

# WINGHAVEN PHOENIX PARKWAY AND RED HAWK PARKWAY

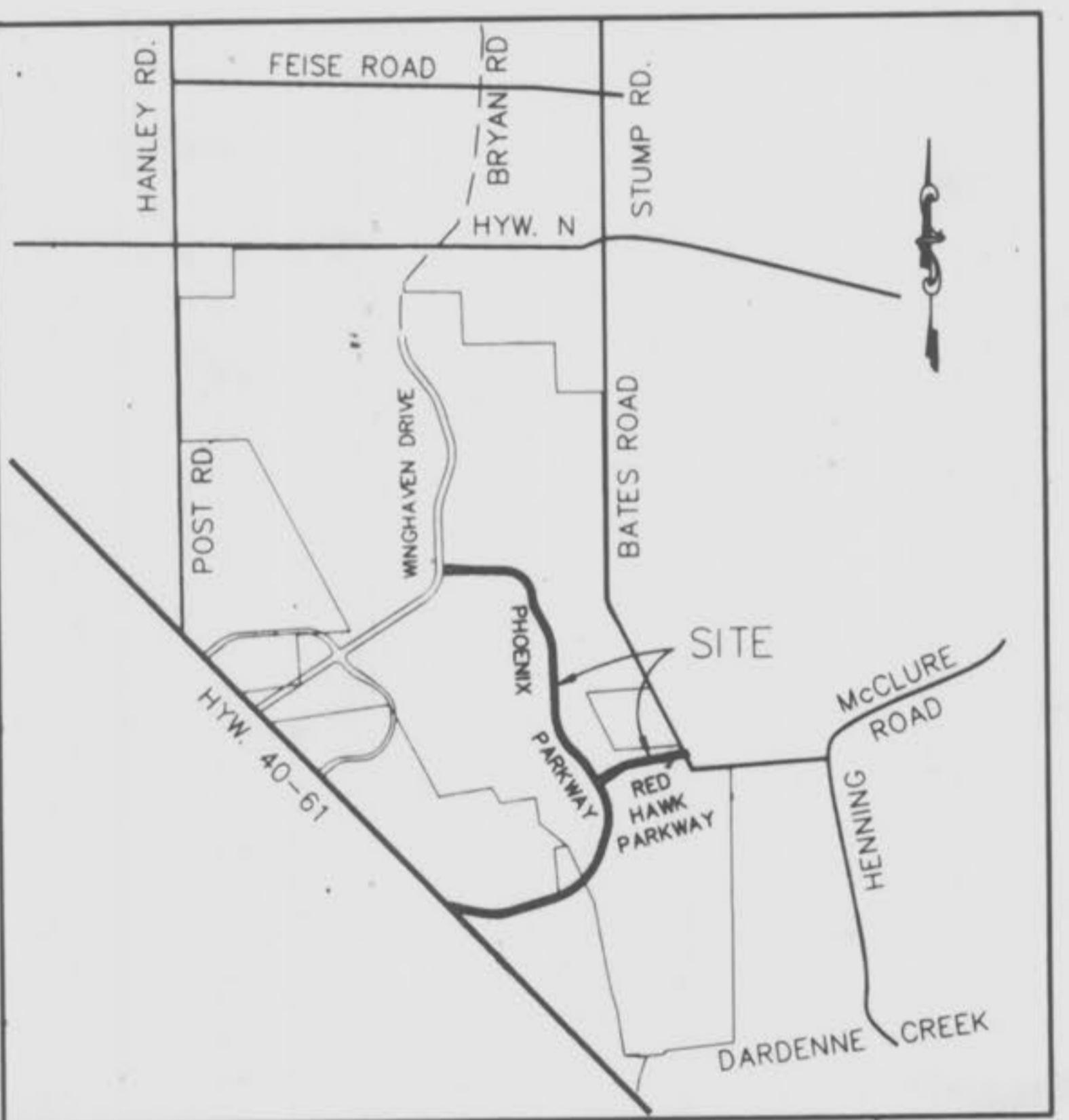
## GENERAL NOTES

1. Underground utilities have been plotted from available information and, therefore, their locations must be considered approximate only. The verification of the location of all underground utilities, either shown or not shown on these plans, shall be the responsibility of the contractor and shall be located prior to grading or construction of improvements.
2. All filled places under buildings, proposed sanitary and storm sewer lines, and/or paved areas including trench backfills shall be compacted to at least 90% of maximum dry density as determined by the "Modified A.A.S.H.T.O. T-180 Compaction Test" (ASTM D-1557) unless otherwise specified by the local governing authority specifications. All tests will be verified by a Soils Engineer.
3. All filled places within public roadways shall be compacted to at least 95% of the maximum dry density as determined by the "Modified A.A.S.H.T.O. T-180 Compaction Test" (ASTM D-1557), unless otherwise specified by local governing authority specifications. All tests will be verified by a Soils Engineer.
4. Earth subgrade for paved areas must be compacted to 90% of maximum dry density as determined by the "Modified A.A.S.H.T.O. T-180 Compaction Test" (ASTM D-1557), and must be inspected and approved by a representative of the City, before paving can commence.
5. No slope shall be greater than 3:1 and shall be either sodded or seeded and mulched.
6. No area shall be cleared without permission of the Project Engineer.
7. All grades shall be within 0.2 feet more or less of those shown on the grading plan.
8. The computed bid yardage is to finish grades as shown, and includes the removal of subgrade where required.
9. Siltation control devices shall be as shown on plans and approved by the local governing authority. Additional siltation control, if required, will be placed at the direction of the soils engineer on-site and the local governing authority prior to placement.
10. If siltation control devices are destroyed by heavy rains, vandalism, etc., they are to be replaced immediately by Contractor.
11. Where natural vegetation is removed during grading, vegetation shall be re-established in such a density as to prevent erosion. Permanent type grasses shall be established as soon as possible or during the next seeding period after grading has been completed. Refer to Appendix A of St. Charles Soil and Water Conservation District - Model Sediment and Erosion Control Regulation #1.
12. All existing trash and debris on site must be removed and disposed of off-site.
13. Development is not located within the 100 Year Flood Plain Limits as shown on the F.E.M.A. Map for this area.
14. All exterior sewer manholes shall be waterproofed on the exterior in accordance with Missouri Department of Natural Resources specifications. 10 CSR 8.120 (7)(E).
15. Brick shall not be used on manholes.
16. Storm sewers 18" diameter or smaller shall be A.S.T.M. C-14, unless shown on plans.
17. Storm sewers 21" diameter or larger shall be A.S.T.M. C-76, Class III minimum, unless shown on plans.
18. All storm pipe in the right of way, regardless of size, shall be reinforced concrete pipe (A.S.T.M. C-76, Class III) unless noted otherwise on the plans.
19. All sanitary and storm sewers shall meet all specifications and installation requirements of the local governing authority.
20. All storm and sanitary trench backfills will be water jetted. Granular backfill will be used under pavement areas. This is to be done in the presence of a City representative. Water jetting shall be 100% complete and approved prior to paving. Seven days shall pass for setting time prior to paving.
21. Barricades will consist of three standard specifications markers with 9 Red Button Reflectors on red background mounted on two pound "U" channel sign post, with bottom of the marker 4 feet above top of pavement. (Sign No 044).
22. All streets must meet the specifications and installation requirements of the City of O'Fallon.
23. Polyvinyl Chloride (PVC) shall conform to the requirements of ASTM D-3034 Standard Specifications for the PVC Polyvinyl Chloride (PVC) Sewer Pipe and Fittings, SDR 35.
24. All incoming pipes and outgoing pipes shall have positive drainage through structures. No flat base structures are allowed.
25. Brick shall not be used on manholes.
26. The minimum vertical distance from the low point of the basement to the baseline of a sanitary sewer at the corresponding house connection shall not be less than the diameter of the sanitary sewer plus a vertical distance not less than two and one-half feet (2-1/2).
27. The Duckett Creek Sanitary District shall be notified of least 48 hours prior to construction of sanitary sewers for coordination and inspection.
28. All sanitary and storm sewer shall meet all specifications and installation requirements of the local governing authority.
29. All storm and sanitary trench backfills will be water jetted. Granular backfill will be used under pavement areas.
30. Easement shall be provided for storm sewers, sanitary sewers, and all utilities on the record plot. See record plot for location and size of easements. This does not apply to house laterals.
31. All existing site improvements disturbed, damaged, or destroyed shall be repaired or replaced to closely match preconstruction conditions.
32. The contractor shall prevent oil storm, surface water, mud, and construction debris from entering the existing sanitary sewer system.
33. All sanitary sewer bowlines and tops built without elevations furnished by the engineer will be the responsibility of the sewer contractor.
34. All construction and materials shall conform to the current construction standards of the Duckett Creek Sanitary District.
35. All PVC sanitary sewer pipe is to be SDR-35 or equal with a "clear"  $\frac{1}{2}$  inch to 1 inch granular stone bedding uniformly graded. This bedding shall extend from 4 inches below the pipe to springline of pipe. Immediate backfill over pipe shall consist of same size "clean" or "minus" stone from springline of pipe to 6 inches above the top of pipe.
36. All creek crossings shall be grouted rip-rap as directed by District Inspectors. (All grout shall be high slump ready-mix concrete).
37. Existing sanitary sewer service shall not be interrupted.
38. Maintain access to existing residential driveways and streets.
39. Pre-manufactured adaptors shall be used at all PVC to DIP connections. Rubber boot/Mission-type couplings will not be allowed.
40. Any permits, licenses, easements, or approvals required to work on public or private properties or roadways are the responsibility of the developer.

