PAWNEE TURN LANE IMPROVEMENTS

to serve

USD 259 4th ADDITION

CITY OF WICHITA, KANSAS

Gary Janzen, P.E. City Engineer
Project Number 472-84942
O.C.A. NO. 766319

GENERAL NOTES:

1. The Contractor shall comply with all applicable safety regulations. All construction shall be completed following current City Standard Specifications and Special Provisions.

2. Contractor will be required to provide notice to utility companies a minimum of seventy-two (72) hours prior to any excavation, as follows:

   Kansas One-Call 687-2470

   The Contractor must notify the following in case of an emergency:

AT&T	1-800-286-8313
Black Hills Energy	941-1628
Butler Co. Rural Electric	321-9600
City of Wichita Water Department	262-6000
City of Wichita Sewer Maintenance	262-6000
Cox Communications	260-7204
Kansas Gas Service	1-888-482-4950
Phillips 66 Pipeline	1-580-767-3324
Westar	383-8600

3. Utility service lines, poles, etc. are to be adjusted as necessary by others prior to construction unless the plans specifically call for their adjustment by the Contractor or unless the plans specifically identify a utility to be adjusted by its owner during construction. Existing utilities and their location, as shown on the plans, represent the best information obtainable for design. The Contractor will be required to work around existing utilities within the right-of-way which do not conflict with proposed construction.

4. Rubble from the removal of miscellaneous structures and excess excavation which is to be wasted shall be disposed of on sites to be provided by the Contractor. These sites shall be approved by the Engineer as to suitability, appearance and site location. Locations, in the opinion of the Engineer, that will leave an unsightly appearance will not be approved. All disposal sites must be approved by the Kansas Department of Health and Environment. Material either stockpiled or disposed of in a flood plain would require a Kansas State Board of Agriculture permit. Any material dumped in waters of the United States or wetlands is subject to U.S. Corps. of Engineers permitting regulations. Any material buried or stockpiled beyond approved construction limits would require additional archaeological investigations unless buried in a previously approved borrow location.

5. Trees and shrubs in public right-of-way which are in direct conflict with proposed new construction shall be removed by the Contractor with the Engineer's approval. Trees and shrubs which are not in direct conflict with proposed new construction shall be saved and protected from damage.

6. The Contractor shall give all property owners and/or tenants of developed property abutting the construction of this project a minimum of ten (10) days notice prior to start of construction.

7. The Contractor shall be responsible for preserving property irons. The Contractor will be required to re-establish any property irons which are damaged or destroyed by his construction operations. Such irons shall be re-established by a licensed land surveyor in accordance with state laws.

8. The Water Distribution Division shall field locate water valves one time during construction when requested by the Contractor. It shall be the Contractor's responsibility to preserve such field locations during the construction process. Water valves, valve boxes or fire hydrants damaged during construction shall be repaired by the Contractor at his own expense. Valve boxes and water meters within the project limits shall be adjusted to match field grades.

9. If traffic is impacted by construction, a traffic control plan must be submitted and approved by the City Traffic Engineer, Brian Coon at traffic@wichita.gov before construction can begin. The Contractor shall be responsible for all traffic control measures to facilitate construction. All construction zone markings and signage shall conform to the latest version of the Manual on Uniform Traffic Control Devices (MUTCD) as published by the US Dept. of Transportation, Federal Highway Administration. All costs associated with construction markings and signage shall be the Contractors responsibility.

10. All elevations shown are U.S.G.S. Datum (NGVD 88).

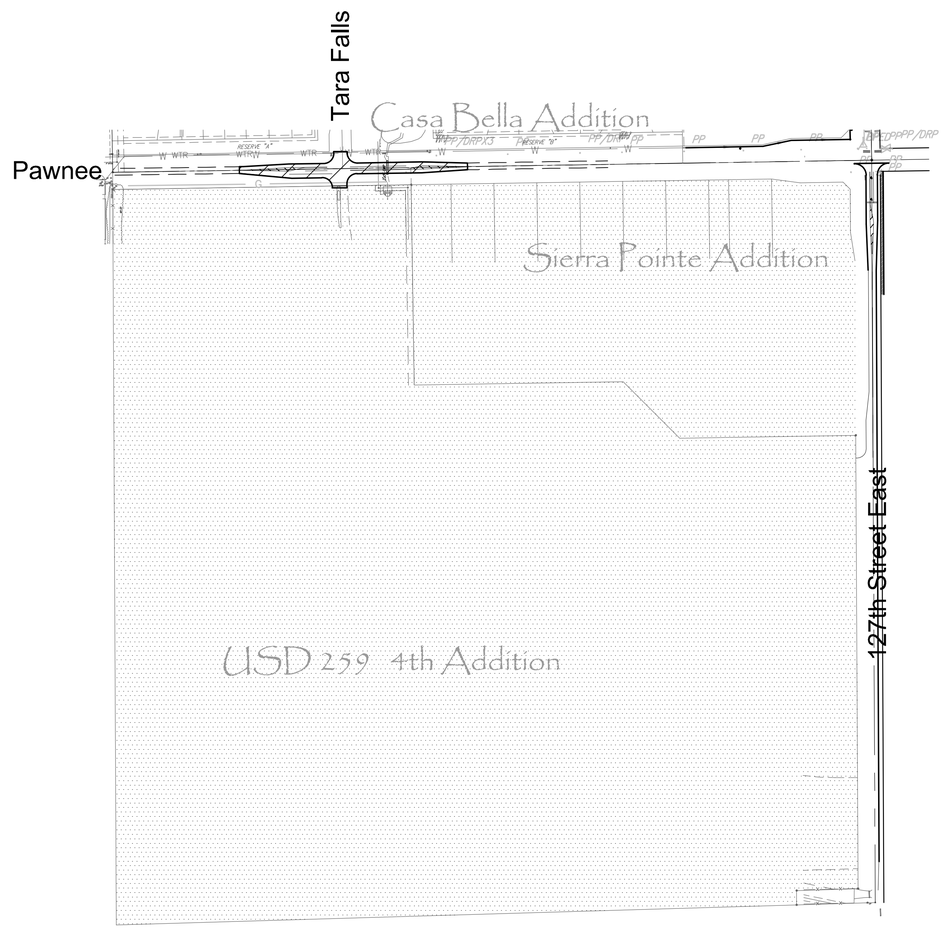
11. All areas disturbed during construction that will not be under proposed pavement shall be restored to match existing conditions.

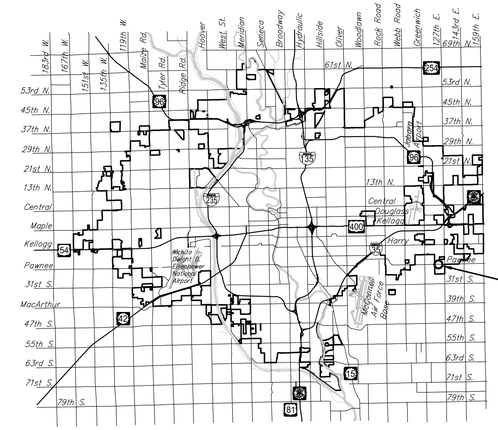
12. All existing pavement and curb and gutter within the construction limits shall be saw cut, full depth, to the lines shown on the plans, or to the nearest joint, and removed, unless otherwise noted. If removal limits are within three feet of a joint, remove to the joint.

