City of Rolla Public Works Department
 Plan/Profile STA 0+00 to STA 5+00

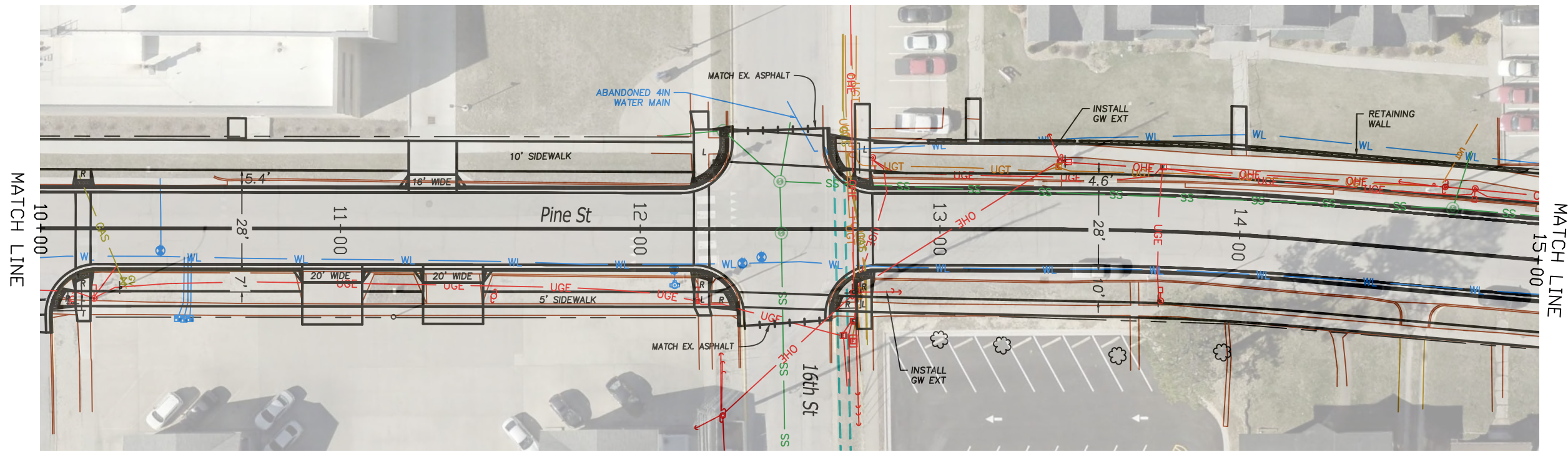


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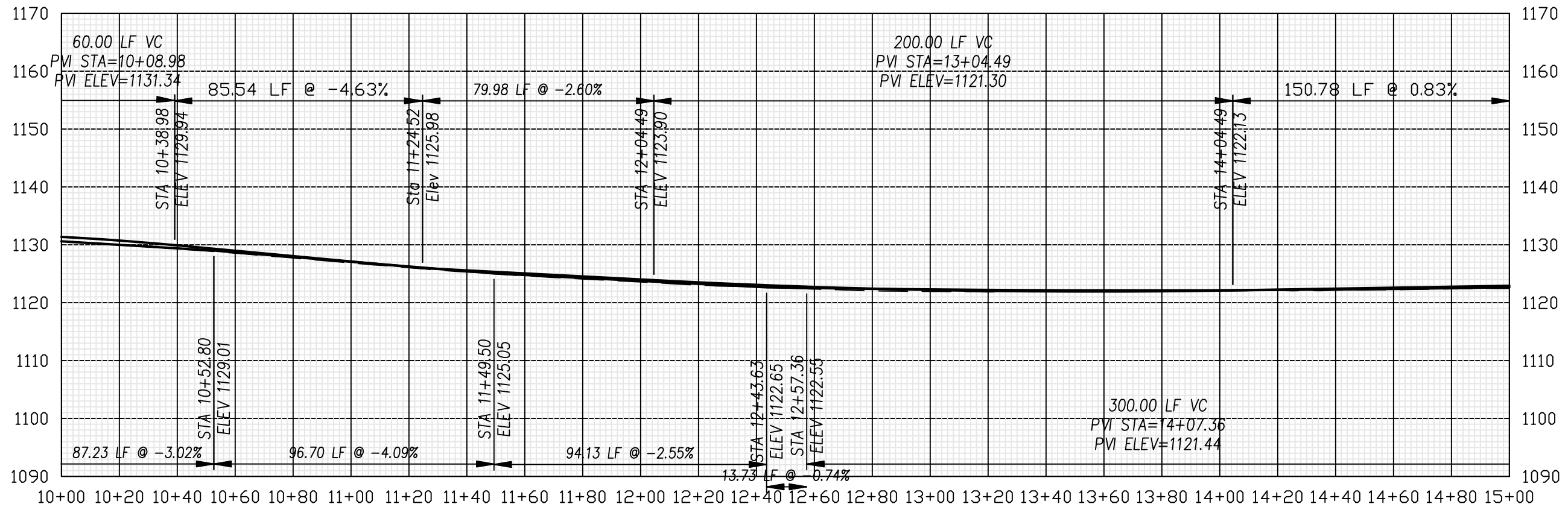
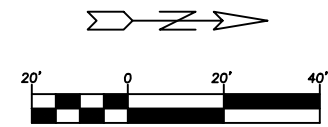


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City of Rolla Department of Public Works 901 North Elm Street Phone: 573-364-8659 www.rollacity.org	Designed: CAF Drawn: CAF Checked: MBK	Date: Scale: as shown Proj. No.: 517	Rev.	Description	Date
	PINE STREET IMPROVEMENTS City of Rolla Public Works Department Plan/Profile STA 5+00 to STA 10+00				
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① PINE STREET PLAN - Station 10+00 to Station 15+00
 ④ Scale: 1" = 40' H



② PINE STREET PROFILE - Station 10+00 to Station 15+00
 ④ Scale: 1" = 40' H
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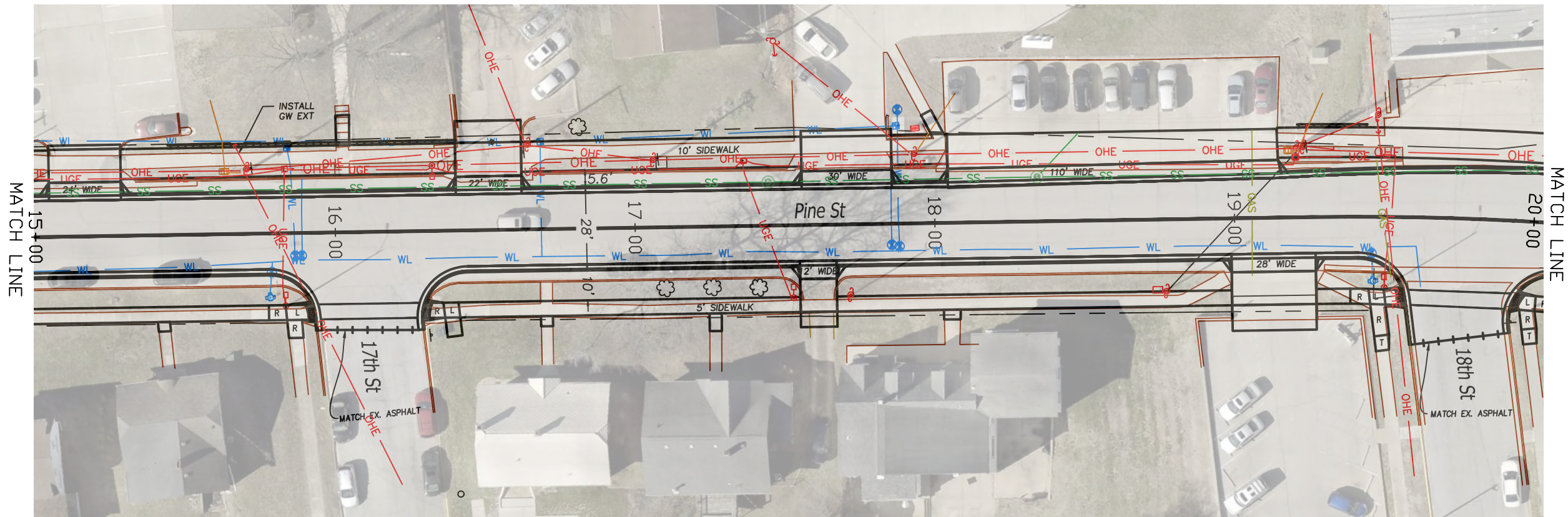
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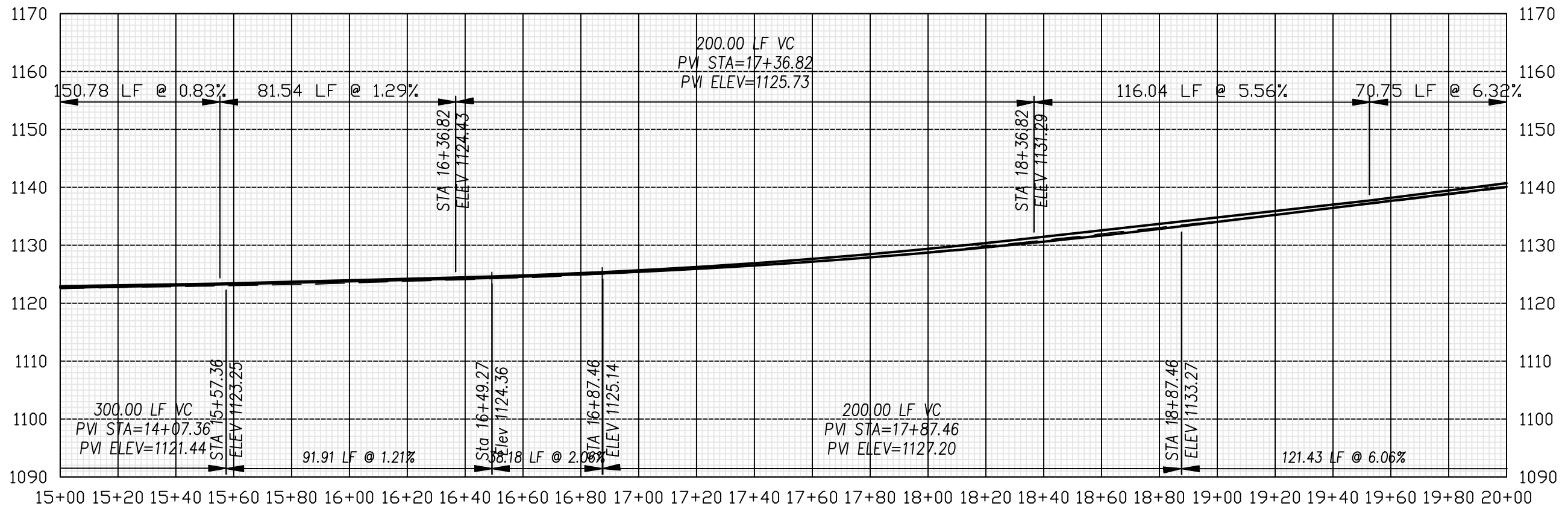
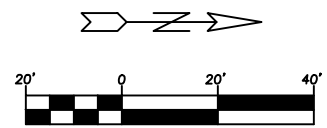
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PINE STREET IMPROVEMENTS
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 Plan/Profile STA 10+00 to STA 15+00



① PINE STREET PLAN - Station 15+00 to Station 20+00
 ⑤ Scale: 1" = 40' H



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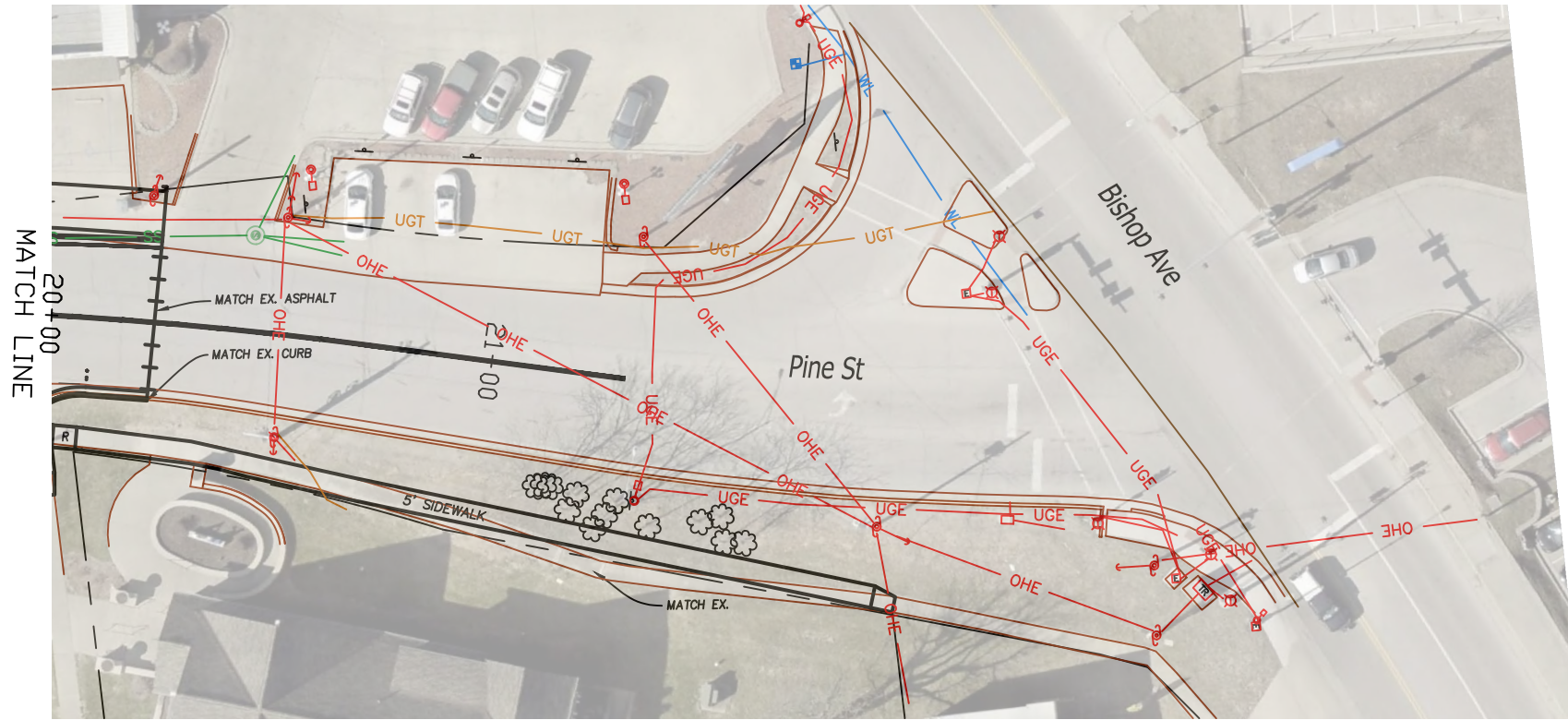
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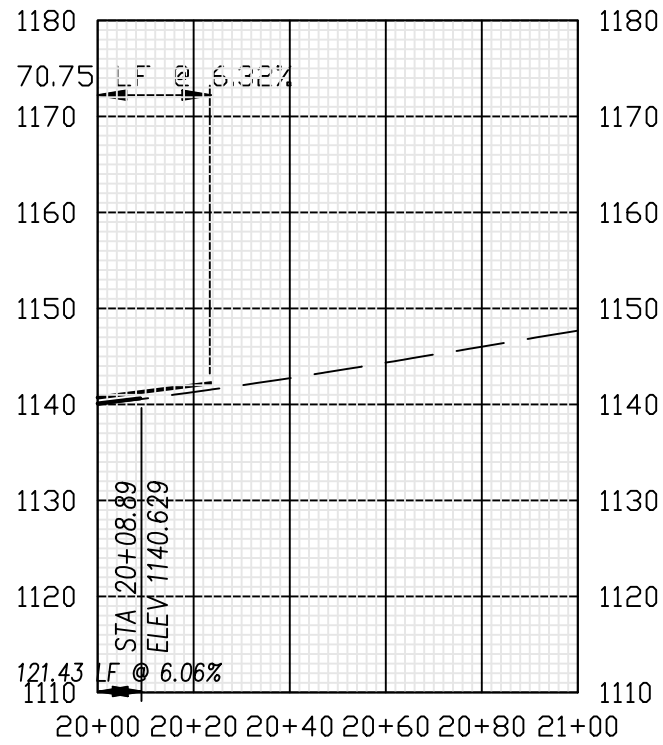
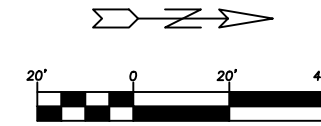
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 Plan/Profile STA 15+00 to STA 20+00



① PINE STREET PLAN - Station 20+00 to Station 21+00
 ⑥ Scale: 1" = 40' H



② PINE STREET PROFILE - Station 20+00 to Station 21+00
 ⑥ Scale: 1" = 40' H
 1" = 20' V

