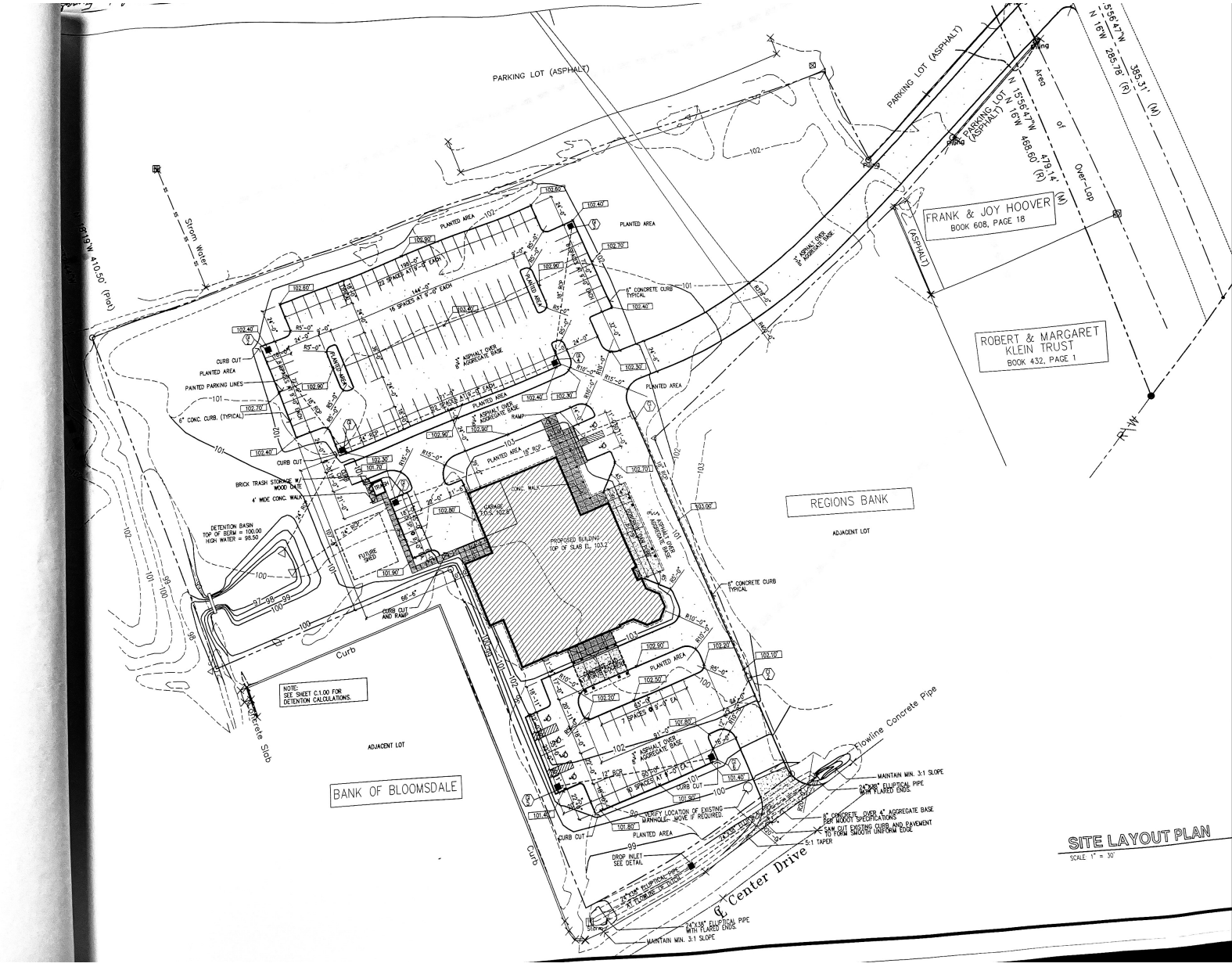
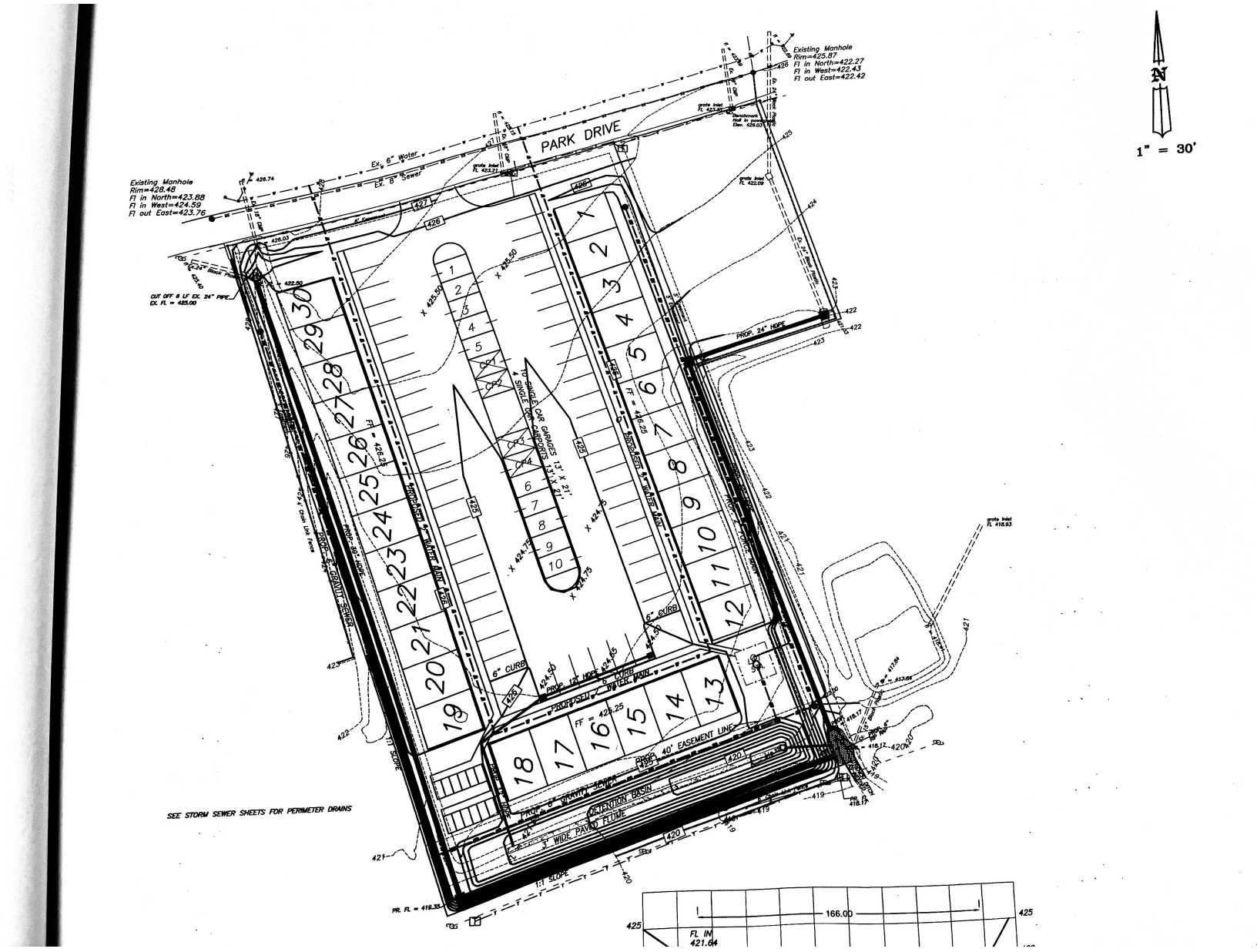


Created with SCAN ACE



Created with **SCAN ACE**

J9S3854 – Route 32 – Conceptual Study Report

Presented to: Missouri Department of Transportation

Prepared by: TREKK Design Group

September 21, 2026

Preliminary Report
Subject to Change
NOT TO BE REPRODUCED OR REISSUED TO OTHERS

10/20/2026 3:41:50 PM

Table of Contents

1. Introduction 2
2. Existing Conditions 2
   - 2.1. Route 32 2
   - 2.2. Center Drive 2
3. Hydrology Analysis 3
   - 3.1. Route 32 3
   - 3.2. Center Drive 3
4. Hydraulic Analysis 4
   - 4.1. Route 32 4
   - 4.2. Center Drive 4
5. Alternative Analysis 5
   - 5.1. Route 32 5
     - 5.1.1. Alternative #1 – Roadway Profile Adjustment 5
     - 5.1.2. Alternative #2 – Retention Pond 5
   - 5.2. Center Drive 5
     - 5.2.1. Alternative #1 – Culvert Replacement 5
     - 5.2.2. Alternative #2 – Upstream Detention Basins 6
     - 5.2.3. Alternative #3 – Combination Culvert Replacement with Upstream Detention Basins 6
     - 5.2.4. Alternative #4 – Property Buy-Out 6
6. Proposed Recommendation 7
   - 6.1. Route 32 7
   - 6.2. Center Drive 7

List of Appendices

Appendix A - Route 32 Existing Conditions Results 8
Appendix B - Center Drive Existing Conditions Results 13
Appendix C - Route 32 Proposed Alternatives Results 18
Appendix D - Center Drive Proposed Alternatives Results 28

List of Abbreviations

2D	Two-Dimensional
CN	Curve Number
MoDOT	Missouri Department of Transportation
MSDIS	Missouri Spatial Data Information Service
RCB	Reinforced Concrete Box
TREKK	TREKK Design Group

Executive Summary

TREKK Design Group completed this conceptual drainage and flooding study for the Missouri Department of Transportation (MoDOT) and the City of Ste. Genevieve to evaluate recurring flooding concerns along Route 32 near Siebert Road and along Center Drive. The study included field investigations, hydrologic and hydraulic modeling, and evaluation of potential mitigation alternatives to improve roadway reliability and reduce flood impacts to adjacent properties.

Analysis confirmed that the Route 32 study area functions as a closed watershed with no defined surface outfall. During extended rainfall events, stormwater accumulates within the basin at an existing sinkhole, resulting in overtopping of Route 32 and prolonged roadway closures. Along Center Drive, hydraulic modeling identified significant flooding impacts to the commercial property at 741 Center Drive, as well as overtopping of the existing culvert crossing during larger storm events.

To address these issues, several alternatives were evaluated.

1.1. Route 32 Alternatives

1.1.1. Alternative #1 – Roadway Profile Adjustment

Raise Route 32 and Siebert Road above modeled flood elevations.

1.1.2. Alternative #2 – Retention Pond

Construct an off-site retention basin upstream and in-line with the existing channel flow path to reduce flood levels while maintaining the existing roadway profile.

1.2. Center Drive Alternatives

1.2.1. Alternative #1 – Culvert Replacement

Replace the existing culvert with a larger single-cell or double-cell box culvert.

1.2.2. Alternative #2 – Upstream Detention Basins

Construct detention basins upstream of Center Drive.

1.2.3. Alternative #3 – Culvert Replacement with Upstream Detention

Combine culvert dimension improvements with upstream detention facilities.

1.2.4. Alternative #4 – Property Acquisition and Expanded Detention

Acquire 741 Center Drive and construct a regional detention basin after removal of the existing structure.

TREKK recommends that MoDOT proceed with Alternative #1 for Route 32, consisting of raising the roadway profile along Route 32 and Siebert Road. This alternative provides the best balance of flood resilience, constructability, property impacts, and overall cost while significantly reducing flooding-related roadway closures.

For Center Drive, TREKK recommends Alternative #4 – Property Acquisition and Expanded Detention. This alternative offers the greatest long-term benefit by reducing peak flows throughout the watershed and removing a repeatedly impacted structure from the flood-prone area. Additional hydraulic analysis during preliminary design will refine detention sizing and determine whether supplemental culvert improvements are warranted.

1. Introduction

TREKK Design Group (TREKK) developed this Conceptual Study Report on behalf of the Missouri Department of Transportation (MoDOT) and the City of Ste. Genevieve to assess existing hydraulic conditions, identify areas susceptible to inundation, and support future planning and mitigation efforts along Route 32 and Center Drive in the County and City of Ste. Genevieve, Missouri.

2. Existing Conditions

TREKK completed a site visit with MoDOT and the City of Ste. Geneveve in March 2026. Additionally, TREKK received a limited topographic survey for Route 32 and Center Drive from MoDOT in May 2026.

2.1. Route 32

The Route 32 study area is located within Ste. Genevieve County limits near the intersection of Route 32 and Siebert Road. There is an existing sinkhole north of Route 32 where flow is collected from both the north and south channels. There is no known outfall for this sinkhole, making the drainage area a closed watershed of approximately 548.2 acres. Flow from the south crosses Route 32 with an existing 8'x5' reinforced concrete box (RCB) culvert and drains to the existing sinkhole previously mentioned. As there is no outfall, all runoff drains into this depression, relying entirely on subsurface infiltration or storage capacity.

Land uses for the existing drainage area consist of primarily rural residential properties with areas of agriculture and woods.

Exhibit A details the existing drainage areas as well as flow paths identified during the site visit, from topographic survey collected by MoDOT, and from supplemental lidar from the Missouri Spatial Data Information Service (MSDIS).

Conversations with the business owner at 20700 Siebert Road indicated that during periods of flooding, Route 32 can see between 2- and 3-feet of water over the road with closures that have lasted two weeks.

2.2. Center Drive

The Center Drive study area is located within the city limits of Ste. Genevive at 741 Center Drive. This property is owned and operated by Shuh & Sons Plumbing & Heating Company and experiences frequent flooding that inundates the storage yard and commercial building located on-site.

The drainage area north of Center Drive is subdivided into three separate subbasins based on their major overland flow path. Subbasin #1A is approximately 21.6 acres and drains existing storm inlets along Park Drive and private storm systems from to a series of small ditches that converge along the north property line of 741 Center Drive. Subbasin #1B is approximately 25.9 acres and drains existing storm inlets along Park Drive as well as private storm systems from Basler Funeral Home at 685 Center Drive and the Butterfield Village Apartments along Park Drive to an existing detention basin within the existing green space of 685 Center Drive. Both Subbasin #1A and #1B merge at the existing ditch in-between the properties of 695 and 741 Center Drive. The flow from this ditch has to turn 90 degrees to reach the existing 5'x3' RCB culvert under Center Drive. The remainder of the drainage area, Subbasin #1C, is approximately 39.6 acres and drains to the existing 5'x3' RCB culvert under Center Drive via enclosed drainage systems and open channel ditches.

Subbasin #2 is approximately 28.6 acres and drains flow via an open channel to an existing 6'x6' RCB culvert that runs adjacent to or potentially under McDonalds at 706 Center Drive and the Ste. Genevieve Group Home at 630 Pointe Basse Drive.

Subbasin #3 is approximately 94.1 acres and drains flow via an open channel to a large sinkhole north of Oakwood Drive. The sinkhole is covered by an 11'x17' grate and it is unknown where the flow travels from here.

Land uses for Subbasin #1 consist primarily of residential properties north of Park Drive and commercial properties north of Center Drive. Land uses for Subbasins #2 and #3 consist of a combination of residential and commercial properties throughout each basin.

Exhibit B details the existing drainage areas as well as flow paths identified during the site visit, from topographic survey collected by MoDOT, and from supplemental lidar from MSDIS.

3. Hydrology Analysis

3.1. Route 32

A two-dimensional (2D) hydraulic model was developed to model the existing topography, simulate flow conditions, and evaluate performance under design storm events within the project area. A 2D model was chosen as the preferred method of hydraulic analysis due to the closed watershed and number of sinkholes within the area. The model was developed using HEC-RAS Version 6.6.

Peak flow inputs to the model were developed based on historical rainfall data provided by City of Ste. Genevieve and NOAA Atlas 14 temporal distributions for the City of Ste. Genevieve. Simulations were carried out for calibration storm events in June 2015, December 2015, and April 2017. Simulations for the NOAA Atlas 14 temporal distributions were developed for the 10-year, 25-year, 50-year and 100-year return periods. Each frequency was analyzed for both 24-hour and 96-hour storm durations. The temporal distribution of rainfall depth was applied using Quartile 1 (50%) and Quartile 4 (50%) curves, selected based on the specific climatic characteristics of the project location.

3.2. Center Drive

The hydrologic analysis for the study area was performed using HEC-HMS 4.13. The model was used to simulate rainfall-runoff response and estimate peak flows and runoff volume for design storm events for each subbasins. The combined drainage area for Subbasin #1, #2, and #3 is approximately 209.8 acres.

Two hydrologic methods were utilized in the HEC-HMS model to determine peak flows including SCS Type 2 hypothetical storms and NOAA Atlas 14 frequency storms for the 2-year, 10-year, 25-year, 50-year, and 100-year storm event with a 24-hour return period. For each subbasin, the loss method was set to SCS Curve Number, and the transform method was set to Clark Unit Hydrograph. Additionally, peak flows were calculated using the Rational Method. **Table 1** in **Appendix B** details the drainage area characteristics for each subbasin along Center Drive.

Table 2 in **Appendix B** details the summary of peak flow values calculated by Rational, SCS Type 2, and NOAA Atlas 14 Methods.

After the site visit in March 2026, it was observed that a large portion of Subbasin #1 was collecting along the northern property line of 741 Center Drive where the commercial business experiences frequent flooding due to the low elevation of the site compared to the neighboring business. To analyze the flow directly draining to this site, Subbasin #1 was divided into Subbasins #1A and #1B based on their major flow paths. **Table 3** in **Appendix B** details the summary of peak flow values for Subbasins #1A and #1B calculated by the Rational, SCS Type 2, and NOAA Atlas 14 Methods.

4. Hydraulic Analysis

4.1. Route 32

To evaluate the existing conditions of the Route 32 project site, a 2D hydraulic model using HEC-RAS Version 6.6 was developed. Within HEC-RAS a 2D flow mesh was created within the limits of the watershed. Surface characteristics were based on land cover, with Manning's *n* values assigned to represent roughness. Infiltration was defined using the SCS Curve Number (CN) method and applied across the mesh. Within the mesh, break lines were used to represent changes in surface elevation such as centerline of roads, boundaries of ponds, and channels that affect flow patterns in natural conditions.

Due to the nature of project site, a precipitation boundary condition was chosen as the method for Unsteady Flow analysis. The storm events described in Section 3.1 were applied uniformly across the model to simulate runoff generation and assess flooding and overtopping within the study area.

Simulation of the 10-year, 96-hour storm event, the smallest storm analyzed, indicates that Route 32 experiences significant flooding. The extended duration of this storm appears to be a key factor, as the large volume of runoff likely exceeds the site's natural ability to infiltrate and drain water.

Water surface profiles along Route 32 show flood elevations rising above the roadway grade during this event, resulting in overtopping of the roadway. These results suggest the area functions as a hydraulic "sump," where stormwater collects and remains trapped due to the lack of an adequate outlet, leading to prolonged flooding even during relatively frequent storm events.

Appendix A includes flood inundation maps for the existing 10-year, 25-year, 50-year, and 100-year, 96-hour storm events along Route 32.

4.2. Center Drive

To evaluate the existing surface water drainage impacts on the project area, a one-dimensional (1D) hydraulic model was developed using GeoHECRAS Version 5.1.0.1844. The model extends from north of Center Drive to just north of Oakwood Drive at the existing sinkhole. A total of 11 cross sections were extracted along the channel using LiDAR from MSDIS. The 5'x3' RCB culvert under Center Drive and the 6'x6' RCB culvert Blues Highway were modeled as well.

Manning's Roughness values were applied to the Existing Conditions model. Mannings roughness values include 0.030 for grass, 0.013 for concrete/pavements, and 0.010 for wooded areas. Manning's Roughness values change along the channel from 0.030 grass north of Center Drive to 0.035 for rip rap channels south of Center Drive.

A normal depth boundary condition was chosen for the downstream end of the channel at the existing sinkhole.

Water surface profiles along the Center Drive channel show wide flood inundation throughout the commercial property at 741 Center Drive and roadway overtopping of Center Drive during the 25-year, 50-year, and 100-year design storms.

Appendix B includes a comparison of peak flow values between the MoDOT Rational, SCS Type 2, and NOAA Atlas 14 hydrology methods. Additionally, flood inundation maps are included for the existing 2-year, 10-year, 25-year, 50-year, and 100-year storm events along Center Drive using the MoDOT Rational Method.

5. Alternative Analysis

5.1. Route 32

5.1.1. Alternative #1 – Roadway Profile Adjustment

TREKK developed a proposed roadway profile for Route 32 that would raise the roadway above the 100-year water surface elevation identified in the existing hydraulic analysis. The proposed profile would increase the roadway elevation by approximately 3.5 feet at the sag location and would also require a corresponding profile adjustment along Siebert Road. Initial hydraulic analysis of the proposed condition indicates that the roadway would be outside the inundation limits for both the 50-year and 100-year design storm events.

5.1.2. Alternative #2 – Retention Pond

To maintain the existing roadway profile elevations, an off-site retention pond could be constructed along the north side of Route 32. Initial hydraulic analysis of the proposed condition indicates that a large retention pond excavated to an elevation of 555 feet could reduce the 50-year design storm water surface elevation without requiring an increase to the existing roadway profile.

Appendix C includes the proposed flood inundation maps for the Route 32 alternatives described above as well as conceptual details for each alternative.

5.2. Center Drive

5.2.1. Alternative #1 – Culvert Replacement

a. Single Cell 7’ x 4’ RCB

The existing hydraulic analysis indicates that the 25-year, 50-year, and 100-year design storm events result in overtopping of Center Drive. To improve conveyance, the existing single-cell 5’ x 3’ RCB culvert was evaluated for replacement with a single-cell 7’ x 4’ RCB culvert. Modeling results show that the larger culvert would contain the 25-year and 50-year design storm water surface elevations within the culvert barrel; however, the 100-year storm event would continue to overtop Center Drive.

Although the larger culvert would reduce the frequency and severity of overtopping at Center Drive, flooding would still occur at the commercial property located at 741 Center Drive, though the overall flood risk would be reduced.

b. Double Cell 6' x 3' RCB

Increasing the existing box culvert to a double-cell 6' x 3' RCB culvert would provide sufficient hydraulic capacity to convey all analyzed design storm events without overtopping, keeping computed water surface elevations within the culvert barrels. While this improvement would reduce upstream backwater effects, hydraulic modeling indicates that flooding would still occur at the commercial property located at 741 Center Drive. Therefore, although the culvert replacement would improve conveyance through the crossing, it would not fully eliminate flood impacts to adjacent properties.

5.2.2. Alternative #2 – Upstream Detention Basins

Due to the two primary flow paths originating from Subbasins 1A and 1B, two separate detention basins were evaluated upstream of the existing RCB culvert beneath Center Drive. To meaningfully reduce water surface elevations upstream of Center Drive, runoff from both subbasins would need to be fully detained within the proposed basins.

For this alternative, reduced peak flows were applied in the hydraulic model to simulate the effects of upstream detention. Modeling results indicate that this alternative would remove the adjacent structure from the 50-year floodplain; however, the parking lot would continue to experience flooding. From a constructability standpoint, achieving the required detention volume while maintaining gravity drainage to the adjacent ditch would require basin footprints that exceed the available space. As a result, this alternative was determined to be infeasible due to site constraints.

5.2.3. Alternative #3 – Combination Culvert Replacement with Upstream Detention Basins

A third alternative was evaluated that combined replacement of the existing Center Drive RCB culvert with a larger 7' x 4' RCB culvert and the construction of detention basins upstream of Center Drive. To reduce the detention volume required for each basin, portions of Subbasins 1A and 1B would need to bypass the proposed detention facilities and discharge directly downstream. Accommodating this flow diversion would require reconstruction and rerouting of the existing storm sewer systems along Park Drive.

Although the bypass configuration reduced the required detention storage volume, hydraulic analysis indicated that the detention basins would still require footprints larger than the space available within the project area. As a result, this alternative would involve substantial infrastructure modifications while remaining constrained by site limitations, making it impractical to implement.

If a bypass configuration is not preferred, the proposed detention basins could receive the full flow from Subbasins 1A and 1B, with excess runoff discharging to the downstream ditch and proposed RCB beneath Center Drive once the basins reach capacity.

5.2.4. Alternative #4 – Property Acquisition and Expanded Detention

This alternative would involve acquisition of the property and removal of the existing structure to allow construction of a larger detention basin. The expanded footprint could accommodate substantially more storage, providing greater runoff reduction upstream of the Center Drive crossing. While offering the greatest potential hydraulic benefit, this alternative would require property acquisition and demolition.