A TRACT OF LAND BEING PART OF U.S. SURVEYS  
1669 AND 1641 IN TOWNSHIP 46 NORTH, RANGES 2  
AND 3 EAST AND FRACTIONAL SECTIONS 11 AND 12  
IN TOWNSHIP 46 NORTH, RANGE 2 EAST, ST. CHARLES  
COUNTY, MISSOURI AND PART OF MONSANTO ANIMAL  
AGRICULTURAL FARM, PLAT BOOK 22 PAGE 165,  
ST. CHARLES COUNTY, MISSOURI.

## DRAWING INDEX

Sheet	Description
1	COVER SHEET
2-8	PLAN / PROFILE
8A	HIGHWAY ENTRANCE DETAILS
9-14	CROSS SECTIONS
15	TYPICAL SECTION AND DETAILS
16-17	STORM SEWER PROFILES
18-19	BOX-CULVERT DETAILS ( OMITTED )
20-23	DRAINAGE AREA MAP
24-25	CONSTRUCTION DETAILS



LOCATION MAP  
NOT TO SCALE

## "AS-BUILTS"

### PROJECT BENCHMARK (U.S.G.S. DATUM)

SC-13

2.70 MILES N/NW OF THE INTERSECTION OF HIGHWAY 94 AND HIGHWAY D.  
ON THE NORTH SIDE OF THE WESTBOUND LANES OF HIGHWAY 40,  
29.55' NE OF A PK-NAIL IN THE CENTERLINE OF HWY 40, 39.2' SW OF THE CENTER  
OF THE TOP OF THE NW END OF A CMP, 10.0' NW OF THE CENTER  
OF A FIELD ENTRANCE. ELEVATION = 499.38'

Duckett Creek Sanitary Dist  
This is to certify to the City of O'Fallon that these "As-Builts" plans are based on actual field surveys conducted during 1998 and the results are shown hereon.

By \_\_\_\_\_  
DANIEL EHMANN, P.L.S. #2215  
STATE OF MISSOURI  
PICKETT, RAY & SILVER'S CORPORATE  
REGISTRATION NO. LS-54-D  
STATE OF MISSOURI  
BAPTIST EHMANN  
CH-2215  
10-03-98  
SURVEYOR  
PICKETT, RAY & SILVER, INC.

### ENGINEERS AUTHENTICATION

The responsibility for professional engineering liability on this project is hereby limited to the set of plans authenticated by the seal, signature and date hereunder attached. Responsibility is disclaimed for other engineering plans involved in the project and specifically includes revisions after this date unless reauthenticated.

PICKETT, RAY & SILVER, INC.

10/15/99  
Date  
Signature



### DEVELOPER

PARIC CORPORATION  
689 CRAIG ROAD  
ST. LOUIS, MO. 63142  
(314) 432-4320

### "AS-BUILTS"

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FIELD BOOK	PROJECT #	REV. #	DATE
102	98-503	0.0	10/25/98

PICKETT RAY & SILVER

Civil Engineers  
Planners  
Land Surveyors

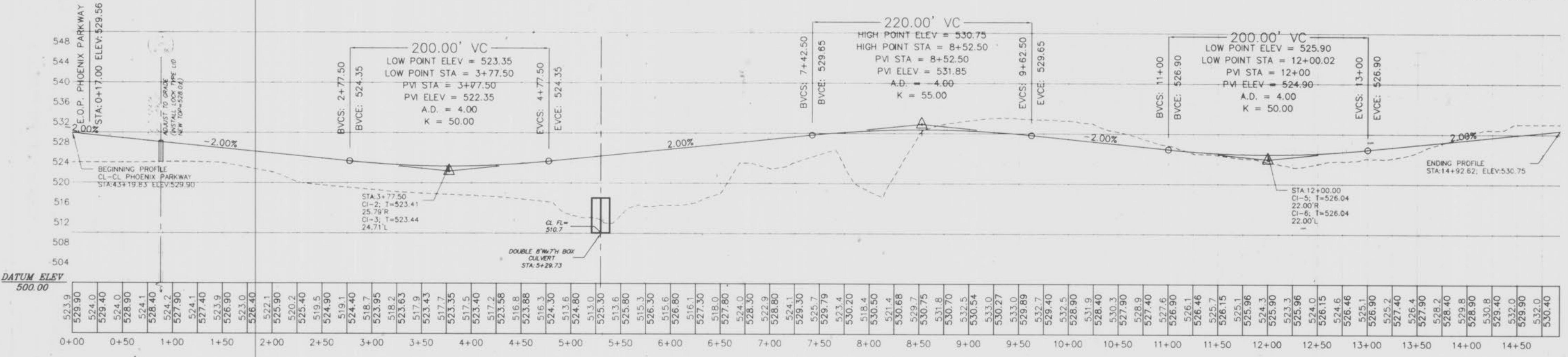
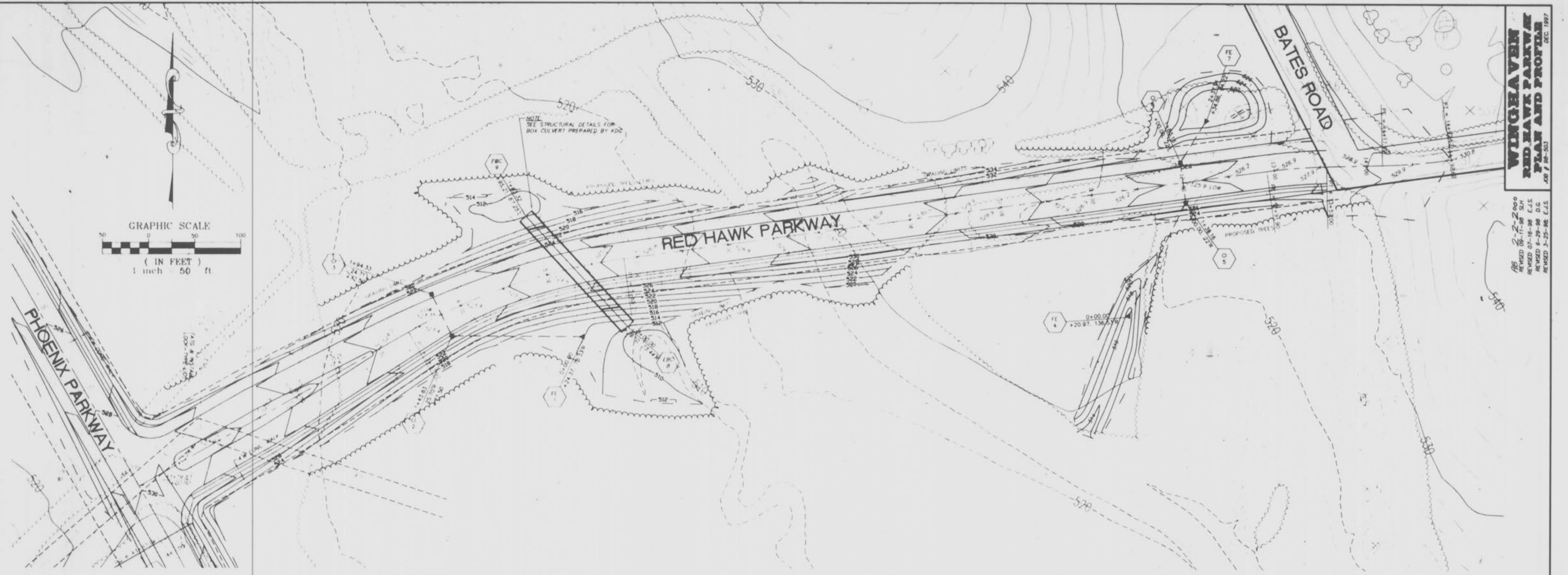
333 Mid Rivers Mall Dr.  
St. Peters, MO 63376  
367-211 FAX 307-1104

**WINGHAVEN  
RED HAWK PARKWAY  
PLAN AND PROFILE**

DEC. 1987

AS-2-2-2000  
REV'D 08-11-98 SUN  
REV'D 07-16-98 E.L.S.  
REV'D 6-29-98 E.L.S.  
REV'D 3-25-98 E.L.S.