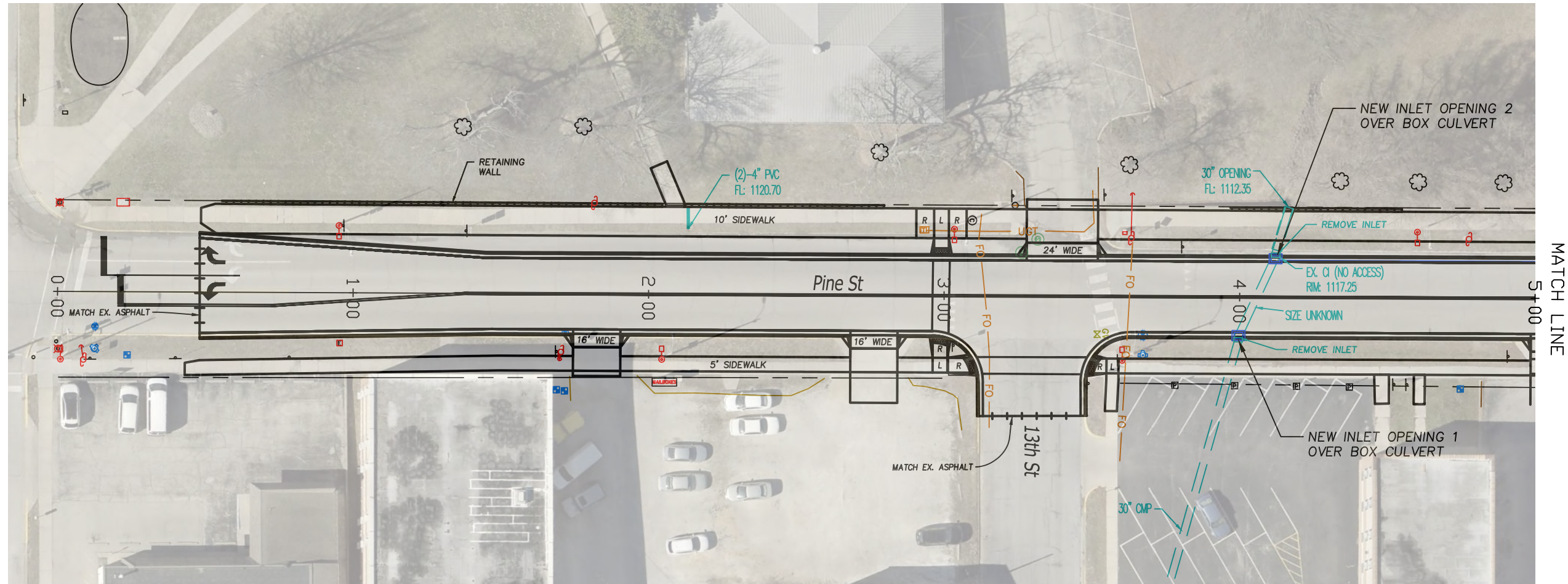
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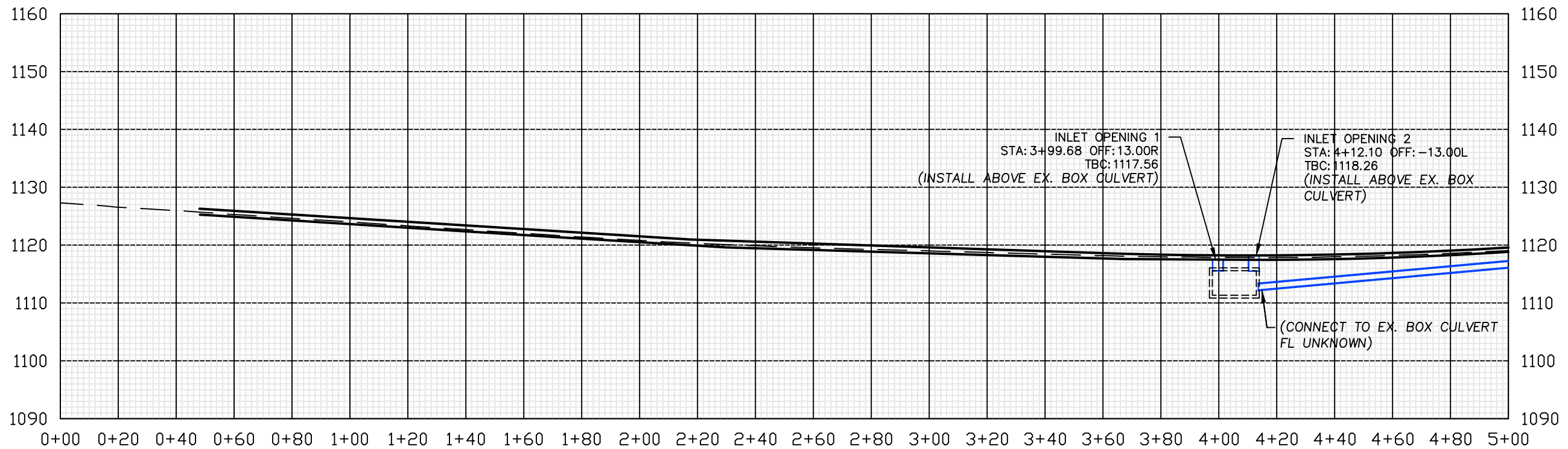
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PINE STREET IMPROVEMENTS
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 Plan/Profile STA 20+00 to STA 21+00



1
7 PINE STREET STORM PLAN - Station 0+00 to Station 5+00
Scale: 1" = 40' H



2
7 PINE STREET STORM PROFILE - Station 0+00 to Station 5+00
Scale: 1" = 40' H

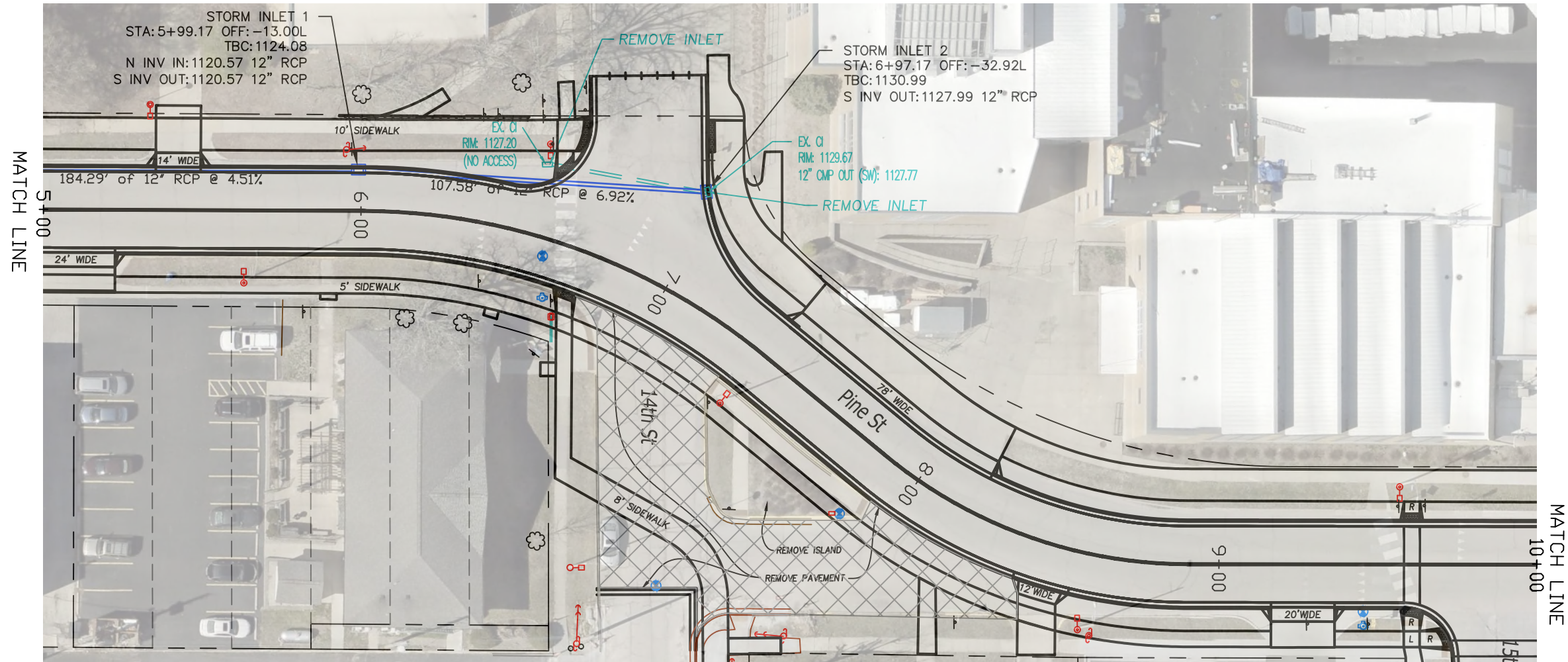
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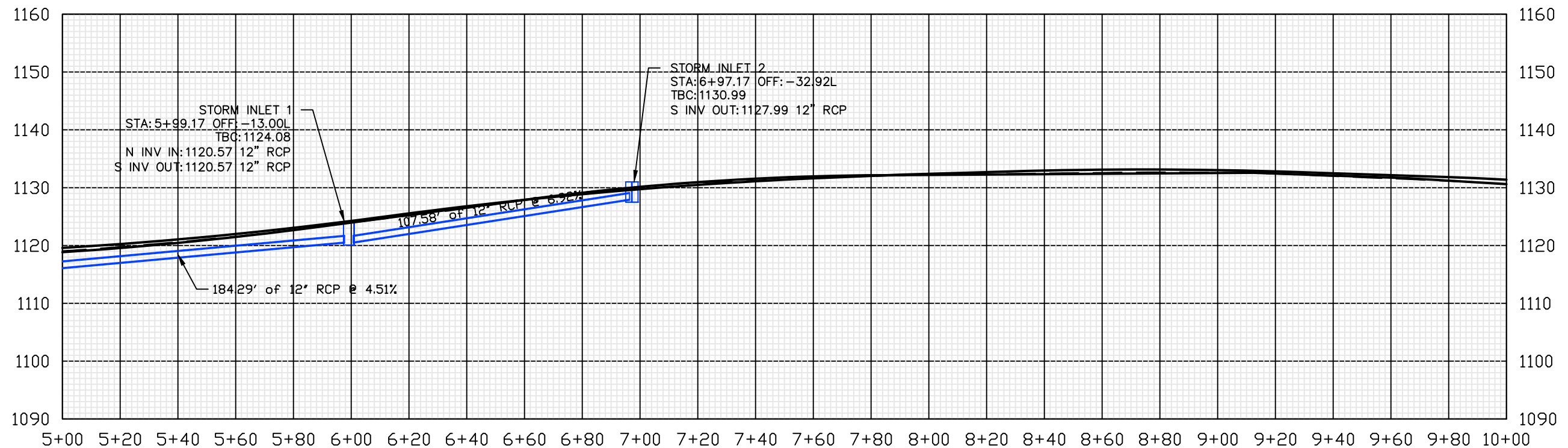
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PINE STREET IMPROVEMENTS
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 Storm STA 0+00 to STA 5+00



1
8 PINE STREET STORM PLAN - Station 5+00 to Station 10+00
Scale: 1" = 40' H



2
8 PINE STREET STORM PROFILE - Station 5+00 to Station 10+00
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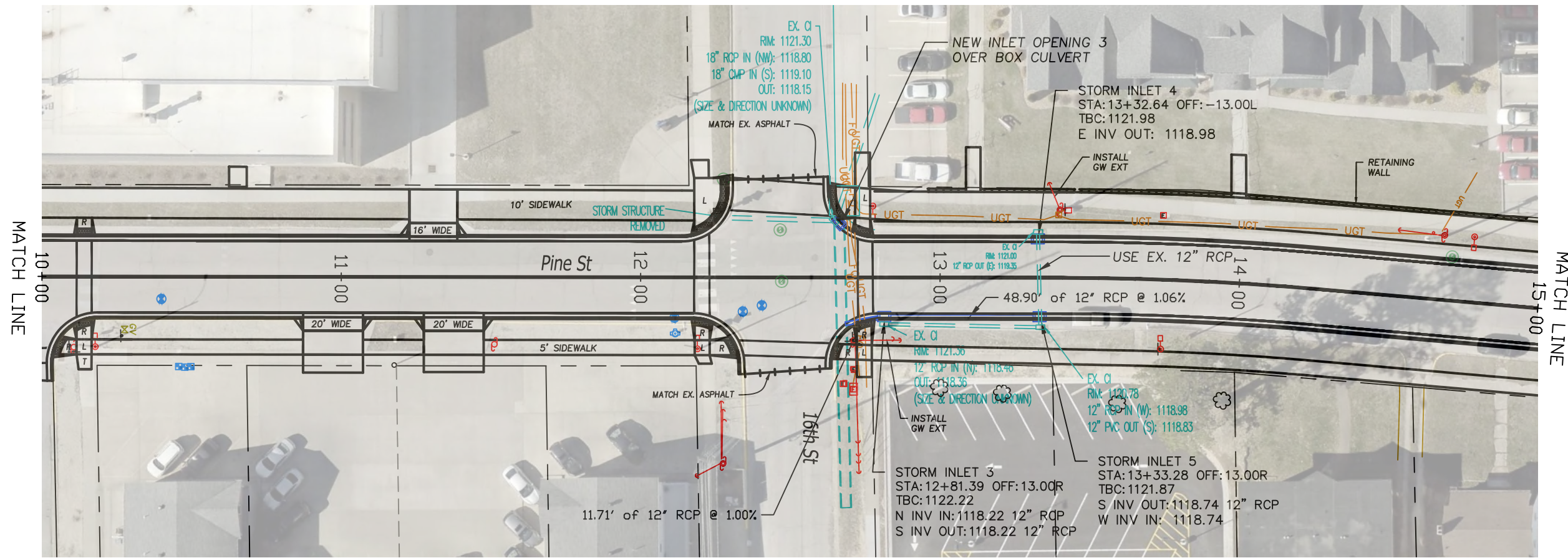
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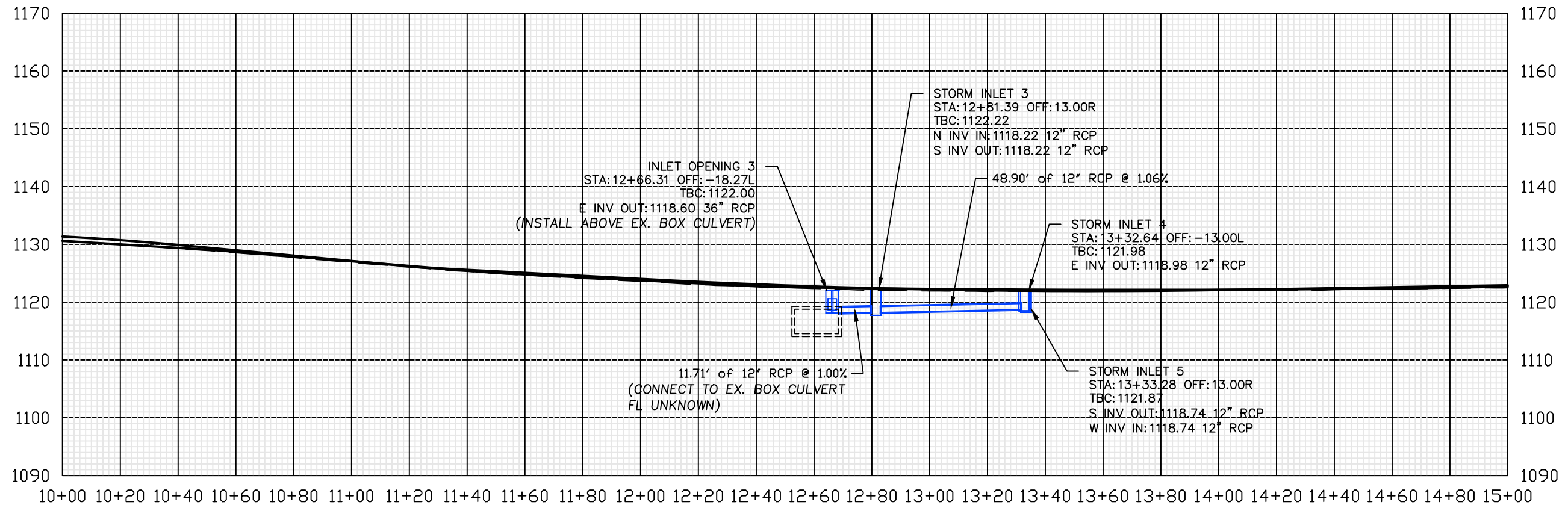
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City of Rolla Public Works Department
Storm STA 5+00 to STA 10+00