Preliminary evaluations indicate that a detention basin of sufficient size could reduce peak flows enough to substantially lower upstream water surface elevations and potentially eliminate overtopping at the Center Drive culvert during the analyzed design storm events. In addition to reducing flood risk at the crossing, this alternative would remove a repeatedly impacted structure from the flood-prone area and provide a long-term flood mitigation benefit to the surrounding drainage basin. Further study would be required to evaluate property acquisition costs, detention basin design requirements, and overall project feasibility.

Appendix D presents flood inundation maps and potential grading impacts for the Center Drive alternatives described above.

6. Proposed Recommendation

6.1. Route 32

TREKK recommends moving forward with Alternative #1, which includes raising the roadway profile along Route 32 and Siebert Road. This alternative significantly reduces flooding-related roadway closures while providing a practical and cost-effective solution. Compared to the detention basin alternatives, it requires less right-of-way and easement acquisition, minimizes impacts to adjacent property owners, and presents fewer implementation challenges. Based on its effectiveness, feasibility, and overall cost, TREKK considers Alternative #1 the preferred solution for improving flood resilience and maintaining reliable access along Route 32.

6.2. Center Drive

Based on coordination with MoDOT and the City of Ste. Genevieve, TREKK recommends advancing one of two alternatives, depending on available funding and City participation. Both alternatives include replacing the existing 5' x 3' RCB with a larger box culvert to reduce upstream flooding and eliminate overtopping of Center Drive as described in Alternative #1.

If the City participates in funding and maintaining the upstream detention basins, TREKK recommends Alternative #3. This alternative would reduce, but not eliminate, overland flooding at the Shuh & Sons property and would require additional easements from adjacent properties. Without City participation, Alternative #3 and the detention basins would not proceed.

During preliminary design, the required detention storage volume can be refined to better estimate the expected reduction in upstream flows.

Appendix A – Route 32 Existing Conditions Results

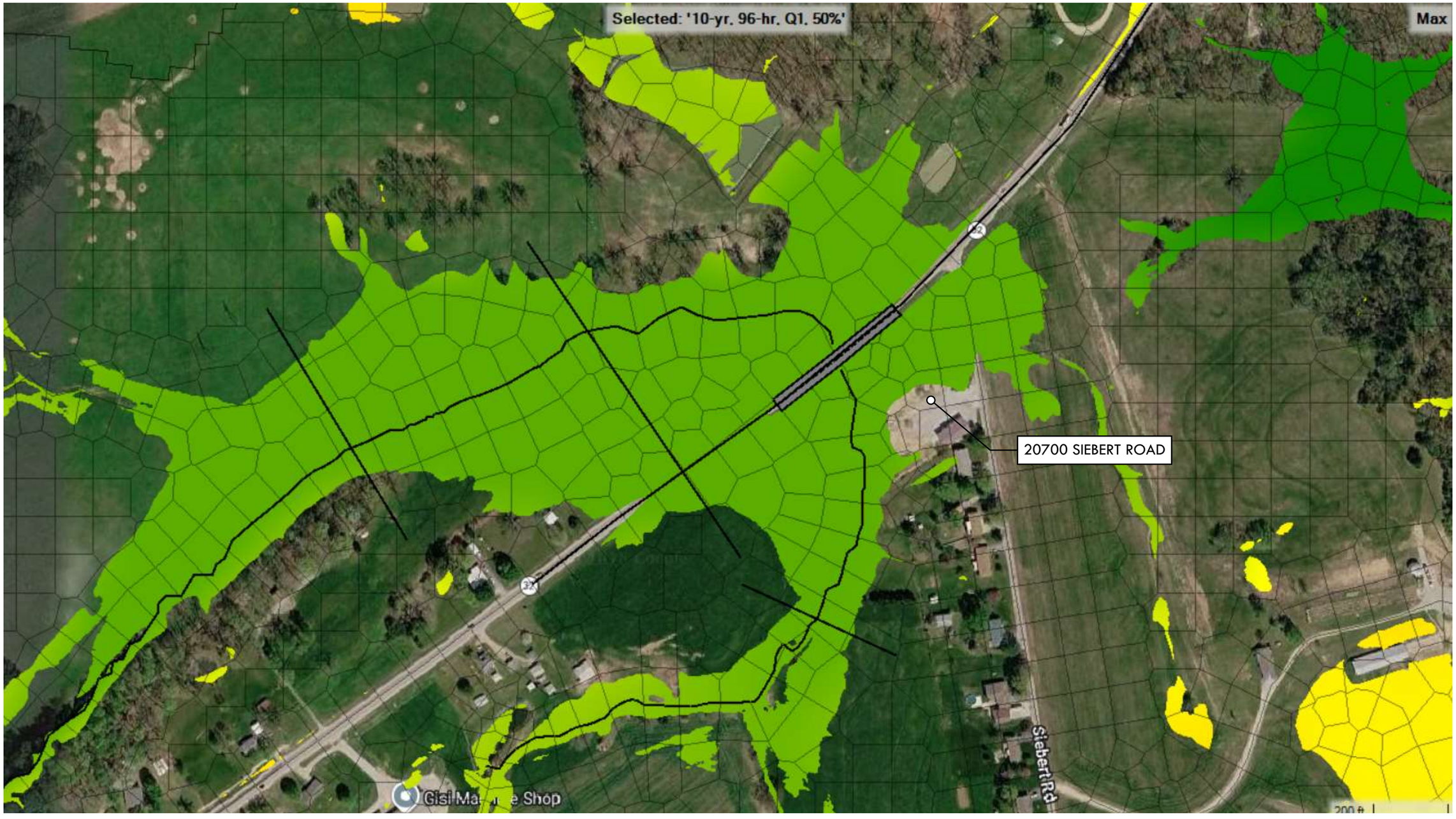


Figure 1 - Existing 10-Year, 96-Hour Inundation Map

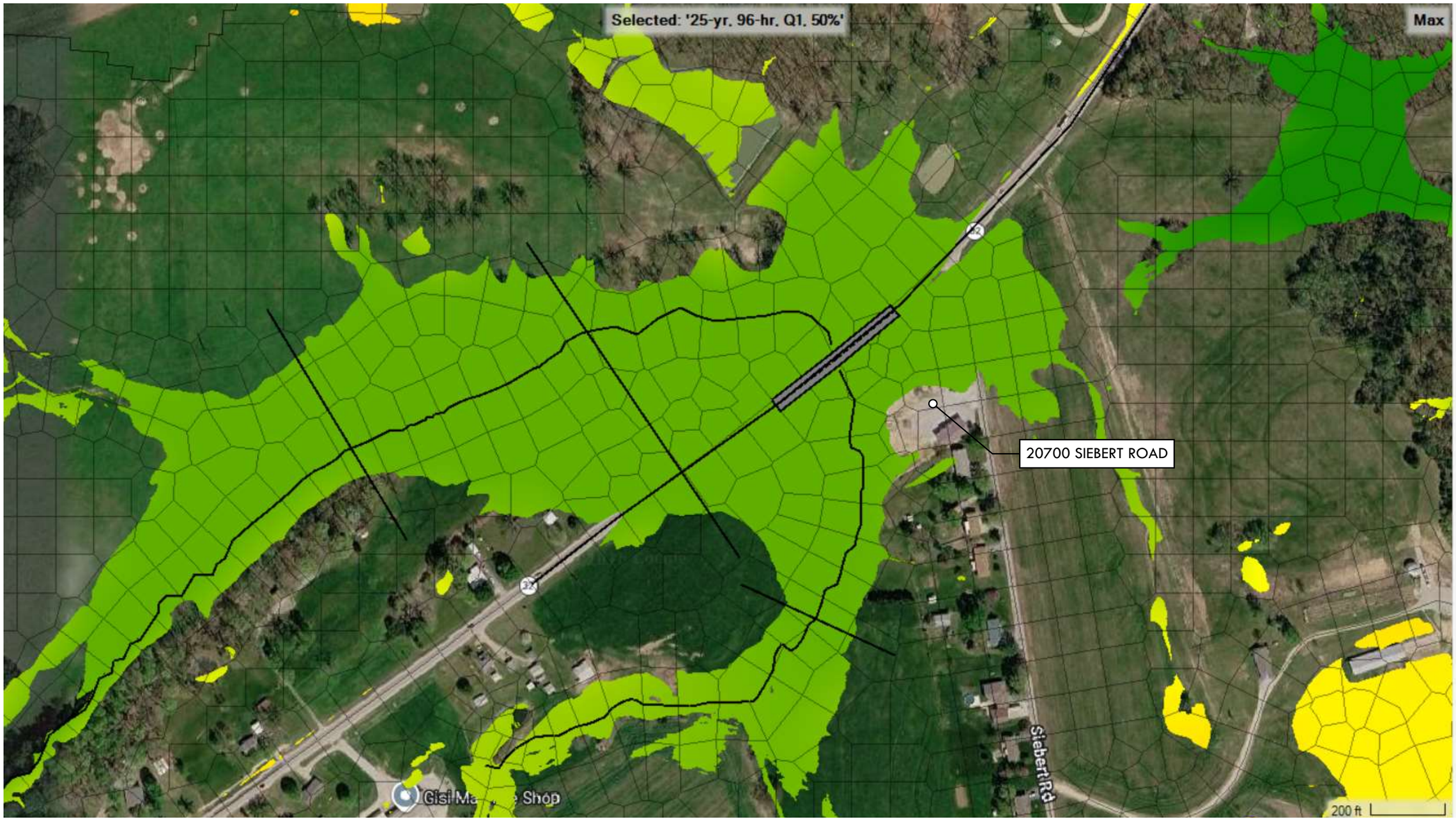


Figure 2 - Existing 25-Year, 96-Hour Inundation Map

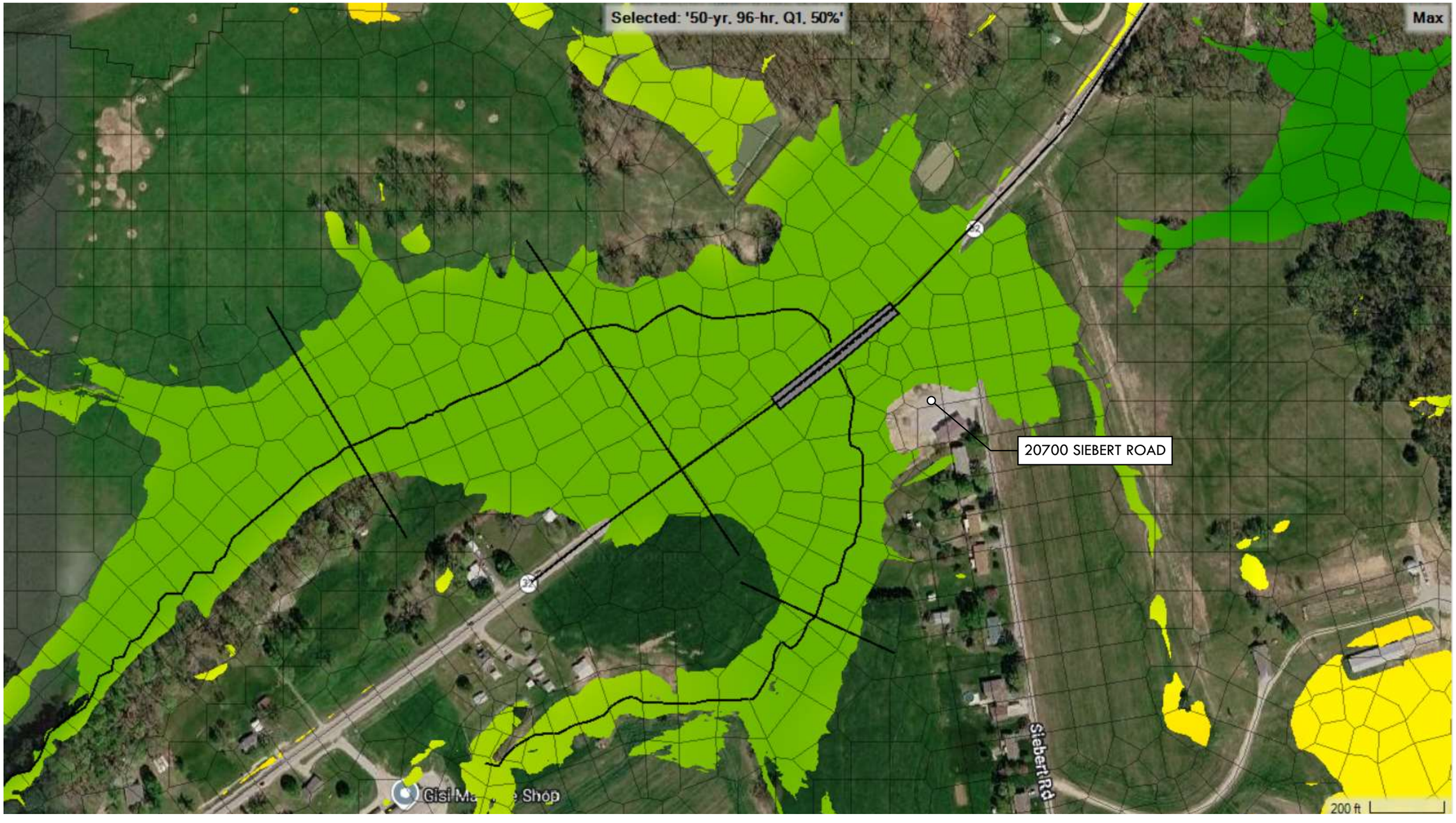


Figure 3 - Existing 50-Year, 96-Hour Inundation Map

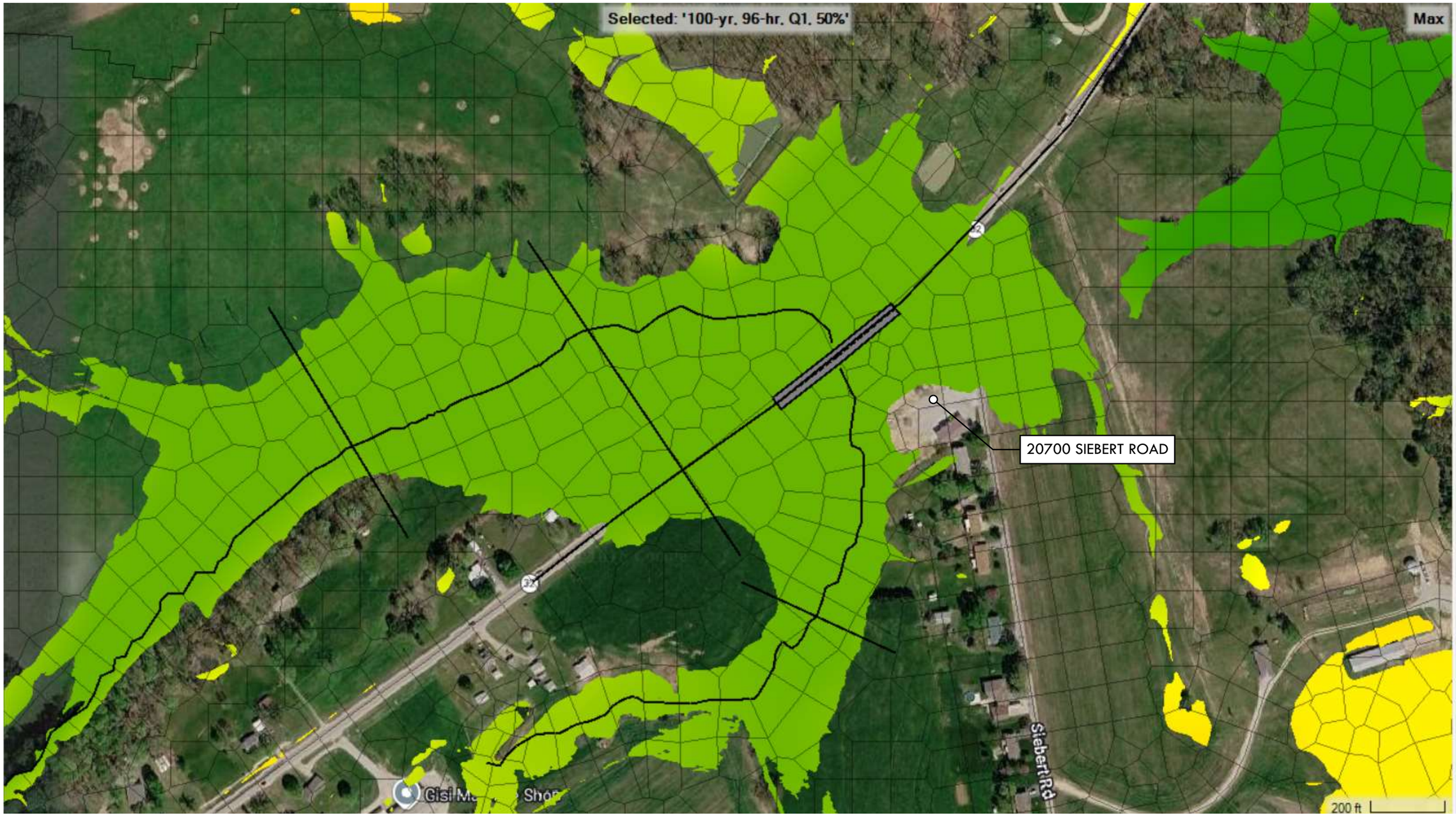


Figure 4 - Existing 100-Year, 96-Hour Inundation Map

Appendix B – Center Drive Existing Conditions Results

Subbasin	Area (ac)	Curve Number (CN)	Runoff Coefficient (C)	Tc (mins)
1	87.38	88.66	0.51	34.62
2	28.58	89.08	0.41	15.78
3	94.07	89.05	0.51	32.28

Table 1 - Drainage Area Characteristics

Frequency	Subbasin #1 Peak Flow Values (cfs)			Subbasin #2 Peak Flow Values (cfs)			Subbasin #3 Peak Flow Values (cfs)			Total Peak Flow Values (cfs)		
	Rational (MoDOT)	SCS Type 2	NOAA Atlas 14	Rational (MoDOT)	SCS Type 2	NOAA Atlas 14	Rational (MoDOT)	SCS Type 2	NOAA Atlas 14	Rational (MoDOT)	SCS Type 2	NOAA Atlas 14
2-Year	95.04	82.3	79.2	38.9	45.1	42.0	106.88	94.8	90.3	240.8	222.20	211.5
10-Year	137.35	123.1	116.9	55.9	67.5	62.7	154.37	141.3	133.1	347.6	331.90	312.7
25-Year	178.94	149.8	141.0	72.57	82.1	75.8	201.04	171.7	160.6	452.6	403.60	377.4
50-Year	219.85	171.5	160.3	88.79	94.0	86.2	246.88	196.4	182.4	555.5	461.90	428.9
100-Year	254.44	193.5	179.9	102.34	106.0	96.7	285.59	221.4	204.6	642.4	520.90	481.2

Table 2 - Summary of Peak Flow Values

Frequency	Subbasin #1A Peak Flow Values (cfs)		Subbasin #1B Peak Flow Values (cfs)	
	Rational (MoDOT)	SCS Type 2	Rational (MoDOT)	Rational (MoDOT)
2-Year	21.86	18.7	25.24	21.3
10-Year	31.59	28.5	36.47	32.9
25-Year	41.15	34.9	47.52	40.6
50-Year	50.56	40.1	58.38	46.9
100-Year	58.51	45.4	67.57	53.3

Table 3 - Summary of Peak Flow Values for Subbasins #1A and #1B

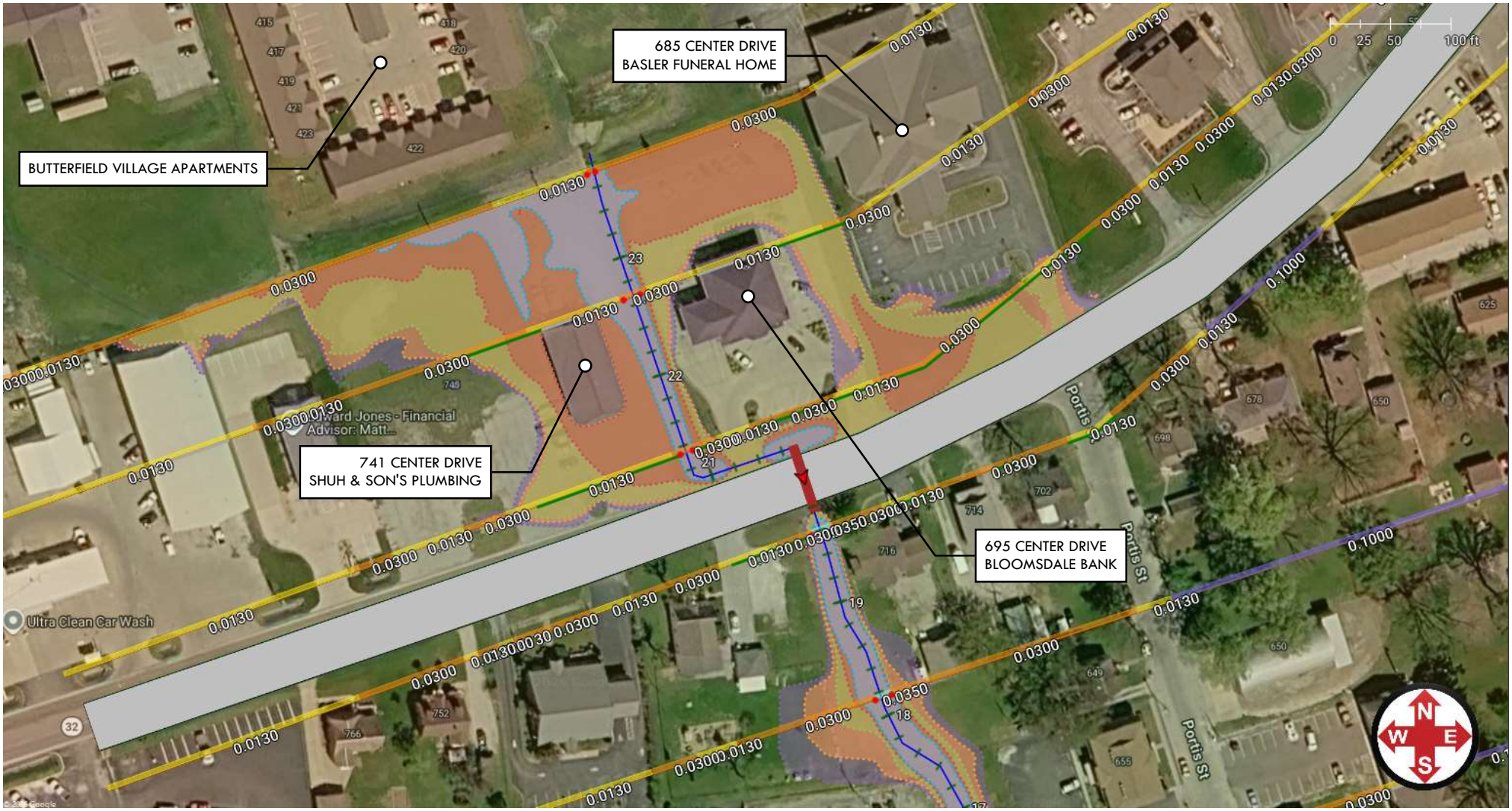


Figure 1 - Existing Inundation for MoDOT Rational Flows (2-, 10-, 25-, 50-, and 100-Year)