HORIZONTAL SCALE 1" = 50'  
VERTICAL SCALE 1" = 10'

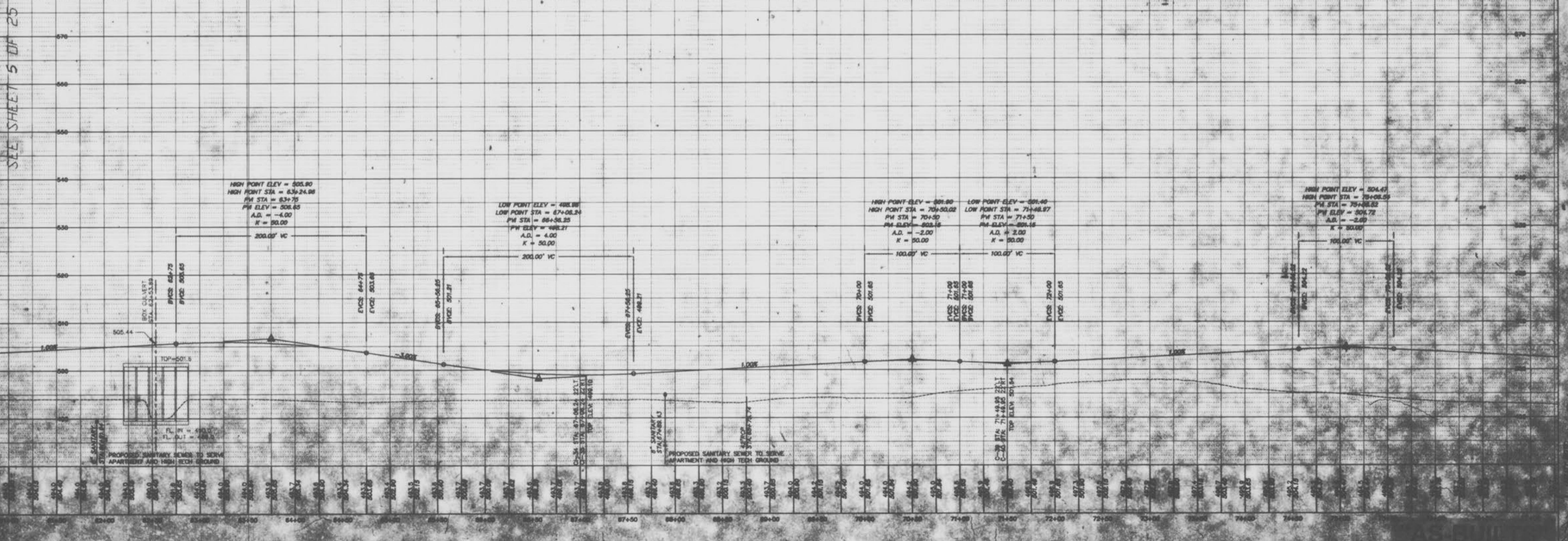
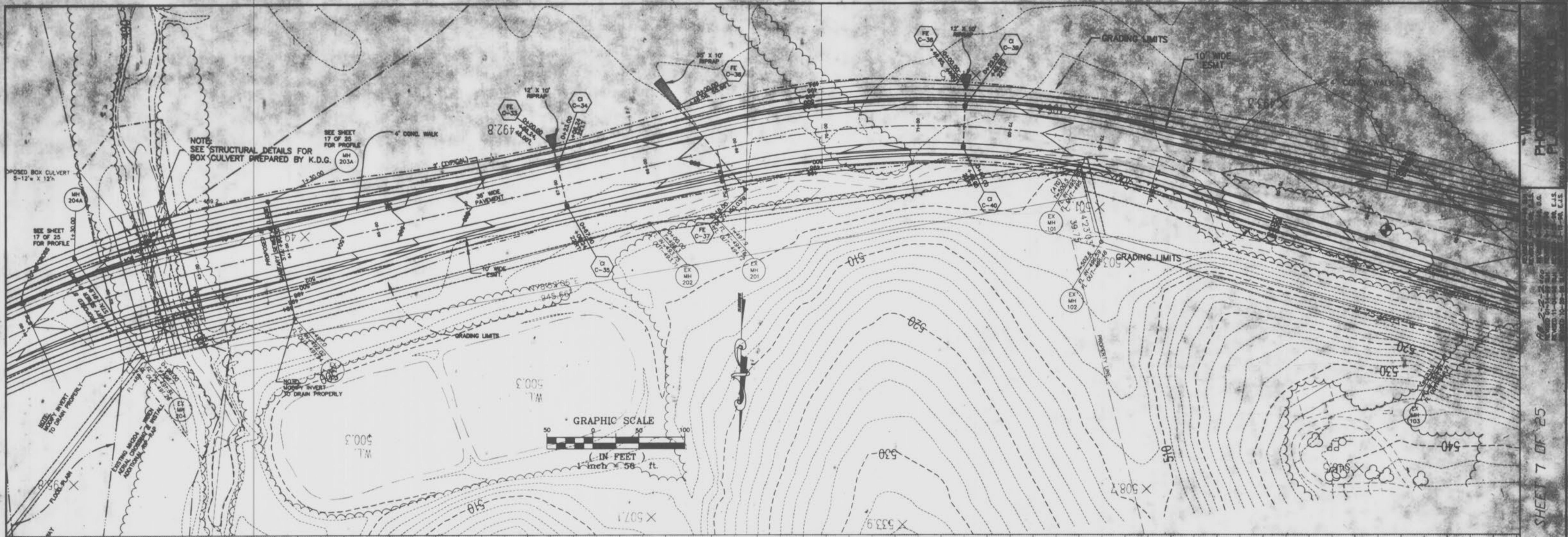


NOTE:  
Unshaded outlines and structures have been prepared by KDG. These features must be considered and incorporated into the project as necessary. It is the responsibility of the contractor to determine the exact location and dimensions of these features before actual construction begins.