13. All traffic control devices in the work zone (including markings and signs) and their installation and maintenance shall comply with the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD). All traffic control devices in the traveled way or clear zone shall be crashworthy (NCHRP Report 350 or MASH compliant). http://safety.fhwa.dot.gov/roadway dept/policy guide/road hardware/wzd

14. All construction equipment, including vehicles, materials, and debris, shall be stored outside of the clear zone. Where this cannot be achieved the contractor shall place appropriate signs, abject identifiers, and/or barricades in compliance with the MUTCD.

15. Except when required for safety, traffic control shall not block any lanes or sidewalks when work is not being performed.





Vicinity Map

Sheet Index

1. TITLE SHEET
2. TYPICAL SECTION
3. PLAN & PROFILE
4. GRADING PLAN
5. PAVEMENT MARKING PLAN
6. SOLAR PEDESTAL DETAILS
7. EROSION CONTROL PLAN
8.-12. CROSS SECTIONS

(EROSION CONTROL STANDARDS SW-501, SW-502, SW-503, SW-504, SW-505 ARE AVAILABLE ON CITY'S WEBSITE)

Benchmarks

BENCHMARK #1: SRB BRASS DISC 55.45' E. & 5.13' S. OF THE N.W. COR. SW 1/4, SEC. 35, T27S, R2E. ELEV.=1348.35 (NGVD29) = 1348.83 (NAVD88)

Improvement Districrt

50' 0 25' 50'

KENNETH W. LEE LICENSED 15373 4-4-16 KANSAS PROFESSIONAL ENGINEER

PLANS PREPARED BY
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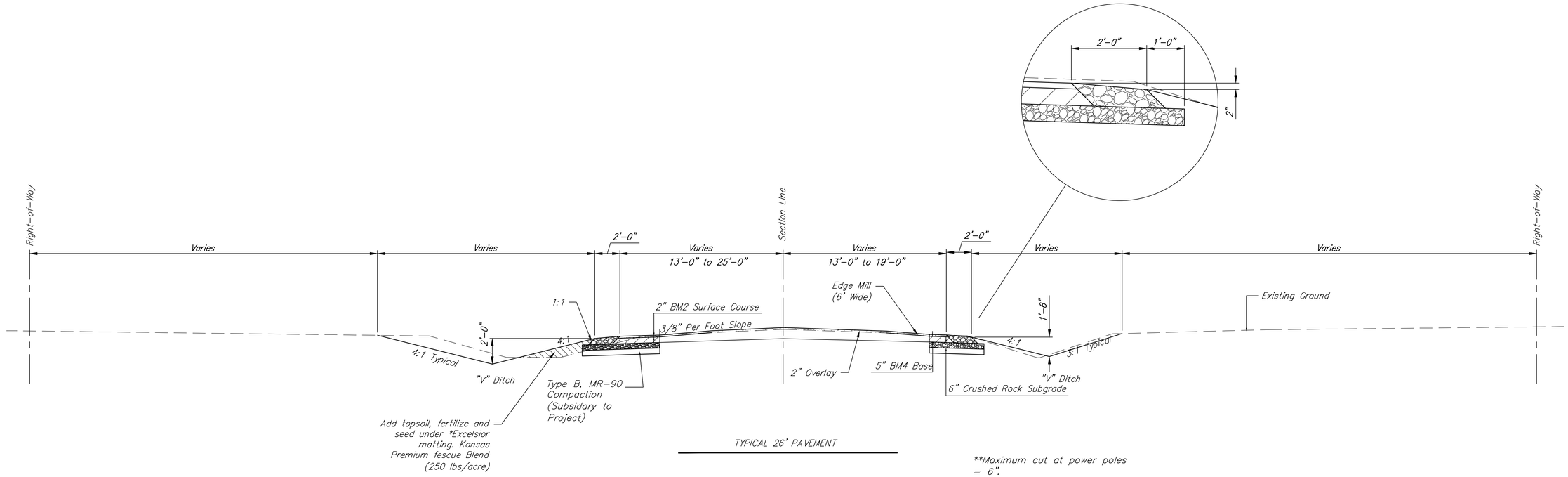
4384T



TYPICAL 26' PAVEMENT

**Maximum cut at power poles
= 6".
Adjust ditch slopes as
necessary.

2" Surface Lift (BM-2)

5" Base Course (BM-4)

6" Crushed Rock Base W/Geogrid

Soil subgrade compacted to Type B MR 90
(minimum 6" thickness after topsoil stripping).

All milling work shall be performed as directed by the Engineer. Sufficient pulverized material shall be bladed to the side to bring the shoulder and gravel drives up to the new pavement elevation. Provisions for drainage shall be provided during rehabilitation operations. Pulverized shoulder material not passing a 1 1/2" sieve shall by removed by hand racking or other methods.