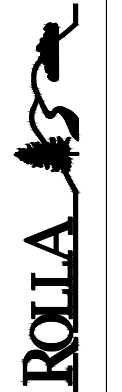
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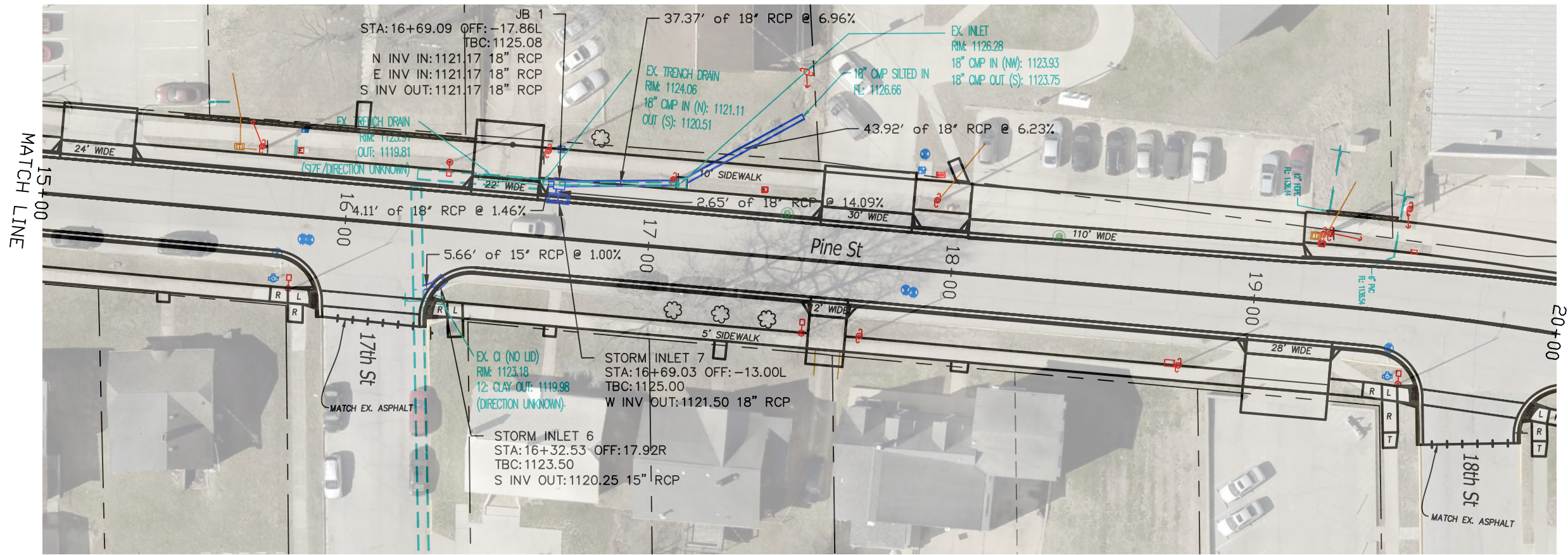
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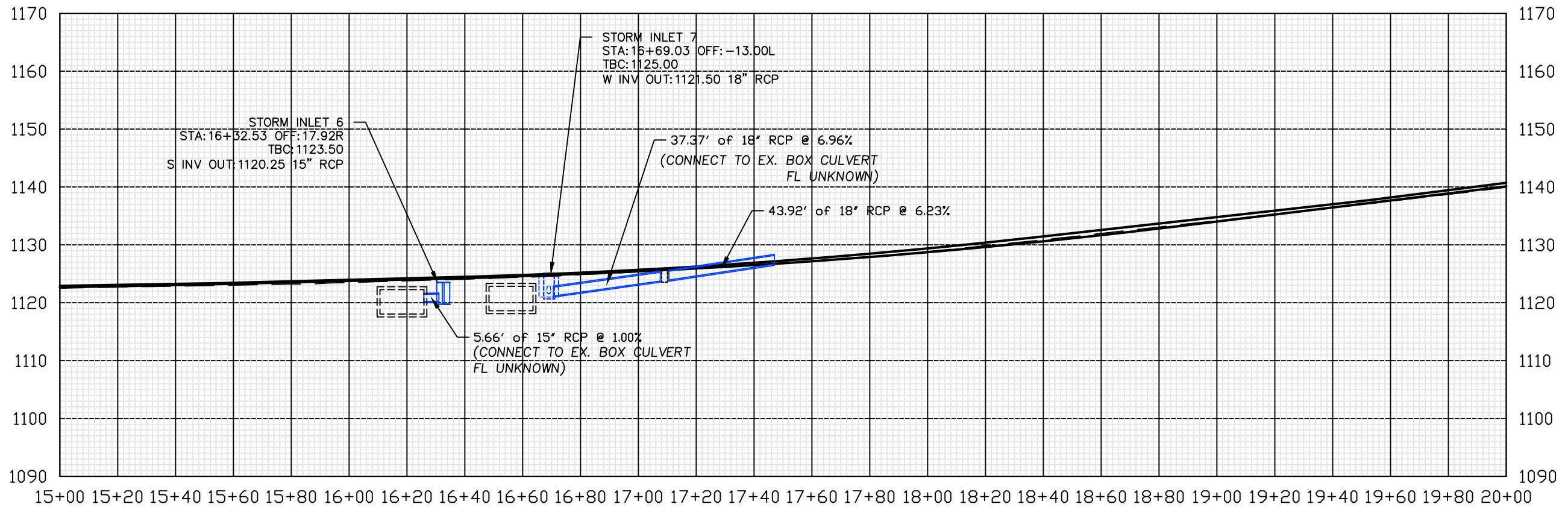
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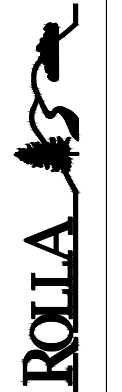
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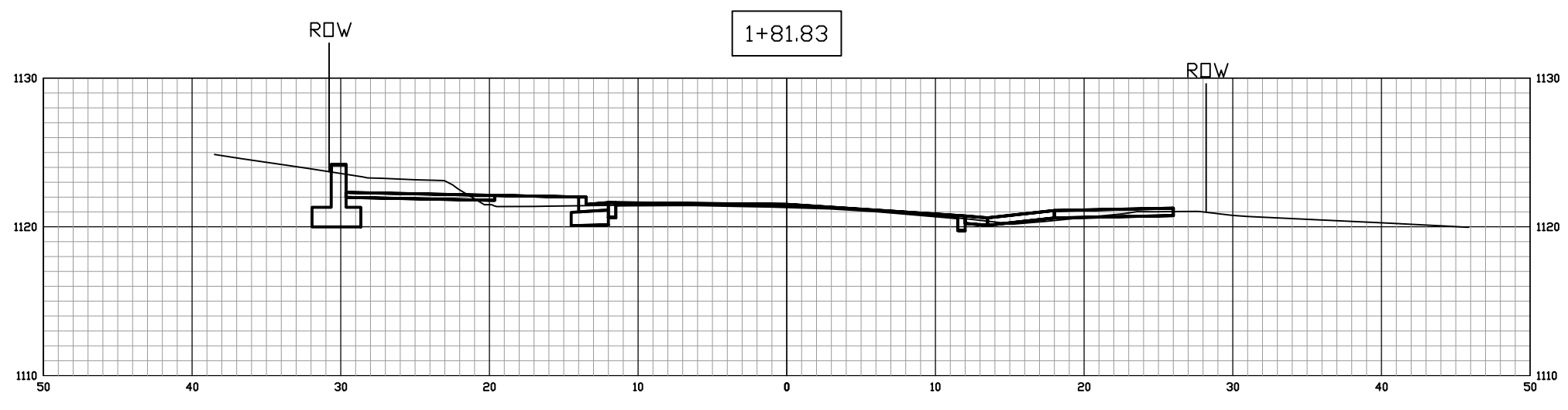
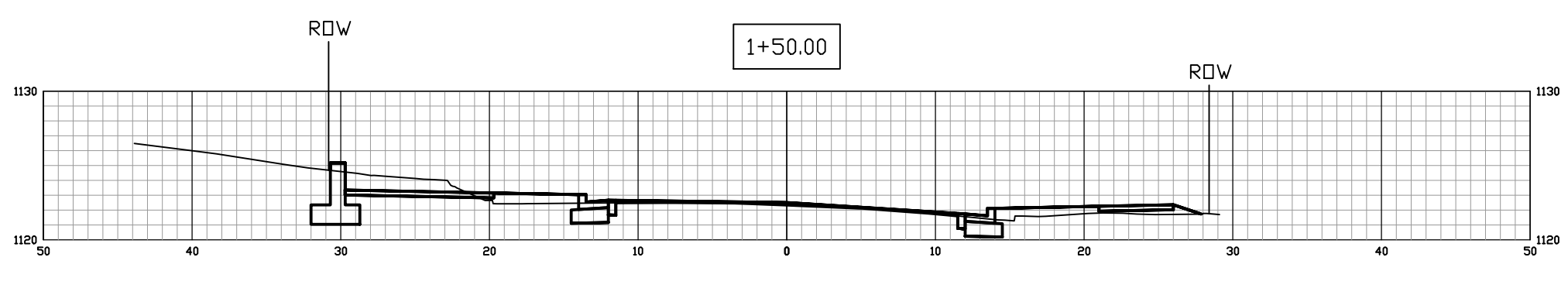
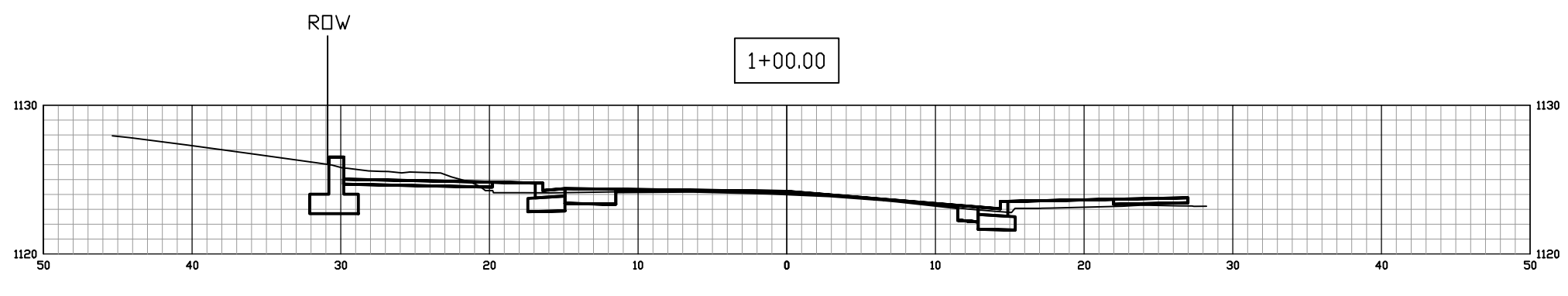
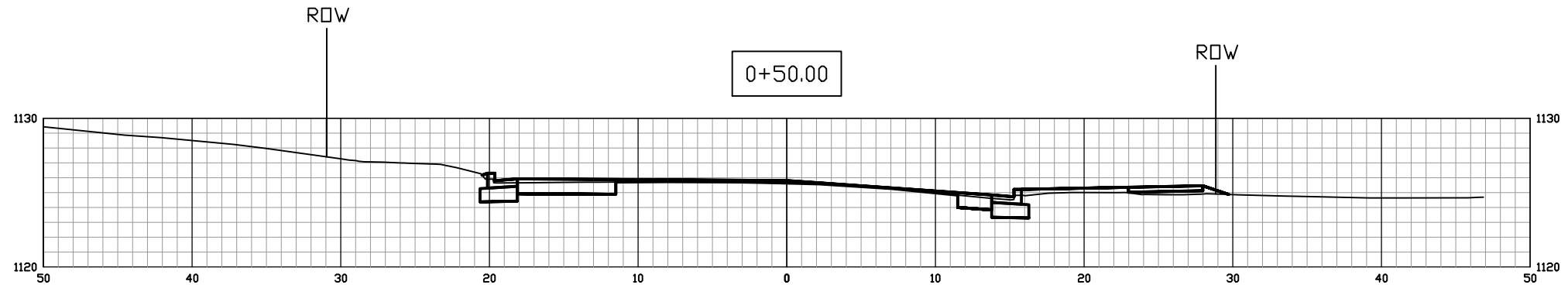
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PINE STREET IMPROVEMENTS
 City of Rolla Public Works Department
 Storm STA 15+00 to STA 20+00



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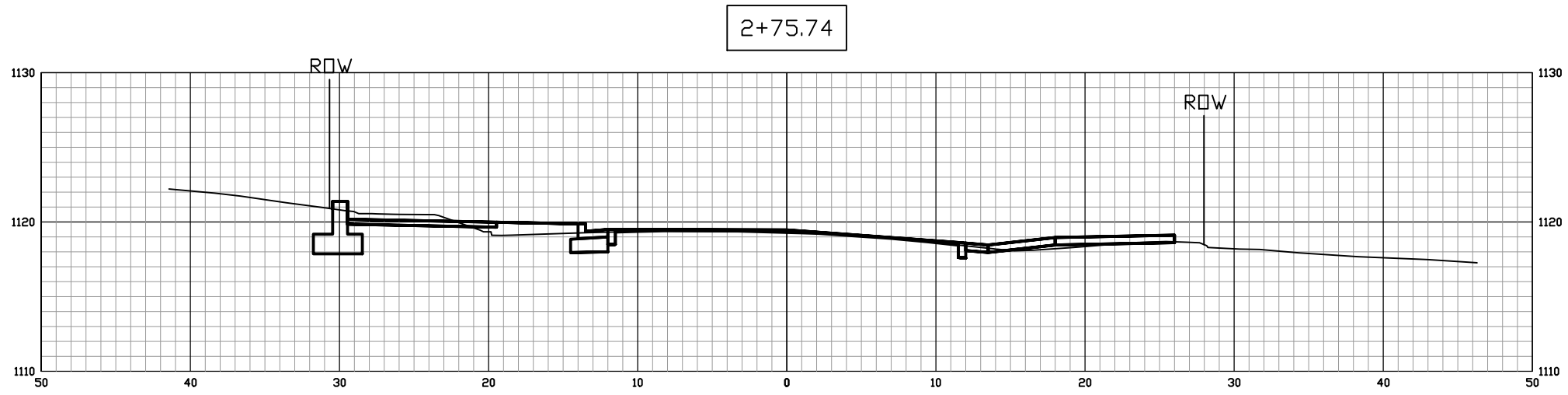
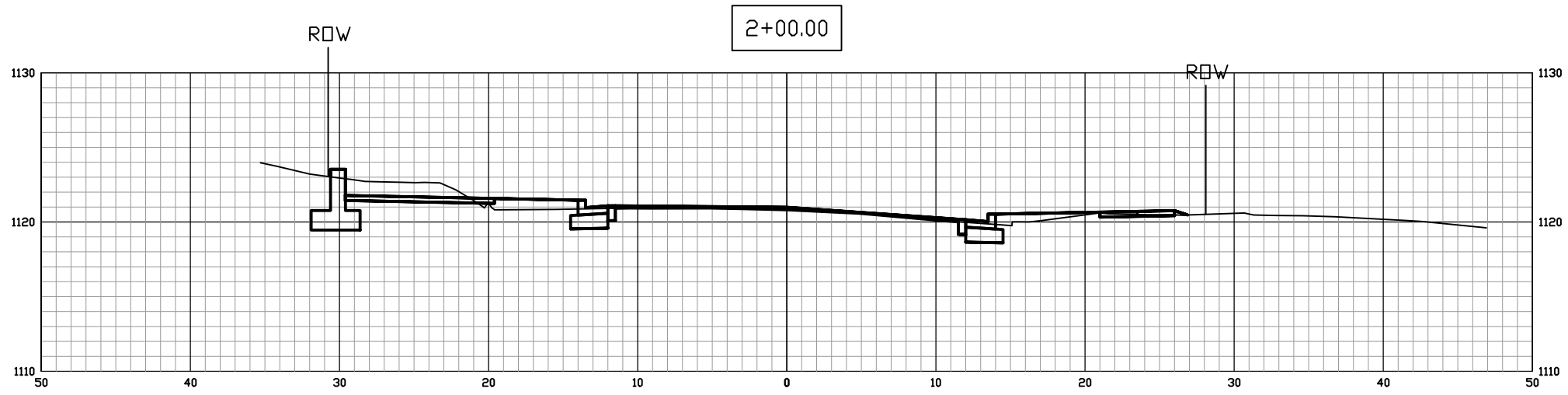
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PINE STREET IMPROVEMENTS
 City of Rolla Public Works Department
 Cross Sections STA 0+50 to STA 1+81.83

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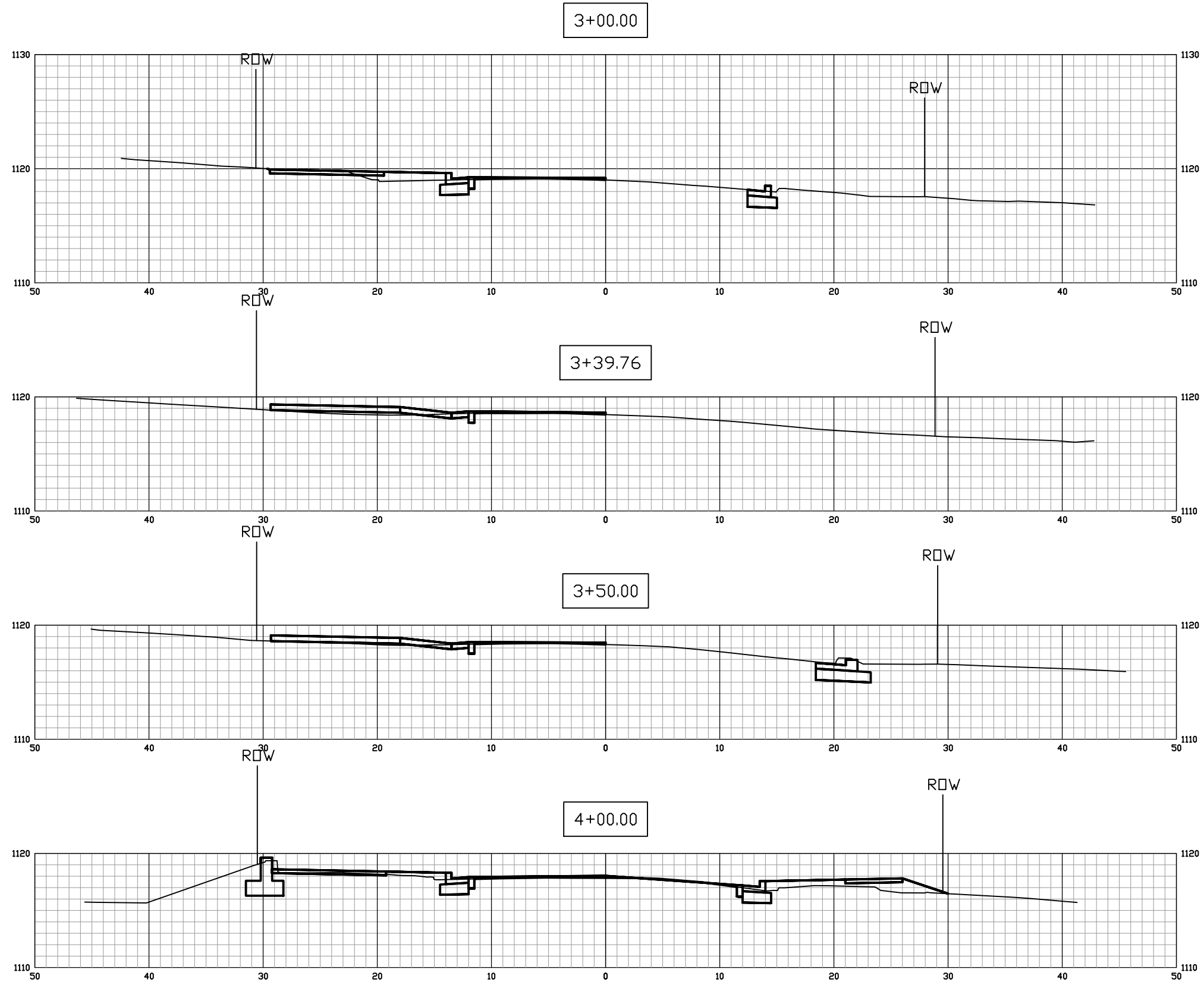
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 City of Rolla Public Works Department
 Cross Sections STA 2+00 to STA 2+75.74