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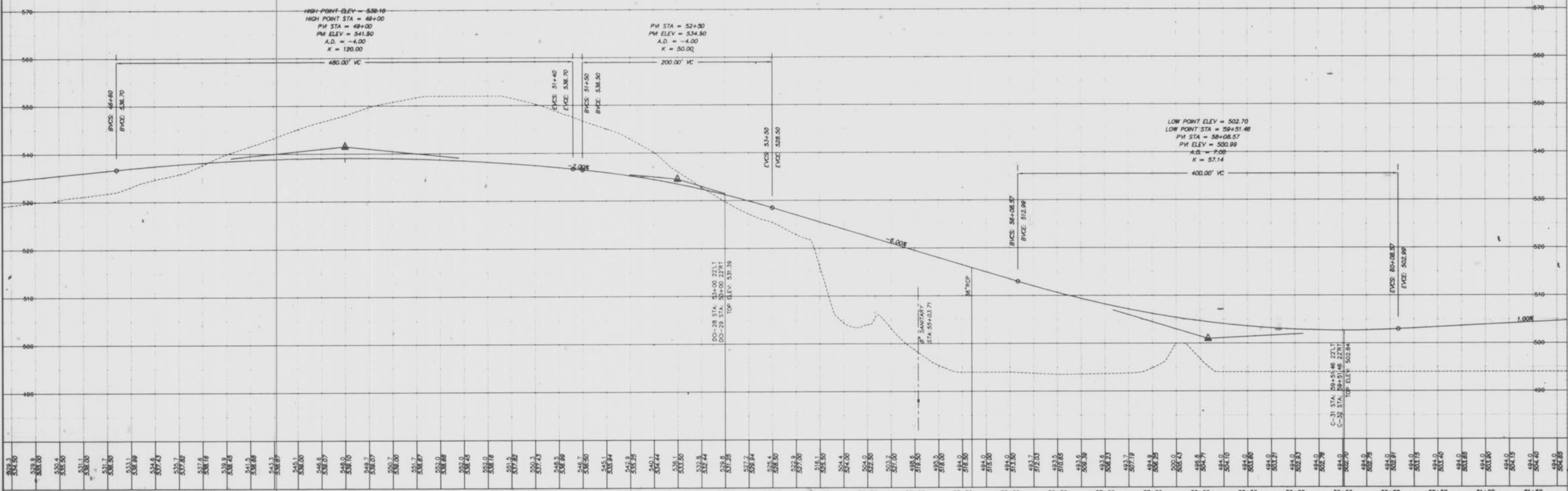
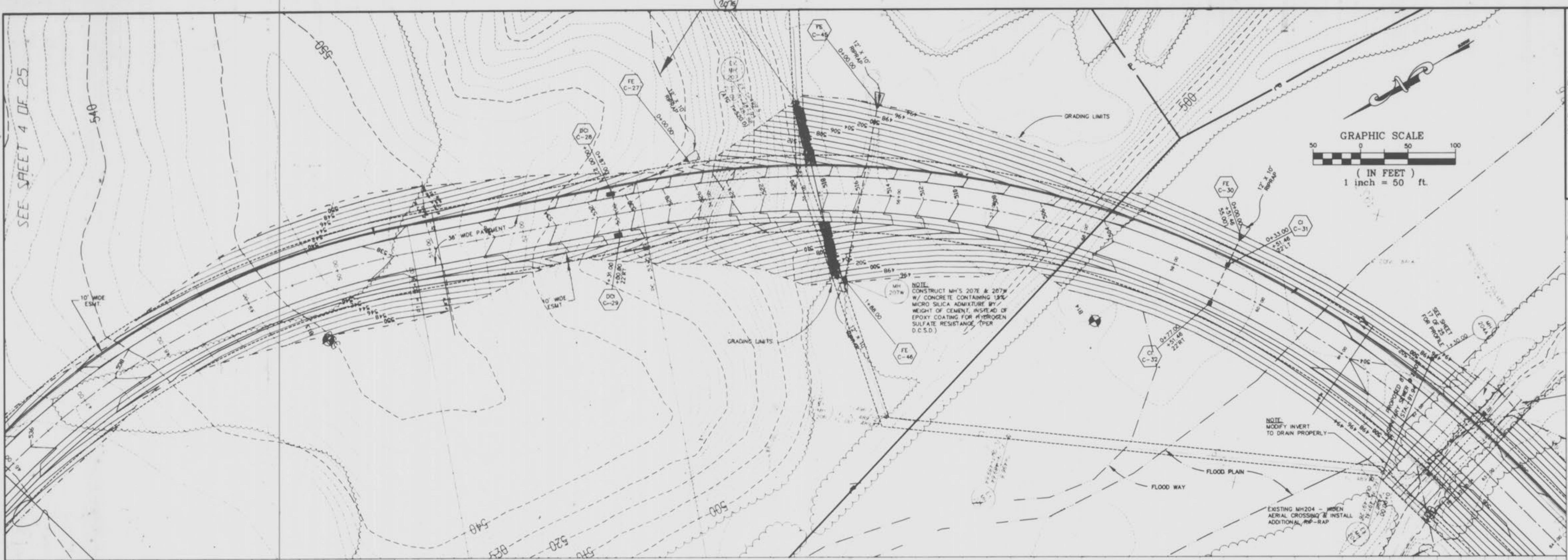
**"AS-BUILTS"**





SEE SHEET 7 OF 25

SEE SHEET 4 OF 25



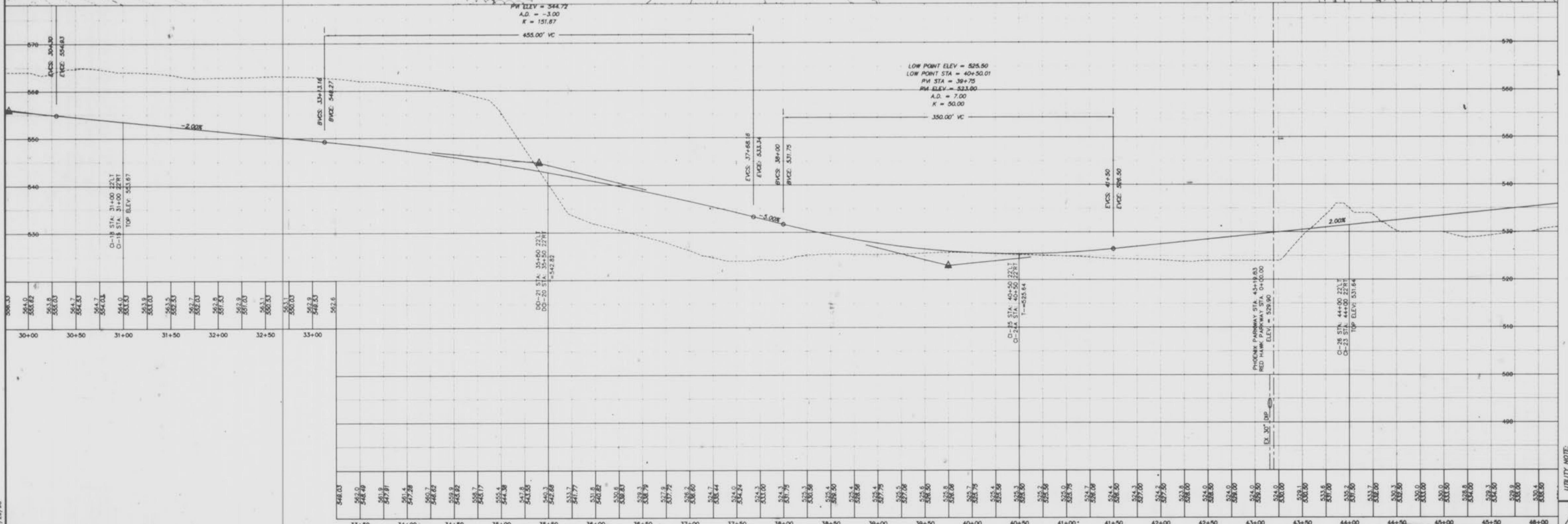
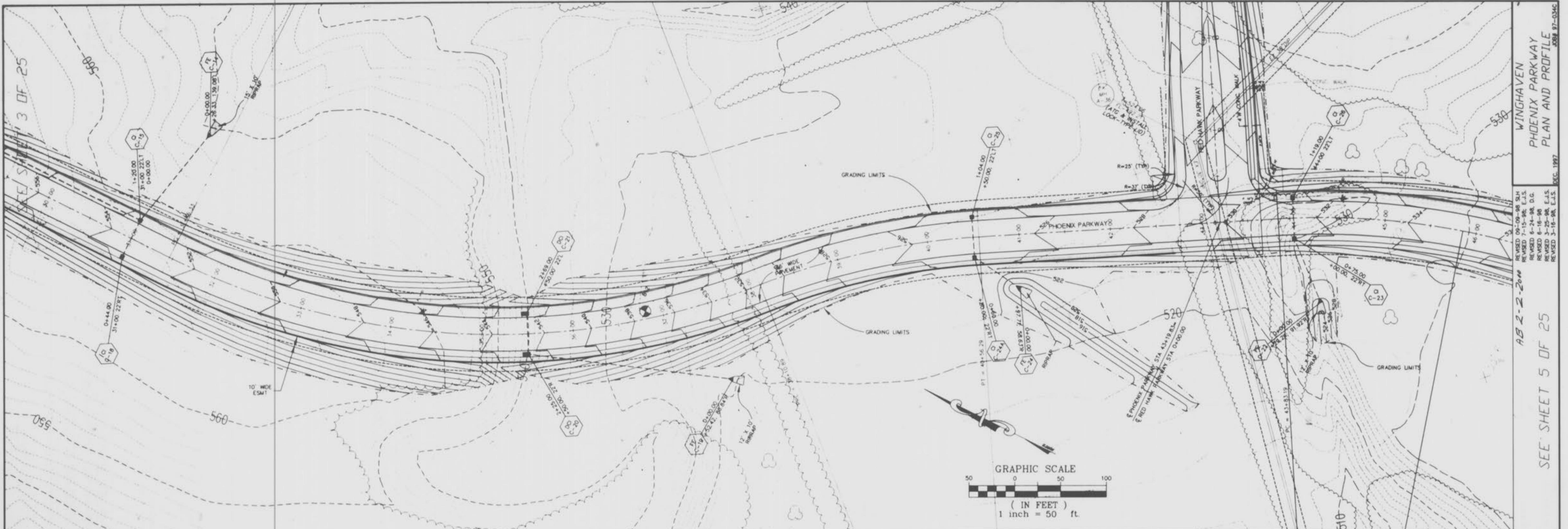
UTILITY NOTE:  
UNNUMBERED FACILITIES SHOWN ARE UTILITIES HAVE BEEN  
PLACED ON THIS DRAWING AS APPROPRIATE ONLY.  
THEIR LOCATIONS MUST BE CONFIRMED BY CONTRACTOR  
AND LOCATION OF LOCATION OF ALL UNDERGROUND STRUCTURES AND  
THEIR RESPONSIBILITY FOR THESE SHALL BE  
THE RESPONSIBILITY OF THE CONTRACTOR.