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Typical Section

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DRAWING FILE	4384T-Public Paving Details [Typical Section]
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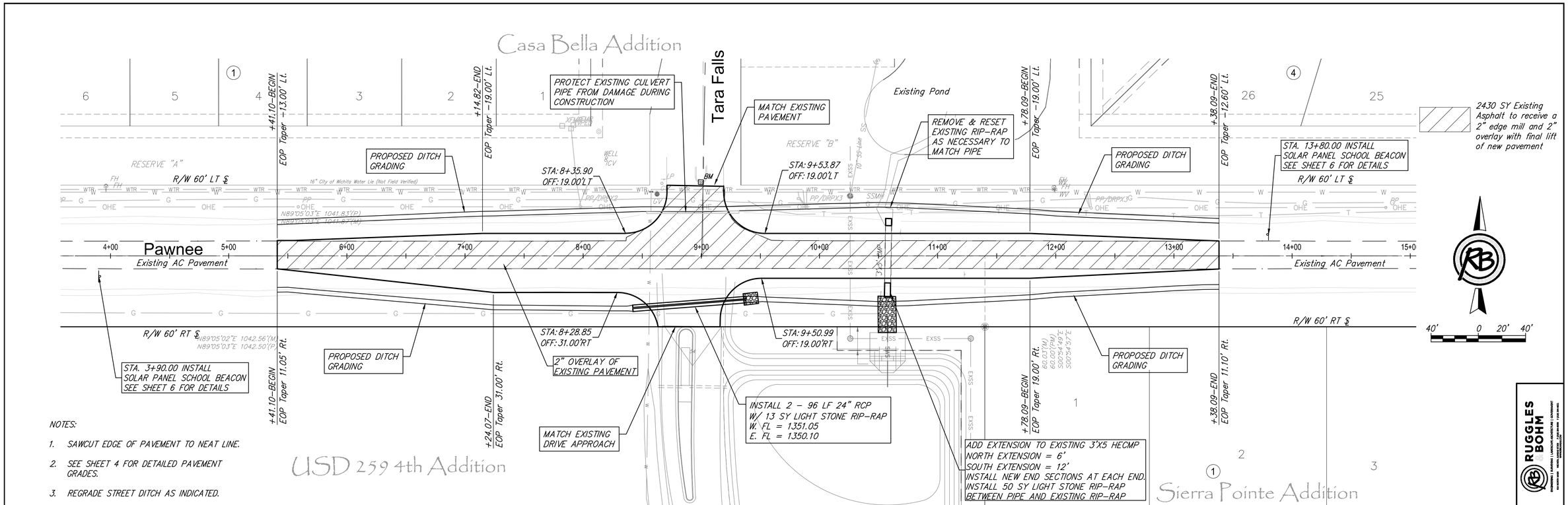
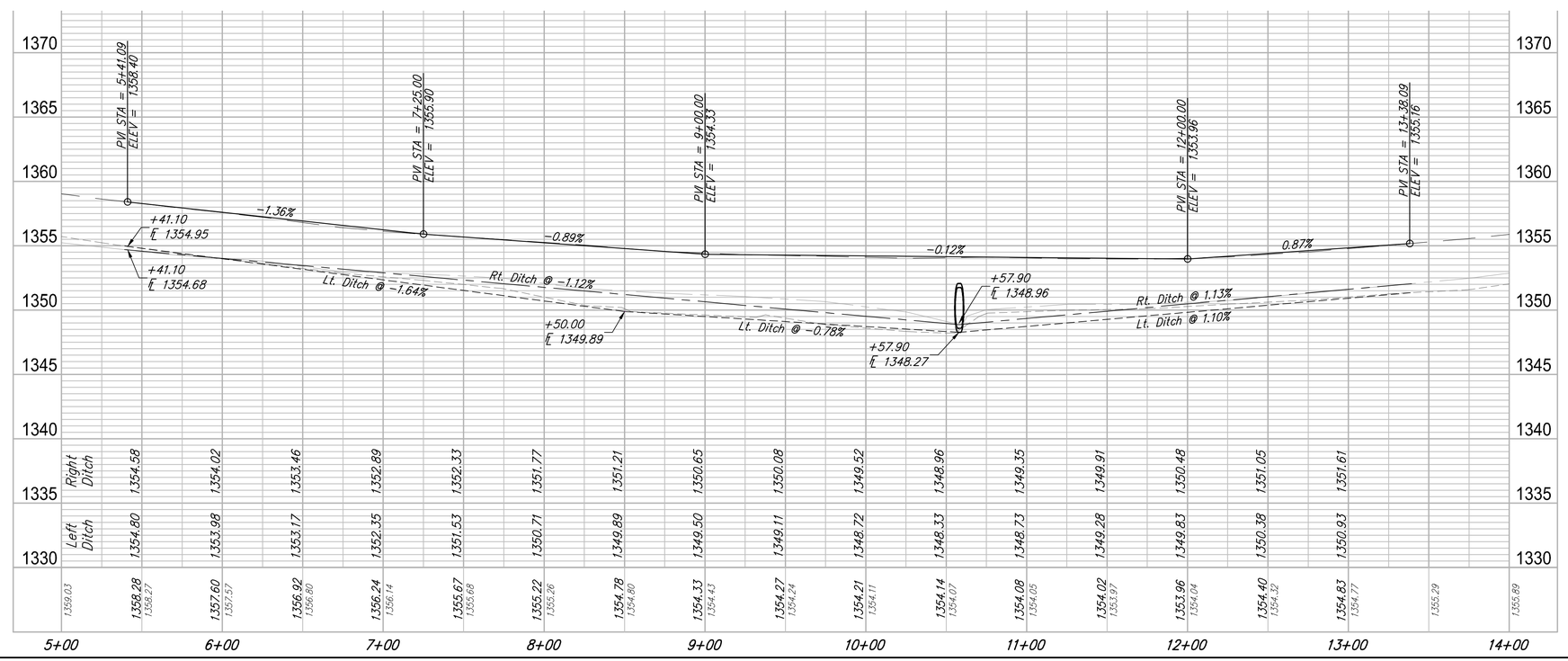


NOTES:

1. SAWCUT EDGE OF PAVEMENT TO NEAT LINE.
2. SEE SHEET 4 FOR DETAILED PAVEMENT GRADES.
3. REGRADE STREET DITCH AS INDICATED.



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DRAWING FILE	4383T Engineering Base (Pawnee Plan & Profile)

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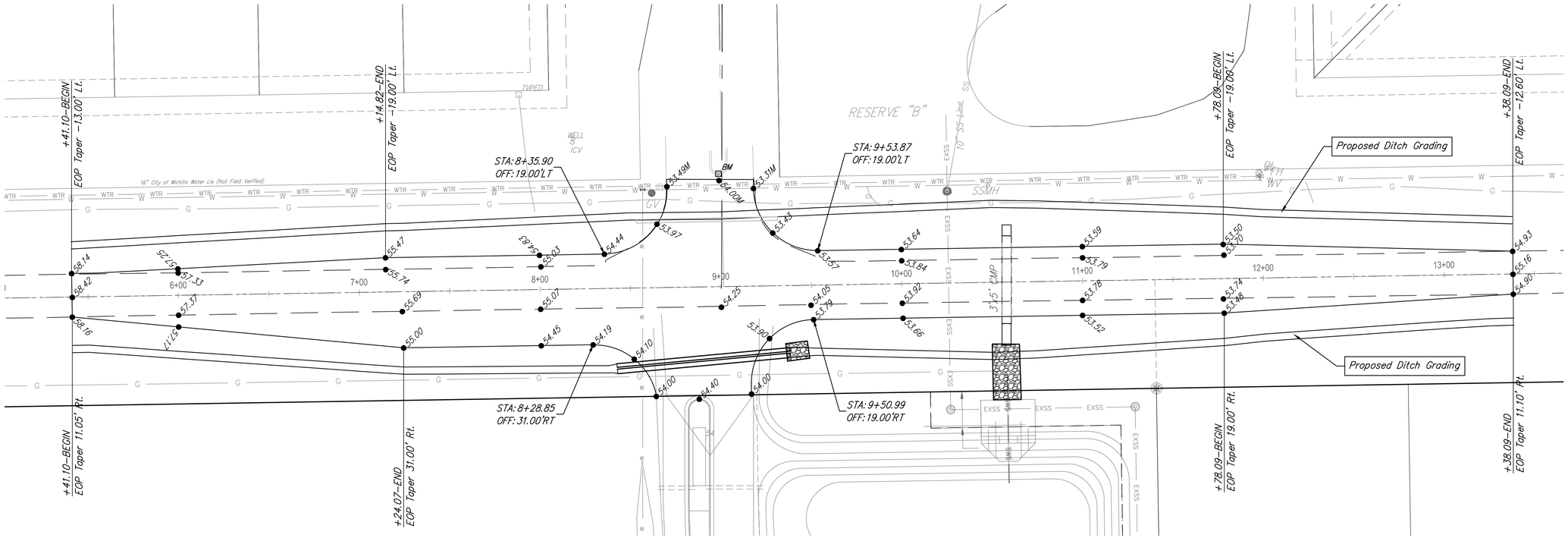
Pawnee Plan & Profile
Wichita, Kansas