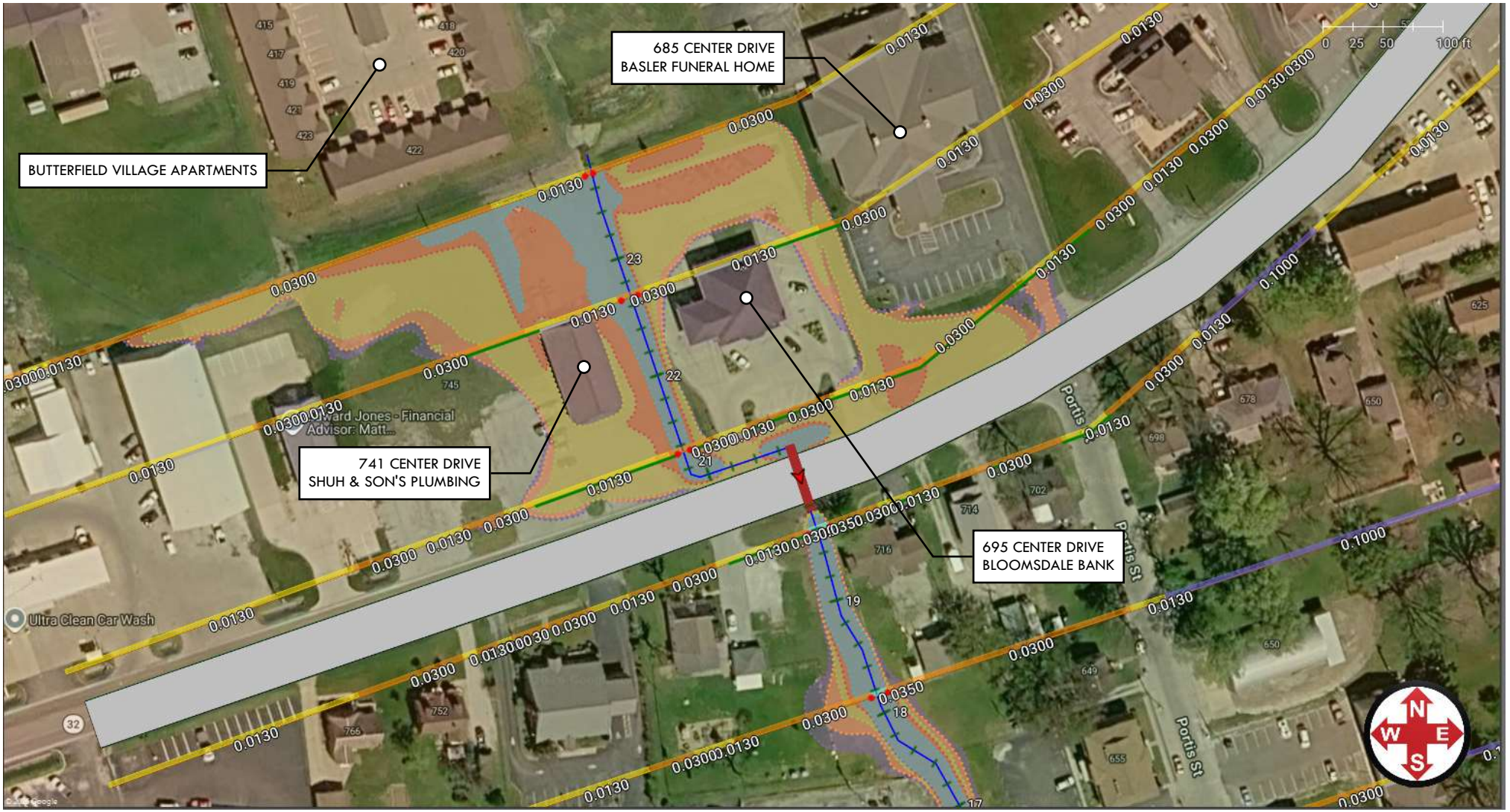


Figure 2 - Existing Inundation for SCS Type 2 Flows (2-, 10-, 25-, 50-, and 100-Year)

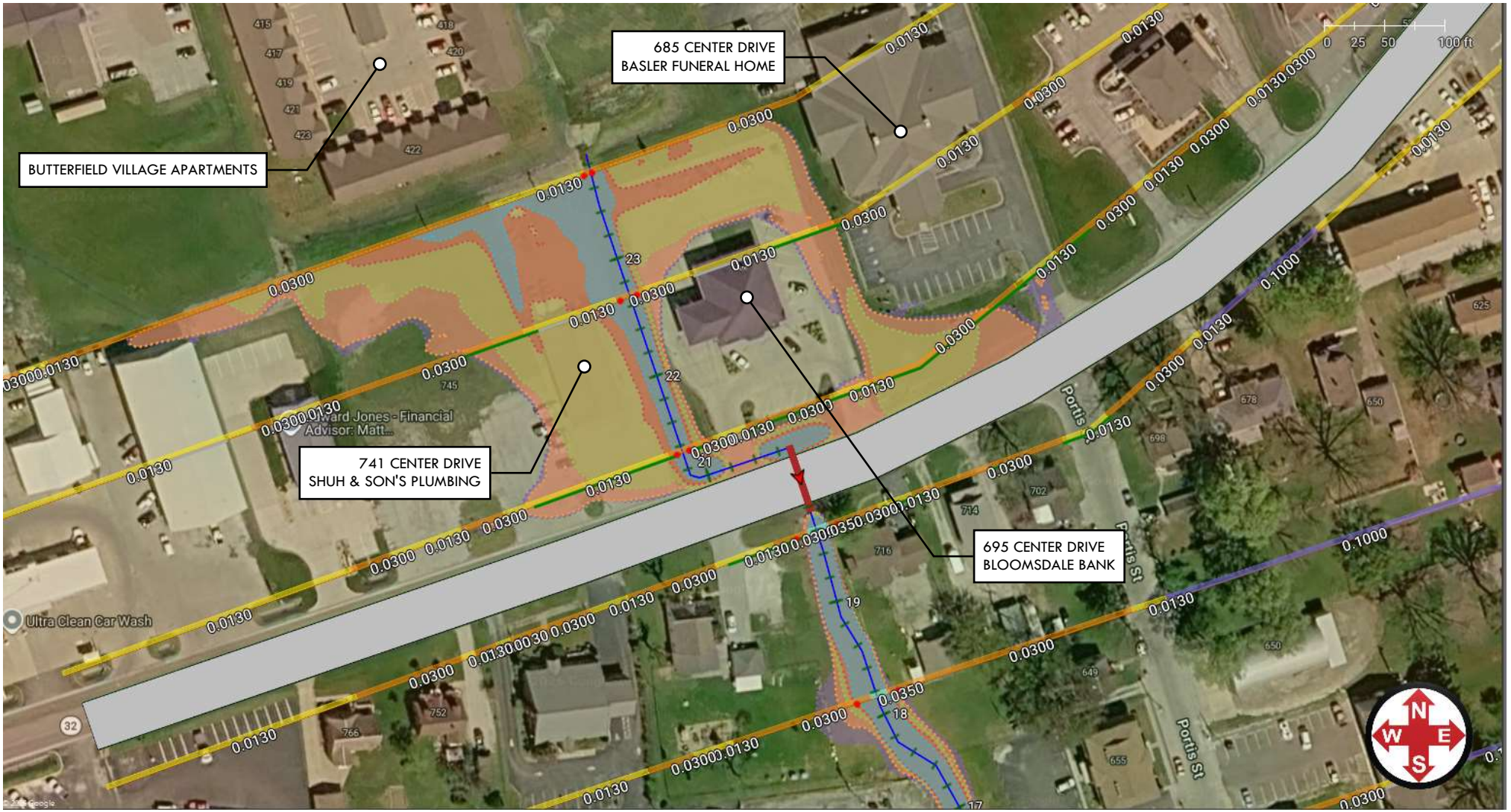
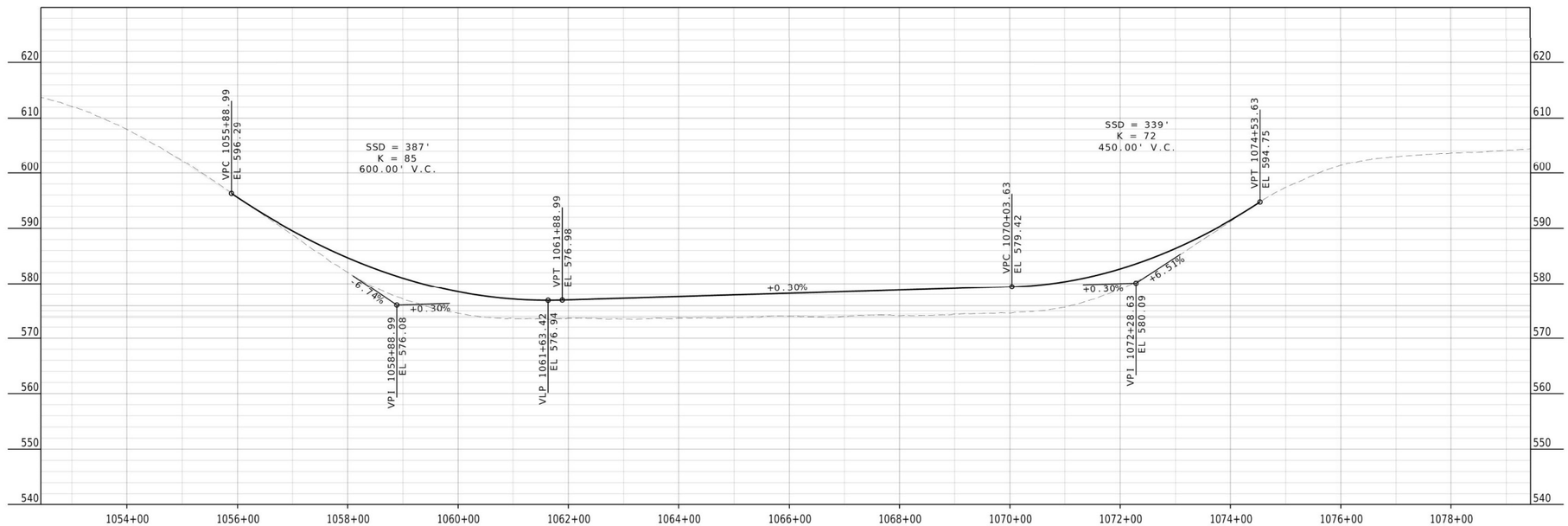


Figure 3 - Existing Inundation for NOAA Altas 14 Flows (2-, 10-, 25-, 50-, and 100-Year)

Appendix C – Route 32 Proposed Conditions Results

C.1 Alternative #1 – Roadway Profile Adjustment





DATE PREPARED
$DATE$
ROUTE
STATE
MO
DISTRICT
SHEET NO.
PLAN
COUNTY
JOB NO.
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