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"AS-BUILTS"

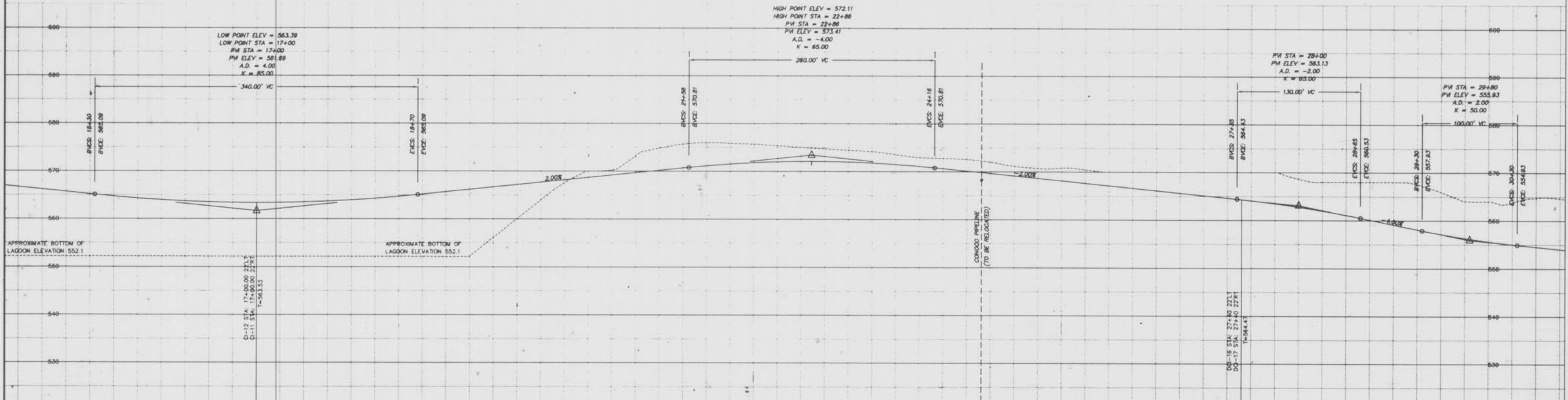
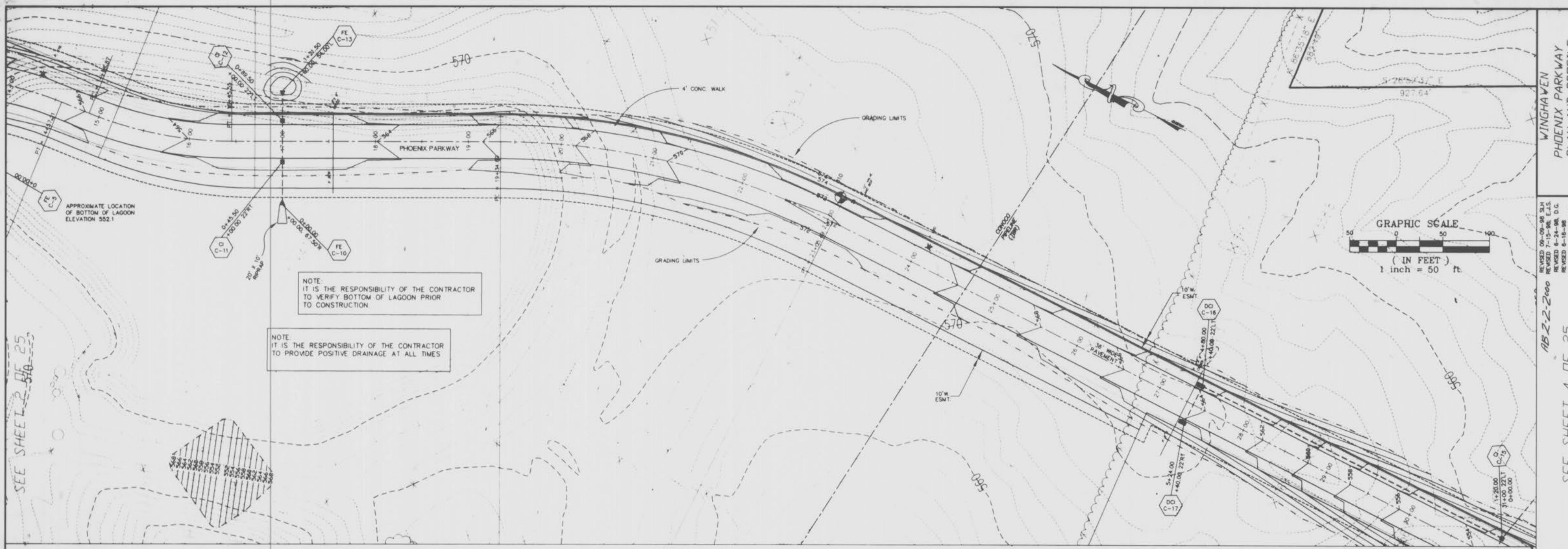


UTILITY NOTE:  
UNDERGROUND FACILITY LOCATIONS AND UTILITIES HAVE BEEN  
PLotted FROM AVAILABLE SURVEYS AND RECORDED INFORMATION, INC.  
THESE ARE NOT DRAWN TO SCALE AND DO NOT INDICATE THE EXACT LOCATION OR SIZE OF THESE UTILITIES.  
THESE ARE NOT DRAWN TO SCALE AND DO NOT INDICATE THE EXACT LOCATION OR SIZE OF THESE UTILITIES.

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"AS-BUILTS"

Winghaven Phoenix Parkway As-Builts



UTILITY NOTE:  
UNNUMBERED FACILITY STRUCTURES AND UTILITIES HAVE BEEN  
UNNUMBERED AND UNNUMBERED INFORMATION AND  
SPECIFICATIONS ARE NOT PROVIDED. THE CONTRACTOR SHALL  
SUPPLY THE INFORMATION OF LOCATION OF ALL UNDERGROUND STRUCTURES AND  
SPECIFICATIONS FOR THE CONSTRUCTION OF THE PLACES, SHALL BE  
REPLIED UPON BY THE CONTRACTOR.