RB JOB 4384T

SHEET 3 OF 12



30' 0 15' 30'

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Pawnee Grading

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DRAWING FILE	4383T Engineering Base [Pawnee Grading]
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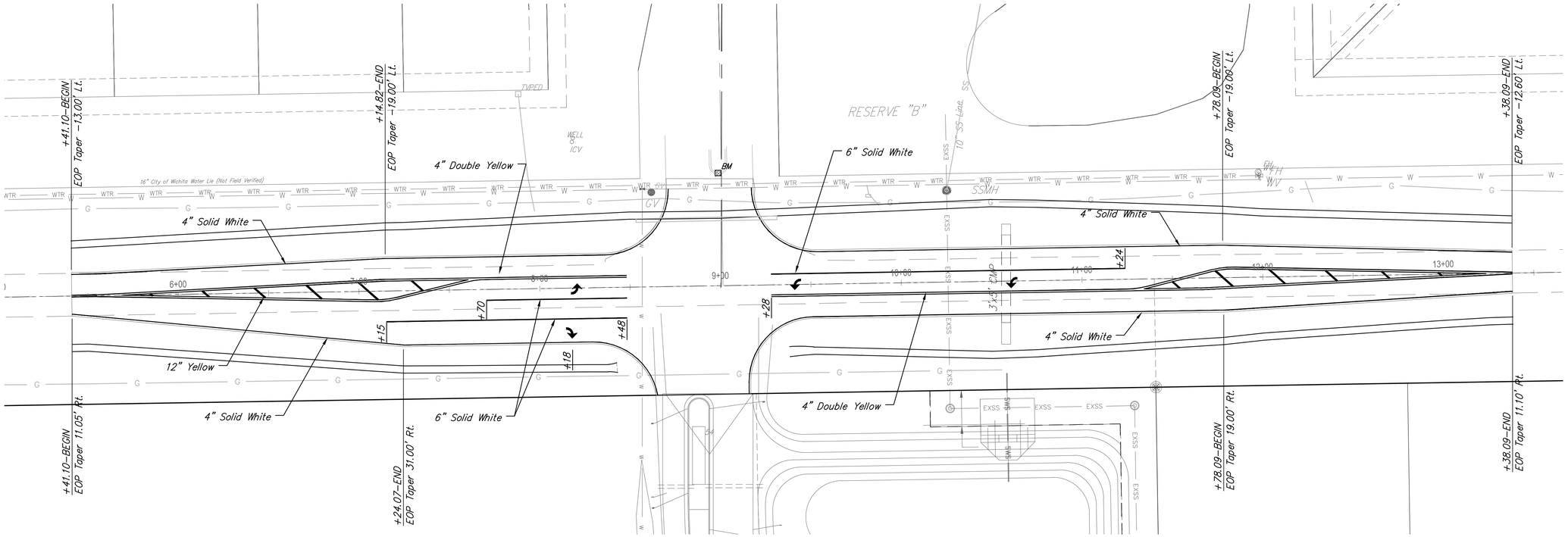

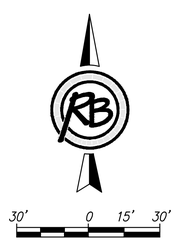

BILL OF MATERIALS *		
ITEM	QUANTITY	UNITS
4" White	1582	Lin. Ft.
6" White	407	Lin. Ft.
4" Yellow	2307	Lin. Ft.
12" Yellow	96	Lin. Ft.
Right Turn Arrow	1	Each
Left Turn Arrow	3	Each

* For Imformation Only

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Pawnee Pavement Marking

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DRAWING FILE: 4383T Engineering Base [Pawnee Pavement Marking]

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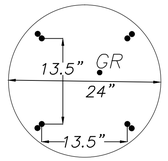
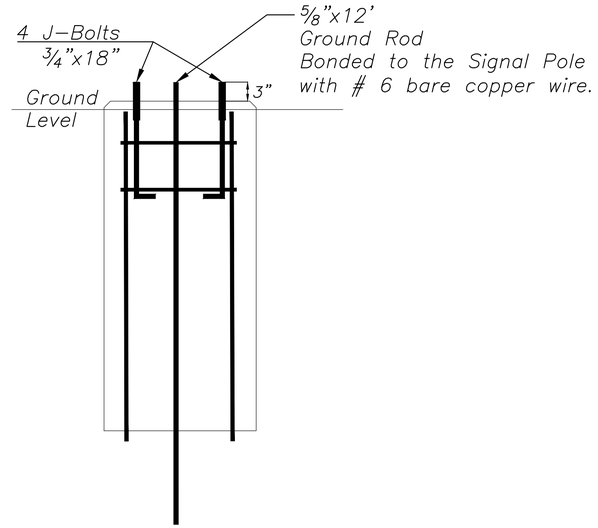
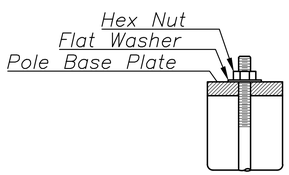