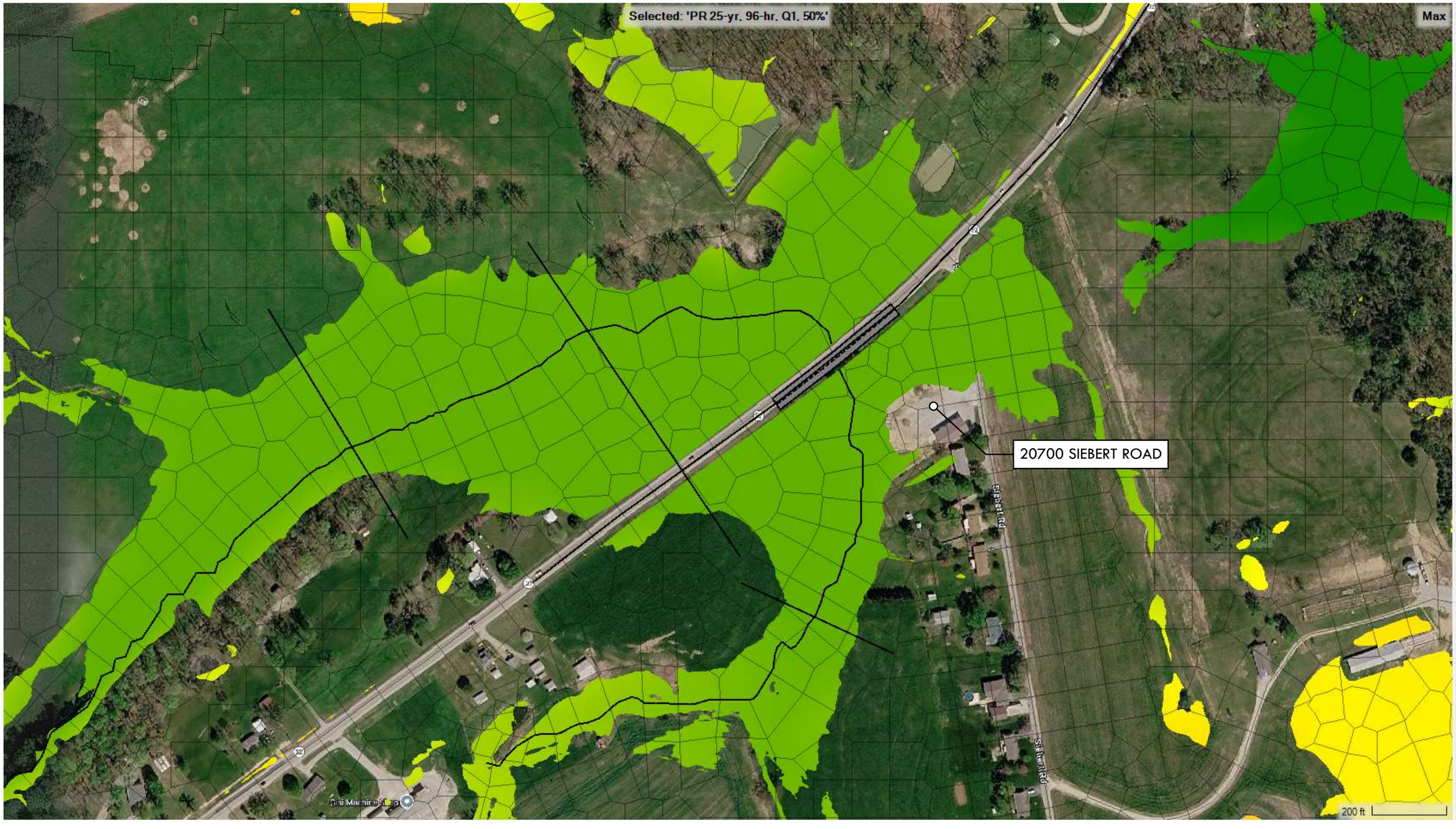


Figure 2 – Proposed Roadway Profile 25-Year, 96-Hour Inundation Map

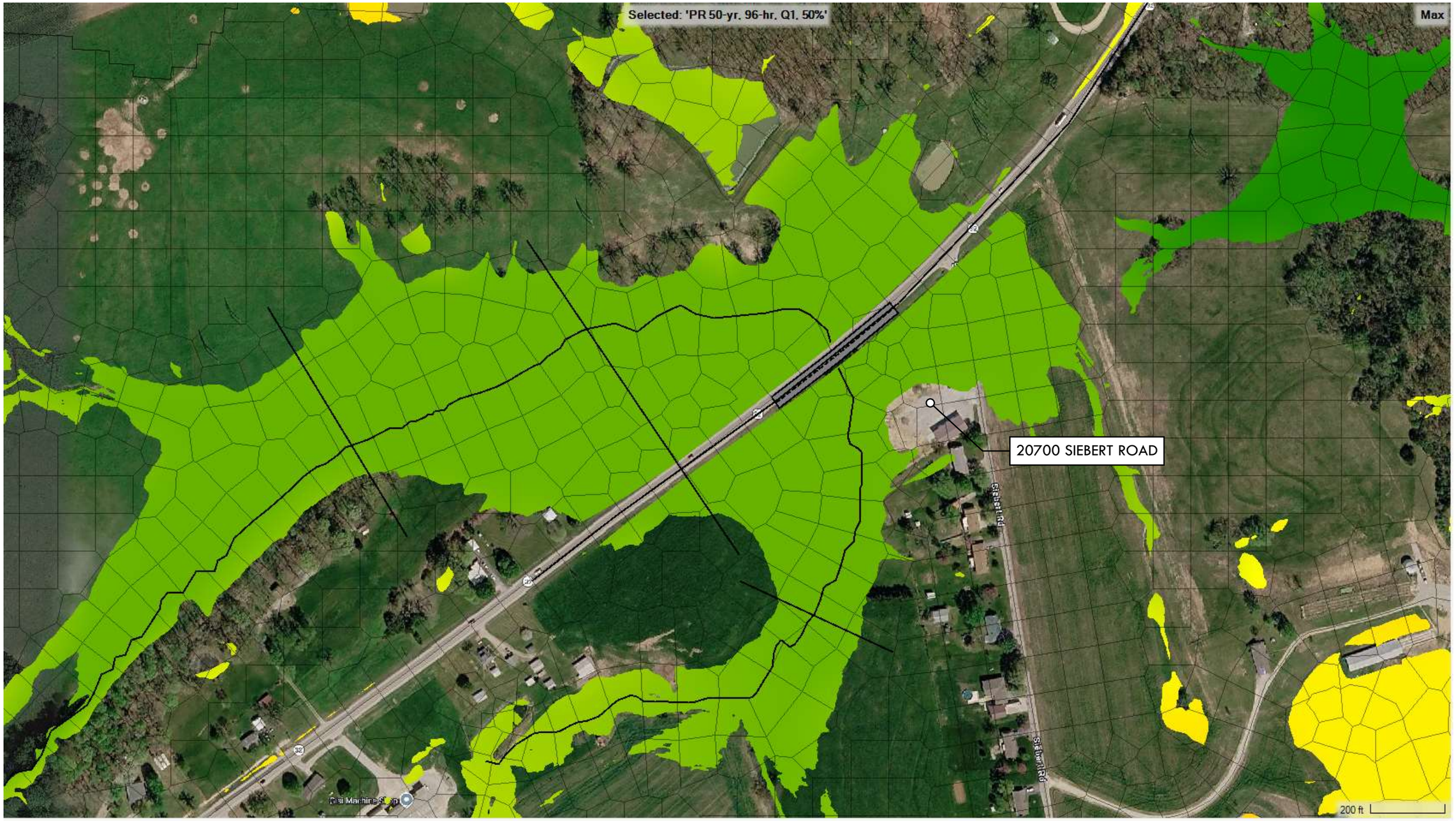


Figure 3 – Proposed Roadway Profile 50-Year, 96-Hour Inundation Map

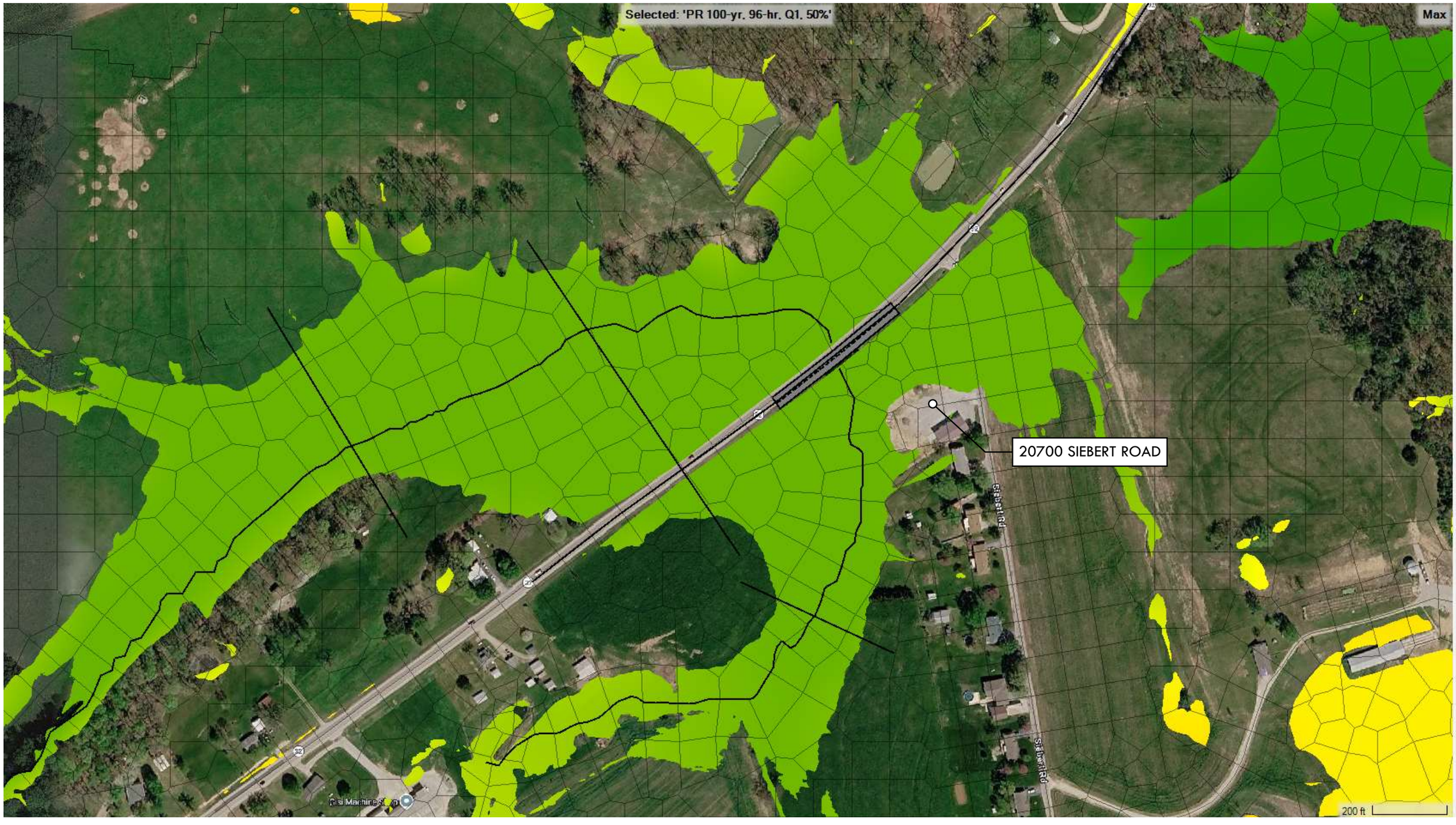


Figure 4 - Proposed Roadway Profile 100-Year, 96-Hour Inundation Map

C.2 Alternative 2 – Retention Pond

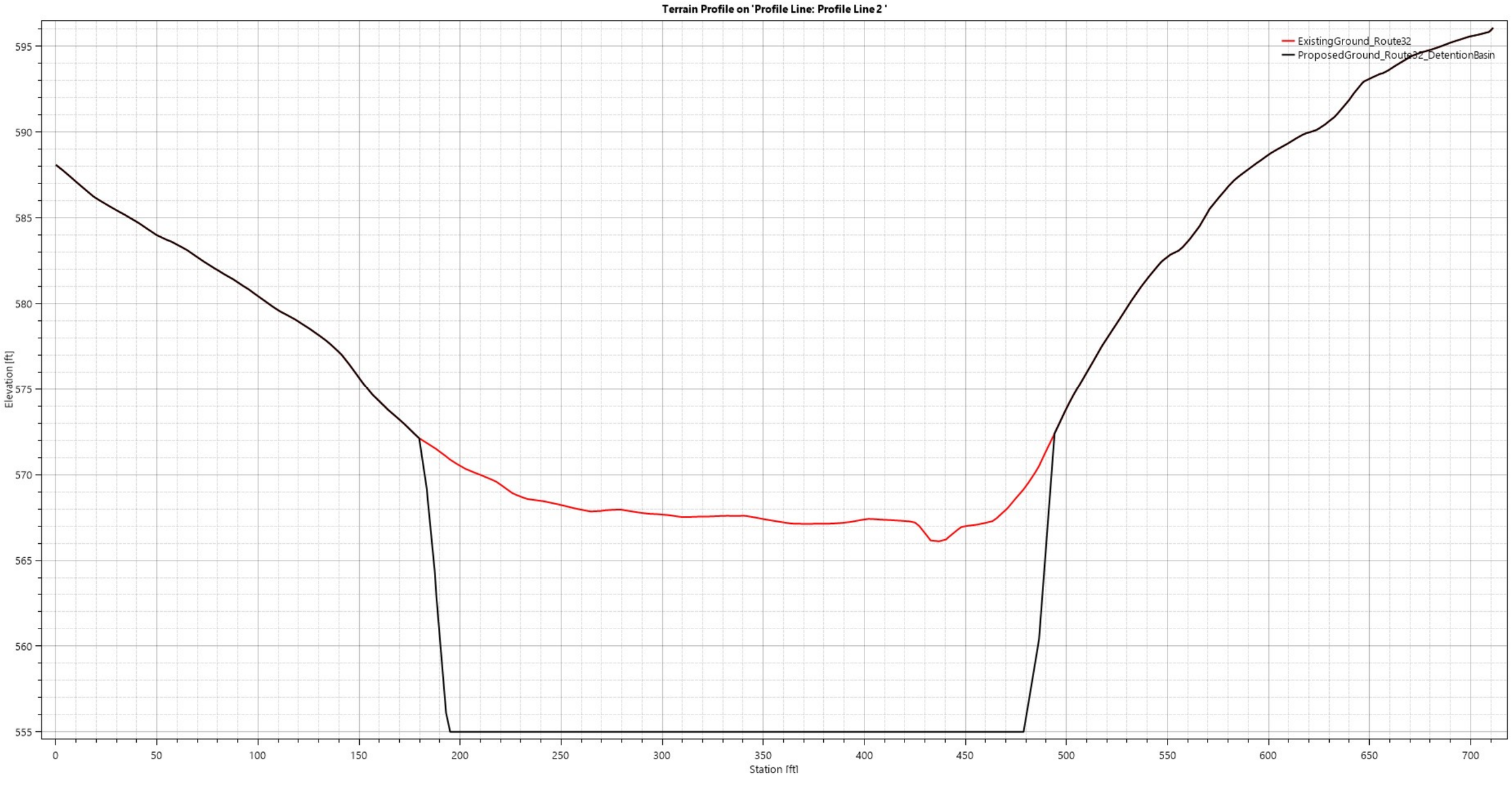




Figure 5 – Proposed Retention Pond 10-Year, 96-Hour Inundation Map

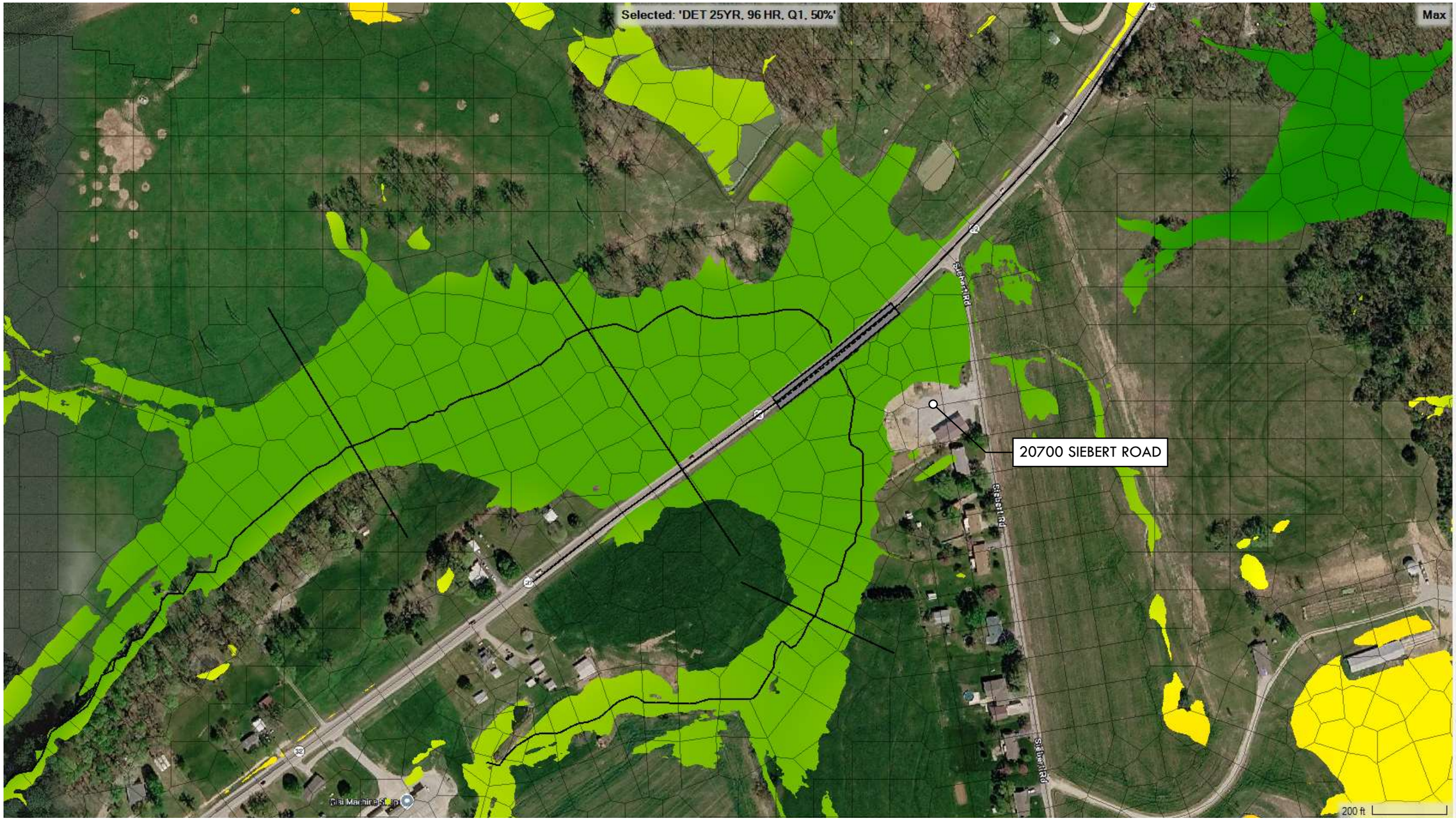


Figure 6 - Proposed Retention Pond 25-Year, 96-Hour Inundation Map

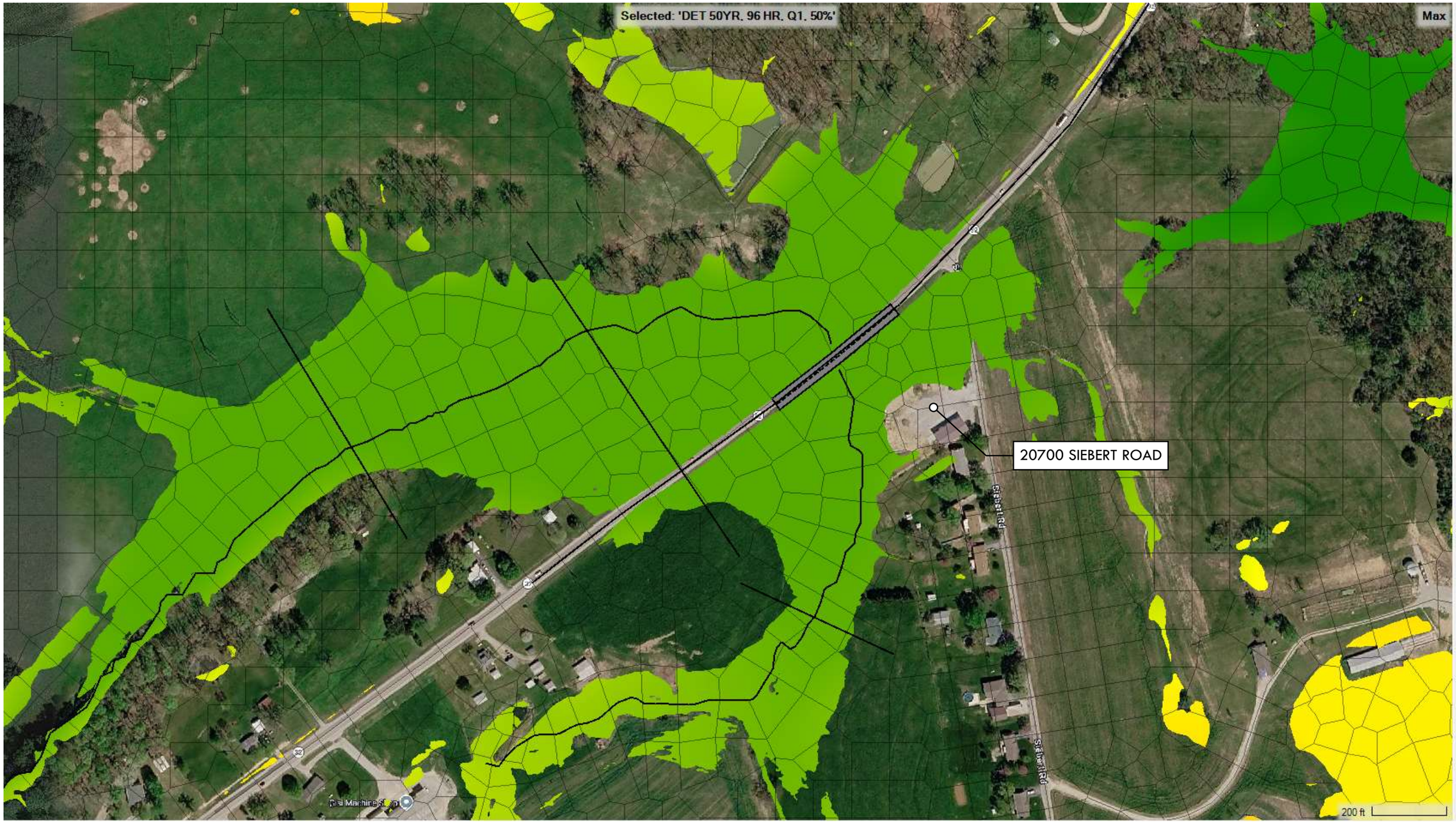


Figure 7 – Proposed Retention Pond 50-Year, 96-Hour Inundation Map

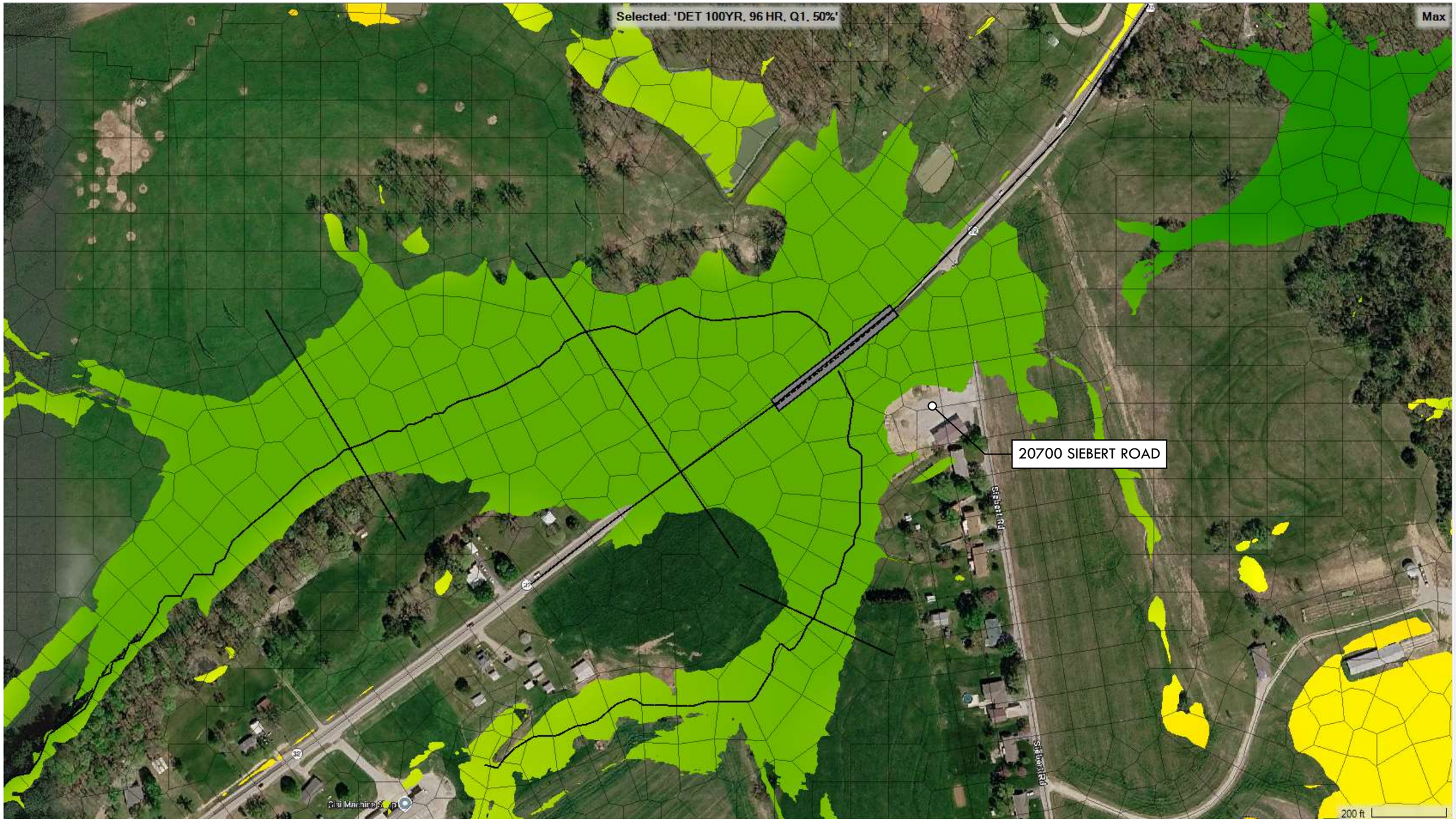


Figure 8 - Proposed Retention Pond 100-Year, 96-Hour Inundation Map

Appendix D – Center Drive Proposed Conditions Results

D.1 Alternative #1A – Single Cell 7’ x 4’ RCB Culvert Replacement



Figure 1 - 10-Year Rational (Existing vs. Proposed)

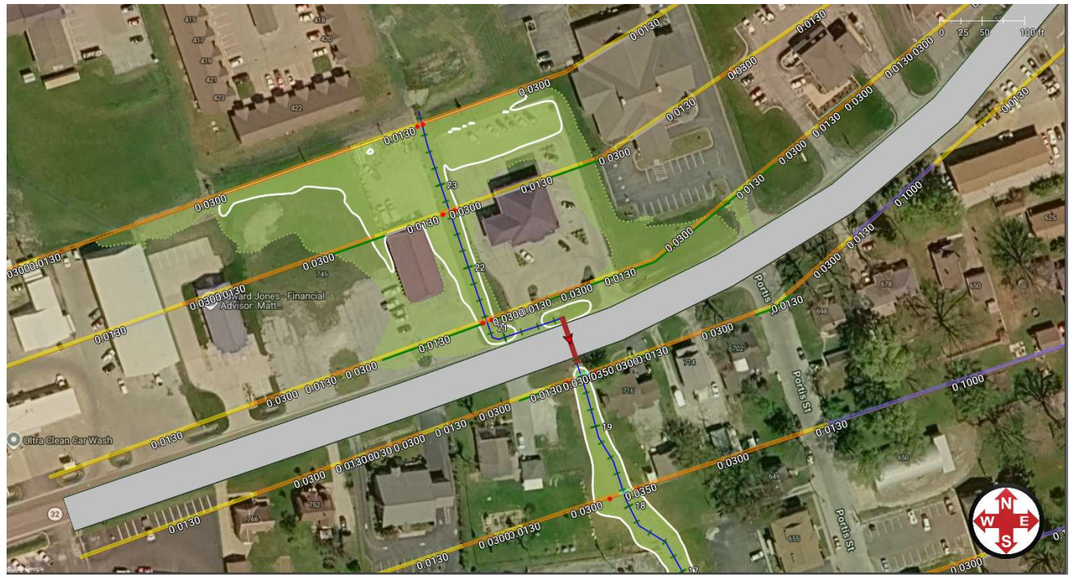


Figure 2 - 25-Year Rational (Existing vs. Proposed)



Figure 3 - 50-Year Rational (Existing vs. Proposed)

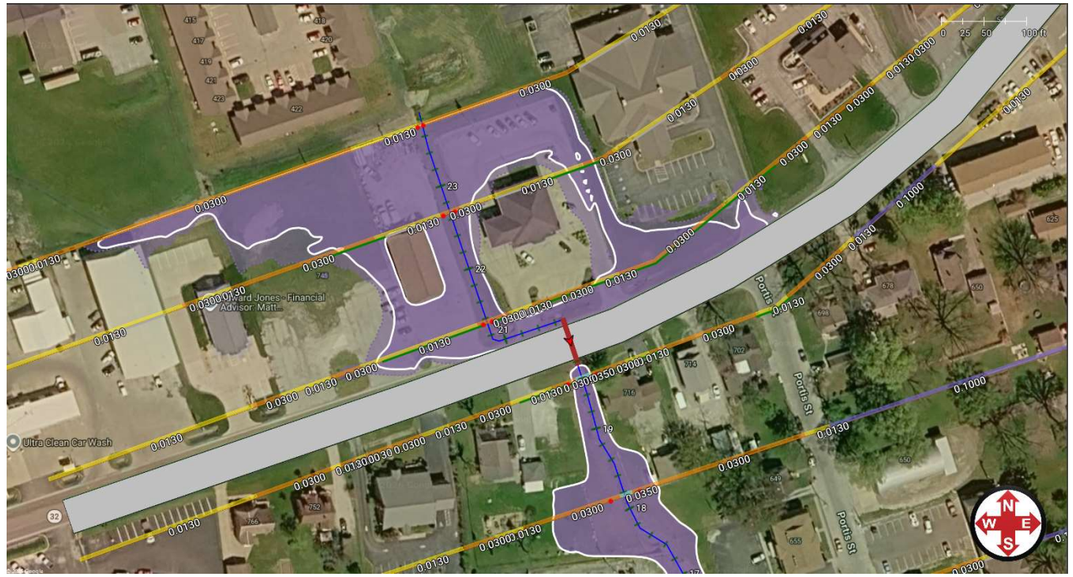


Figure 4 - 100-Year Rational (Existing vs. Proposed)

D.2 Alternative #1B – Double Cell 6’ x 3’ RCB Culvert Replacement



Figure 5 - 10-Year Rational (Existing vs. Proposed)

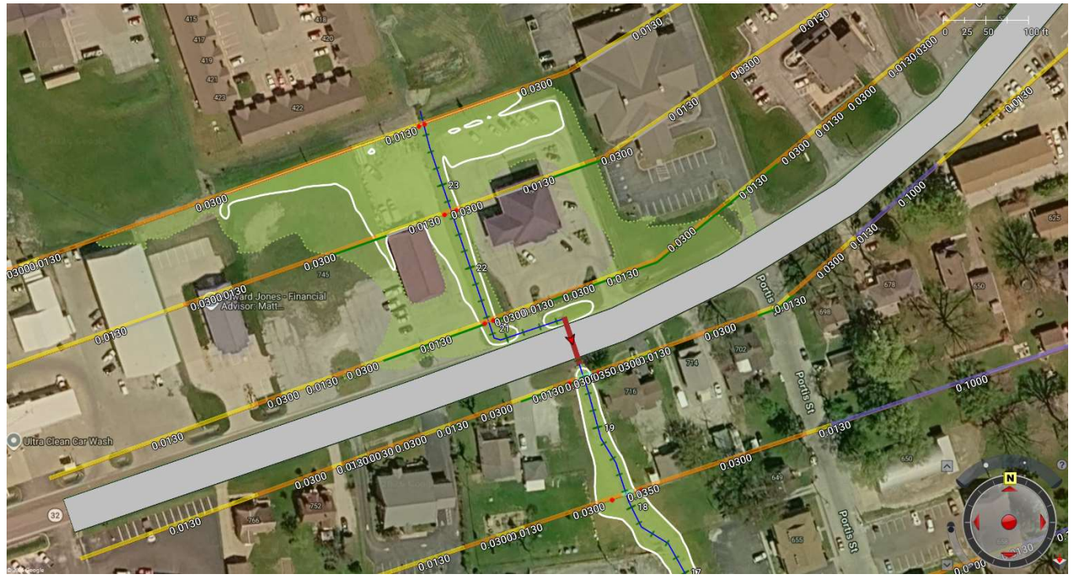


Figure 6 - 25-Year Rational (Existing vs. Proposed)



Figure 7 - 50-Year Rational (Existing vs. Proposed)



Figure 8 - 100-Year Rational (Existing vs. Proposed)

D.3 Alternative #2 – Upstream Detention Basins

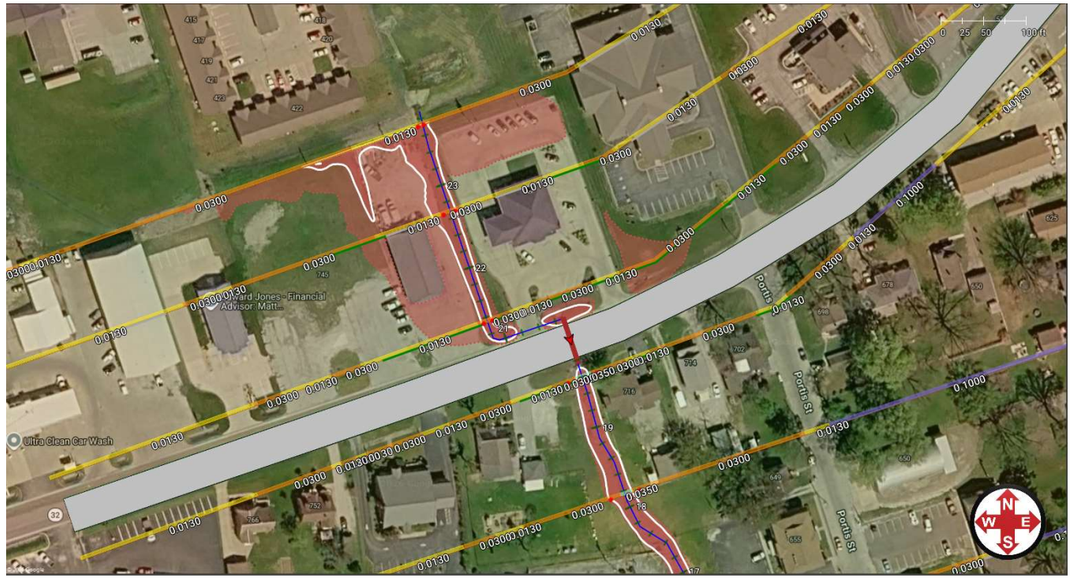


Figure 9 - 10-Year Rational (Existing vs. Proposed)

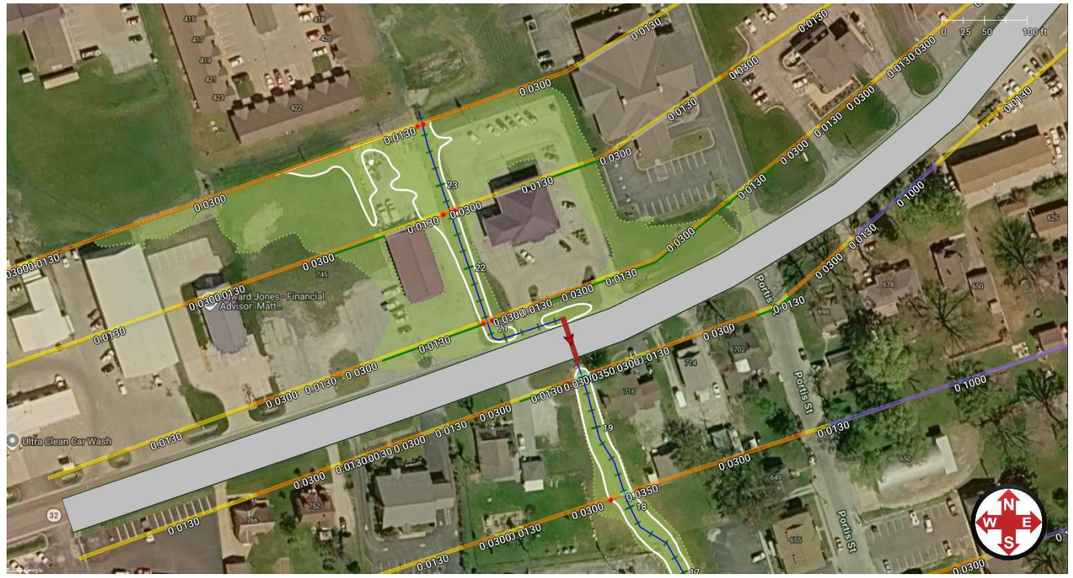


Figure 10 - 25-Year Rational (Existing vs. Proposed)