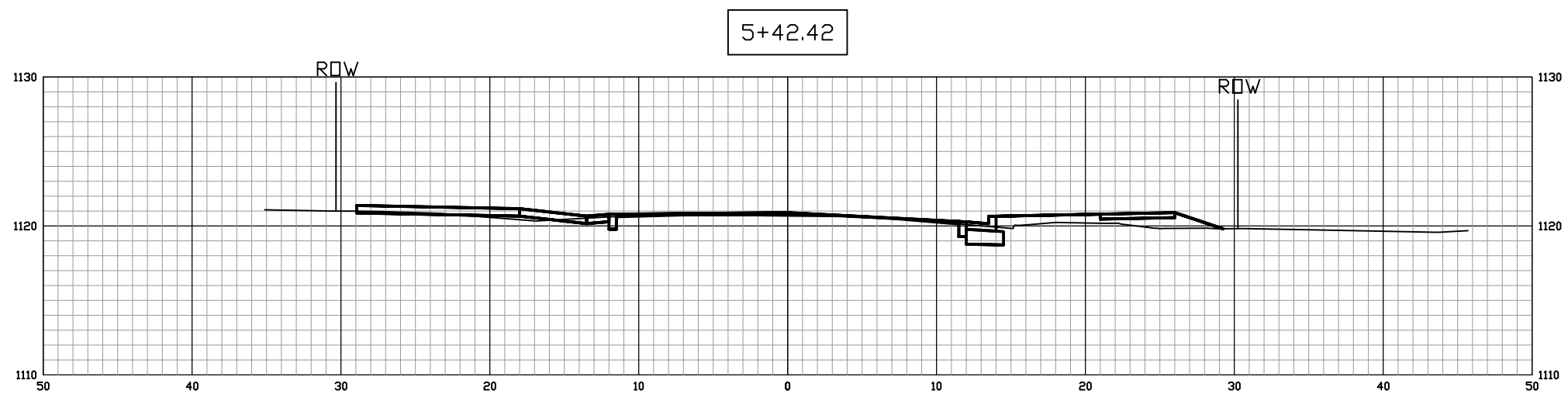
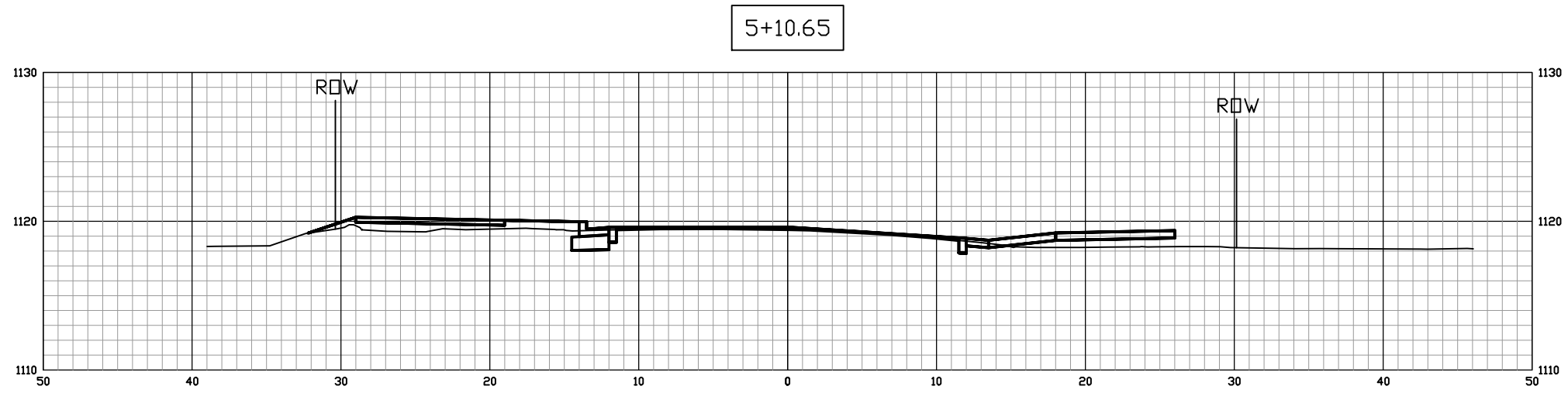
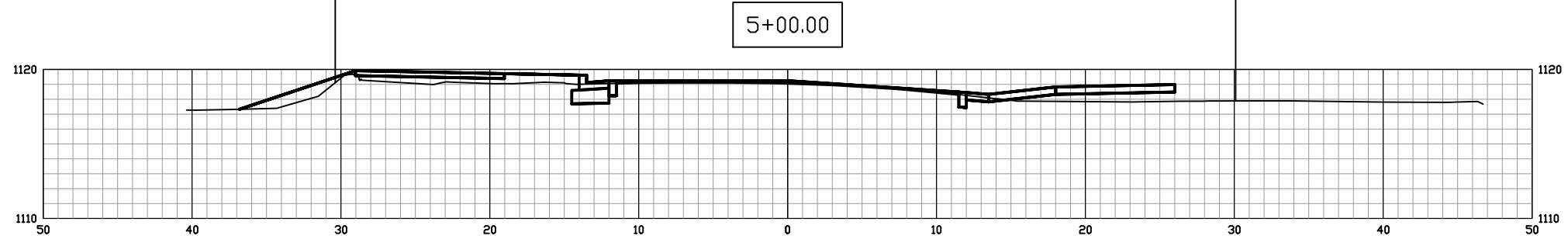
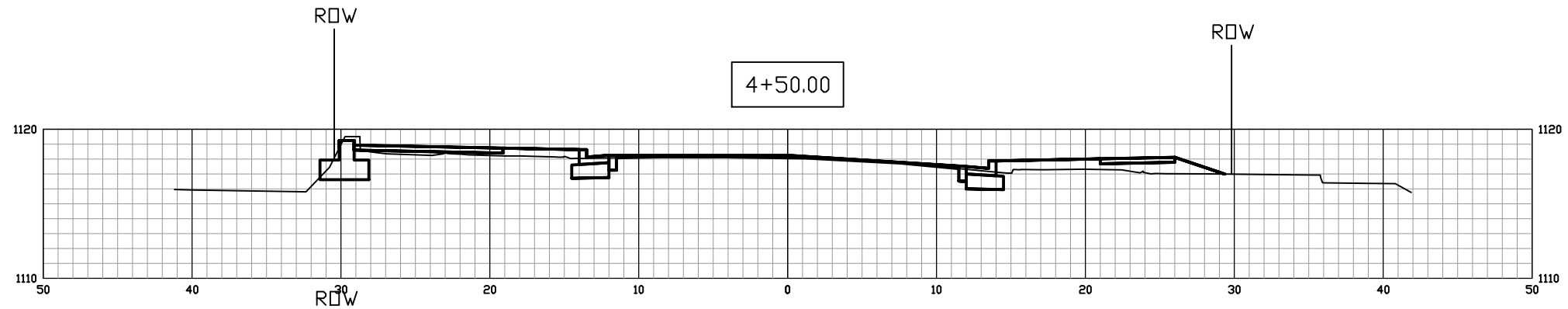
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Cross Sections STA 3+00 to STA 4+00	

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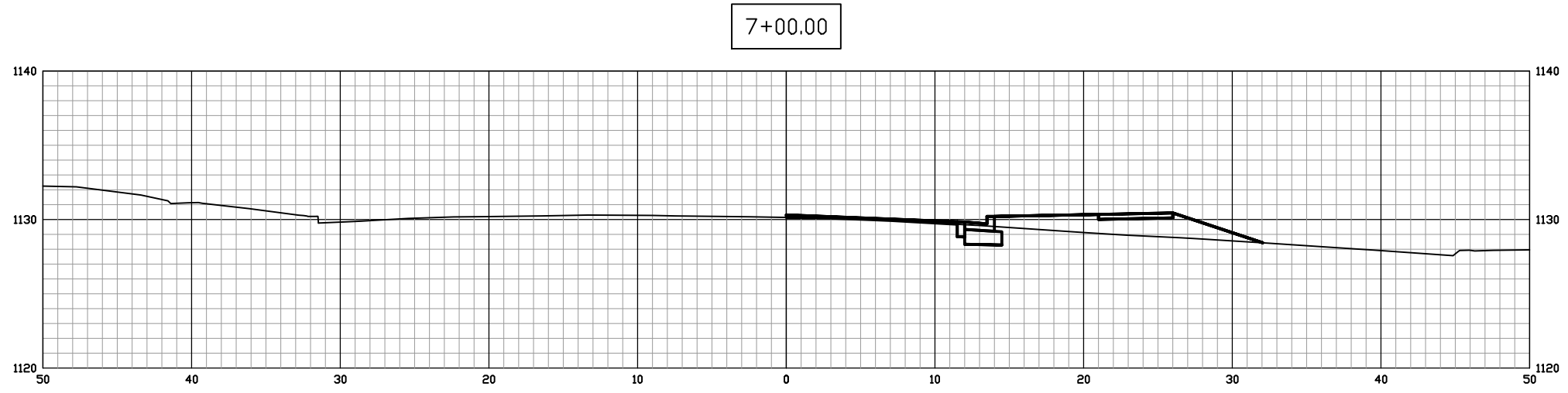
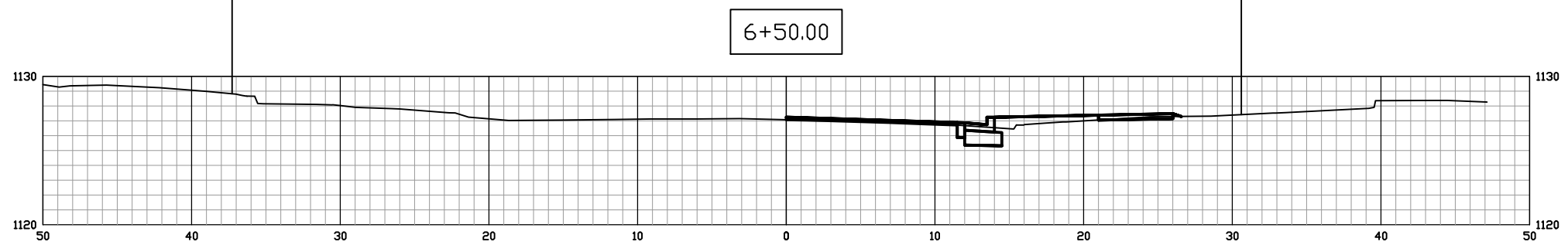
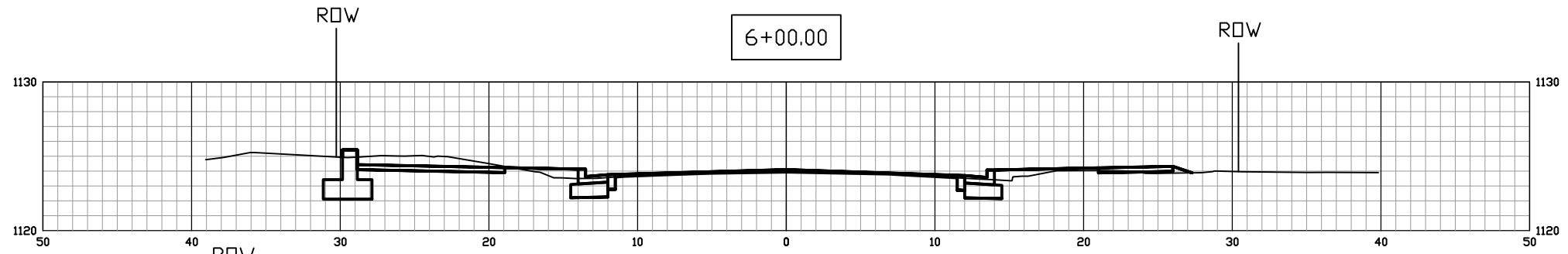
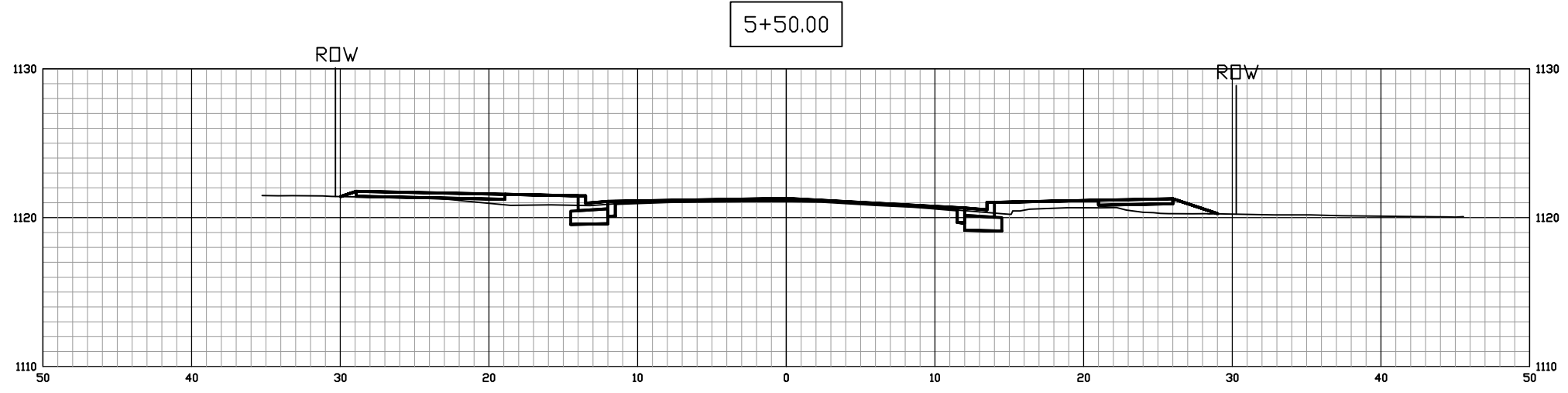
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PINE STREET IMPROVEMENTS
 City of Rolla Public Works Department
 Cross Sections STA 4+50 to STA 5+42.42



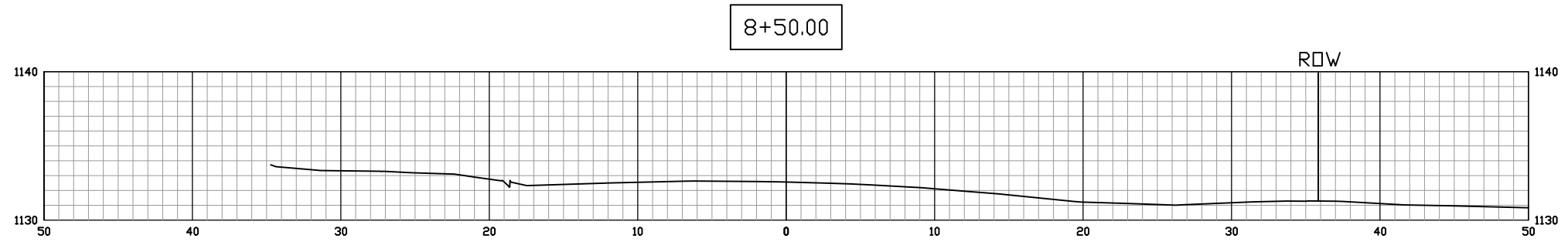
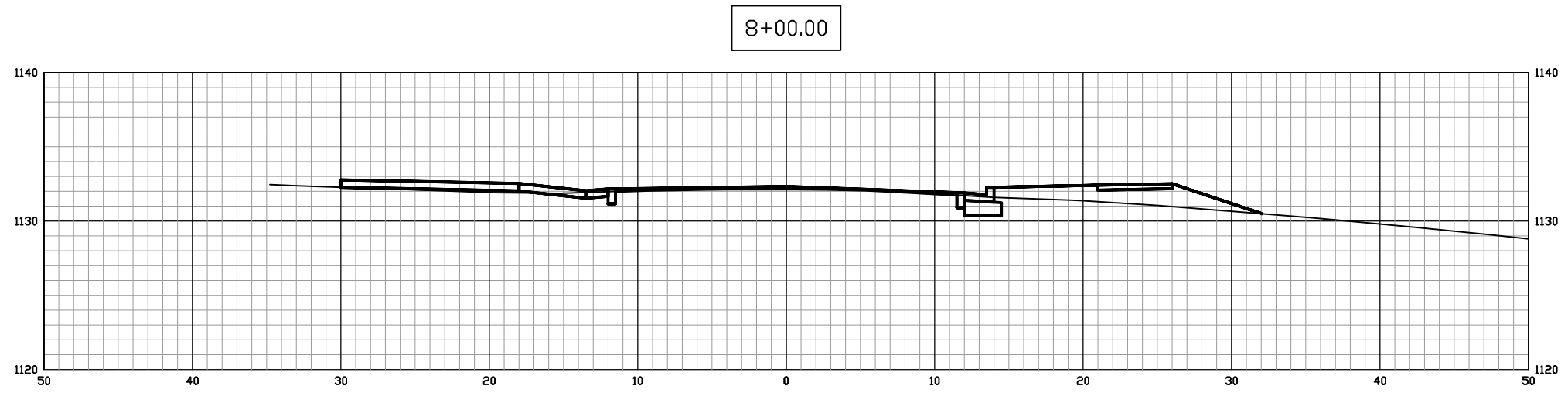
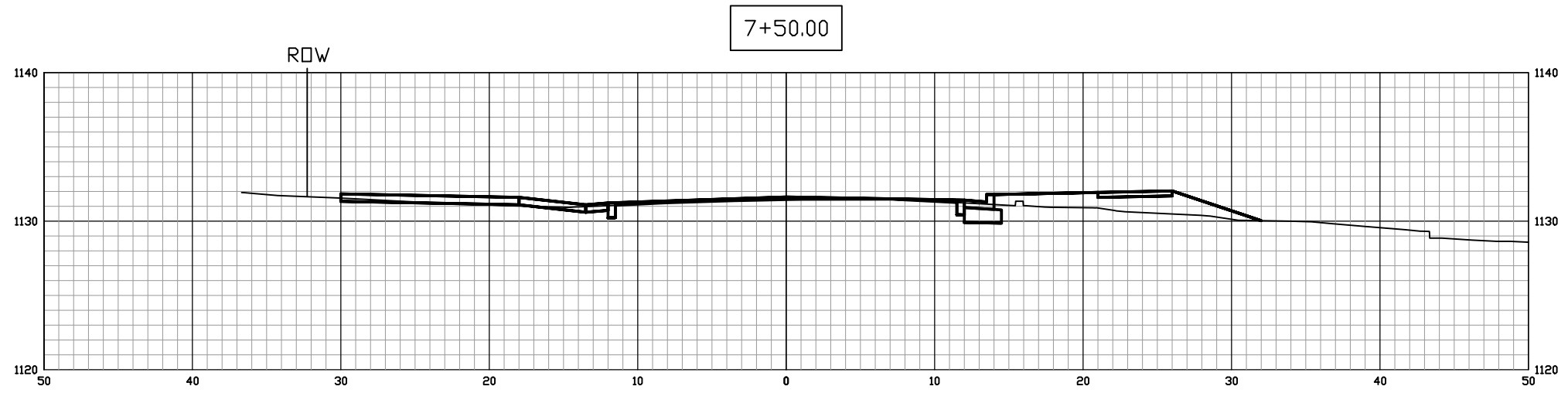
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PINE STREET IMPROVEMENTS
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 Cross Sections STA 5+50 to STA 7+00