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WINGHAVEN - PHOENIX PARKWAY  
STORM SEWER PROFILES

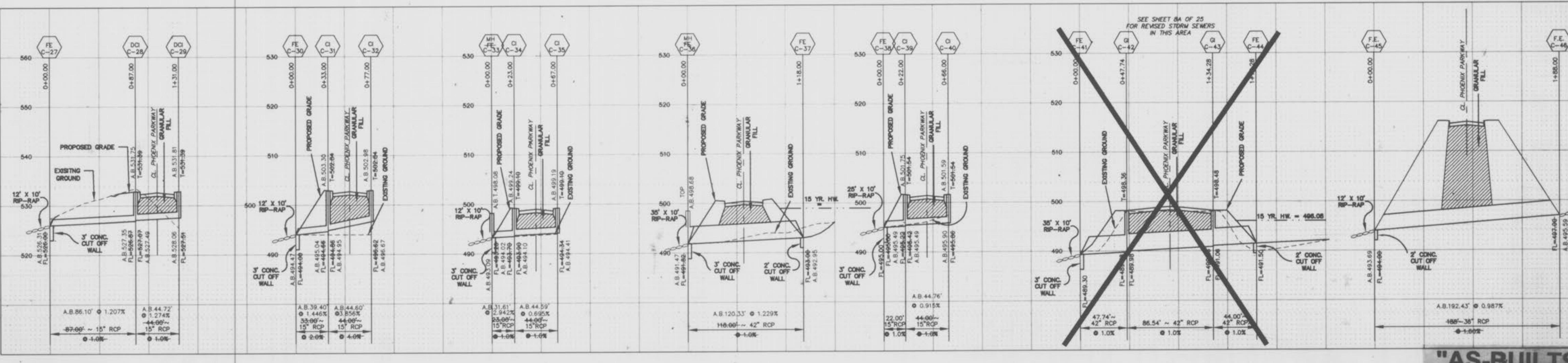
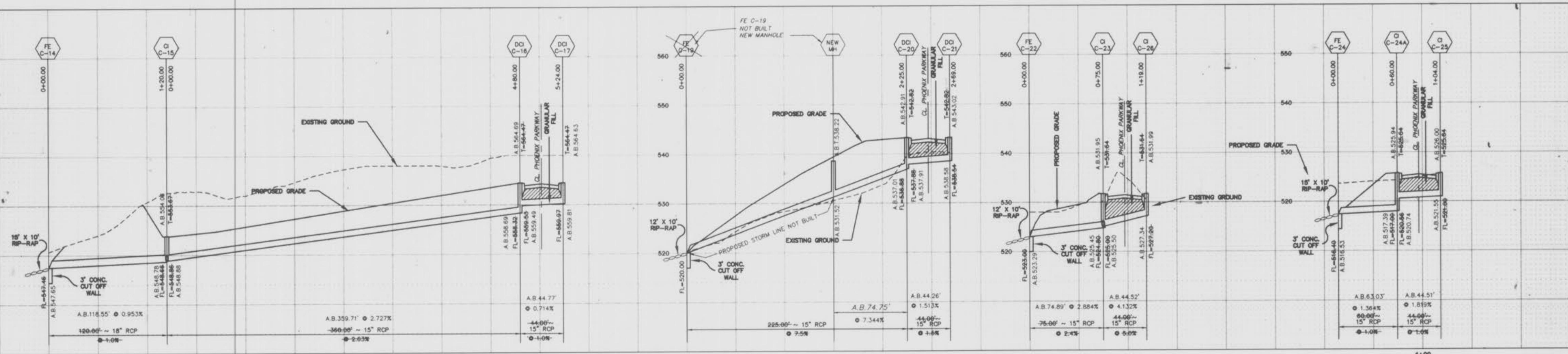
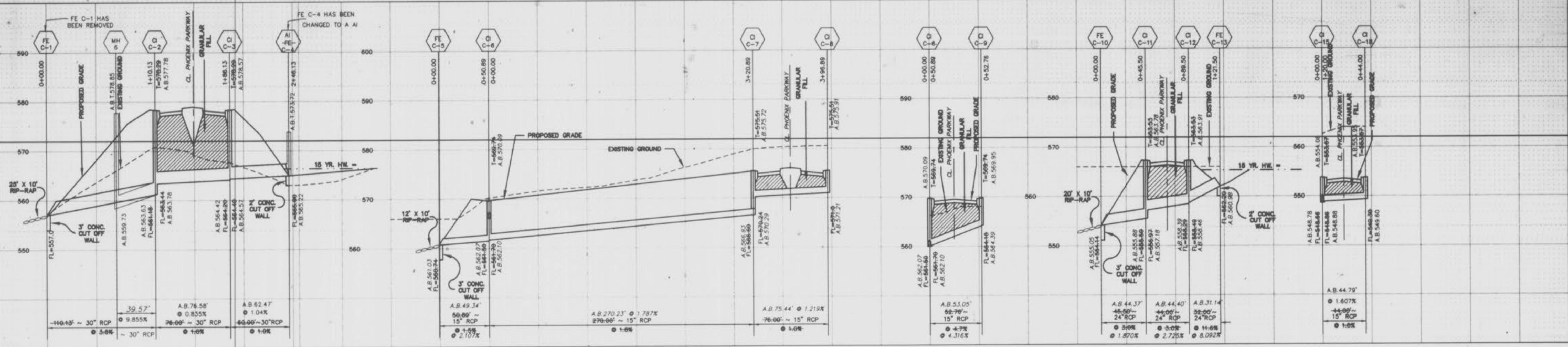
DEC 1987

HORIZONTAL SCALE 1" = 50'  
VERTICAL SCALE 1" = 10'