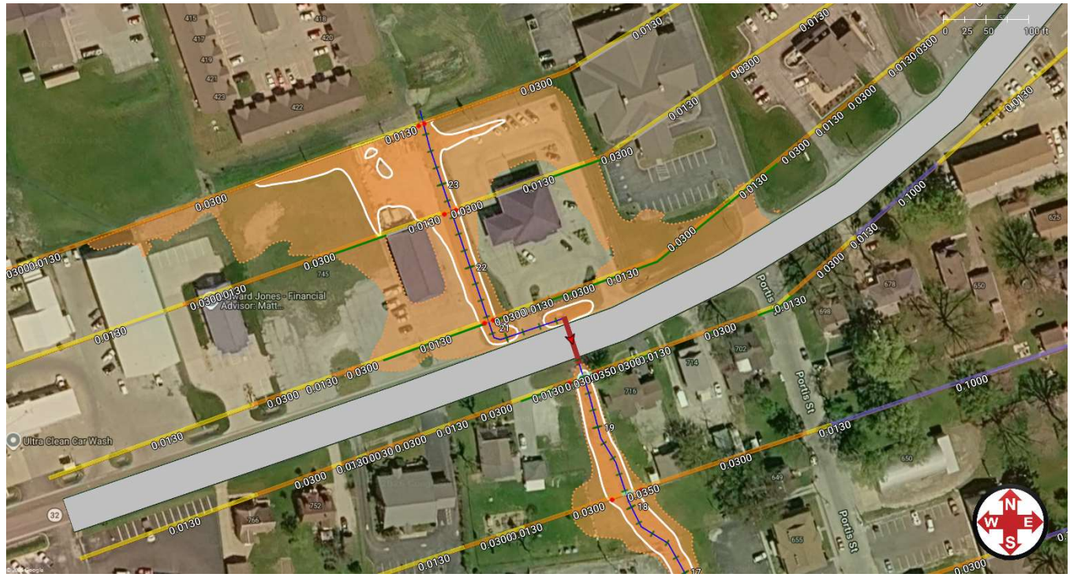


Figure 11 - 50-Year Rational (Existing vs. Proposed)

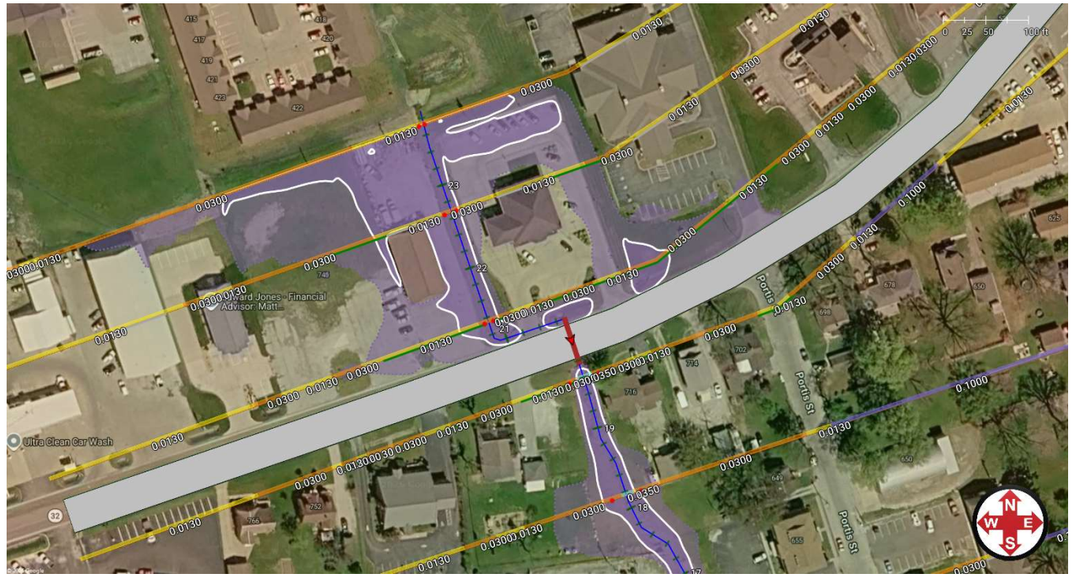


Figure 12 - 100-Year Rational (Existing vs. Proposed)

D.4 Alternative #3 – Combination Culvert Replacement with Upstream Detention Basins

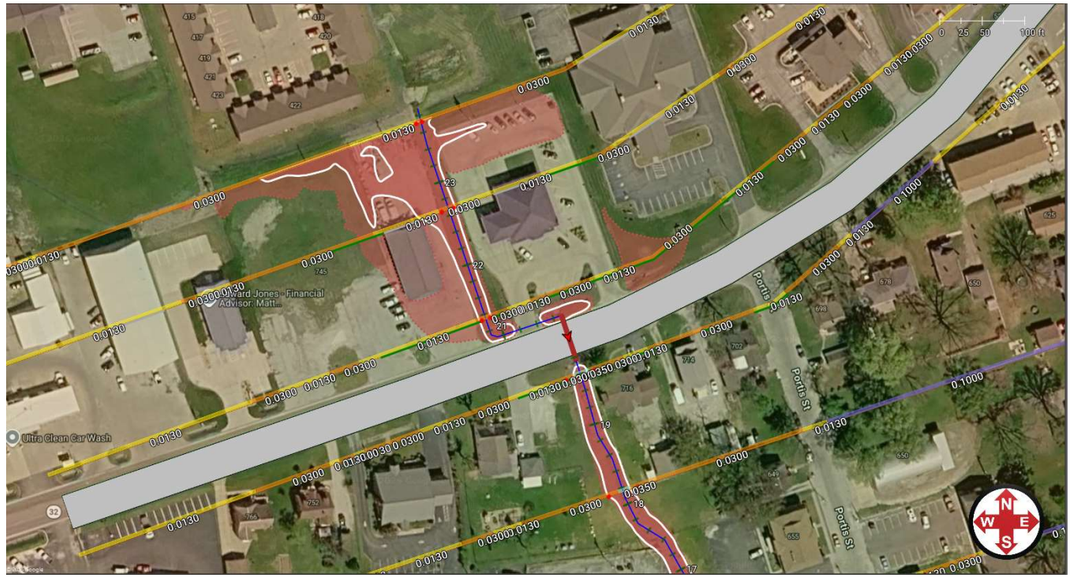


Figure 13 - 10-Year Rational (Existing vs. Proposed)

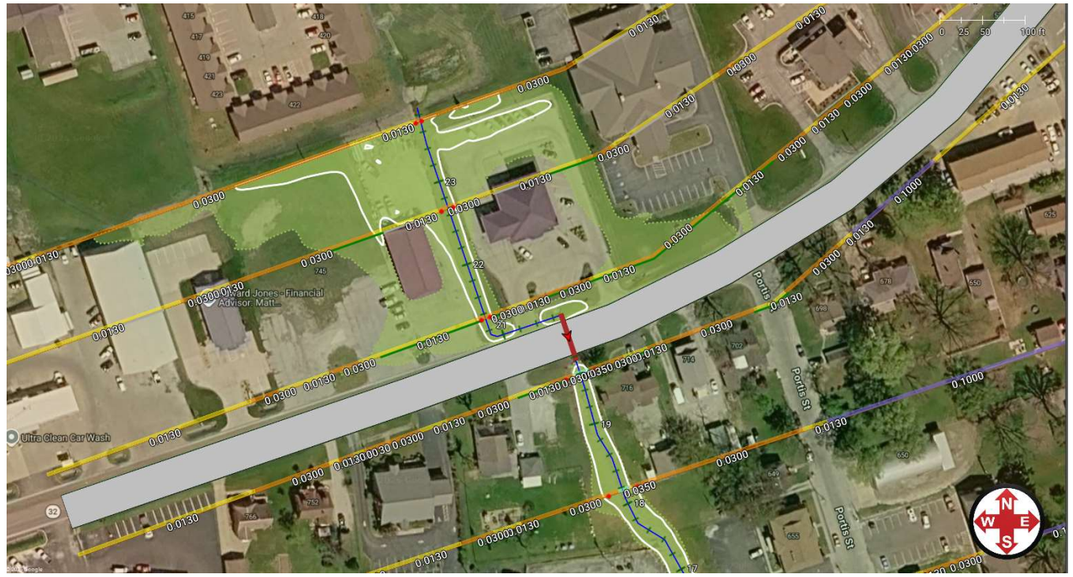


Figure 14 - 25-Year Rational (Existing vs. Proposed)

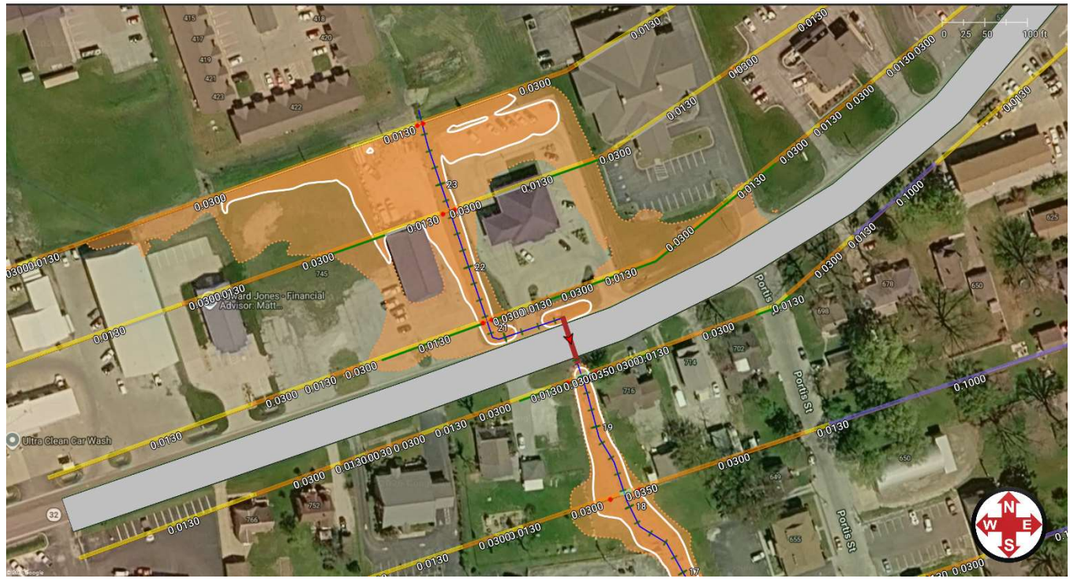
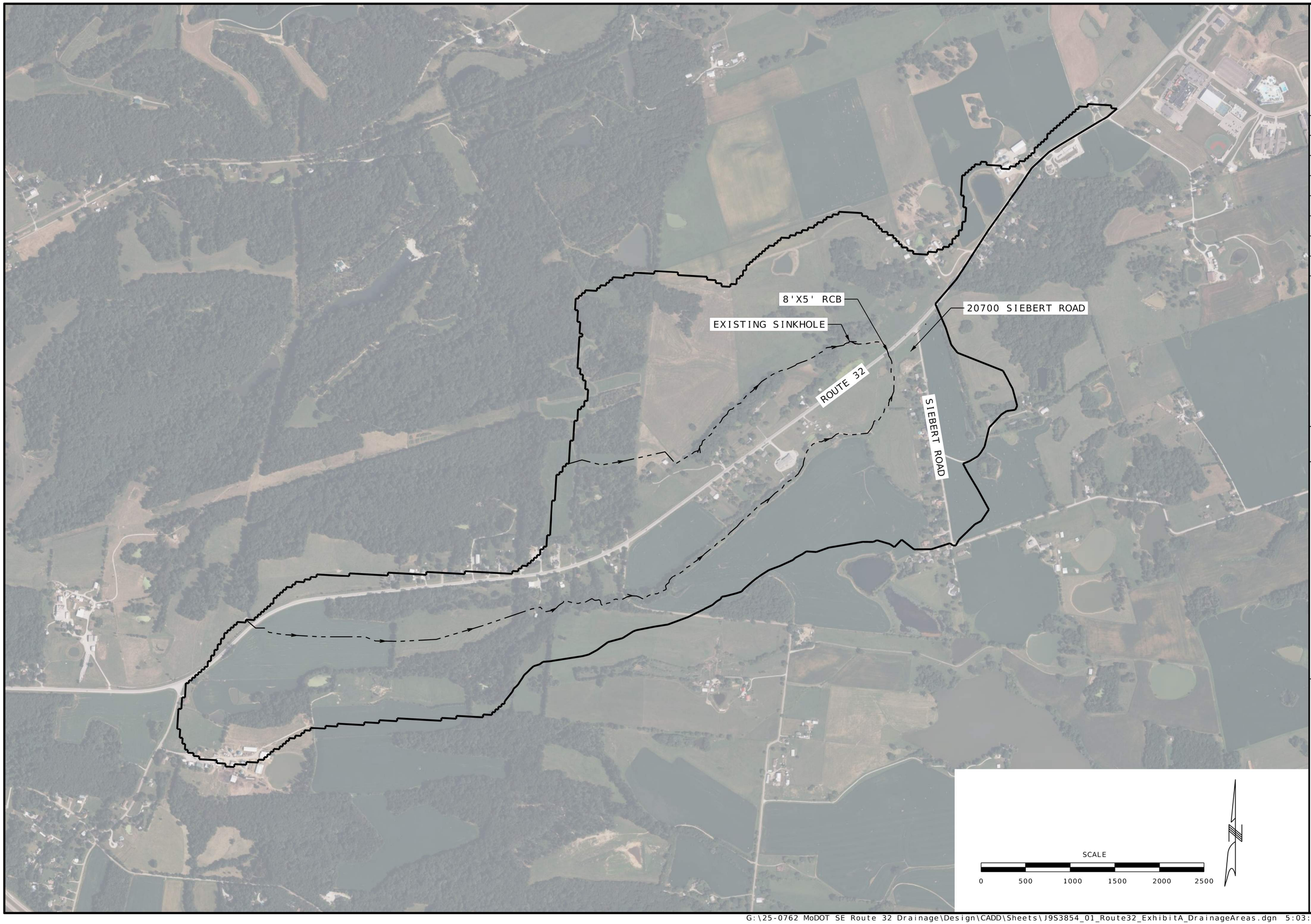


Figure 15 - 50-Year Rational (Existing vs. Proposed)



Figure 16 - 100-Year Rational (Existing vs. Proposed)



CONCEPTUAL
NOT FOR
CONSTRUCTION

DATE PREPARED
7/29/2026

ROUTE	STATE
	MO
DISTRICT	SHEET NO.
	1

COUNTY

JOB NO.

CONTRACT ID.

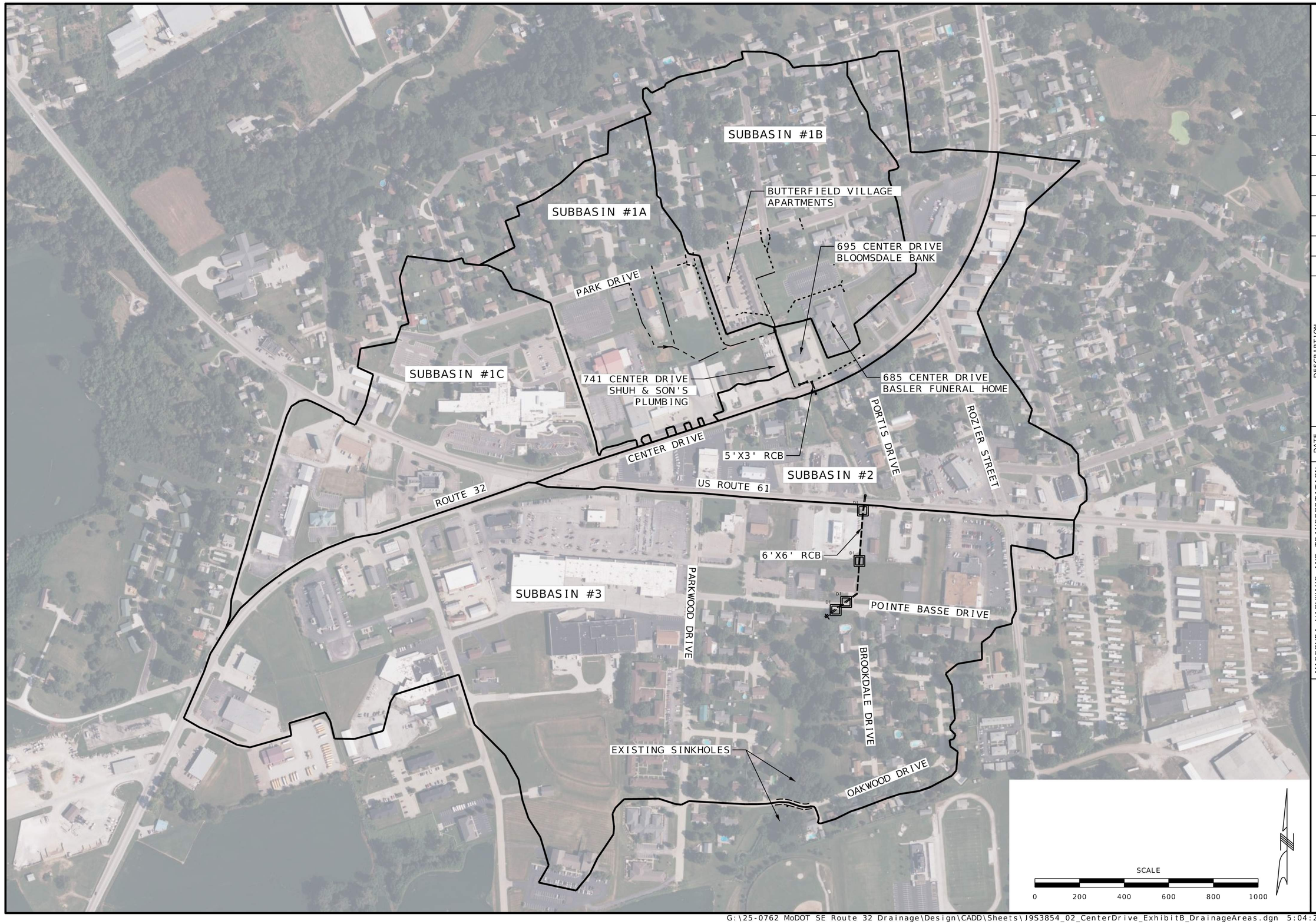
PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

EXHIBIT A
ROUTE 32
EXISTING
DRAINAGE AREAS



CONCEPTUAL
NOT FOR
CONSTRUCTION

DATE PREPARED
7/29/2026

ROUTE	STATE
	MO
DISTRICT	SHEET NO.
	2

COUNTY

JOB NO.

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

EXHIBIT B
CENTER DRIVE
EXISTING
DRAINAGE AREAS

G:\25-0762 MoDOT SE Route 32 Drainage\Design\CADD\Sheets\J9S3854_02_CenterDrive_ExhibitB_DrainageAreas.dgn 5:04:20 PM 7/29/2026

MISSOURI
STATE HIGHWAY COMMISSION
PLAN AND PROFILE
OF PROPOSED
STATE ROAD

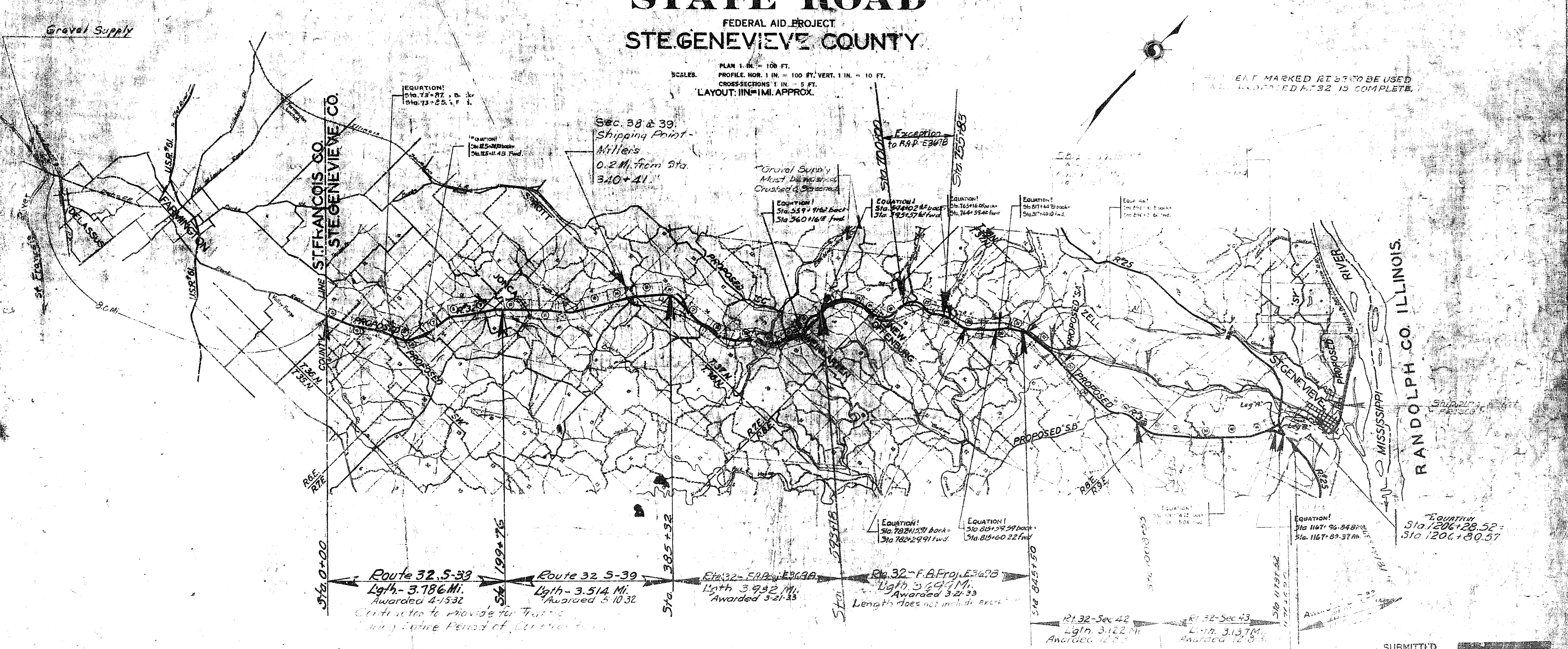
FEDERAL AID PROJECT

STE. GENEVIEVE COUNTY

SCALES. PLAN 1 IN. = 100 FT.
PROFILE. HOR. 1 IN. = 100 FT. VERT. 1 IN. = 10 FT.
CROSS-SECTIONS 1 IN. = 5 FT.
LAYOUT: 1 IN = 1 MI. APPROX.

G-13-3

1931
6 STE. GENEVIEVE
NRH 364C



CONVENTIONAL SIGNS

STATE AND NATIONAL LINE	LEVEE
COUNTY LINE	CULVERTS
CITY, VILLAGE OR BOROUGH	DROP INLET
TOWNSHIP LINE	TROLLEY POLE
SECTION LINE	POWER POLE
GRANT LINE	TELEPHONE OR TELEGRAPH POLE
FENCE LINE	MARSH
GUARD RAIL	BRIDGE
UNFENCED PROPERTY	
RIGHT OF WAY LINE	GROUND ELEVATION
TRAVELED WAY	
RAILROADS	GRADE ELEVATION

SUBMITTED

CHIEF ENGINEER MO. STATE HIGHWAY COMMISSION

RECOMMENDED FOR APPROVAL

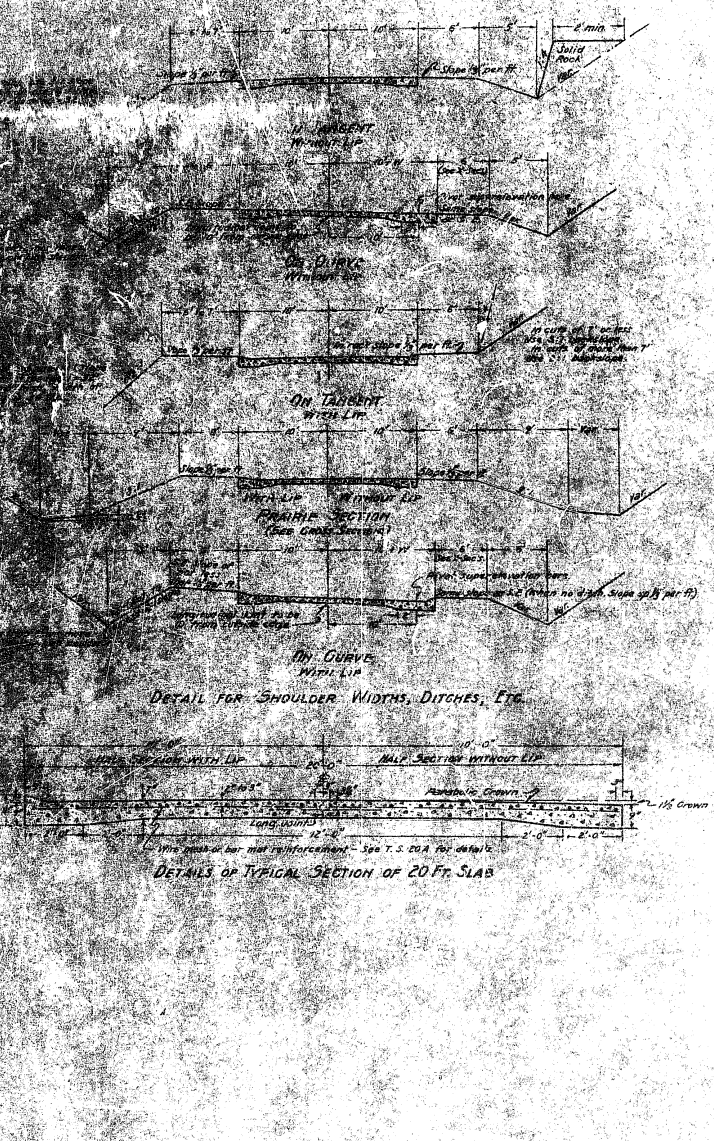
DISTRICT ENGINEER - DISTRICT NO. 6

RECOMMENDED FOR APPROVAL

CHIEF ENGINEER BUREAU PUBLIC ROADS

APPROVED

T.S. 20-30


2' min.
Solid Rock
Slope ¼" per ft.
Wire Mesh
Bar Mat
Prairie Section
(See Grade Sections)
Slope ½" per ft.
Slope ¼" per ft.
Slope ½" per ft.
Slope ¼" per ft.
Slope ½" per ft.
Slope ¼" per ft.