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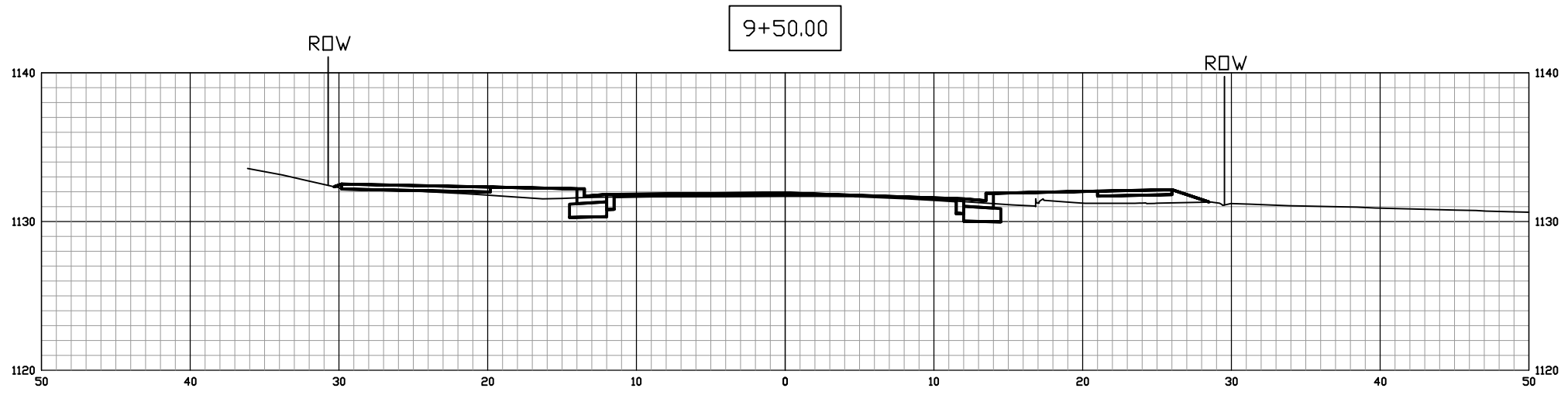
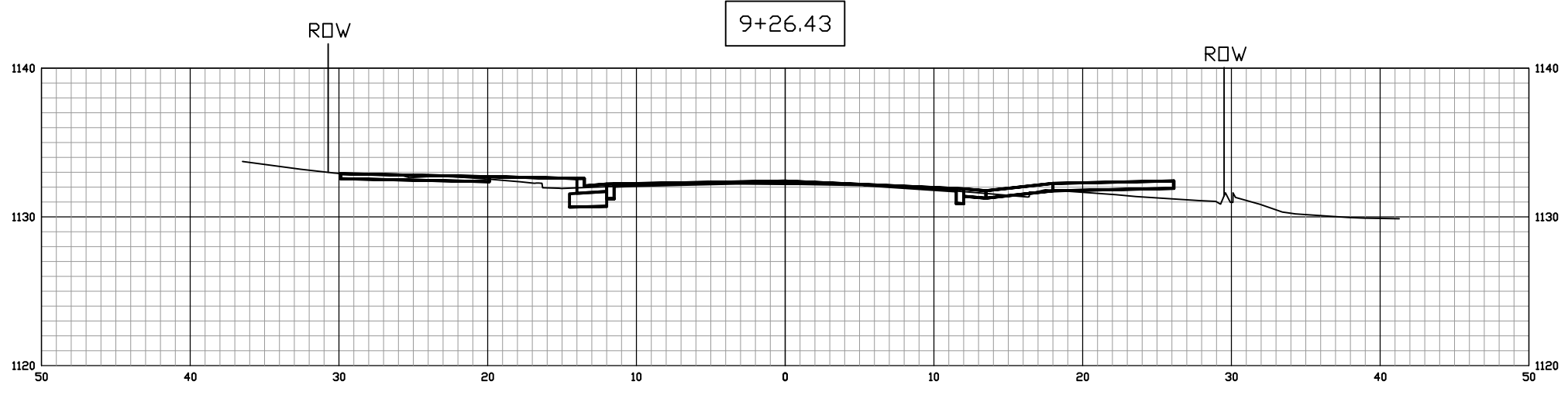
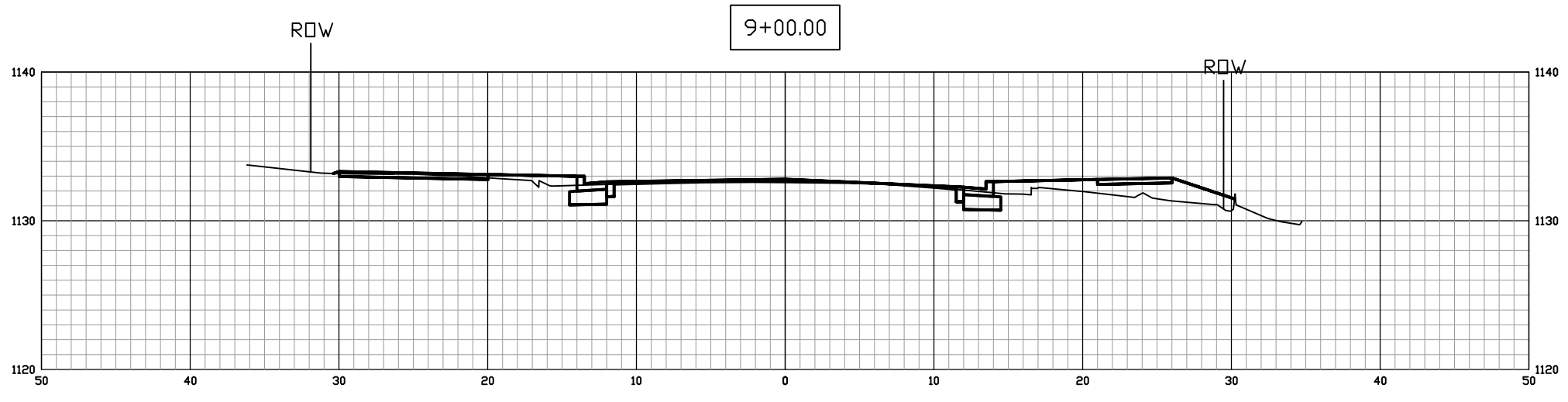
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PINE STREET IMPROVEMENTS
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 Cross Sections STA 7+50 to STA 8+50



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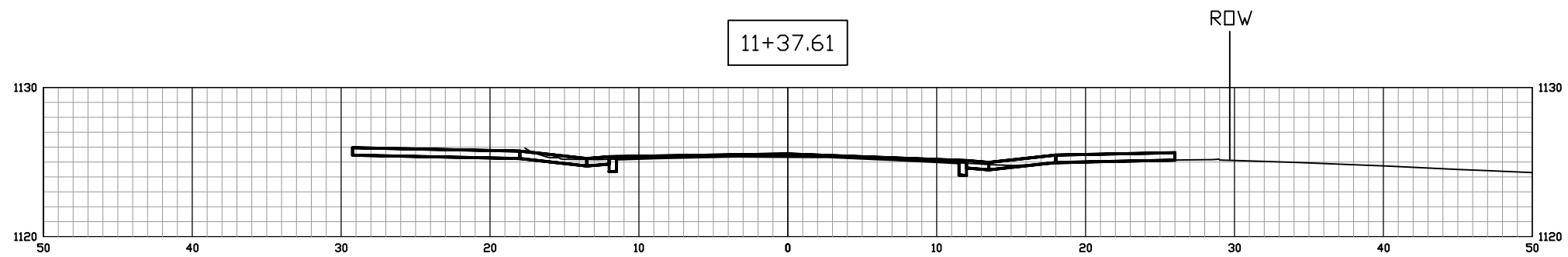
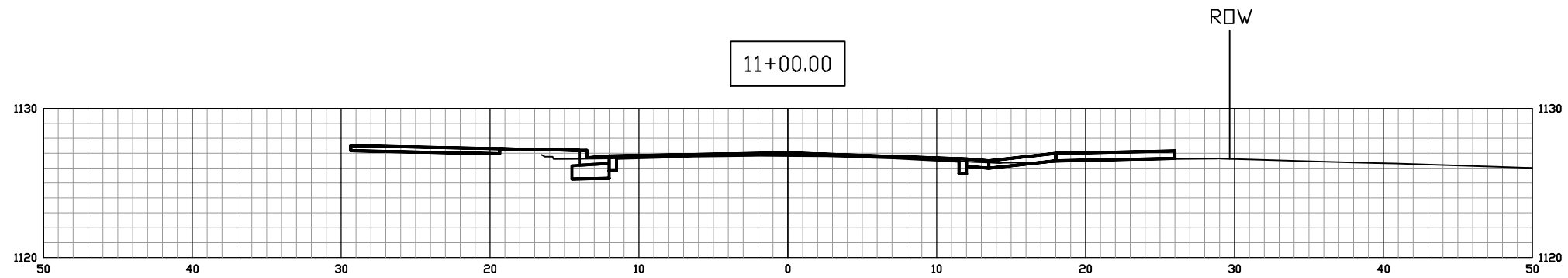
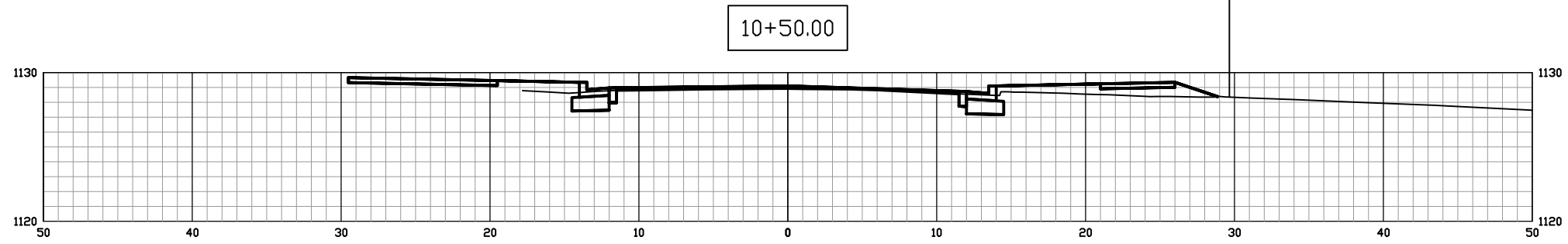
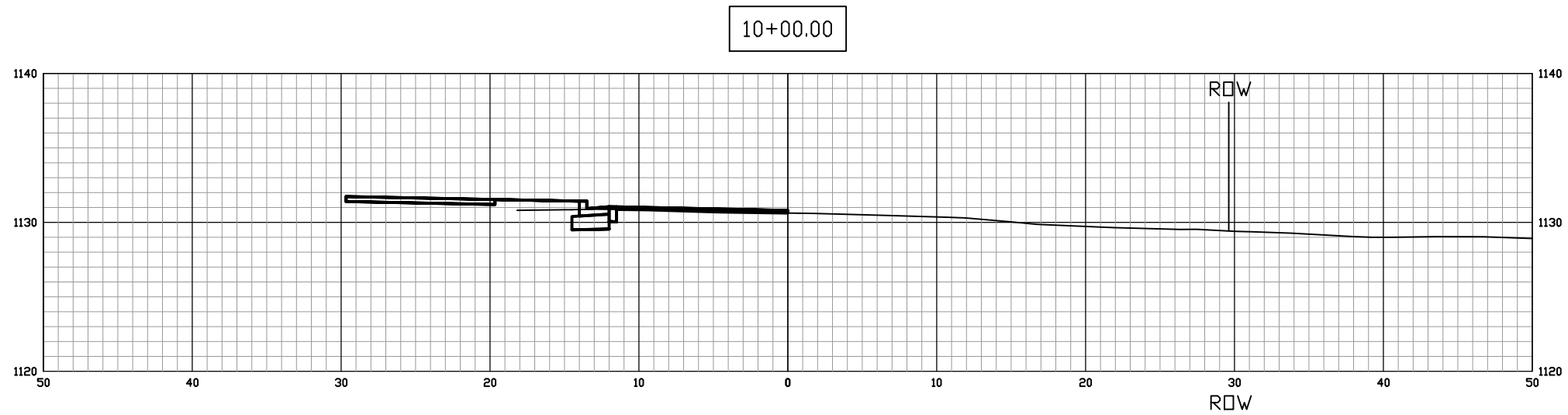
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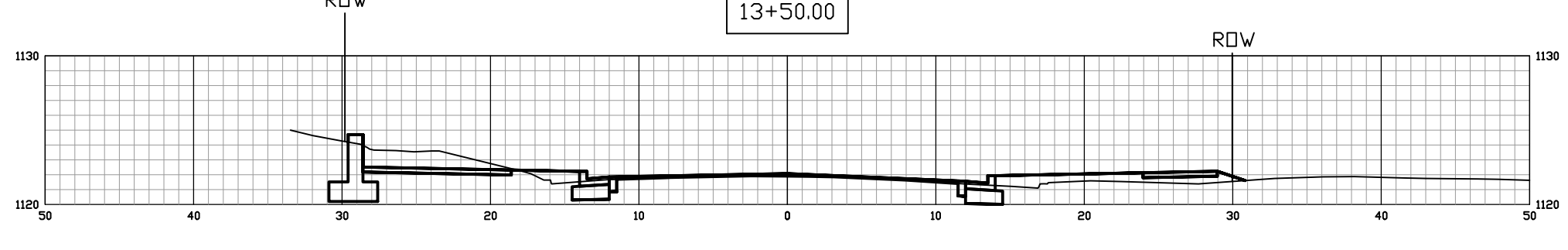
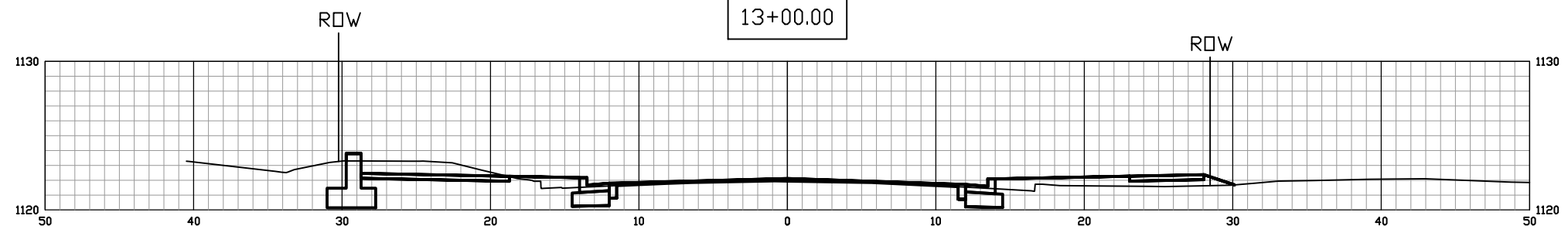
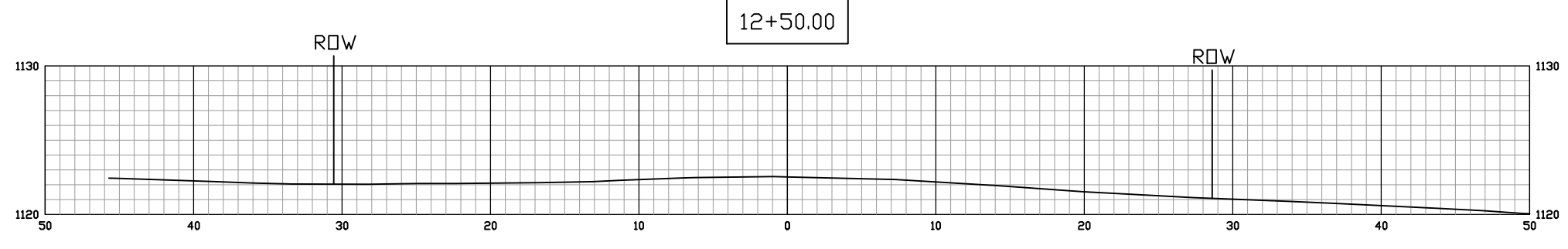
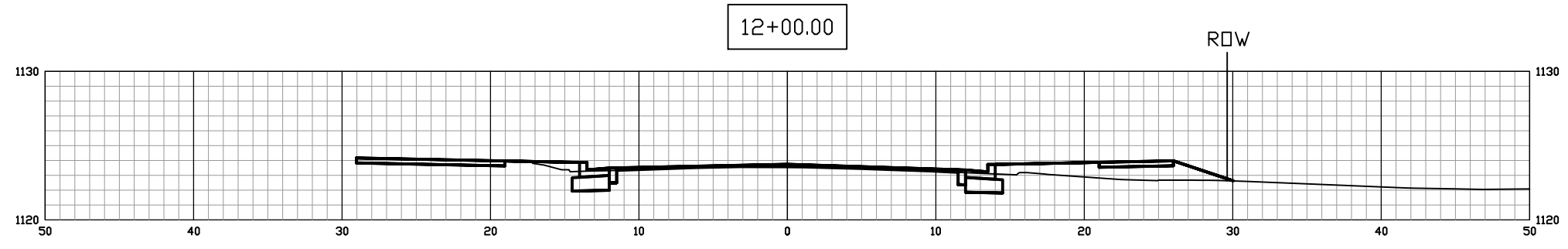
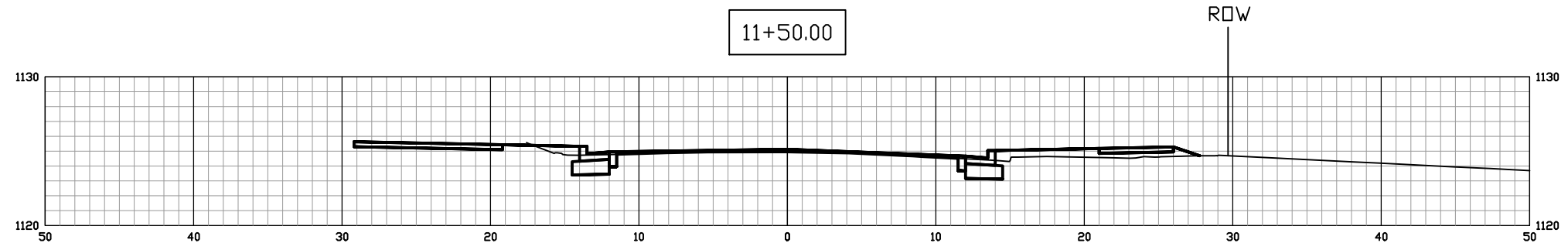
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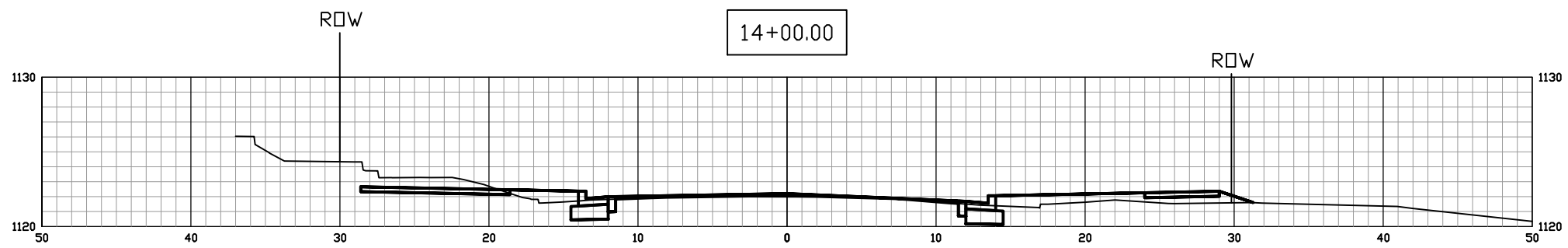
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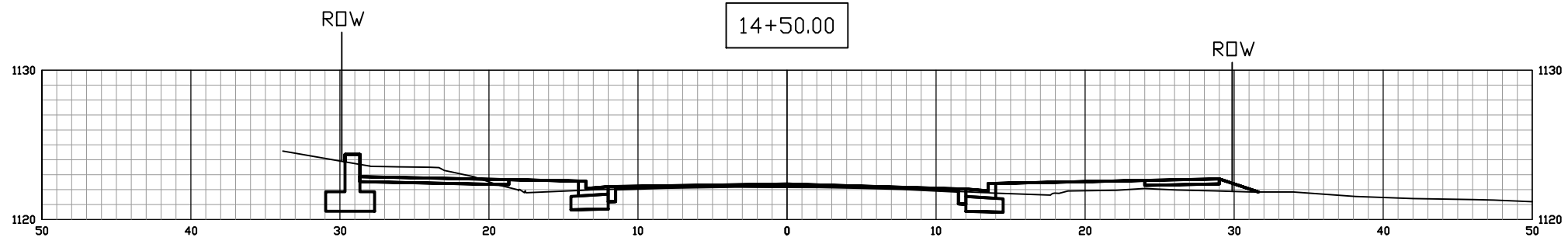
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 City of Rolla Public Works Department
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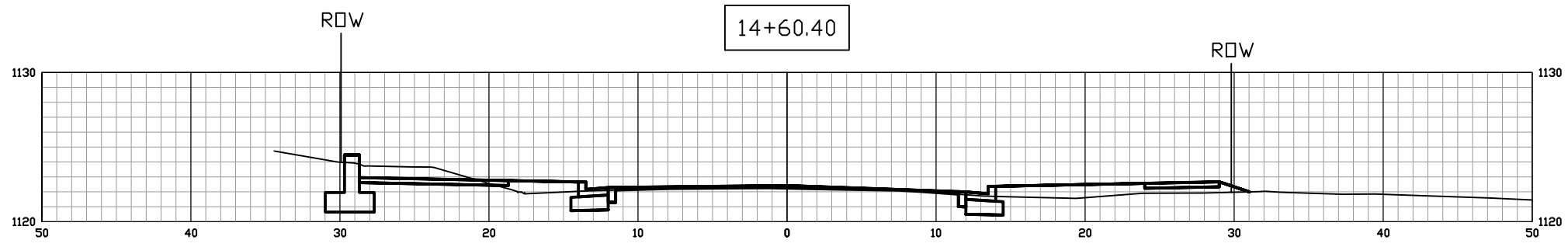
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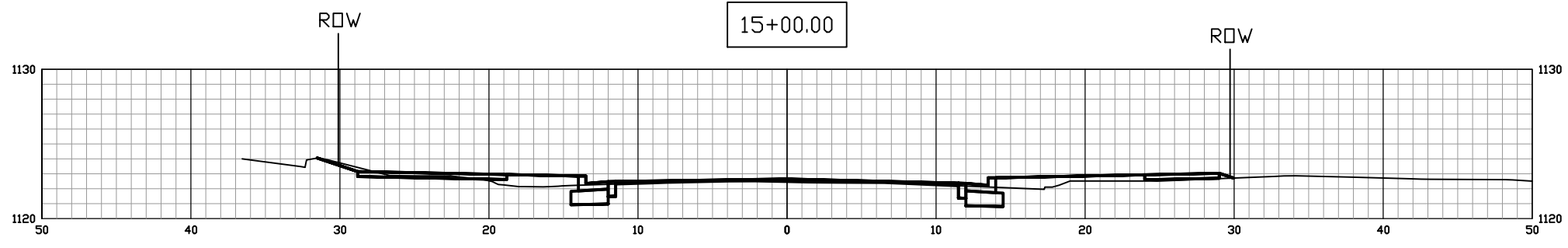
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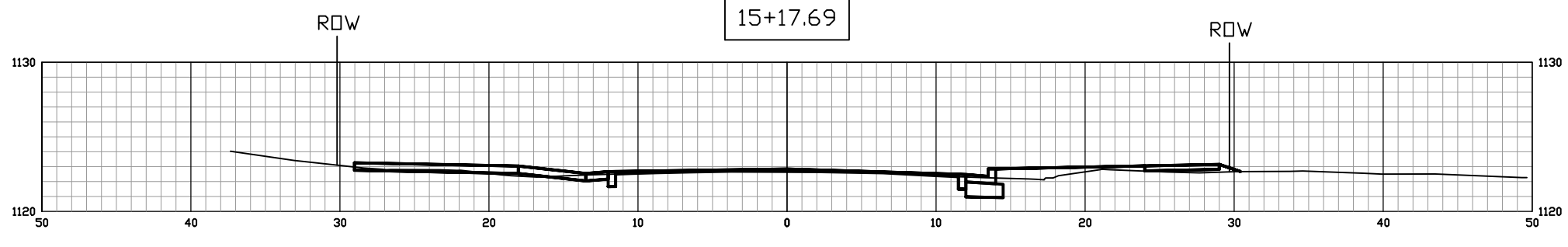
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14+60.40