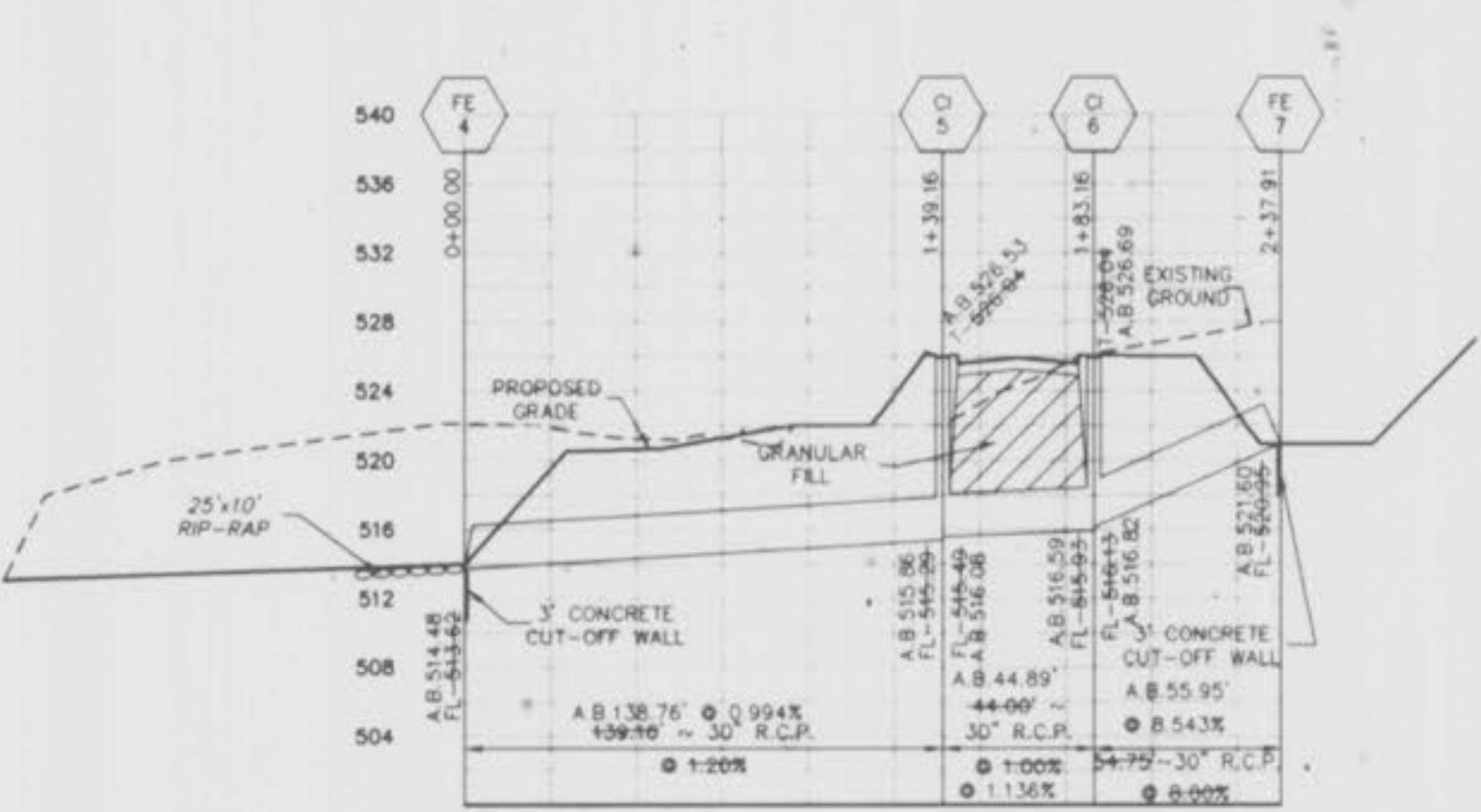
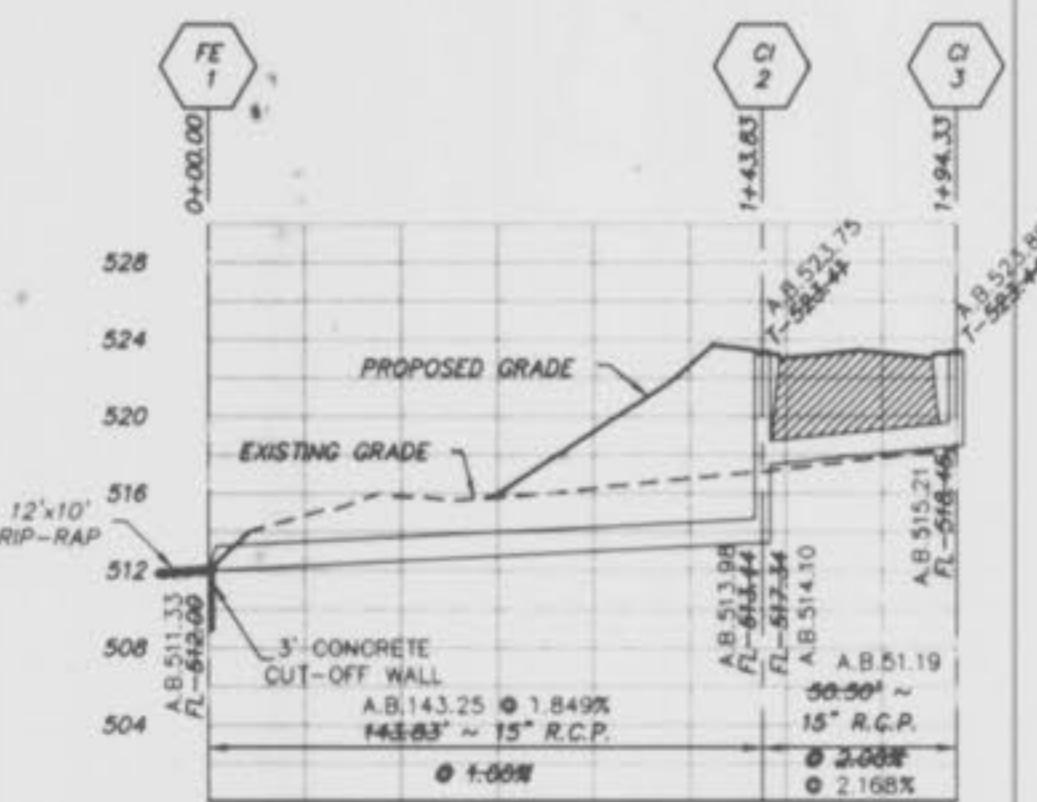
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HORIZONTAL SCALE 1" = 50'  
VERTICAL SCALE 1" = 10'

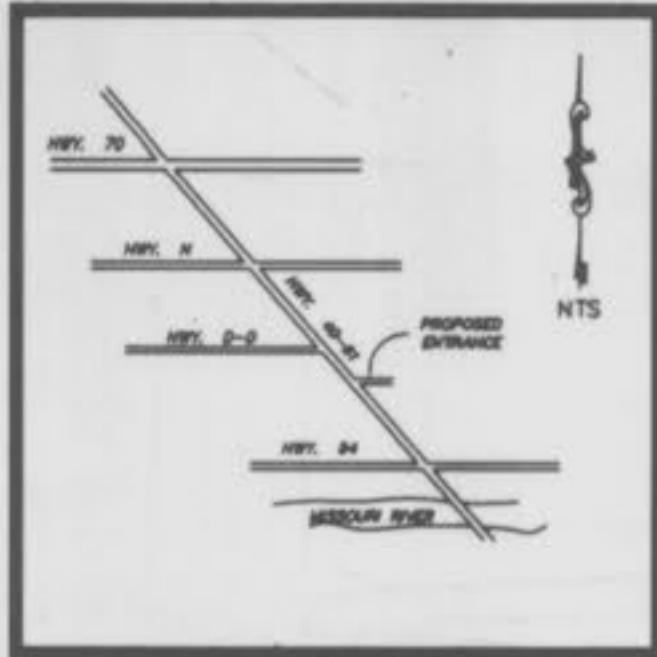


1/25/98 1/25/98  
REvised 1/25/98 E.L.S.  
REvised 1/25/98 E.L.S.  
WINGHAVEN  
RED HAWK PARKWAY  
STORM PROFILE  
ECD 4 1/25/98

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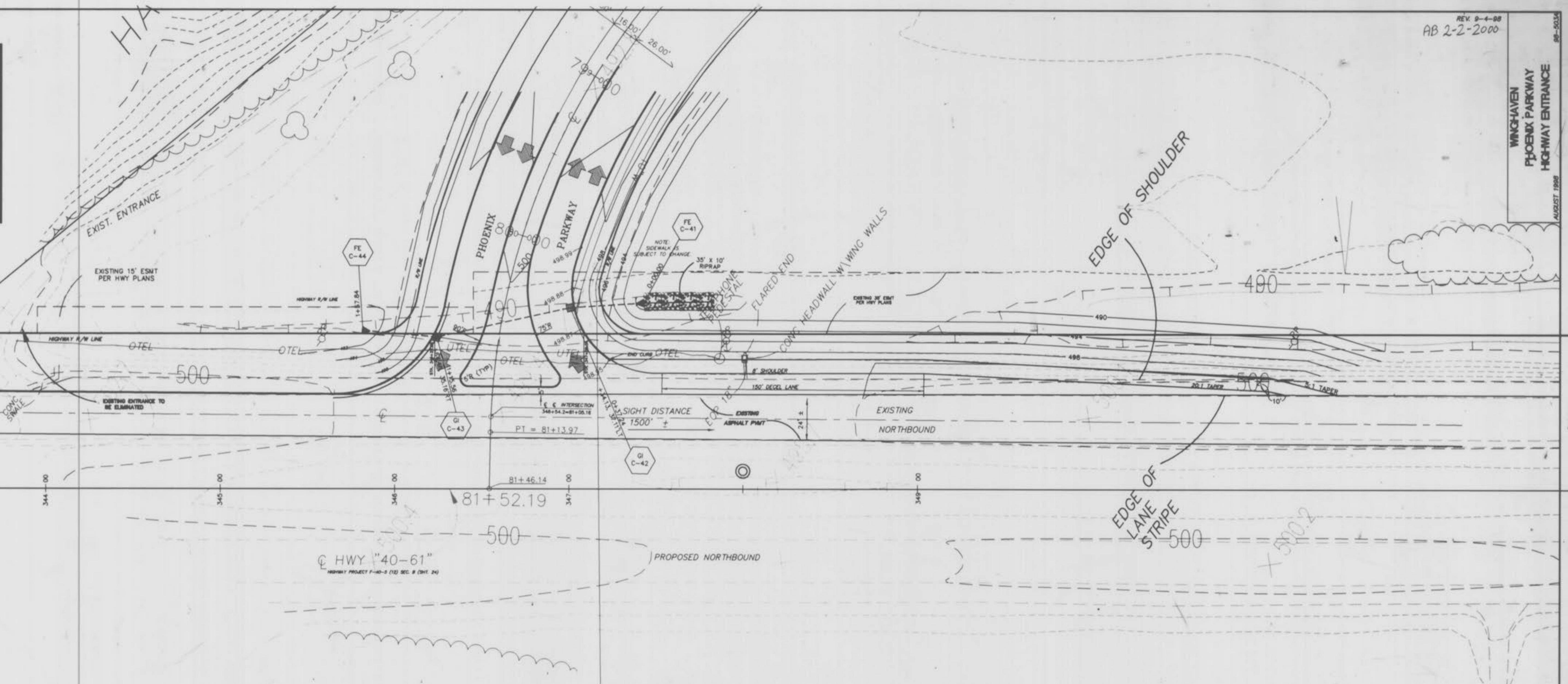
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Winghaven Parkway Project As-Builts 9/0