Name of Road STE. GENEVIEVE SP 192

Type of Improvement 20' PCC PAVEMENT (WITH LIP)

MISSOURI STATE HIGHWAY COMMISSION

ESTIMATE SHEET

County of STE GENEVIEVE

Length 0.704 Miles

FED. ROAD DIST. No.	STATE	FED. AID PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
5	MO.	(S) 192	1934	2A	
DIV. No.	COUNTY			SHT. No.	
6	STE GENEVIEVE			32	

EXCAVATION

STA	Exc.	Rock	O-H
1176+62			
1189+80	1002	4	
1194+10	338	6	
1212+33	1498	41	
1214+33	119	10	
Sub Total	2957	61	
F.Ent.	37		
Total	2994	61	

REINFORCED CONCRETE BOX CULVERTS

STATION	STANDARD	SIZE	LENGTH	CONCRETE	REINF.	EXCAV.	REMARKS

BARRICADE

STA	SIDE	NO.
	NONE	

RELOCATED BARRICADES

STA	SIDE	STA	SIDE	NO.
1171+55	(STAC) LT.	1214+33.72	℄	1
1183+70	(STAC) LT.	1196+80	RT	1
1214+33.72	℄	1199+00	℄	1
1199+00	℄	1178+00	℄	1
TOTAL				4

EXPANSION JOINT

SPACE 79'-4"

CHAINED LENGTH OF PAVEMENT 3693.6'

3693.6 ÷ 79.333 = 47 THEO. NO. JOINTS

ACTUAL NO. EXPANSION JOINTS = 47

7' SURFACE DRAIN BASIN & SURFACE DRAINS

STA	No	SIDE	LIN. FT.
1183+70	1	RT.	57'
1183+70	1	LT.	65'
1181+35	1	RT.	56'
1181+35	1	LT.	65'
1199+80	1	LT.	60'
1207+05	1	LT.	53'
1206+10	1	RT.	90'
1214+33	1	RT.	15'
1214+33	1	LT.	28'
Total	9		417'

LENGTH OF PROJECT

End of Project		Station	1214+33.72	
Beginning of Project		Station	1176+62.0	
Apparent Length			3771.72'	Feet
Equations and Exceptions:			- 56.65	
STA 1176+62 BK. = 1176+66 FWD.			- 4.0	
STA 1206+28.5 BK. = 1206+80.57 FWD.			- 52.05	
Total Corrections			56.65	Feet
Net Length of Project			3715.07	Feet
3715.07	For 1 Mile =	5280	0.704	Miles

LIP CURB

ORIGINAL PLANS

END STA	1214+33.72
BEGIN STA	1176+62.00
APPARENT	3771.72'
CORRECTION	- 74.52'
NET LENGTH	3697.20

NET LENGTH x 2 = 3697.20 x 2 = 7394.40

LIP OMISSION 2250.0'

NO DRAIN BASIN x 7 = 9 x 20' = 1800 FT.

TOTAL OMISSION 2430.0

NET LIP PER PLAN 4964.40 FT.

OMISSION

STA	STA	SIDE	LIN FT
1176+66.67	1177+91.7	LT	1025'
1176+91.7	1178+80	RT	1356'
1178+80	1199+34	RT	916.0'
1178+80	1199+34	LT	916.0'
TOTAL			22506

EQUATION & CORRECTIONS

1206+28.5	BK.	1206+00.57	FWD.	- 52.05
1176+62.0	BK.	1176+66.67	FWD.	- 4.67
PAVING EXCEPTION				
TOTAL				- 74.52

NET LIP PER ORIGINAL PLAN - NET LIP BUILT: 4964.4 - 4612.7 = 351.7 LIN FT. DEDUCTION

FINAL PLANS

END STA	1214+33.72
BEGINNING STA	1176+62.0
APPARENT LENGTH	3771.72
CORRECTIONS	- 81.12
NET LENGTH	3690.6'
CHAINED LENG	3698.6'

CHAINED LENGTH x 2 = 3698.6 x 2 = 7397.2

LIP OMITTED BOTH SIDES 2594.5

NO DRAIN BASINS 9 x 20' 180.0

TOTAL OMISSIONS 2774.5

NET LIP BUILT 4612.7

OMISSION

STA	STA	SIDE	LIN FT
1176+66.67	1177+96.6	LT.	103.5'
1176+91.7	1177+001	RT	90'
1178+34	1178+80	RT	46.0'
1197+46	1199+64	LT	121.80
1197+46	1199+64	RT	121.80
TOTAL			2594.5

EQUATIONS & CORRECTIONS

1176+62	BK.	1176+66.5	FWD.	- 4.0
1206+28.5		1206+80.57		- 52.05
TOTAL CORRECTION				- 56.65
1176+66.6		1196+91.7		- 24.47
PAVING EXCEPTION				
TOTAL CORRECTION				- 81.12

20' PCC PAVEMENT

CHAINED LENGTH OF PAVEMENT = 3693.6

PAVEMENT: 3693.6 x 20 ÷ 9 = 8208.0 SQ YDS.

SIDE RD & F.ENT. APPRS.

STA	SIDE	EXCV.
1196+33	LT.	35
1214+33	℄	2
Total		37

NOTE: FORCE ACCOUNT ITEM INCLUDED COST OF GRAVEL SURFACING F.ENTS. & SIDE ROAD APPROACHES AS SHOWN ON PLAN SHEETS & FORCE ACCOUNT FORM. IT ALSO INCLUDED COST OF REMOVING & RELAYING F.ENT PIPE ON RT STA 1196+50, EXTENDING F.ENT PIPE 1 STA 1196+33 AND CONSTRUCTING (2) TREE WELLS RT STA 1208+00

SUMMARY

ITEM NO.	DESCRIPTION	UNIT	TOTAL UNITS	NO. UNITS FED. AID-CO.
1	EXCAVATION	CU YD	3014	
15-A	P.C.C. PAVEMENT	SQ YD	8208	
15	EXPANSION JOINTS (20')	Each	47	
30-F	7FT SURFACE DRAIN BASINS	Each	9	
30 G	SURFACE DRAINS	Lin Ft	417	
32-A	BARRICADES, INTRD CL SIGN BDS	Each	0	
32 B	RELOCATING BARRICADES (ETC)	Each	4	
	CONTINGENT ITEMS			
	O-Haul	Sta Yd		359
	Pick up Rock	Cu Yd	61	
	FORCE ACCOUNT (See Note)	$	1200.00	
	LIP CURB UNDERRUN	Lin Ft	351.7	

Printed A. S. Aloe Co. 201 3-32

Prepared By W. L. Sanders Date ..... 193 Checked in Div. Office By R. F. Ferguson Date Sept. 9 193-4 Checked in Central Office By Date

3696

FINAL PLANS

BEGIN PROJECT
STA. 1173+00
RT. 32 SEC. 44

HENRY ROZIER.

N. 71° 27' E.

1180 1185 1175

P.C. 1189+17.87

PAVING PROJECT

SURFACE DRAIN
STATION NO. RT.

PAVING PROJECT

Beg. with 3696

EXCEPTION
1173+50 to 1179+00

PAVING PROJECT

R. R. R. 25

DRAINAGE STRUCTURES

Station	Stand. Size	Skew	Length	D.A.	Elev.	Remarks
1175+26	2.2'x5.0'	—				

FARM ENT'S & SIDE ROADS

Station	Side	Pipe	Loc. in	Cut	Fill
				2	1
		12		—	6

CLEARING & GUBBING

Station	Station	Clear	Grub
1177+93	1192+10	7	1

PAVING PROJECT

6.47%
Conc. Sec 48"
1192+28
Ditch open at ends
Sta. 11+30 Lt. Sta. 11+57 Rt.

LEGEND
Theoretical Grade
Constructed Grade
Ground Elevations

B.T. C. Cor. N. Hwd. 18" Rt. Sta. 1035:39 Ft. Rt.
Elev. 563.63

1178 1180 1190

FINAL PLANS

PAVING PROJECT

SUPERELEVATION & CURVE DATA

P.I. 1199+45.31
Δ 79°-53'
D 45°-40'
T 1027.49
L 1770.70
S.E. 0.0662' PER FT.
L. OF TRANS 130'
P.O.T. 10' LT. C.

BALL PARK

HENRY ROSIER

OLD ROAD

U.S. SURVEY #3253

U.S. SURVEY #444

EQUATION Back 1206+88.52
Ahd 1206+80.52

Rozier

Gerard Estate

Alfred Musior

CITY OF STE. GENEVIEVE

CITY LIMITS

POT 1214+33.72
City Limits

99°37'

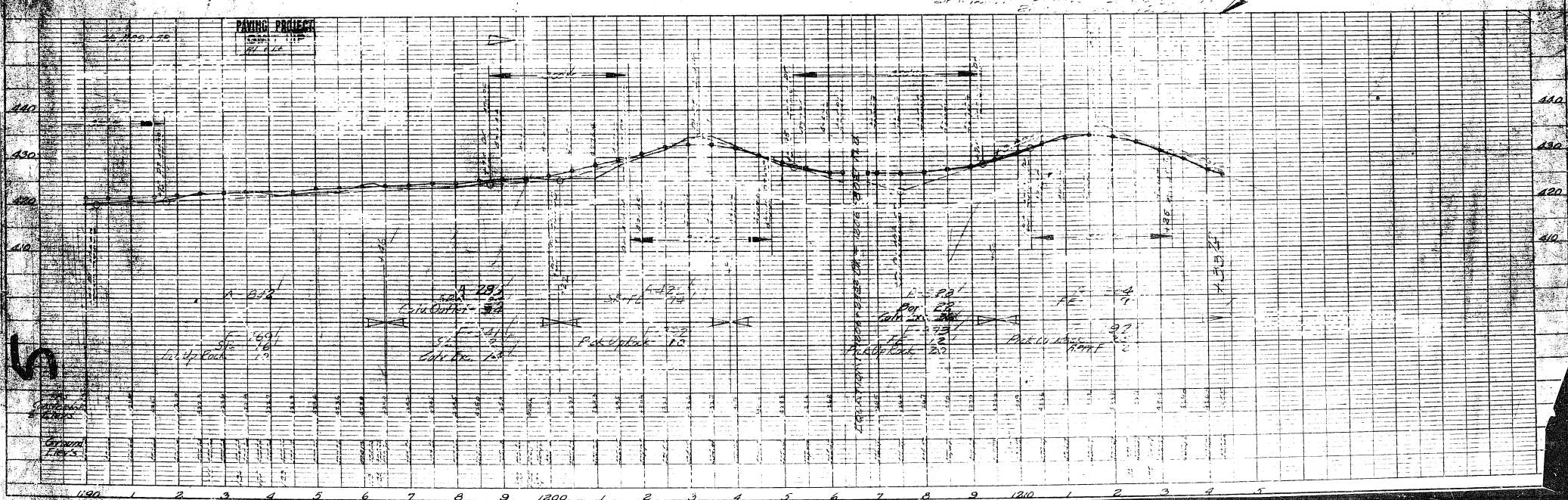
END OF PROJECT
STA. 1214+33.72
RT. 32 SEC. 44

PAVING PROJECT
Sta 1211+75.72
End FAP Rte 369C

CLEARING & GRUBBING			
Station	Station	Clear	Grub
1192+50	1203+33	46	24

DRAINAGE STRUCTURES							
Station	Skew	Size	Skew	Length	D.A.	Curb Inl.	Remarks
1192+46	Pipe	5	-	23	-	-	5:1 Slope
1208+90	Pipe	18	-	28	-	-	3:1 Slope

FARM ENTS & SIDE ROADS						
Station	Side	Pipe	Type	Length	Cut	Fill
1192+20	Rt.	15	2-220	36	-	16
1202+60	Lt.	-	-	20	24	2
1203+80	Lt.	-	-	-	43	-
1205+12	Field	-	-	-	16	-
1205+64	Field	-	-	-	-	17
1210+99	Field	-	-	-	7	-
1211+40	Field	-	-	-	No Usable	
1211+60	Field	-	-	-	-	-
1212+50	Field	-	-	-	-	-
1212+70	Field	-	-	-	-	-
1213+65	Field	-	-	-	-	-
1213+65	Field	-	-	-	-	-
1214+33.72	END				2	2



	STATE	FED. AID PROJECT NO.	
	COUNTY		22
6	Ste Genevieve		32

SP 5

GENERAL NOTES

PAVING PROJECTS

ALL NOTATIONS REFERRING TO PAVING CONTRACTS ARE SHOWN BOXED AND HEADED "PAVING PROJECT," EXCEPT, WHERE RELOCATIONS OF ALIGNMENT OCCUR, AND NEW PLANS HAVE BEEN PREPARED.

DRAINAGE STRUCTURES

ALL DRAINAGE STRUCTURES PREVIOUSLY CONSTRUCTED ARE TO BE USED IN PLACE UNLESS OTHERWISE NOTED ON THE PLANS.

GRADING QUANTITIES

GRADING QUANTITIES REQUIRED TO CHANGE OLD STANDARD SUPER-ELEVATION TO THE REVISED STANDARD AND QUANTITIES FOR SUBGRADE EXCAVATION HAVE BEEN INCLUDED IN THE ESTIMATES FOR EXCAVATION.

SPECIAL SHEET for CHANGE ORDER Nº 1
ROUTE 32 PROJECT NRH 369C
STE GENEVIEVE COUNTY

1

6 Ste Genevieve 32
FINAL PLANS

6

BARRICADES

Station	Side	No.
None		

RELOCATING BARRICADES

Station	Side	To Station	Side	No.
1174+55(980') Lt		1214+33.72	℄	1
1183+80(980') Lt		1196+40	Lt	1
1214+33.72 ℄		1195+00	℄	1
TOTAL				3

EXPANSION JOINTS

Spaced 79'-4"
Chained Length of Pavement x 3693.6 Ft
3693.6 ÷ 79.3333 = 47 ✓ Theor. No. of Joints
ACTUAL No of EXPANSION JOINTS - 47 ✓

T SURFACE DRAIN BASINS and SURFACE DRAINS

Station	No. Basins	Side	Lin. Ft.
1183+70	1	Rt	5.7
1183+70	1	Lt	6.3
1187+35	1	Rt	5.6
1187+35	1	Lt	6.5
1199+80	1	Rt	6.0
1207+05	1	Lt	5.3
1208+10	1	Rt	9.0
*1214+33	1	Rt	1.5
*1214+33	1	Lt	2.8
TOTAL	9		48.7 ✓

* SURFACE DRAIN BASINS VARIED LENGTH SHOWN ARE) FROM STANDARD 7' DRAIN BASIN TO FIT ACTUAL FIELD CONDITION. PAYMENT ALLOWED FOR STANDARD 7' DRAIN BASIN

LIP CURB

ORIGINAL PLANS

End Sta 1214+33.72
Beg Sta 1176+62.8
Adj Length 3770.72 Ft
Corrections -74.52 Ft
Net Length 3697.20 Ft

Net Length x 2 = 3697.20 x 2 = 7394.40 Ft
Lip Omitted (both Sides) 2250.00 Ft
No. Drain Basins x 20 = 9 x 20 = 180.00 Ft
TOTAL OMISSIONS 2430.00 Ft
NET LIP PER PLANS 4964.40 Ft

OMISSIONS

Sta. to Sta.	Side	Lin Ft.
1176+84.8 - 1178+07	Lt	122.2
1176+84.8 - 1178+80	Rt	195.5
1189+53.8 - 1199+34	Rt	976.0
1189+53.8 - 1199+34	Lt	976.0
TOTAL		2250.0

EQUATIONS & CORRECTIONS

Sta 1206+28.92 BK - 1206+80 67 Fwd = -52.05 Ft.
Sta 1176+66.20 to 1176+34 47 = -22.47 Ft.
(Paving Exception)
TOTAL CORRECTION = -74.52 Ft.

FINAL PLANS

End Sta 1214+33.72
Beg Sta 1176+62.8
Adj Length 3770.72 Ft
Corrections -74.12 Ft
Net Length 3696.6 Ft
Chained Length 3693.6 Ft

Chained Length x 2 = 3693.6 x 2 = 7387.2
Lip Omitted (both Sides) 2594.5
No. Drain Basins x 20 = 9 x 20 = 180.0
TOTAL OMISSIONS 2774.5
NET LIP BUILT 4612.7 ✓

OMISSIONS

Sta. to Sta.	Side	Lin Ft.
1176+91.4 - 1177+94.6	Lt	103.5 ✓
1176+91.4 - 1177+00.1	Rt	9 ✓
1178+34 - 1178+80	Rt	46 ✓
1185+46 - 1199+64	Lt	1218 ✓
1185+46 - 1199+64	Rt	1218
TOTAL		2594.5

EQUATIONS & CORRECTIONS

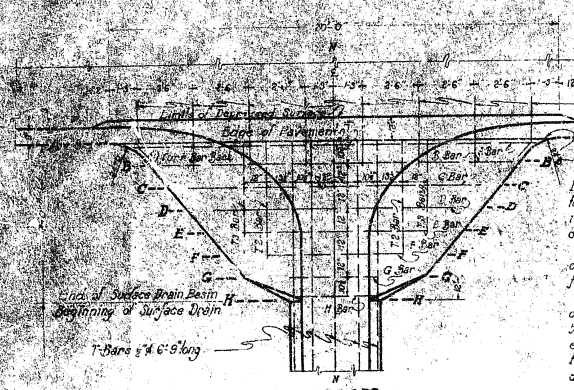
Sta 1176+62.8 BK = 1176+66.8 Fwd = -4.60 Ft. ✓
Sta 1206+28.92 BK = 1206+80 67 Fwd = -52.05 Ft. ✓
TOTAL CORRECTIONS = -56.65 Ft. ✓
Sta 1176+66.8 to 1176+91.87 = -22.47 Ft. ✓
(Paving Exception)
TOTAL CORRECTIONS -79.12 Ft. ✓

NET LIP PER ORIGINAL PLANS - NET LIP BUILT = 4964.4 - 4612.7 = 351.7 Lin Ft DEDUCTION

20' P.C.C. PAVEMENT ✓
CHAINED LENGTH OF PAVEMENT = 3693.6 Ft.
PAVEMENT = 3693.6 x 20 ÷ 9 = 8208 Sq Yds ✓

PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

DRAIN BASIN AT BOTTOM OF GRADES

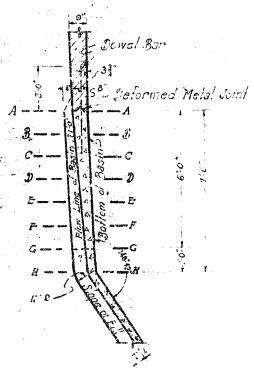


PLAN

NOTE:- Edge of pavement to be depressed 1" below normal throughout length of basin.

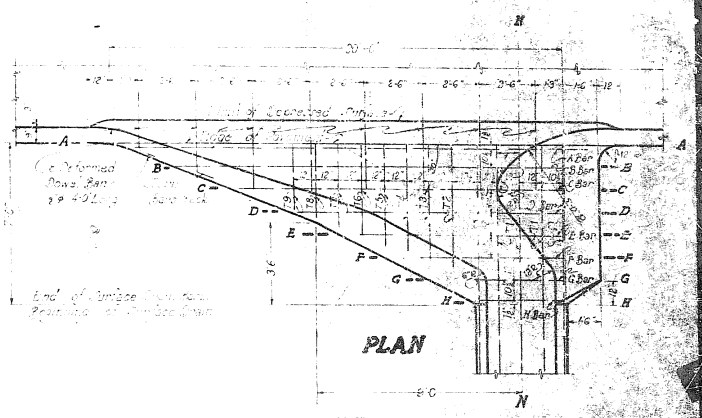
Slope of surface of the pavement for outside foot to be 1" in 12".

Slope of 3/8" to 1'-0 on shoulder to pavement to be modified by beginning 10'-0" either side of basin and tapering uniformly to top of drain basin.



SECTION N-N

DRAIN BASIN ON GRADES



PLAN

SEC. A-A

SEC. B-B

SEC. C-C

SEC. D-D

SEC. E-E

SEC. F-F

SEC. G-G

SEC. H-H

BASIN AT BOTTOM OF GRADES

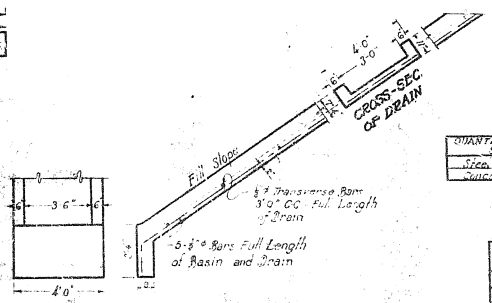
SCHEDULE OF REINFORCING STEEL			
MARK	NO	SIZE	LENGTH
Dowels	8	#	4'-0"
A			18'-10"
B			15'-9"
C			11'-9"
D			9'-0"
E			6'-3"
F			3'-9"
G			3'-9"
H			3'-9"
T1			3'-7"
T2			3'-2"
T3			3'-0"
T4			4'-2"
T5			3'-3"
T6			3'-6"
T7			3'-0"
T8			3'-0"
T9			2'-9"
Total Steel			Lbs.
Total Conc.			Cu. Yds.
Lin. Ft. of Metal Strip			Long.

CENTRAL NOTE

All top surface except of the basin and drain shall be finished of a float finish. The concrete takes its initial set with an edger having a radius of three eighths (3/8) of an inch.

All reinforcing and dowel bars shall be deformed and shall meet the requirements of section 41-05 of specifications.

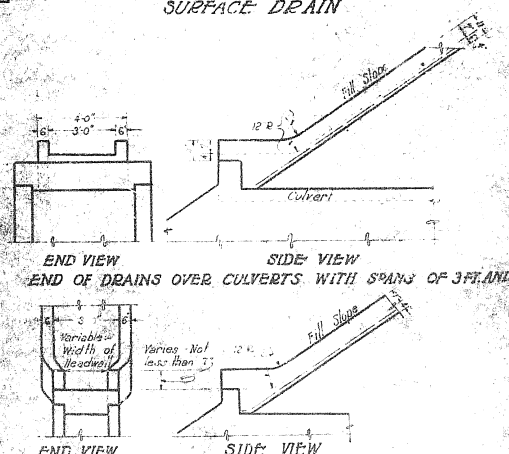
All concrete in basins and drains shall be class X (1:2:3½)

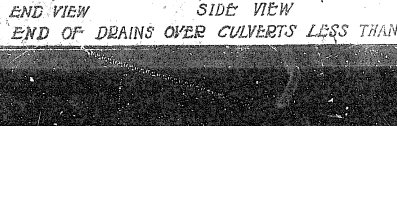


QUANTITIES PER LIN. FT. OF SURFACE DRAIN	
Steel	5.845 Lbs.
Concrete	.2071 Cu. Yds.

BASIN ON GRADE

SCHEDULE OF REINF. STEEL IN BASIN			
MARK	NO	SIZE	LENGTH
Dowels	8	#	4'-0"
A			20'-0"
B			17'-0"
C			14'-3"
D			11'-9"
E			9'-0"
F			6'-3"
G			3'-9"
H			3'-9"
T1			3'-7"
T2			3'-2"
T3			3'-0"
T4			4'-2"
T5			3'-3"
T6			3'-6"
T7			3'-0"
T8			3'-0"
T9			2'-9"
Total Steel			123 Lbs.
Total Conc.			2.72 Cu. Yds.
28 Lin. Ft. of Metal Strip			Long.