15+00.00



15+17.69

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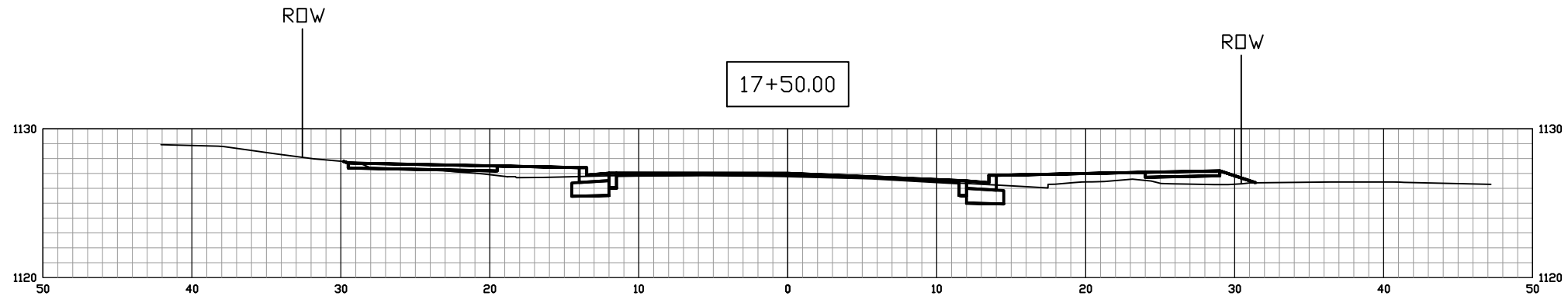
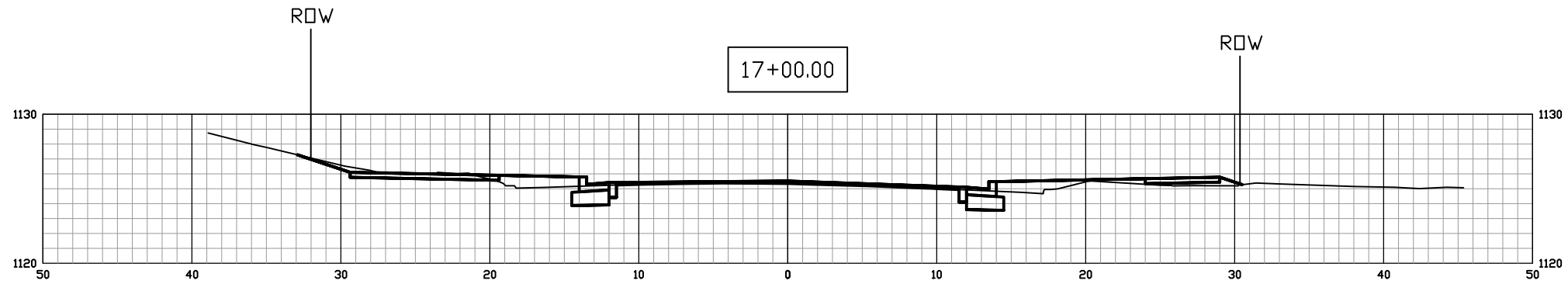
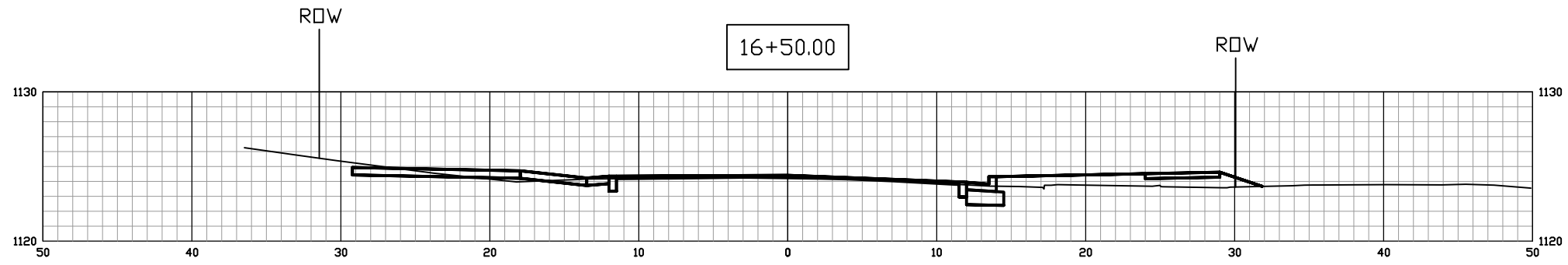
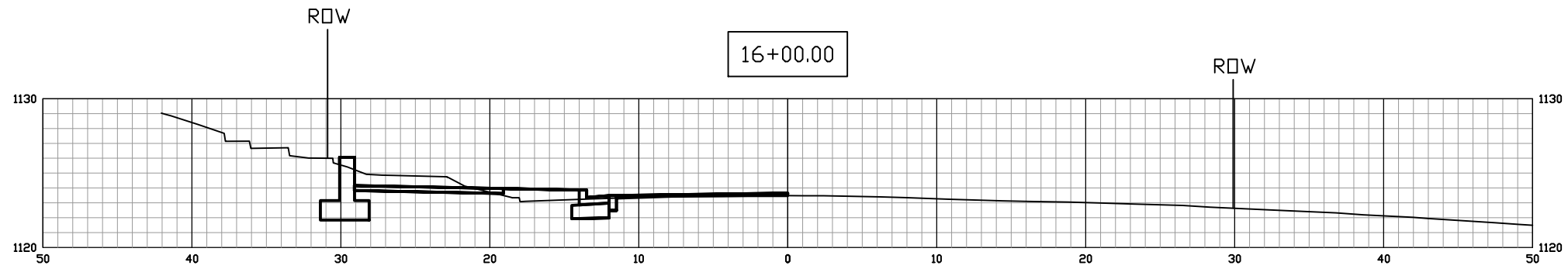
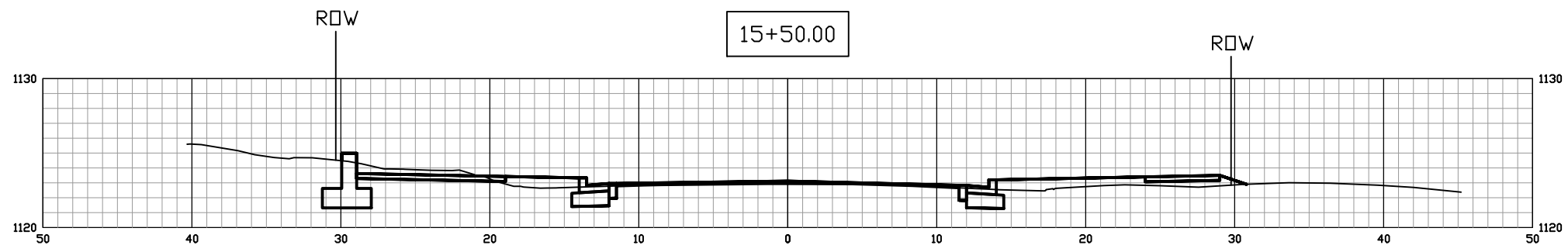
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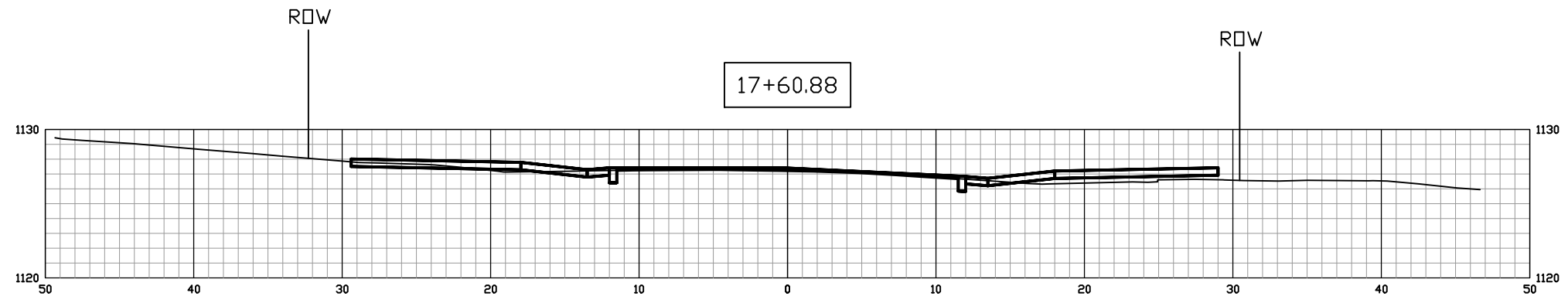
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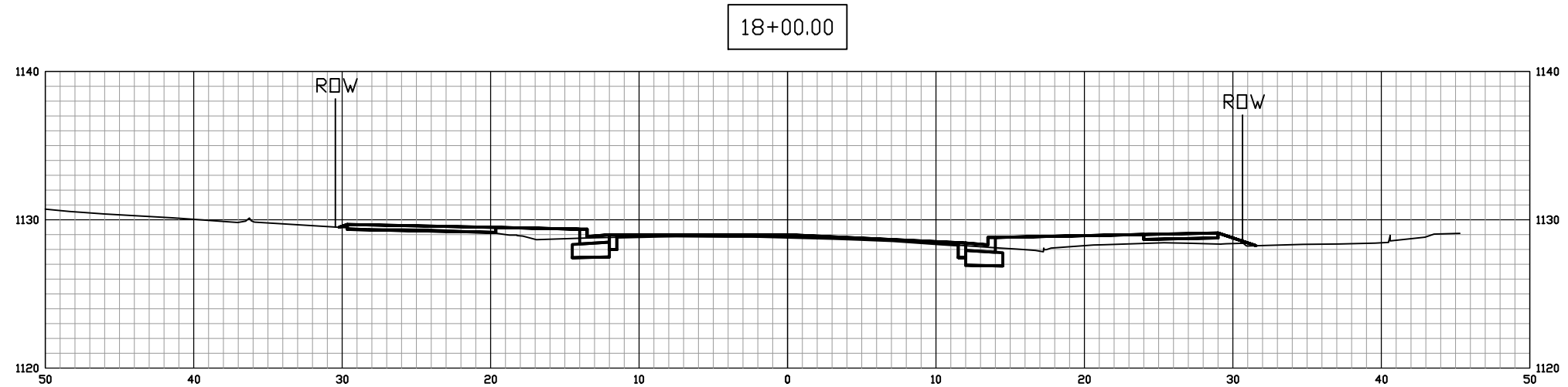
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PINE STREET IMPROVEMENTS
 City of Rolla Public Works Department
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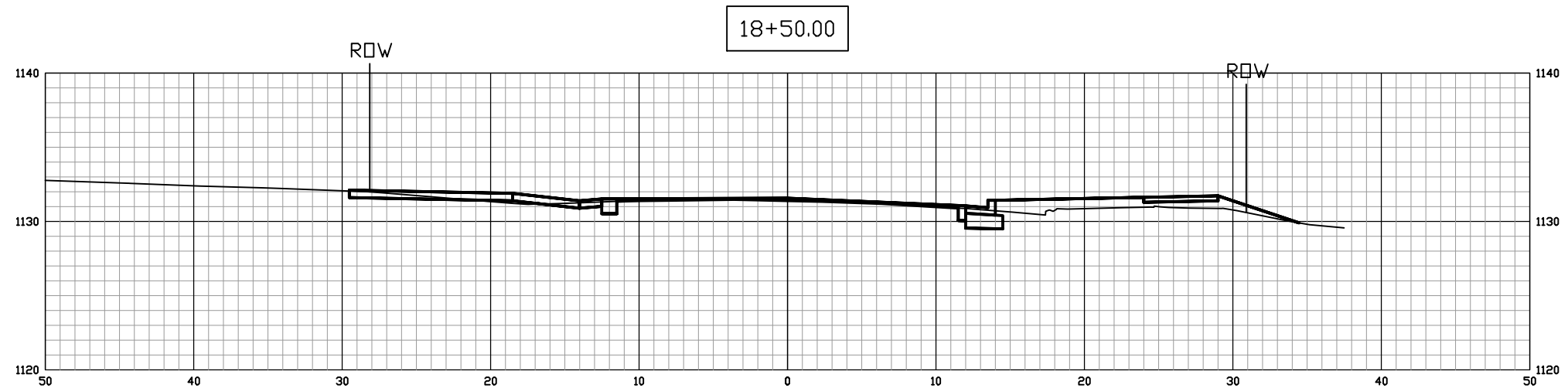
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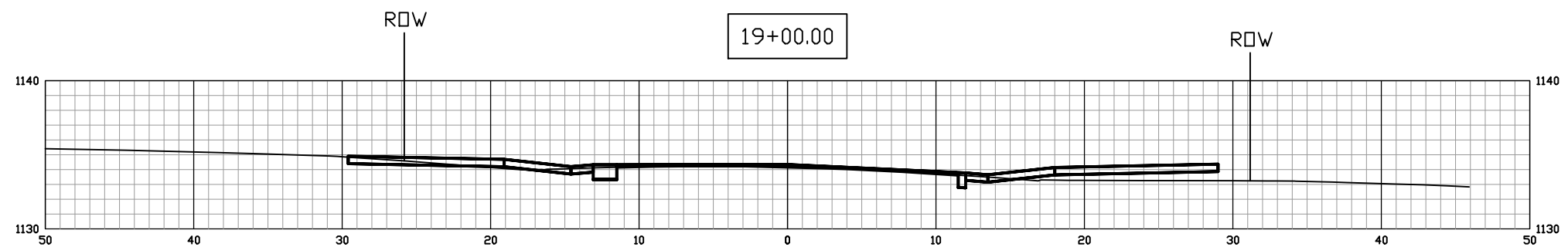
17+60.88