LOCATION MAP

NTS



PROPOSED ENTRANCE PAVEMENT

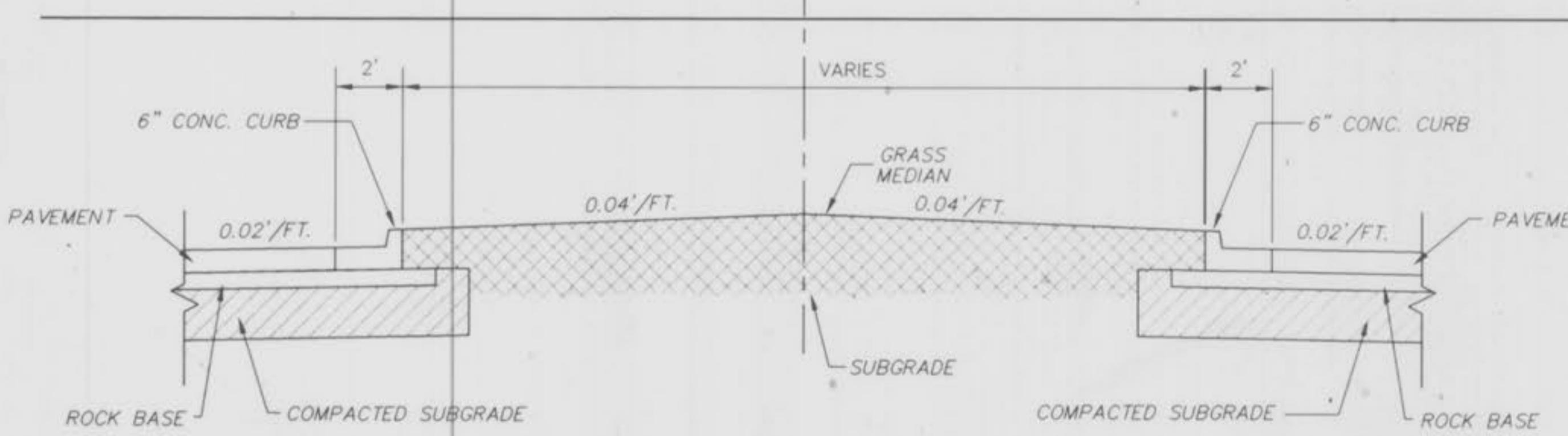
**CONCRETE**  
8" CONCRETE  
8x6x6 STEEL MESH (3" BELOW FINISHED GRADE)  
4" ROLLED STONE BASE  
INTEGRAL CONCRETE CURB (6" VERTICAL)

OR

**ASPHALT**  
6" ROLLED STONE BASE OR  
6" TYPE 'X' (BLACK BASE)  
3" ASPHALT TOP (TYPE C)  
MACHINE LAID  
ASPHALT CURB (6" VERTICAL) (TO R/W)

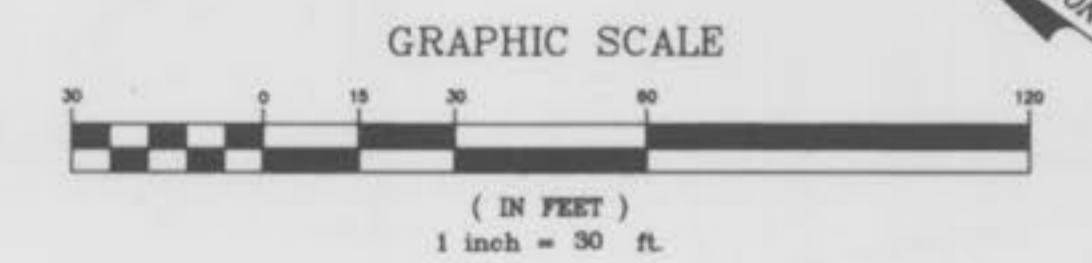
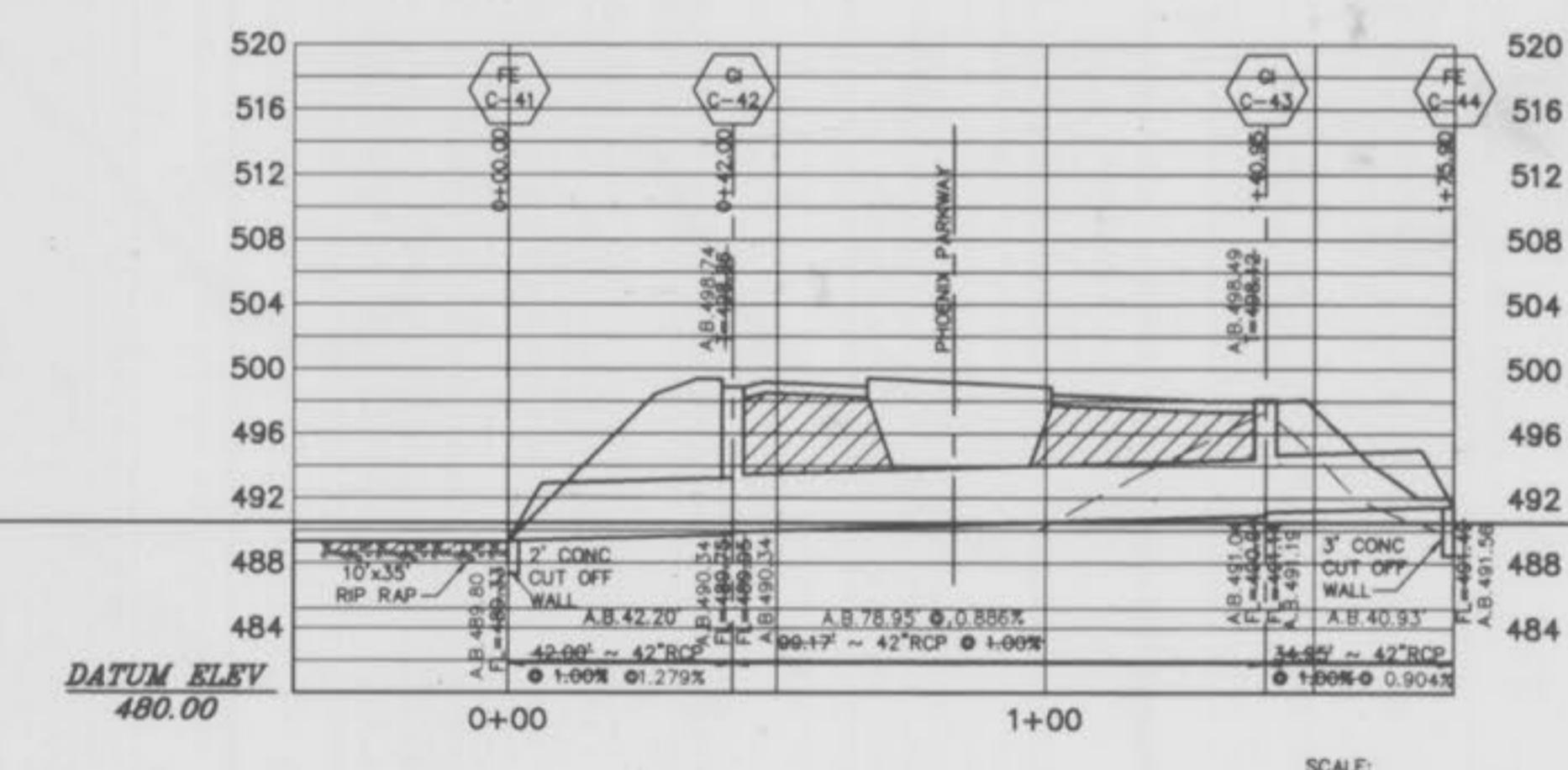
NOTE:  
SEE STATE SPECS FOR  
IMPROVEMENTS AND ROW

CONSTRUCTION CL



TYPICAL ISLAND SECTION

NOT TO SCALE



"AS-BUILTS"

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