Bolt Circle 13.5" on Center

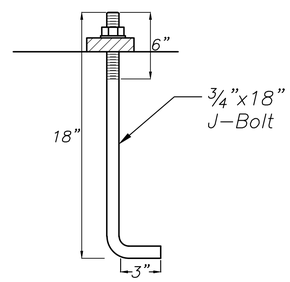


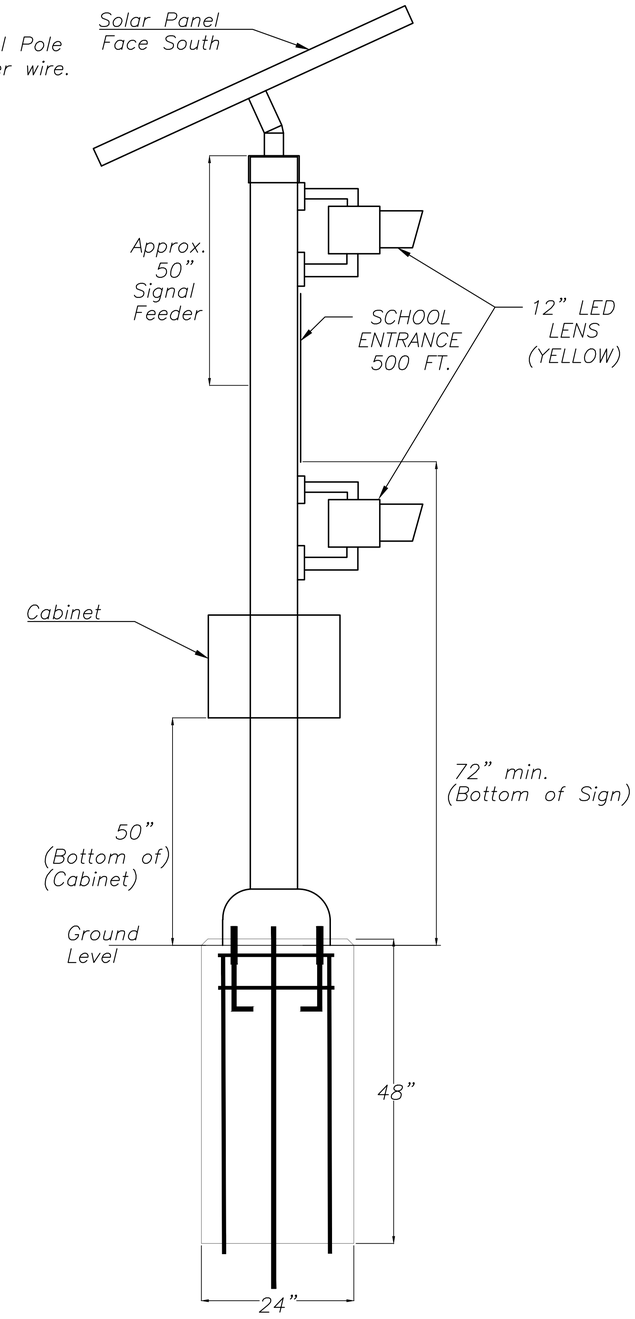
#6 Rebar 60" x 4 pcs.

#4 Rebar Cross bars weld or wire.



Use Keystone "No–Weld Number 1 Anti–Seize Compound" on all bolts & nuts.





General Notes :

All Dimensions Shown Are Typical Only. Actual Dimensions Shall Be Supplied By The Manufacturer.

Cabinet,Solar,and Signal Wiring Shall Be Made Up in The Pole Base.
Solar Panel Wiring Uses 3 Wire,
Signal Wiring Uses 3 Wire,
Cabinet Uses 7 Conducter Signal Cable.
Spliced Connections Shall Be Pointed Upward to Avoid Moisture Collection.
All Wiring Must meet the Current Applicable Electrical Codes.

School Entrance Beacon Assembly shall be bid as "Each". Bid price shall include all costs associated with installation of Beacon Assembly & Base including labor, delivery, and materials.

Assemblies shall be Model 7019 by IQTrafficcontrol or approved equal.

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Solar Pedestal Details

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DRAWING FILE: Solar Panel Pedestal and Base [Solar Pedestal Details]

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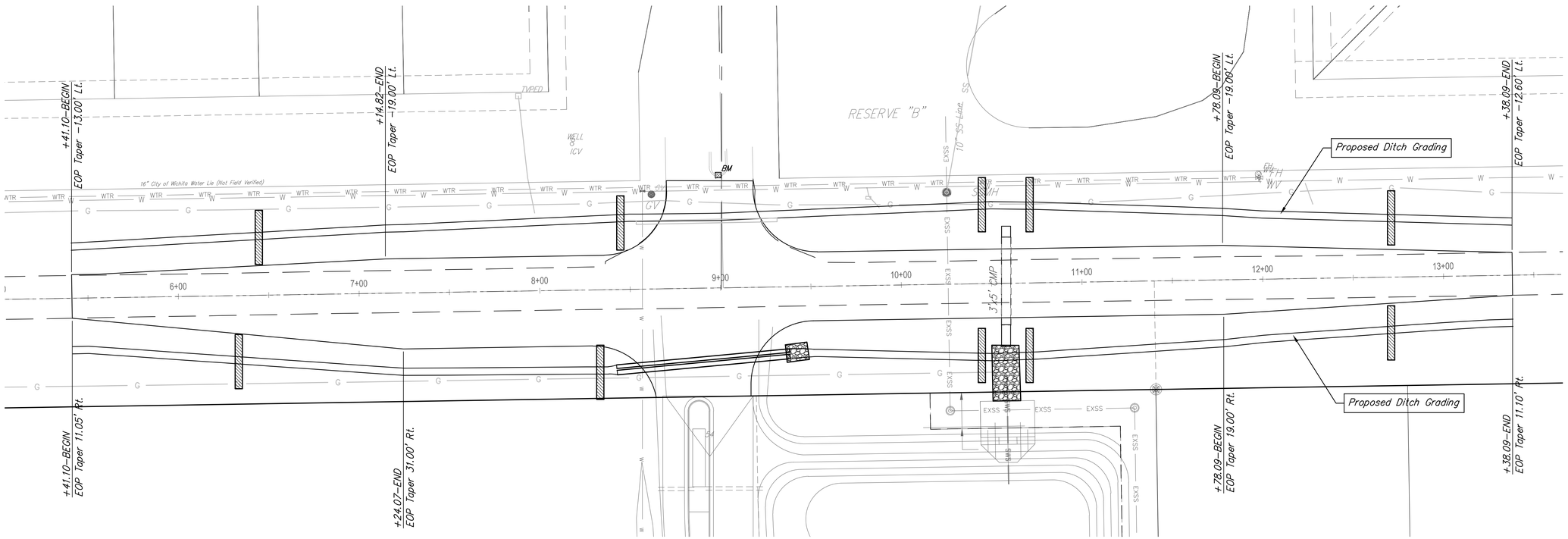

Ditch Check

30' 0 15' 30'