SEVEN FOOT SURFACE DRAIN BASINS AND SURFACE DRAINS ON GRADES AND AT THE LOW POINT OF GRADES

APPROVED

Scale: 3/4" = 1'-0"

CHIEF ENGINEER

Standards

TYP SEC & Earthwork

RTE
Sec or proj NR H
County
Sheet #

ST Genevieve

Surface - Curb & Gutter
Approaches

DRAINAGE

Bridges

CON-REINF APPURTS, MISC
FINISH ETC

TS 30A
TS 30B

DESIGN DESIGNATION

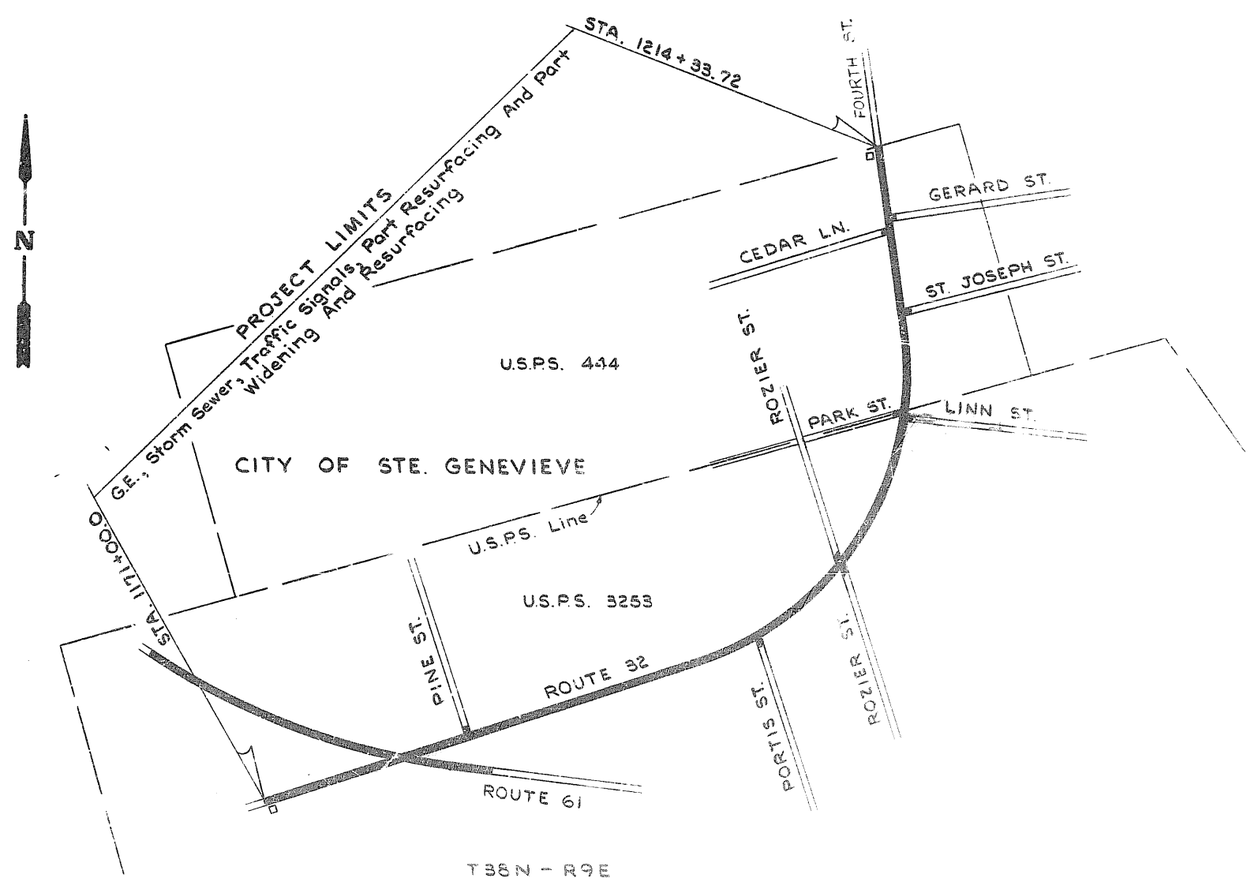
A.D.T. - 1990 = 11,500
A.D.T. - 2010 = 15,600

D.H.V. = 9 %
T = 5 %
V = 40 M.P.H.

NO RIGHT OF WAY ACQUIRED

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION
PLANS FOR PROPOSED
STATE HIGHWAY

FEDERAL AID PROJECT



T38N - R9E

Scale In Feet
0 250 500 1000

PROJECT TIES
STA 1171+00 RTE 32 SW
STA 1171+00 RTE 32 SE
STA 1214+33.72 RTE 32
STA 1214+33.72 FOURTH ST

CONVENTIONAL SIGNS
(USED IN PLANS)

- BUILDINGS AND STRUCTURES
- GUARD RAIL
- CONCRETE RIGHT-OF-WAY MARKER
- STEEL RIGHT-OF-WAY MARKER
- FENCE
  - CHAIN LINK
  - WOVEN WIRE
  - GATE
- UTILITIES
  - TELEPHONE
  - POWER
  - GAS
  - WATER

☐ Progress As Promised Identification Signs (2 Required)

NOTE: DASHED OR OPEN SYMBOL INDICATES EXISTING FEATURE

REV. SEP 87

COUNTY STE GENEVIEVE
ROUTE 32
PROJECT RS-RSG-1(8)76
JOB NO. 6-S-32-881

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (6 SHEETS)	2
SUMMARY (1 SHEET)	2-A
SUMMARY (6 SHEETS)	2-B
PLAN-PROFILE	3-8
REFERENCE POINTS	9
SPECIAL SHEETS	10-19*
LIGHTING	
SIGNALS	20-24
SIGNING	
CULVERT SECTIONS	25-29
BRIDGE DRAWINGS	
STANDARD PLANS INDEX	30
CROSS SECTIONS	1-42
COMPUTER DATA	
*TRAFFIC CONTROL	17-19

LENGTH OF PROJECT

END OF PROJECT	STA.	1214 + 33.72
BEGINNING OF PROJECT	STA.	1171 + 00.0
APPARENT LENGTH		4333.72 FEET

EQUATIONS AND EXCEPTIONS

1176+62.0 Bk. = 1176+66.6 Ah. -4.60'
1206+28.27 Bk. = 1206+78.88 Ah. -50.61'

TOTAL CORRECTIONS	-55.21 FEET
NET LENGTH OF PROJECT	4278.51 FEET
STATE LENGTH	0.810 MILES
FEDERAL LENGTH	0.810 MILES

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUBMITTED

CHIEF ENGINEER DATE

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

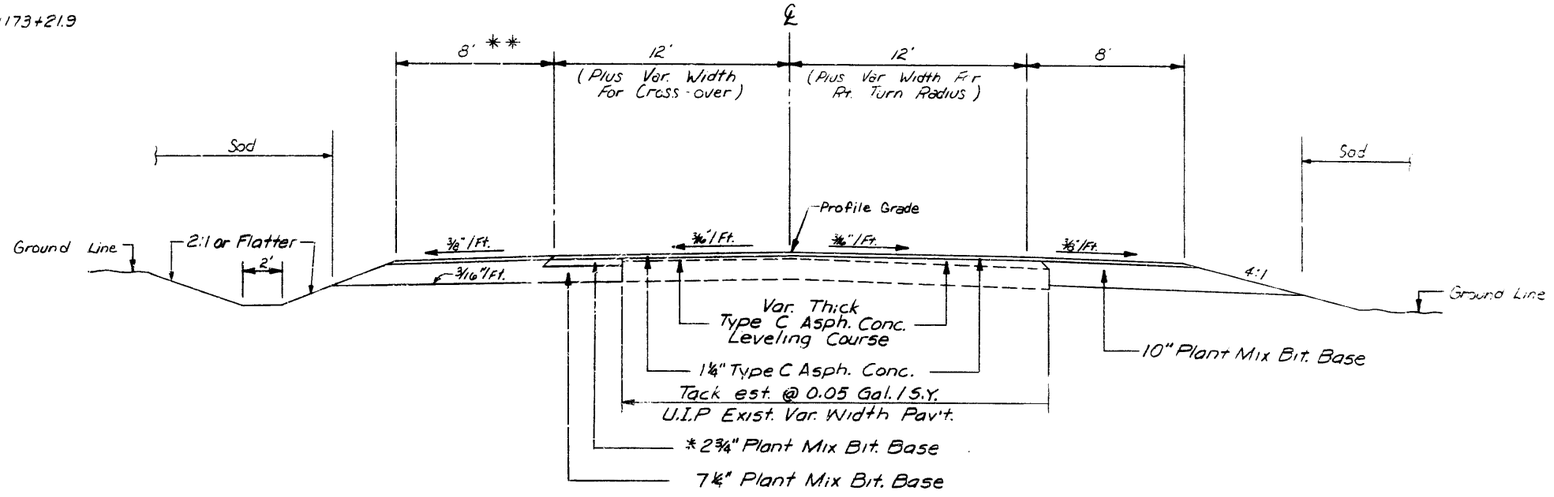
APPROVED

FOR ADMINISTRATOR DATE

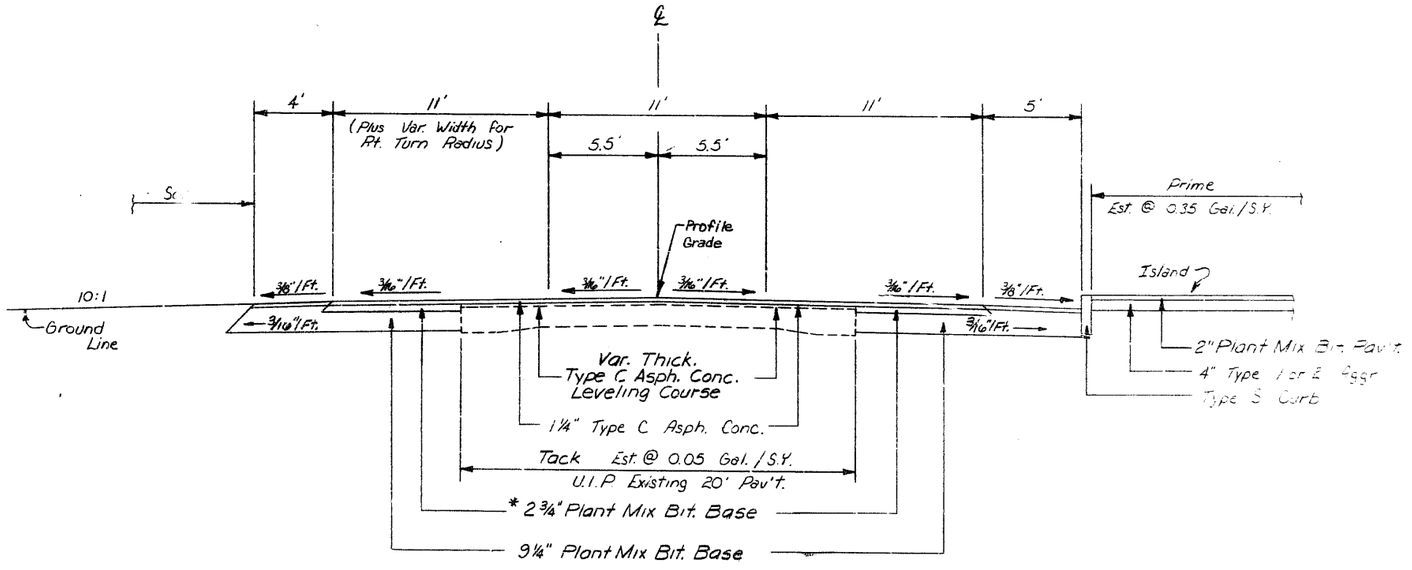
STATE	JOB NO	SHEET NO
MO	6-S-32-881	2
DIST NO	PROJECT NO RS-RSG-133(C)	ROUTE
10	COUNTY STE GENEVIEVE	32

** Trans. 6' to 8' Sta. 1171+00 to Sta. 1171+50
8' Sta. 1171+50 to Sta. 1172+61.9
Trans. 8' to 4' Sta. 1172+61.9 to Sta. 1173+21.9
4' Ahead Sta. 1173+21.9

* To be placed as a separate lift.



TYPICAL SECTION
Sta. 1171+00 to Center Line Rte. 61



TYPICAL SECTION
Center Line Rte. 61 to Approx. Sta 1178+75

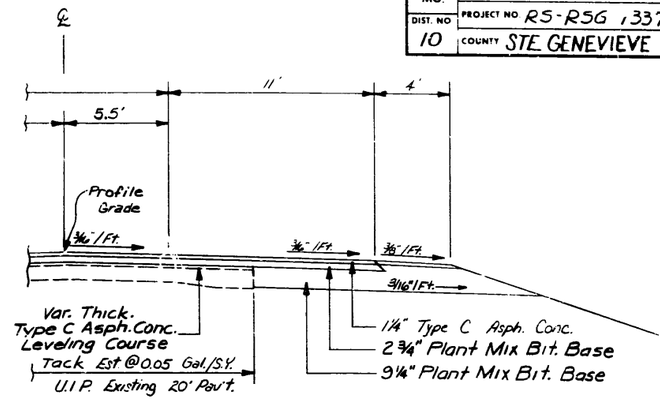
TYPICAL SECTION
AS TO BE

Drawing not to Scale Follow dimensions.

FINAL PLANS

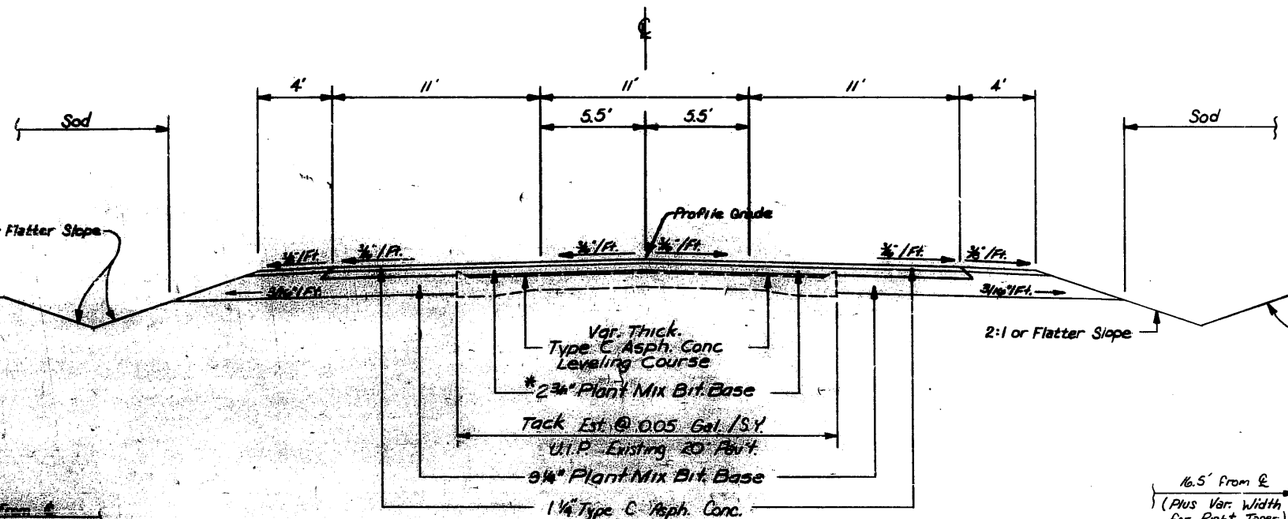
STATE MO.	JOB NO. 6-S-32-881	SHEET NO 2
DIST. NO 10	PROJECT NO RS-R5G ,337(6)	ROUTE 32
	COUNTY STE. GENEVIEVE	

FINAL SURVEY — NOTE BOOK NO. — SURVEYED — PLOTTED — TRIMPLATE — AREAS — AREAS CHECKED — BY — DATE



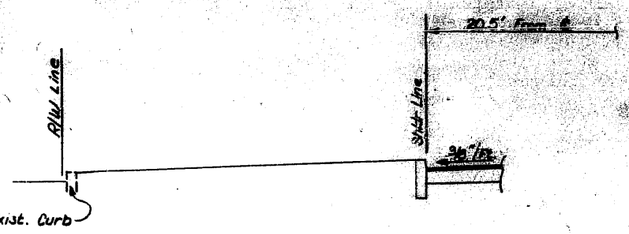
TYPICAL SECTION
Without Lip Curb (Lt. & Rt.)

Sta. 1185+88.88 Lt. to Sta. 1187+33.88 Lt.
Sta. 1187+15.13 Rt. to Sta. 1187+33.88 Rt.

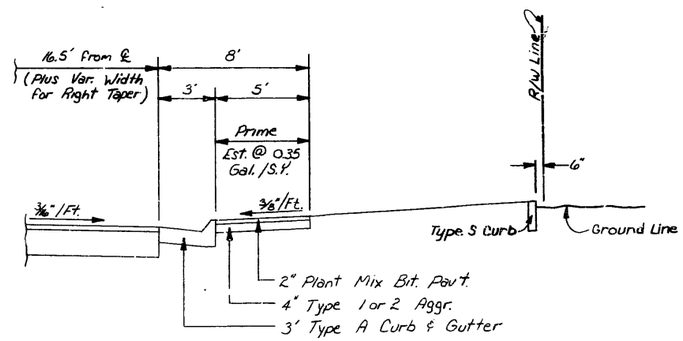


TYPICAL SECTION
Sta. 1178+75 to Sta. 1187+33.88

* To be placed as a separate lift.



TYPICAL SECTION "S" CURB AT SHOULDER



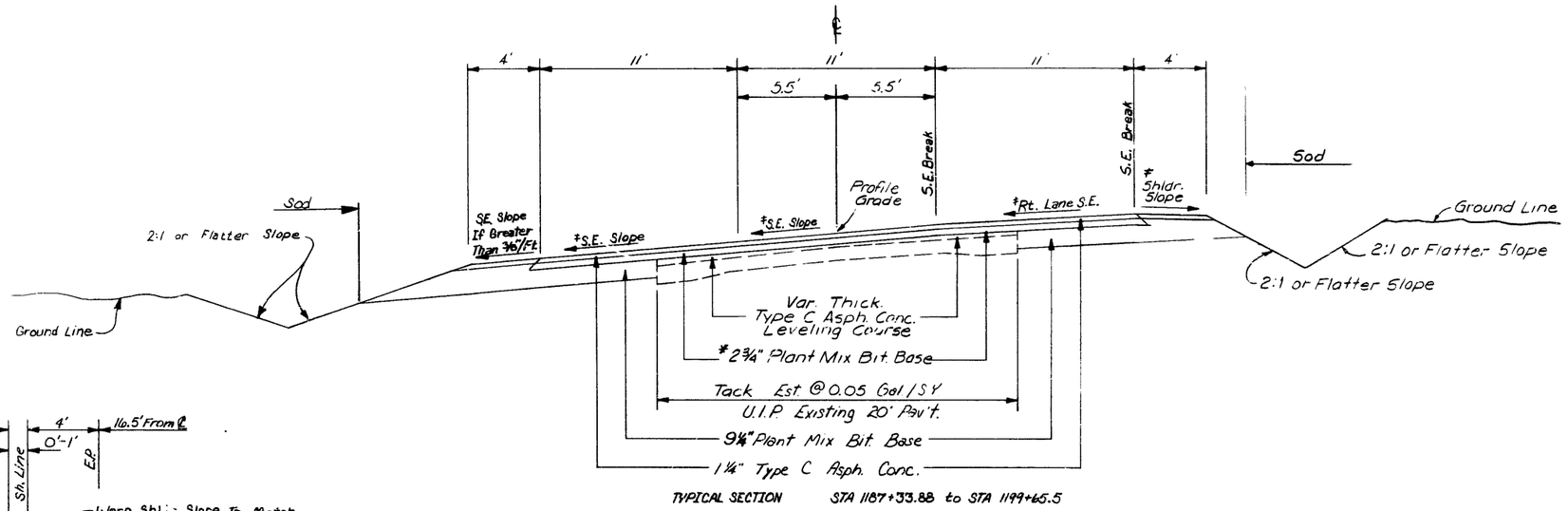
TYPICAL SECTION CURB & GUTTER

TYPICAL SECTION
ROUTE 32

Drawing not to scale, follow dimensions

STATE MO.	JOB NO 6-S-32-881	SHEET NO 3
DIST NO 10	PROJECT NO RS-RSG-1337(6)	ROUTE 32
	COUNTY STE. GENEVIEVE	

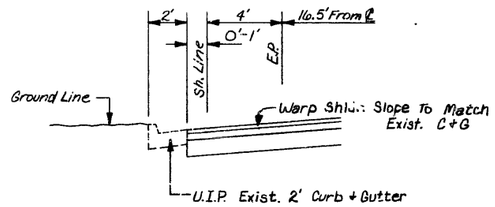
FINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — AREAS — AREAS CHECKED — BY — DATE



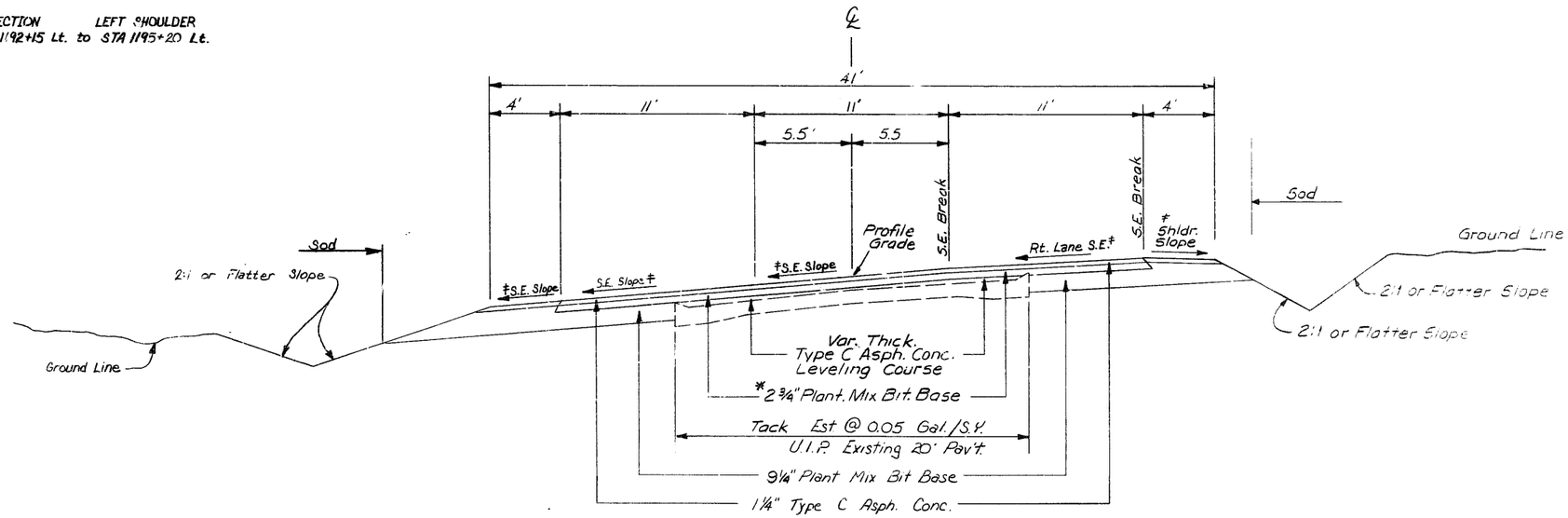
TYPICAL SECTION STA 1187+33.88 to STA 1199+65.5

‡ Refer to S.E. Transition Diagram (Sheet 4 of 6) For S.E. And Shldr. Slope

* To be placed as a separate lift



TYPICAL SECTION LEFT SHOULDER
STA 1192+15 Lt. to STA 1195+20 Lt.