18+00.00



18+50.00

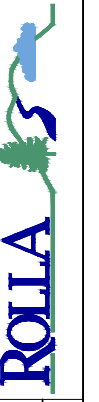


19+00.00

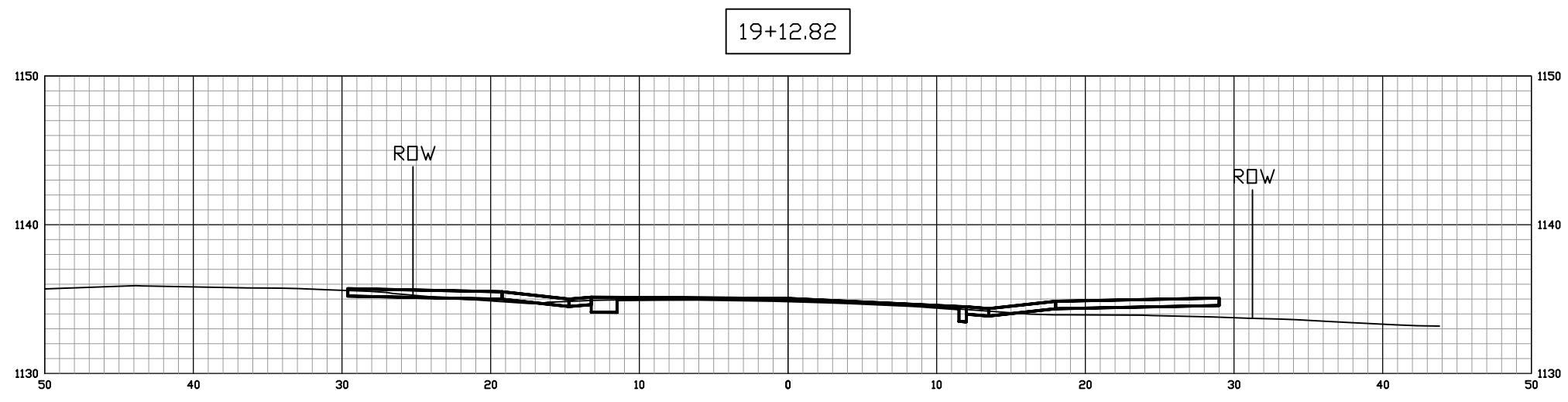
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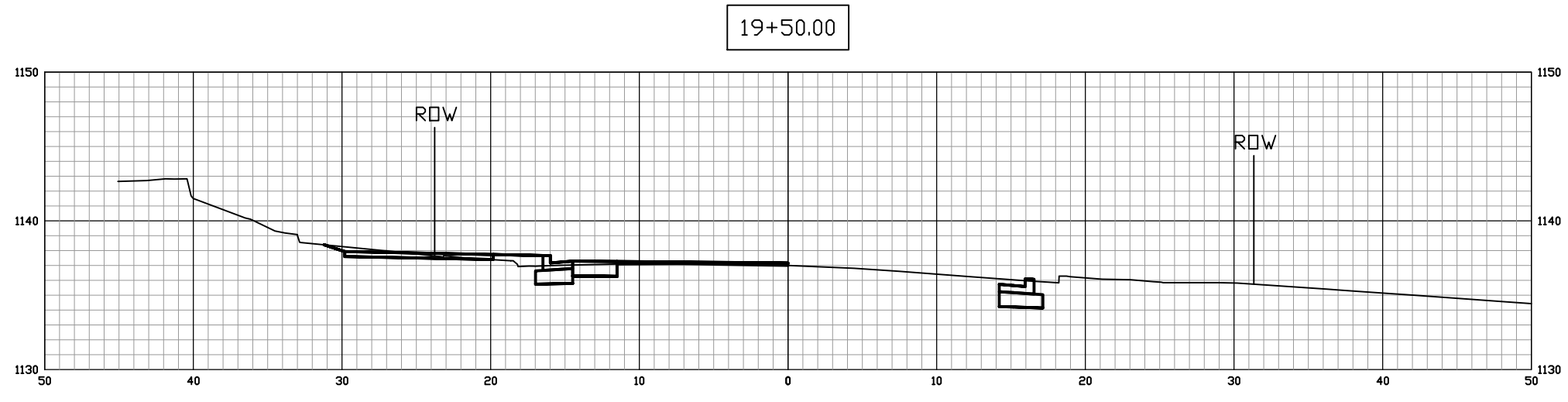
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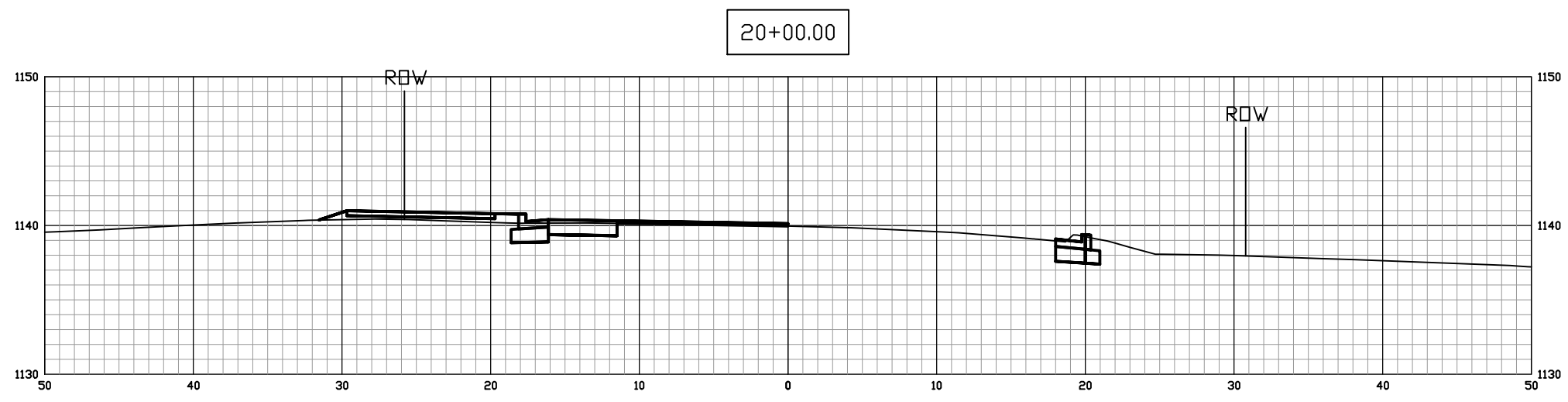
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19+12.82



19+50.00



20+00.00

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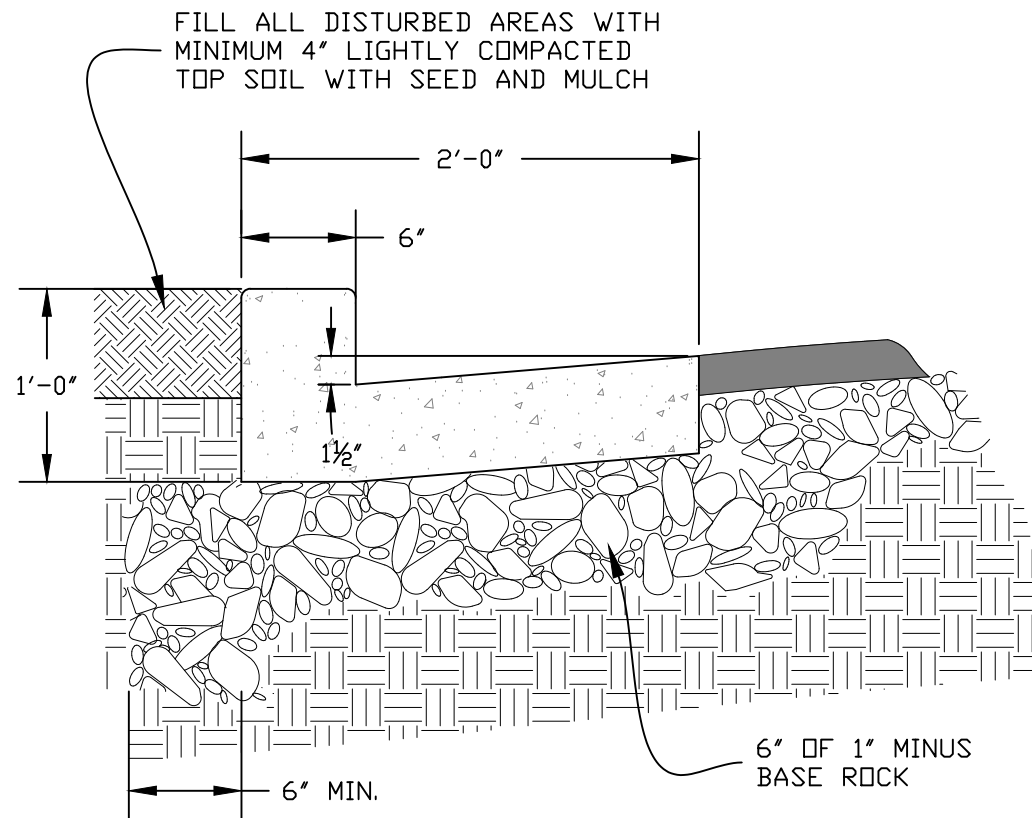
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NOTES:

CONCRETE SHALL BE 6 BAG MIX (4,000 PSI) WITH SLUMP TEST LIMITS OF NOT LESS THAN 1 INCH NOR MORE THAN 4 INCHES.

COLD WEATHER CONCRETE PROCEDURE MUST BE APPROVED BY CITY ENGINEER.

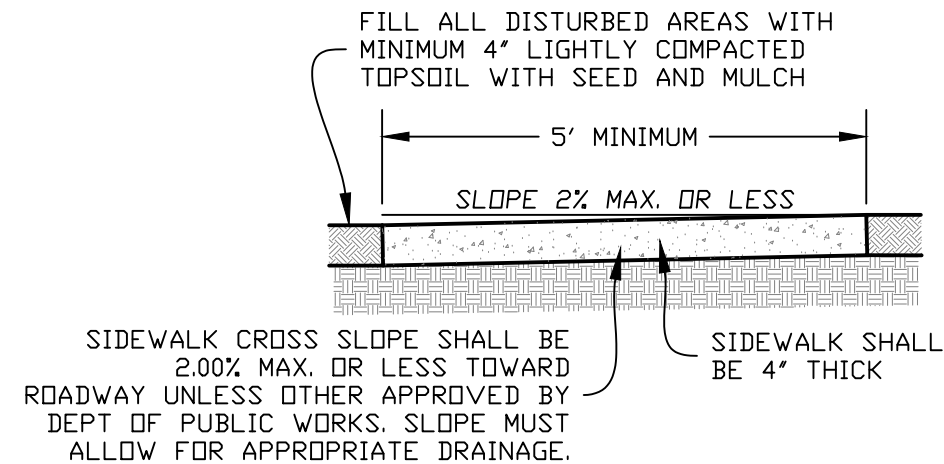
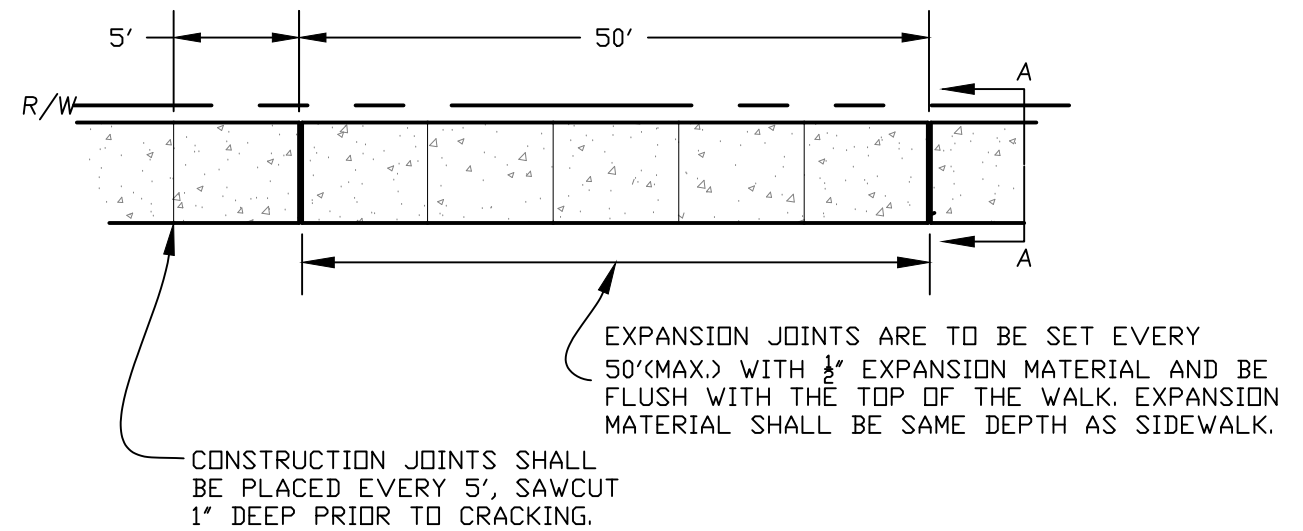
WHERE CURB IS PLACED WITHOUT STREET IMPROVEMENT, A MIN. OF 6 INCHES BASEROCK IS REQUIRED AT NOT LESS THAN 95% STANDARD PROCTER TEST AT OPTIMUM MOISTURE CONTENT.

1/2" PREMOLDED EXPANSION JOINT PLACED EVERY 100 FT. (MIN.) THROUGH ENTIRE CROSS SECTION OF CURB.

CONSTRUCTION JOINTS SHALL BE PLACED EVERY 10 FT., SAWCUT 1" DEEP PRIOR TO CRACKING.

CONCRETE TO HAVE LIGHT BRUSH FINISH AND 1/4" R EDGE ON EXPOSED CORNERS.

1 STANDARD 202
24 CONCRETE CURB & GUTTER SECTION



SECTION A-A

NOTES:

6 BAG CONCRETE MIX (4,000 PSI) SHALL BE USED ON ALL SIDEWALK.

COLD WEATHER CONCRETE PROCEDURE MUST BE APPROVED BY CITY ENGINEER.

ALL FILL UNDER SIDEWALK SHALL BE TO 95% COMPACTION NONORGANIC MATERIAL APPROVED BY DEPARTMENT OF PUBLIC WORKS.

WHEN CROSSING THE WIDTH OF A DRIVEWAY, SIDEWALK SHALL BE 6" THICK CONCRETE WITH 6" OF 1" CLEAN ROCK UNDERNEATH.

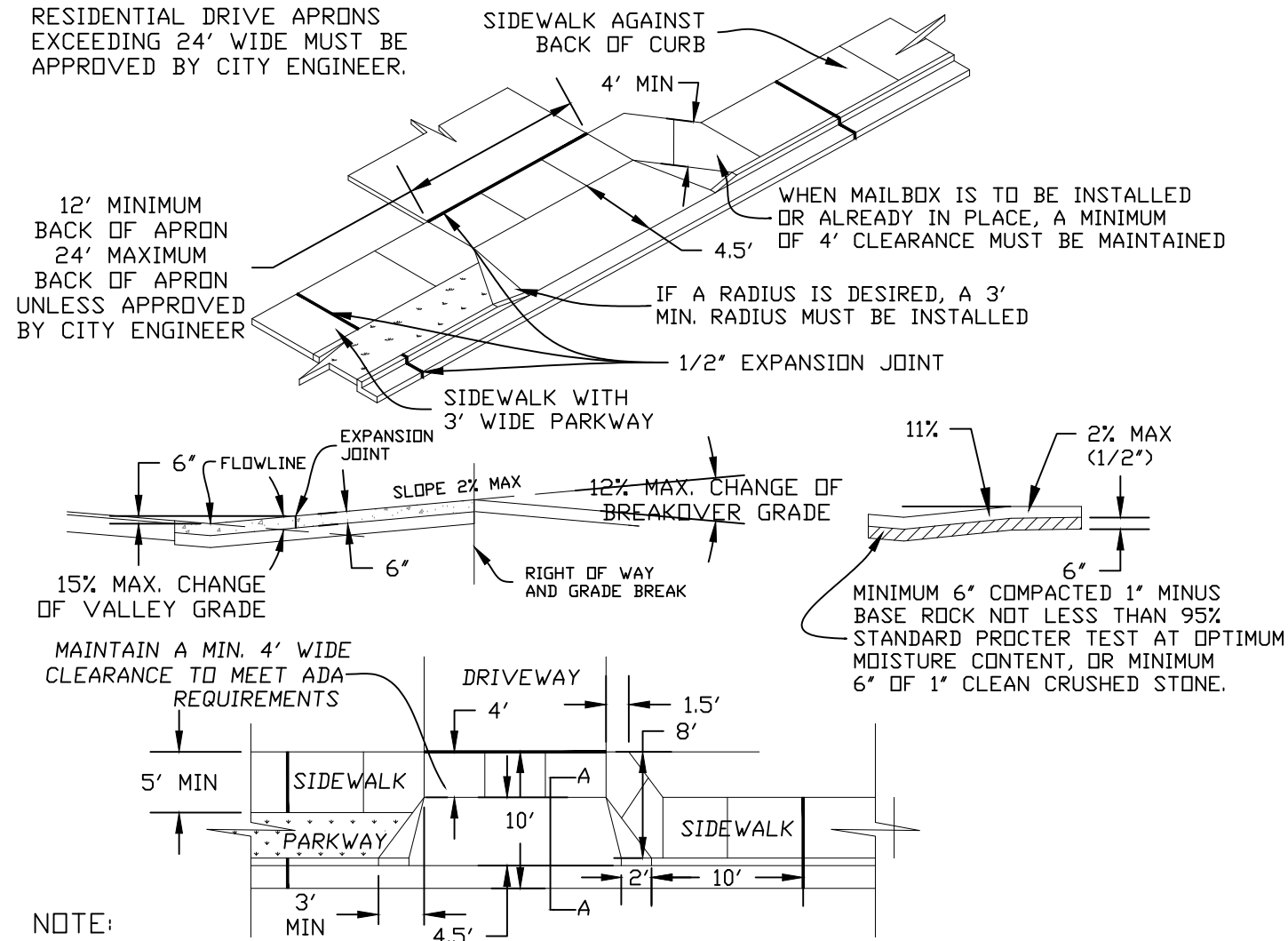
CONCRETE TO HAVE LIGHT BRUSH FINISH AND 1/4" R EDGE ON EXPOSED CORNERS.