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Pawnee Erosion Control

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DRAWING FILE	4383T Engineering Base [Pawnee Erosion Control]
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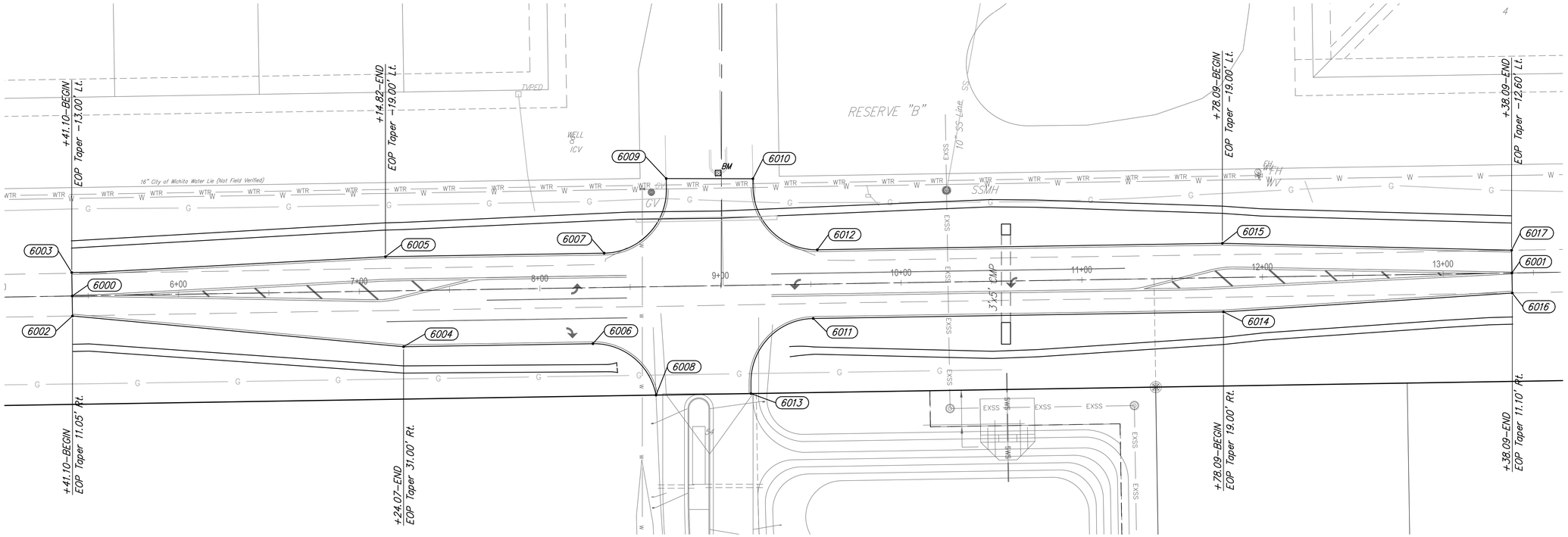

Point Table			
Point #	Northing	Easting	Description
6000	1673256.82	1689702.18	CL–BEGIN
6001	1673269.56	1690499.07	CL–END
6002	1673245.78	1689702.36	EOP–MATCH
6003	1673269.82	1689701.98	EOP–MATCH
6004	1673228.75	1689885.63	EOP
6005	1673278.60	1689875.58	EOP
6006	1673230.43	1689990.40	EOP
6007	1673280.53	1689996.64	EOP
6008	1673201.98	1690025.34	EOP
6009	1673321.83	1690030.99	EOP
6010	1673321.74	1690078.97	EOP
6011	1673244.38	1690112.33	EOP
6012	1673282.42	1690114.60	EOP
6013	1673202.82	1690077.89	EOP
6014	1673248.01	1690339.40	EOP
6015	1673286.00	1690338.79	EOP
6016	1673258.46	1690499.25	EOP–MATCH
6017	1673282.16	1690498.87	EOP–MATCH

30' 0 15' 30'

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USD 259 4th ADDITION
Bubble Map

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DRAWING FILE	4383T Engineering Base [Bubble Map]
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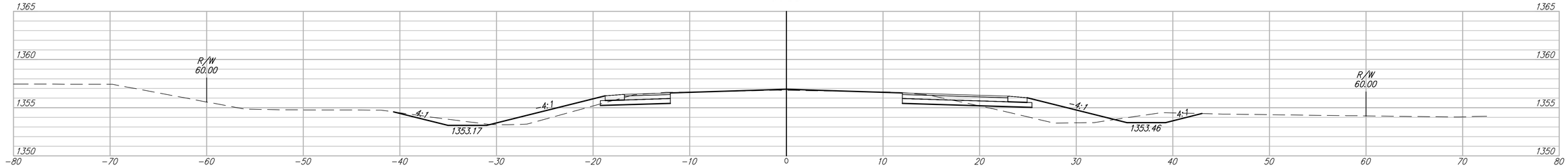
6+50



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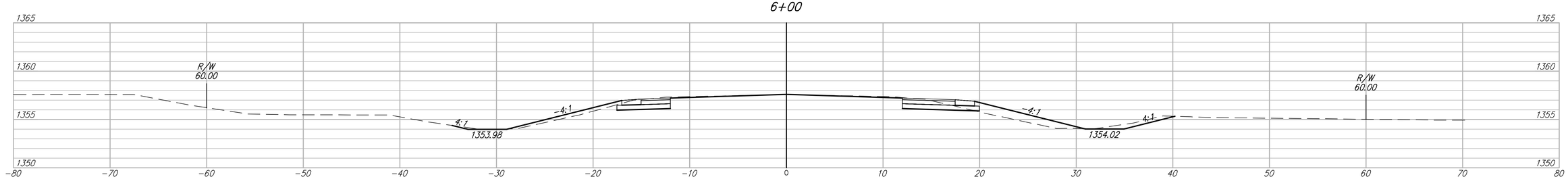

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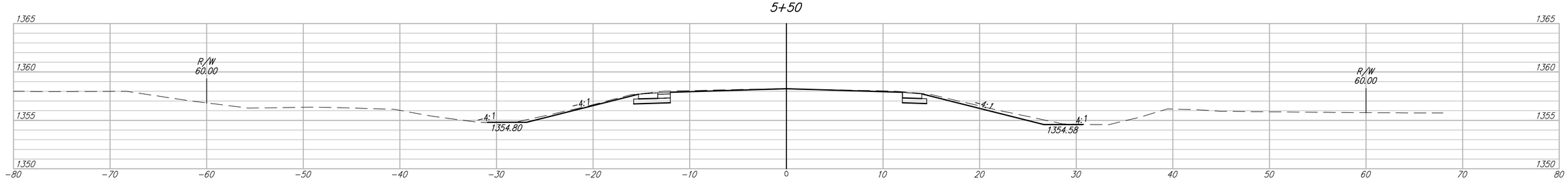

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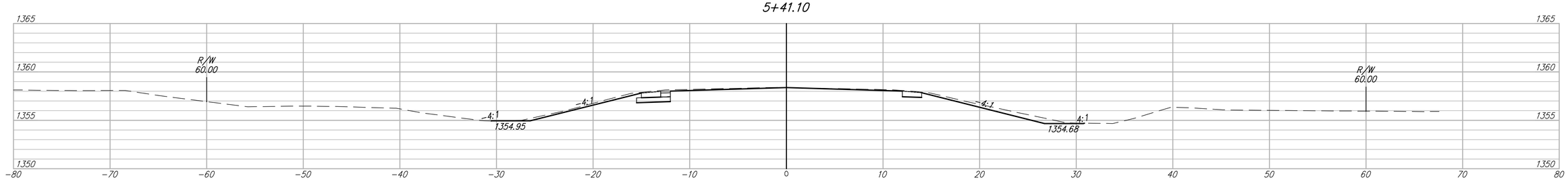

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USD 259 4th ADDITION

XS - Pawnee (1)

Title

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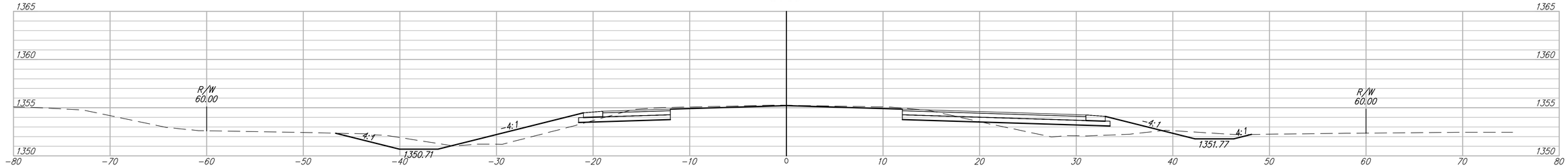
8+00



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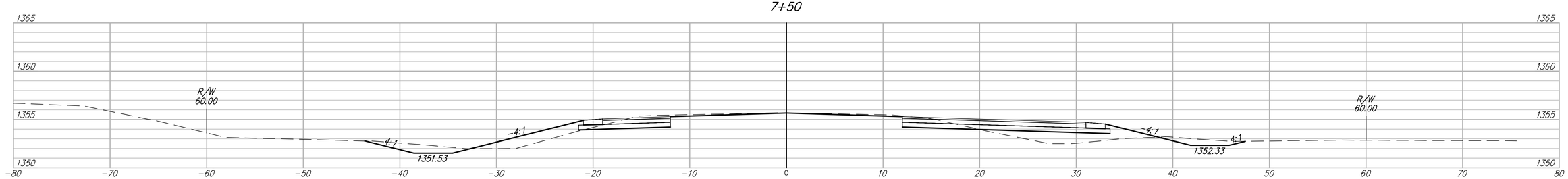

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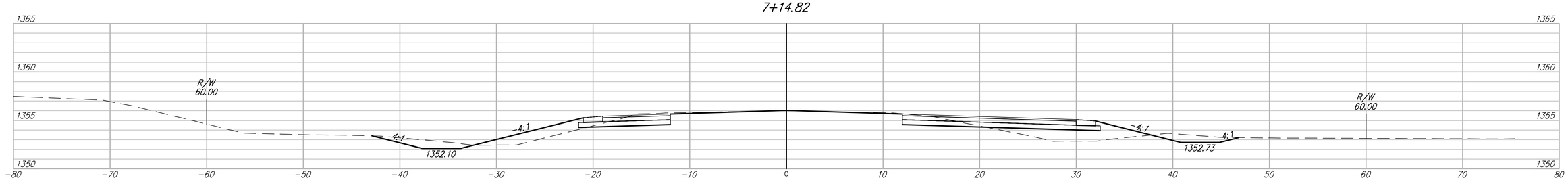

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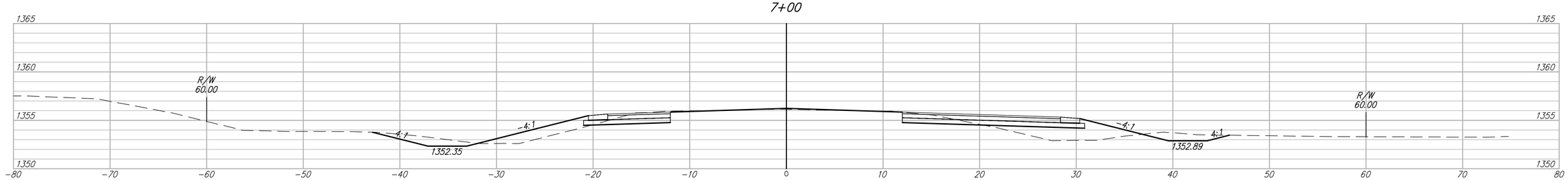

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XS - Pawnee (2)

Title

DESIGN	KL
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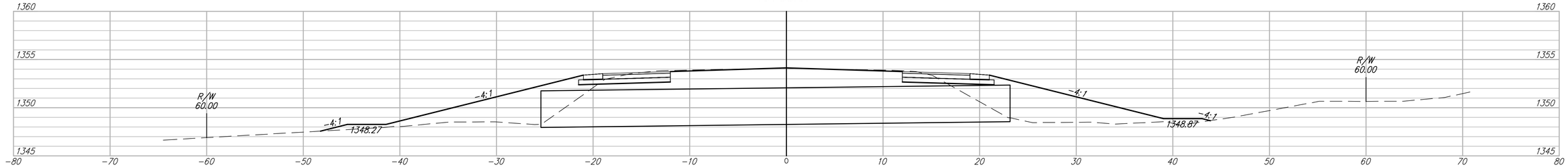
10+58.07



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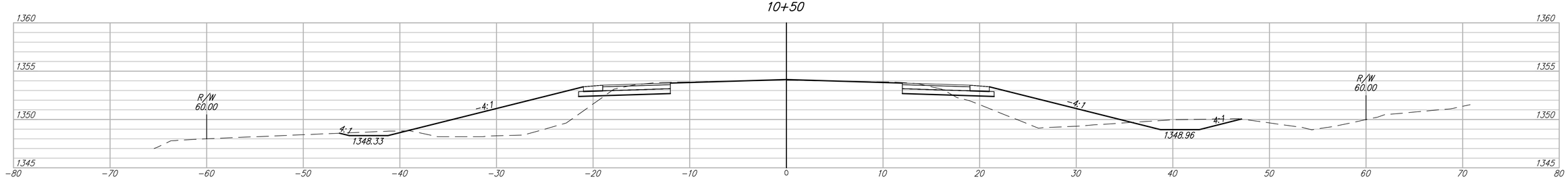

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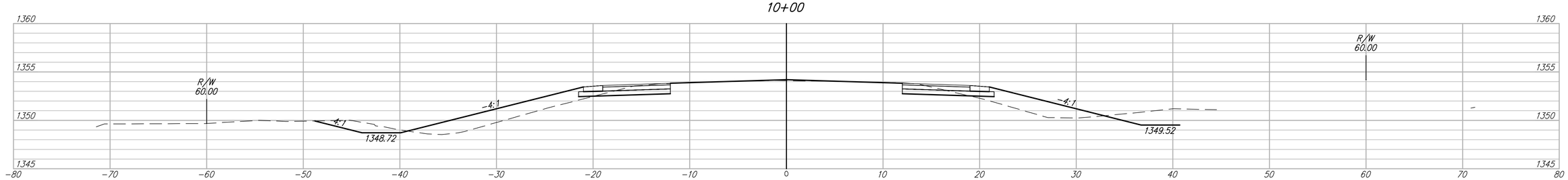