2 STANDARD 204
24 CONCRETE SIDEWALK STANDARD

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CONSTRUCTION JOINT 1" DEEP AND GROOVED OR SAWCUT AT END OF TAPER PRIOR TO CRACKING. FOR DRIVE APRONS EXCEEDING 12' WIDE, CONSTRUCTION JOINTS SHALL BE EVENLY SPACED ACROSS APRON AT INCREMENTS NO GREATER THAN 12'6". ADDITIONAL EXPANSION JOINTS SHALL BE USED IF APRON IS POURED IN SEPARATE POURS. FOR DRIVE APRONS EXCEEDING 25' WIDE, EXPANSION JOINTS SHALL BE EVENLY SPACED ACROSS APRON AT INCREMENTS NO GREATER THAN 25'.

RESIDENTIAL DRIVE APRONS EXCEEDING 24' WIDE MUST BE APPROVED BY CITY ENGINEER.



NOTE:

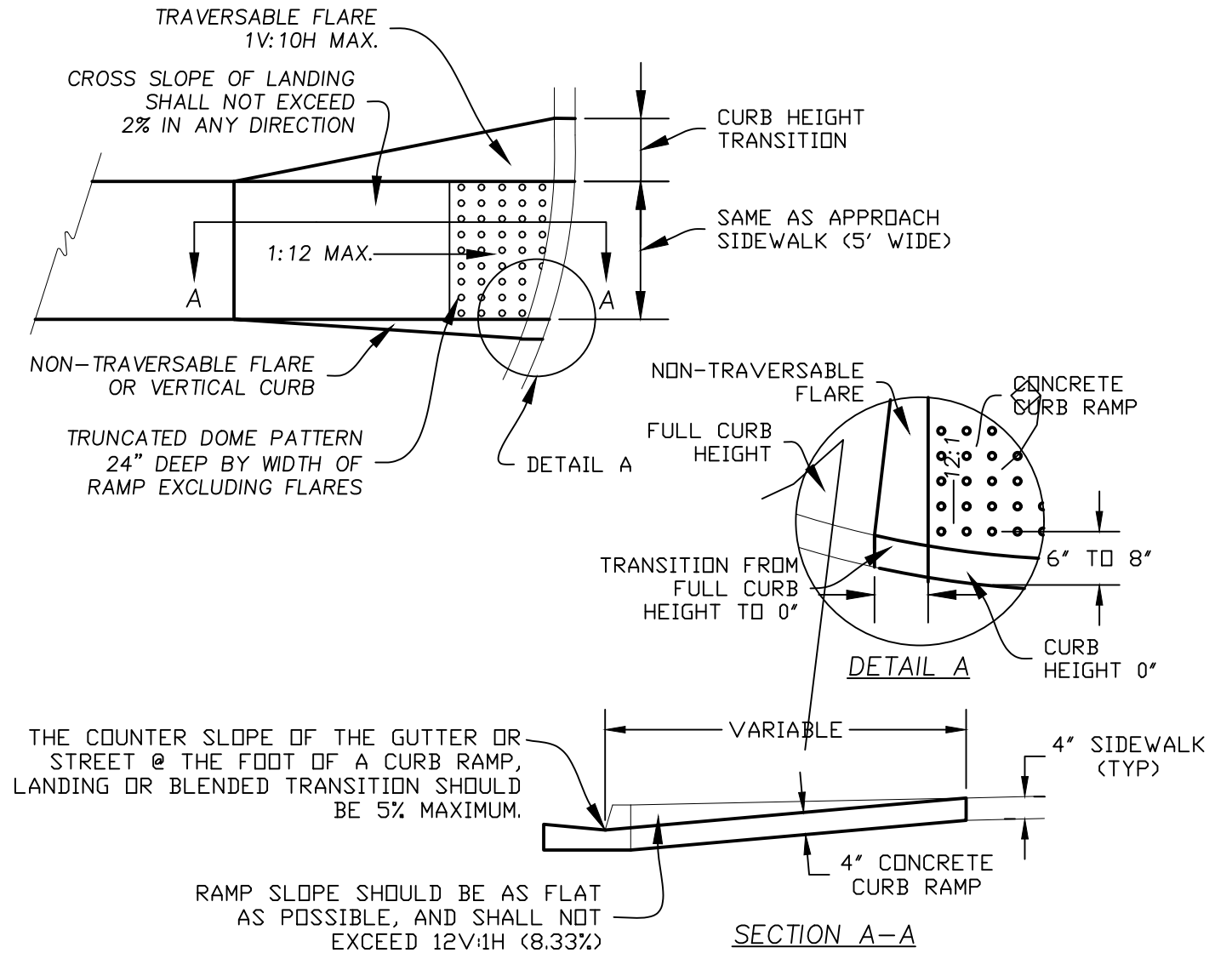
WHEN INSTALLING A NEW CONCRETE DRIVE AT EXISTING CONCRETE CURB AND GUTTER, THE ENTIRE CURB AND GUTTER SECTION IN THE AREA OF THE NEW DRIVE MUST BE REMOVED BY EITHER SAWCUTTING OR REMOVING TO AN EXISTING JOINT.

CONCRETE SHALL BE 6 BAG MIX (4,000 PSI) WITH SLUMP TEST LIMIT OF NOT LESS THAN 2 INCHES NOR MORE THAN 4 INCHES.

COLD WEATHER CONCRETE PROCEDURE MUST BE APPROVED BY CITY ENGINEER.

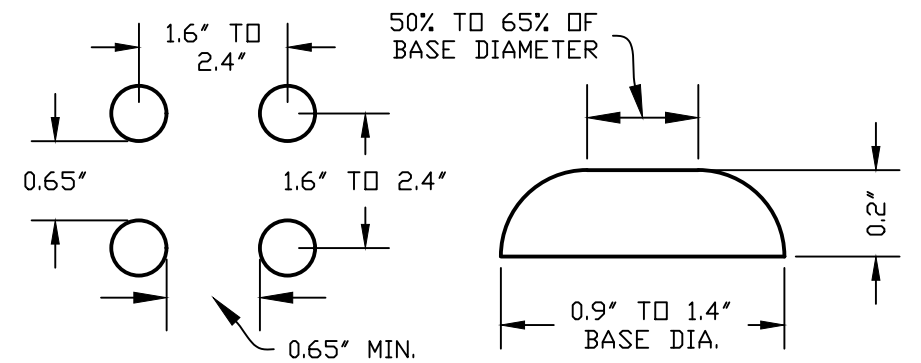
AN EXCAVATION PERMIT IS REQUIRED TO DIG IN PUBLIC RIGHT OF WAY. PERMIT SHALL BE OBTAINED FROM THE CITY OF ROLLA COMMUNITY DEVELOPMENT DEPARTMENT AT (573) 364-5333. AN INSPECTION IS REQUIRED BEFORE POURING ANY CONCRETE IN PUBLIC RIGHT OF WAY. CONTACT THE CITY OF ROLLA PUBLIC WORKS DEPARTMENT AT (573) 364-8659 FOR INSPECTION.

1 STANDARD 212
26 ADA COMPLIANT DISHPAN DIVEWAY STANDARD



THE COUNTER SLOPE OF THE GUTTER OR STREET @ THE FOOT OF A CURB RAMP, LANDING OR BLENDED TRANSITION SHOULD BE 5% MAXIMUM.

RAMP SLOPE SHOULD BE AS FLAT AS POSSIBLE, AND SHALL NOT EXCEED 12V:1H (8.33%)

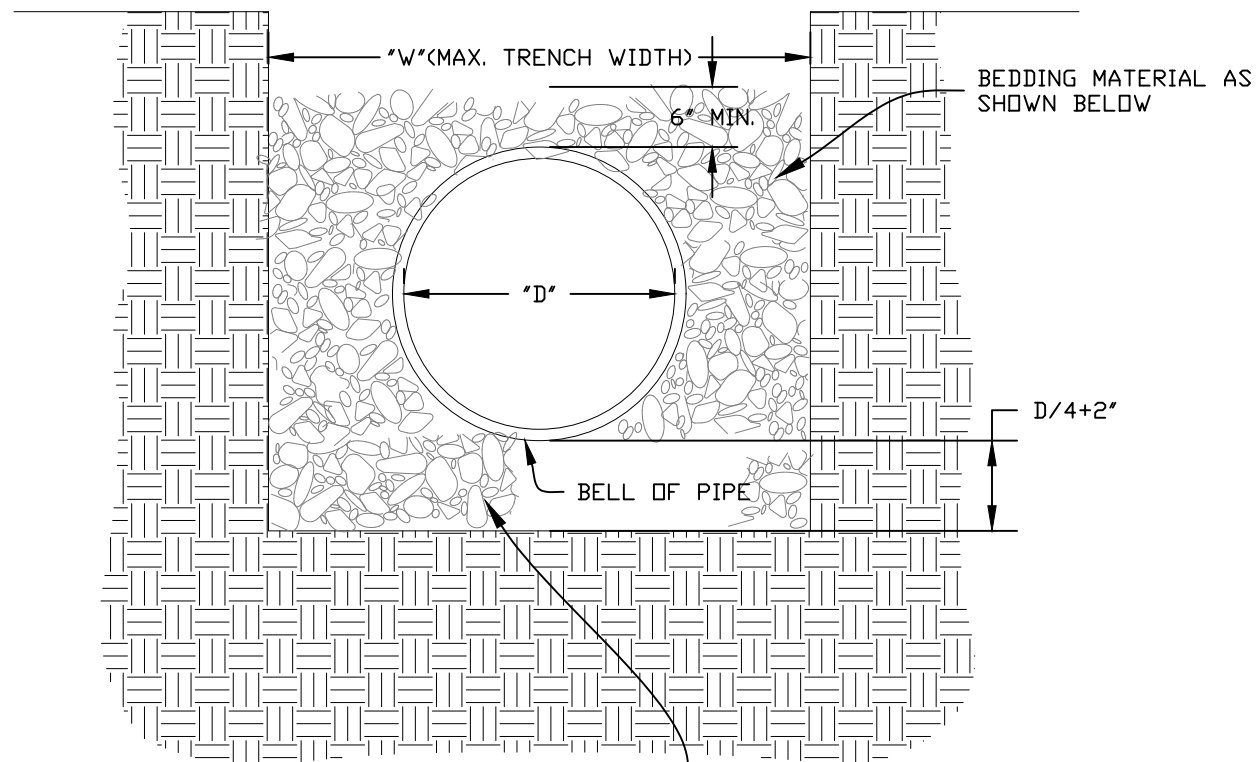


SPACING

CROSS SECTION

ALL DOMES WITHIN CITY R.O.W. MUST BE BARE CAST IRON WET SET.

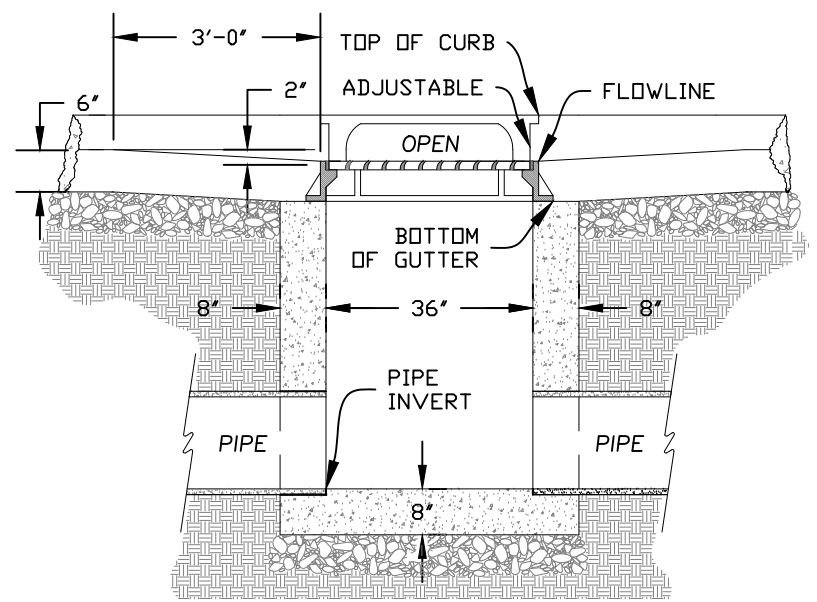
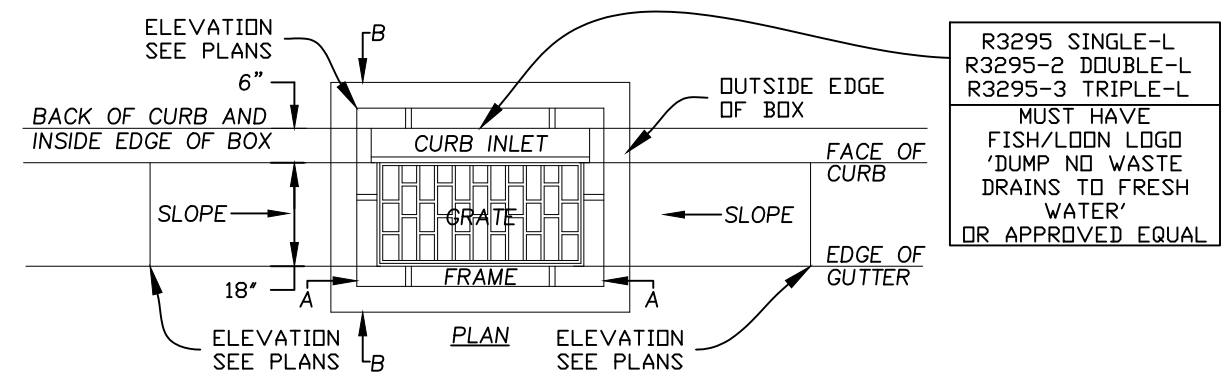
2 STANDARD 251
26 TRUNCATED DOME STANDARD



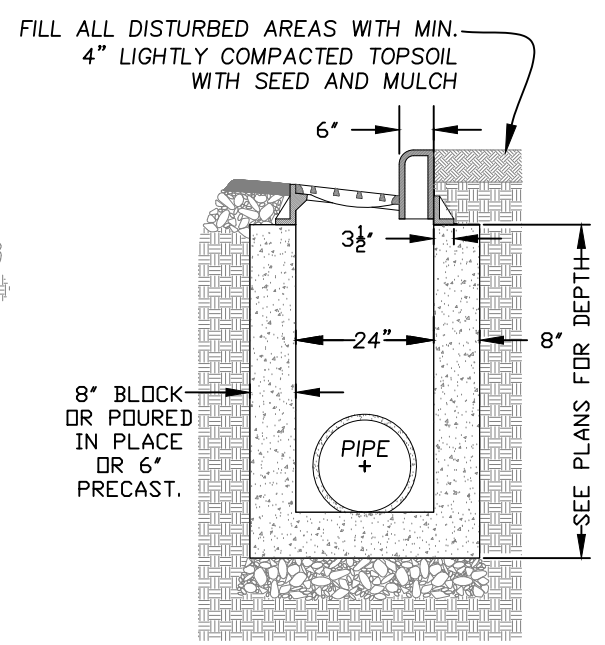
SHAPE BEDDING PRIOR TO INSTALLATION OF PIPE TO A DEPTH OF $D/4+2'$

MAXIMUM TRENCH WIDTH	
SEWER SIZE "D"	MAXIMUM TRENCH WIDTH "W"
8"	24"
10"	24"
12"	30"
15"	30"
18"	36"
21"	42"
24"	48"

CRUSHED LIMESTONE BEDDING		
GRADATION IN PERCENTAGES BY WEIGHT PASSING SQUARE MESH SCREENS		
SCREEN SIZE	% PASSING	RETAINED
1"	100%	-
3/4"	95%	-
NO. 4	-	95%



SECTION A-A



SECTION B-B

NOTES:

WALL CONSTRUCTION SHALL BE 8" POURED IN PLACE CONCRETE, 8"Tx8"Hx16"L CONCRETE BLOCK GROUTED SOLID, OR 6" PRECAST CONCRETE.

BASE CONSTRUCTION SHALL BE POURED IN PLACE CONCRETE FORMED TO DIMENSION SHOWN.

CONCRETE SHALL BE 6 BAG MIX (4,000 PSI) WITH MINIMUM SLUMP OF 1 INCH AND MAXIMUM SLUMP OF 4 INCHES.

1 STANDARD 305
27 BEDDING DETAIL

2 STANDARD 401
27 CATCH BASIN AND CURB INLET INSTALLATION DETAIL

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