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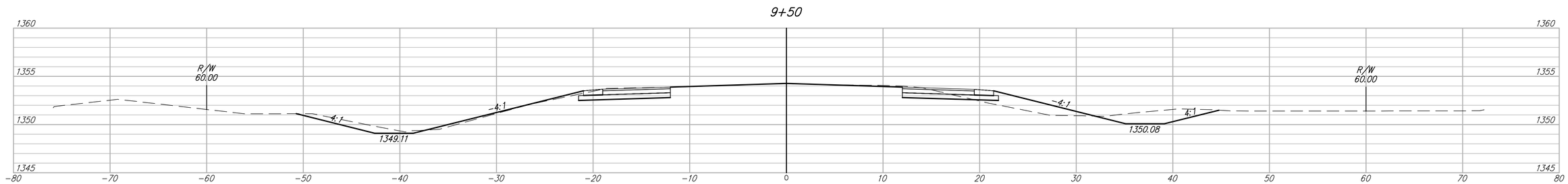

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USD 259 4th ADDITION

XS - Pawnee (3)

Title

DESIGN	KL
DRAWN	DS
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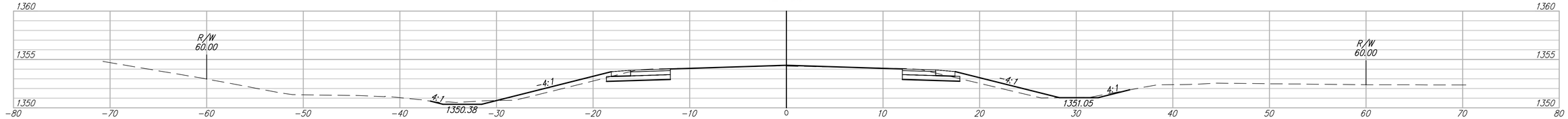
12+50



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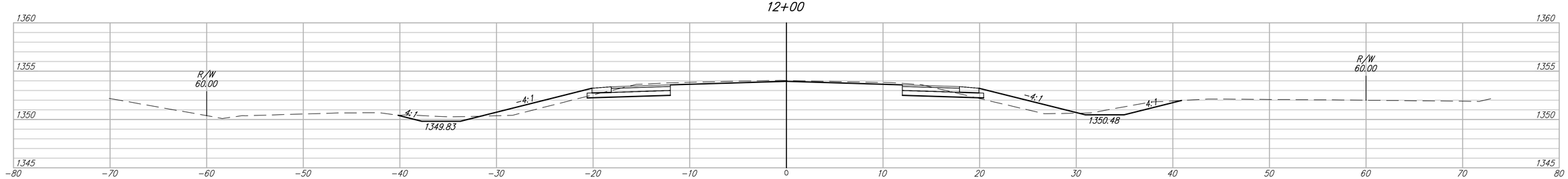
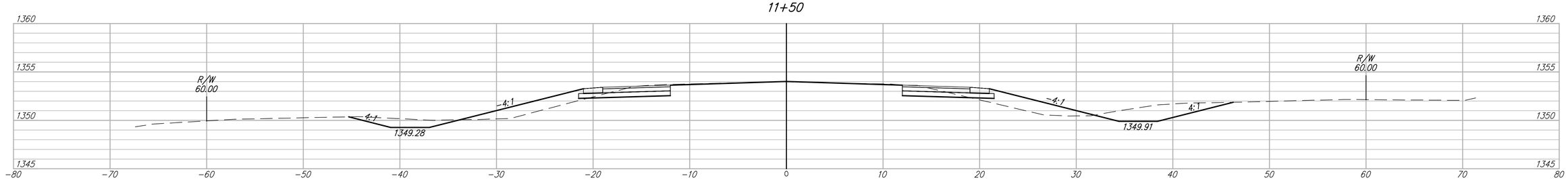
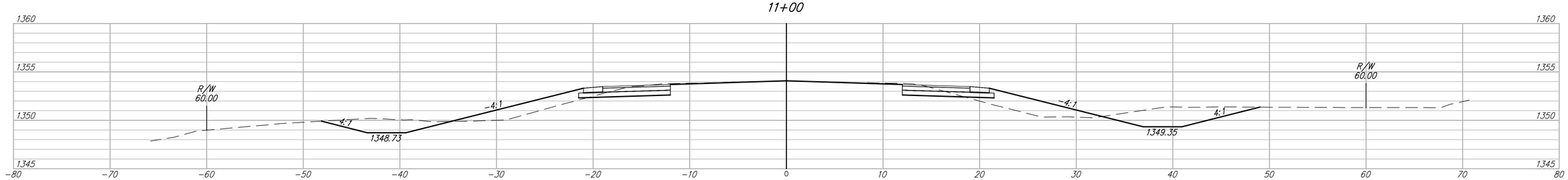


11+50



11+00



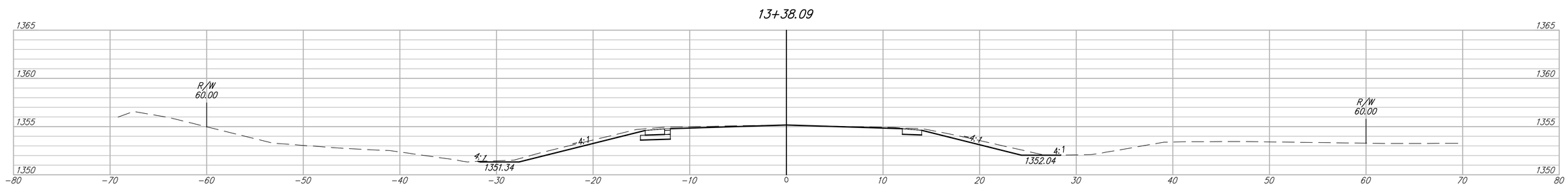
RUGGLES & BOHM

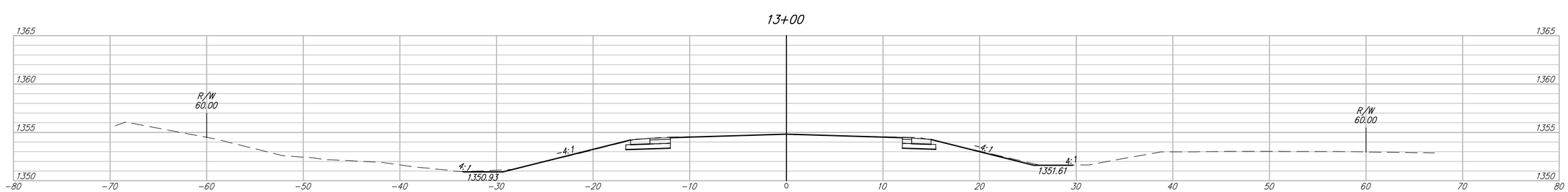
USD 259 4th ADDITION

XS - Pawnee (4)

Title

DESIGN	KL
DRAWN	DS
RB JOB	4384T
SHEET	11
OF	12





RUGGLES & BOHM

USD 259 4th ADDITION

XS - Pawnee (5)

Title

DESIGN	SHEET
KL	12
DRAWN	OF
DS	12
RB JOB	
4384T	