TYPICAL SECTION STA 1199+65.5 to STA 1203+40

‡ Refer to S.E. Transition Diagram (Sheet 4 of 6) For S.E. And Shldr. Slope

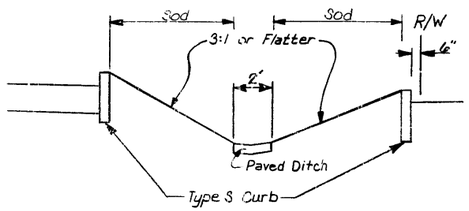
TYPICAL SECTION
ROUTE 32

ORIGINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — AREAS — AREAS CHECKED — BY — DATE

4134

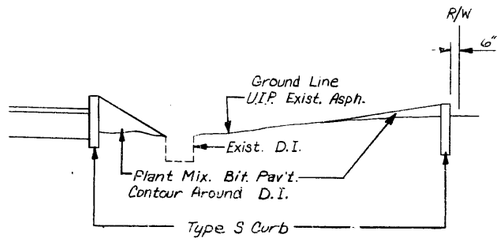
FINAL PLANS

STATE MO.	JOB NO. 6-S-32-881	SHEET NO. 2
DIST NO. 10	PROJECT NO. RS-R5G-1337(6)	ROUTE 32
	COUNT: STE. GENEVIEVE	



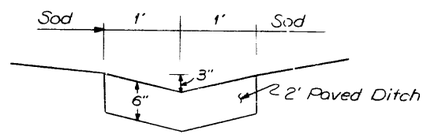
TYPICAL SECTION

ISLAND SECTION W/ PAVED DITCH



TYPICAL SECTION

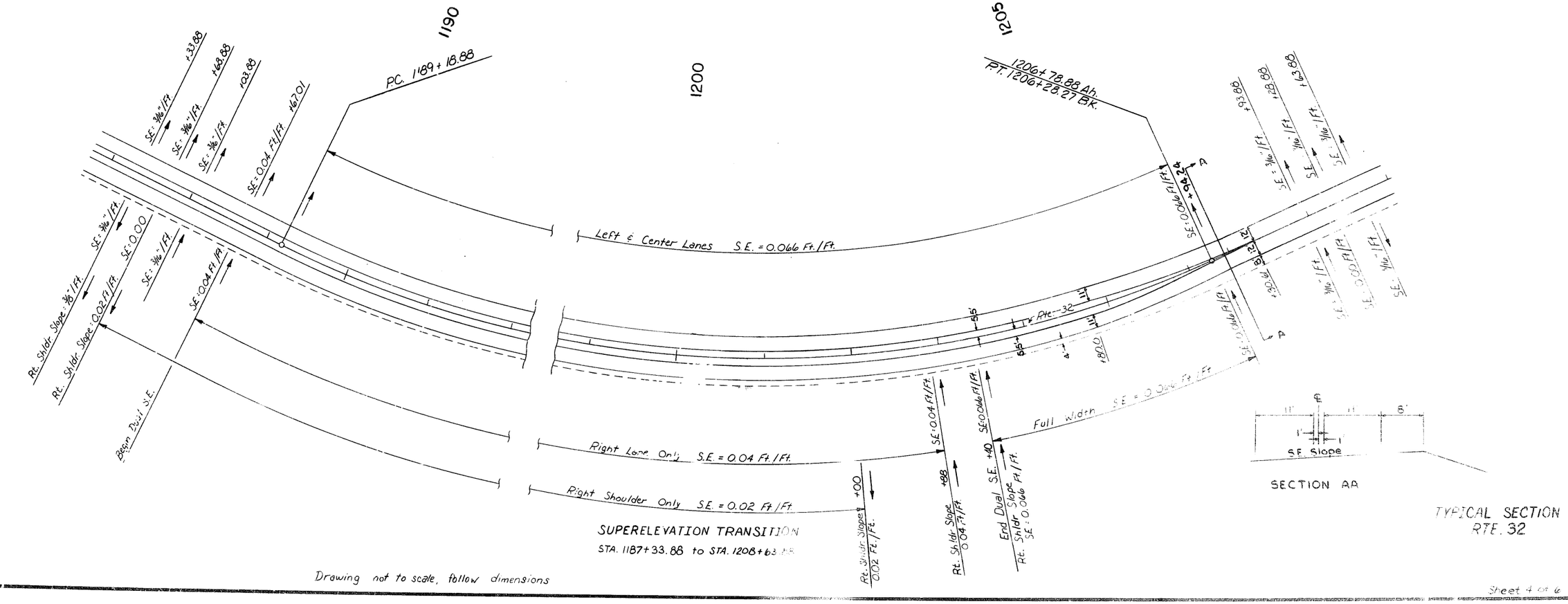
ISLAND SECTION W/Exist. D.I.



DETAIL PAVED DITCH IN ISLAND

Note:
See Standard Drawing 609.15

Drawings not to scale, follow dimensions



SUPERELEVATION TRANSITION
STA. 1187+33.88 to STA. 1208+63.88

SECTION AA

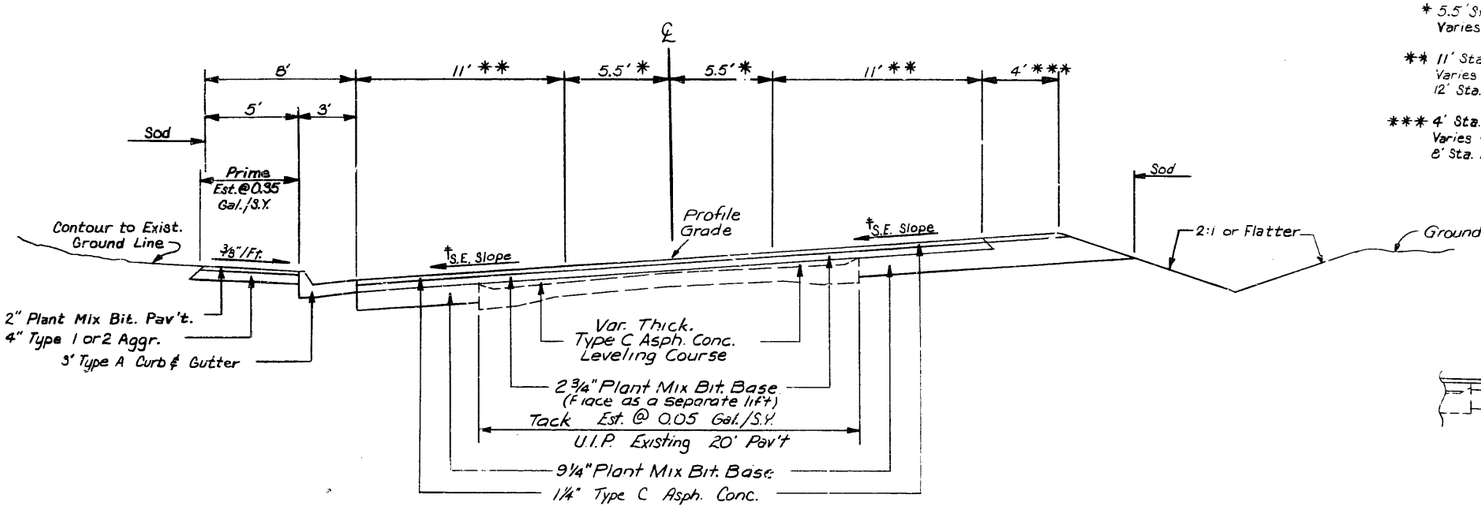
TYPICAL SECTION
RTE. 32

Drawing not to scale, follow dimensions

Sheet 4 of 6

FINAL PLANS

STATE MO.	JOB NO 6-S-32-881	SHEET NO 2
DIST NO 10	PROJECT NO RS-RSG-1337(6)	ROUTE 32
	COUNTY STE. GENEVIEVE	



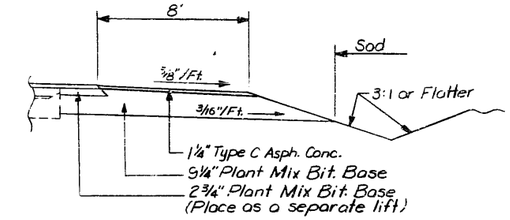
TYPICAL SECTION
Sta. 1203+40.0 to Sta. 1208+63.88

† Refer to S.E. Transition Diagram (Sheet 4 of 6) For S.E. Slope

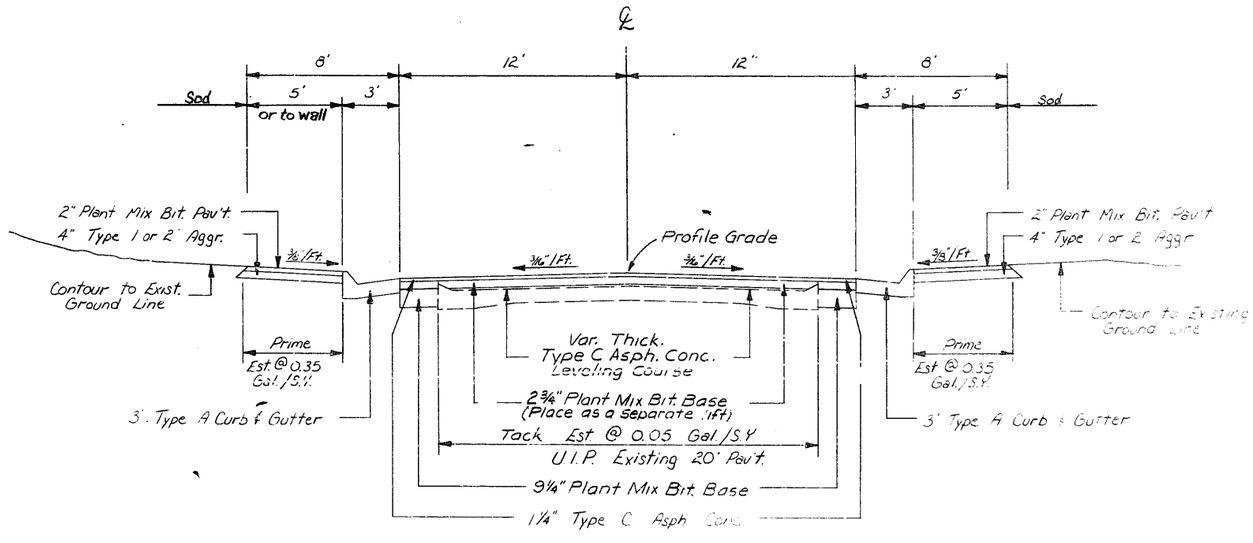
* 5.5' Sta. 1203+00 to Sta. 1204+80
Varies 5.5' to 0' Sta. 1204+80 to Sta. 1207+30 ±

** 11' Sta. 1203+00 to Sta. 1206+94.24
Varies 11' to 12' Sta. 1206+94.24 to Sta. 1207+30 ±
12' Sta. 1207+30.61 to Sta. 1208+63.88

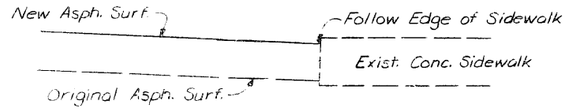
*** 4' Sta. 1203+00 to Sta. 1204+80
Varies 4' to 8' Sta. 1204+80 to Sta. 1206+94.24
8' Sta. 1206+94.24 to Sta. 1208+63.88



TYPICAL SECTION RIGHT SHOULDER
Sta. 1208+63.88 to Sta. 1209+32.0



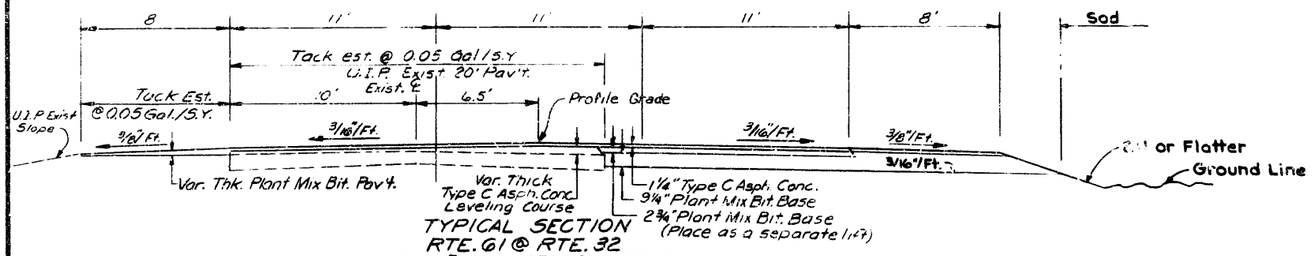
TYPICAL SECTION
Sta. 1208+63.88 to Sta. 1213+33.72



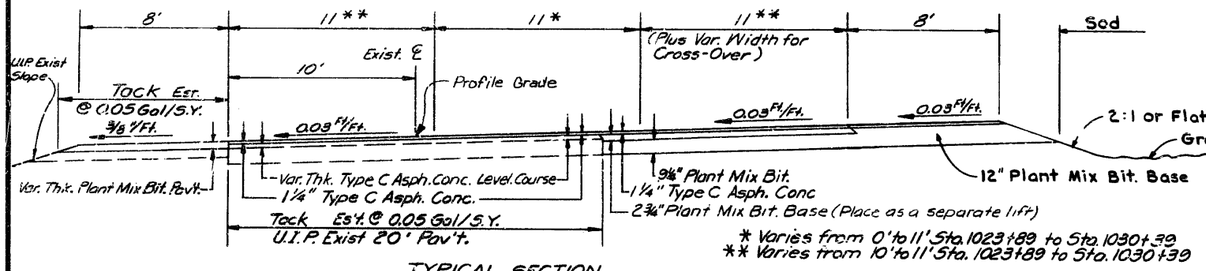
DETAIL OF ASPHALT CURB RT. OF ℄
Sta. 1214+36.5 to Sta. 1214+90±

TYPICAL SECTION
Sta. 1213+33.72 to Sta. 1214+36.5

STATE MO | JOB NO 6-5-32-58 | SHEET NO 2
DIST NO 10 | PROJECT NO | COUNTY STE. GENEVIEVE | ROUTE 32

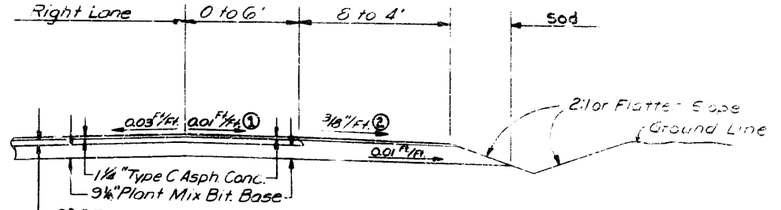


TYPICAL SECTION
RTE. 61 @ RTE. 32
STA. 1038+51.3 to STA. 1038+57.98



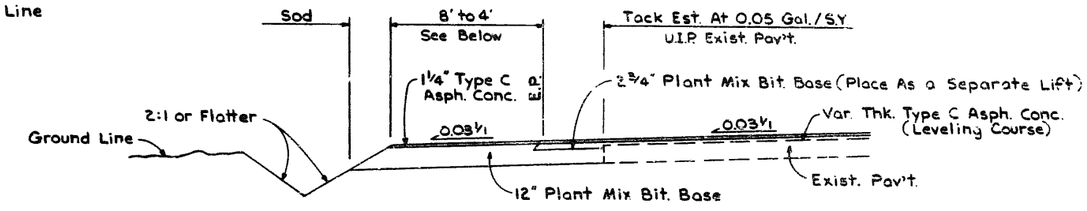
* Varies from 0' to 11' Sta. 1023+89 to Sta. 1030+39
** Varies from 10' to 11' Sta. 1023+89 to Sta. 1030+39

TYPICAL SECTION
RTE. 61 @ RTE 32
STA. 1023+89 to STA. 1038+51.3

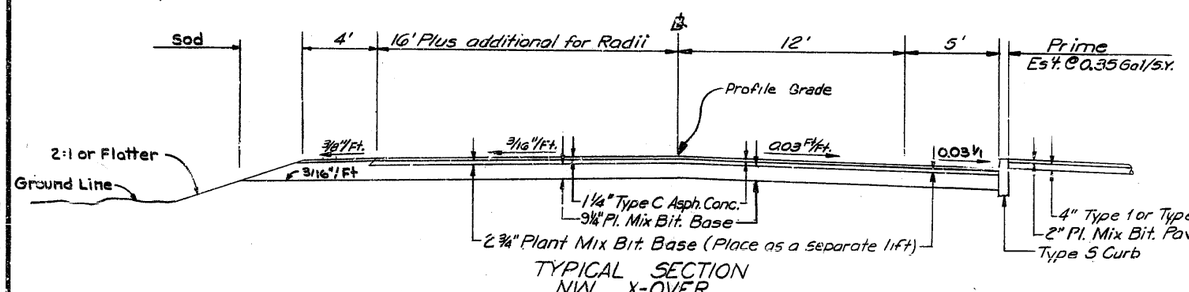


TYPICAL SECTION AUXILIARY TAPER
STA. 1031+07.95 Rt. to STA. 1031+97.95 Rt.

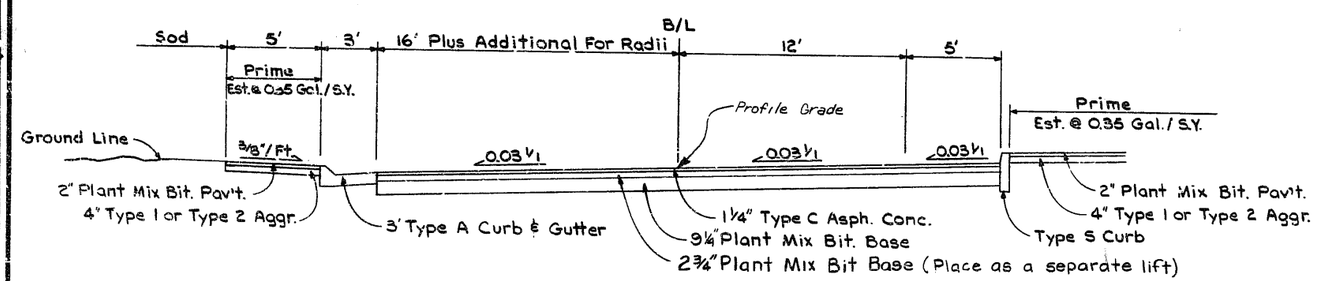
① Transition from Road Bed SE to 0.01 Ft/Ft. from Sta. 1031+07.95 to Sta 1031+67.95
② Transition from Road Bed SE to 3/8"/Ft. from Sta. 1031+07.95 to Sta. 1031+67.95



SURFACE WIDENING AND SHOULDER ON LEFT
ROUTE 61 AND 32
8' to 4' Sta. 1033+46.9 To Sta. 1034+06.9 Rte. 61
4' Sta. 1034+06.9 Rte. 32 To Sta. 1177+02.5 Rte. 32



TYPICAL SECTION
N.W. X-OVER
B/L STA 0+21.20 to B/L STA. 1+10.25



TYPICAL SECTION
S.E. X-OVER
B/L STA. 0+22.52 to B/L STA. 0+82.01

TYPICAL SECTION
Route 61
&
X-Overs

6 of 6

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

STATE	JOB NO. C-S-32-881	SHEET NO
MO		2A
DIST NO	PROJECT NO.	ROUTE
10	COUNTY Ste Genevieve	32

ITEM	DESCRIPTION	UNIT	QUANTITY
202-20.10	REMOVAL OF IMPROVEMENTS	LUMP SUM	1
203-10.00	CLASS A EXCAVATION	CU YD	4,613
203-60.00	COMPACTING EMBANKMENT	CU YD	1,826
203-70.75	COMPACTING IN CUT	STATION	55.5
206-30.00	CLASS 2 EXCAVATION	CU YD	1,880
301-10.11	ASPHALT CEMENT (BITUMINOUS BASE) 60-70 OR AC-20 (1)	TON	465.2
301-20.00	MINERAL AGGREGATE (BITUMINOUS BASE) (2)	TON	9,650
304-00.43	TYPE 1 OR TYPE 2 AGGREGATE FOR BASE (4 IN. THICK)	SQ YD	4,456
310-30.01	CHAT (C)	CU YD	0
390-90.00	TEMPORARY SURFACING	CU YD	406
401-10.11	ASPHALT CEMENT (BITUMINOUS PAVEMENT) 60-70 OR AC-20 (3)	TON	15.0
401-20.10	MINERAL AGGREGATE (BITUMINOUS PAVEMENT) GRADE C (4)	TON	311
403-10.11	ASPHALT CEMENT (ASPHALTIC CONCRETE) 60-70 OR AC-20 (5)	TON	159.5
403-10.26	MINERAL AGGREGATE (ASPHALTIC CONCRETE) (TYPE C MIX) (6)	TON	3,031
407-10.05	TACK COAT (7)	GALLON	1,580
601-10.00	FIELD LABORATORIES	LUMP SUM	1
604-40.13	PIPE COLLAR, TYPE C	EACH	1
608-50.07	PAVED APPROACH, 7 IN.	SQ YD	760.3
609-10.10	CONCRETE CURB (6 IN. HEIGHT AND UNDER) TYPE S	LIN FT	2,738
609-10.41	CONCRETE GUTTER TYPE A	LIN FT	29
609-10.51	CURB AND GUTTER TYPE A	LIN FT	1,466
609-10.60	PAVED DITCH	SQ YD	823.8
609-70.00	ROCK LINING	CU YD	18
612-90.10	INSTALLING GIVE EM A BRAKE 4 FT. X 8 FT. SIGNS (SEE SPECIAL PROVISIONS)	EACH	4
612-90.20	INSTALLING GIVE EM A BRAKE 4 FT. X 4 FT. SIGNS (SEE SPECIAL PROVISIONS)	EACH	2
614-10.10	GRATES AND BEARING PLATES	POUND	2,360
614-30.13	MANHOLE FRAME AND COVER, TYPE 3	EACH	3
616-10.05	CONSTRUCTION SIGNS	SQ FT	1,128
616-10.20	CHANNELIZERS (DRUMS)	EACH	145
616-10.60	EDGE DROP-OFF TREATMENT	LIN FT	8,433
618-10.00	MOBILIZATION	LUMP SUM	1
620-50.01	TYPE 1 PREFORMED MARKING TAPE 4 IN., SOLID WHITE	100 FT	3.0
620-50.03	TYPE 1 PREFORMED MARKING TAPE 4 IN., SOLID YELLOW	100 FT	85.2
620-50.04	TYPE 1 PREFORMED MARKING TAPE 4 IN., INTERMITTENT YELLOW	100 FT	11.6
620-54.04	PREFORMED SHORT TERM MARKING TAPE 4 IN., INTERMITTENT YELLOW	MILE	1.1
703-20.01	CLASS B CONCRETE (CULVERTS)	CU YD	9.9
706-10.30	REINFORCING STEEL (CULVERTS)	POUND	1,240

ITEM	DESCRIPTION	UNIT	QUANTITY
725-02.15	15 IN. PIPE CULVERT GROUP II	LIN FT	144
725-02.18	18 IN. PIPE CULVERT GROUP II	LIN FT	82
725-10.12	12 IN. CORRUGATED METAL PIPE	LIN FT	6
725-10.15	15 IN. CORRUGATED METAL PIPE	LIN FT	146
725-10.18	18 IN. CORRUGATED METAL PIPE	LIN FT	170
725-10.24	24 IN. CORRUGATED METAL PIPE	LIN FT	2
725-20.04	CORRUGATED METAL PIPE-ARCH TYPE B-4	LIN FT	6
726-13.15	15 IN. CLASS III REINFORCED CONCRETE PIPE CULVERT	LIN FT	779
726-13.18	18 IN. CLASS III REINFORCED CONCRETE PIPE CULVERT	LIN FT	526
726-13.24	24 IN. CLASS III REINFORCED CONCRETE PIPE CULVERT	LIN FT	1,306
731-10.22	PRECAST CONCRETE DROP INLET 2 FT X 2 FT	FT	14
731-10.30	PRECAST CONCRETE DROP INLET 3 FT X 2 FT-6 IN.	FT	16
731-10.32	PRECAST CONCRETE DROP INLET 3 FT X 2 FT	FT	57
731-10.33	PRECAST CONCRETE DROP INLET 3 FT X 3 FT	FT	23
732-00.18	18 IN. FLARED END SECTION	EACH	1
732-00.24	24 IN. FLARED END SECTION	EACH	1
803-10.00	SODDING	SQ YD	8,792
	TRAFFIC SIGNALS		
902-12.14	SIGNAL HEAD, OPTICALLY LIMITED, TYPE 4S	EACH	2
902-14.13	SIGNAL HEAD, OPTICALLY LIMITED, TYPE 3B	EACH	6
902-26.50	150 WATT 120 VOLT HIGH PRESSURE SODIUM LUMINAIRE	EACH	4
902-31.14	POST, TYPE CL, 14A	EACH	1
902-31.15	POST, TYPE CL, 15A	EACH	1
902-31.29	POST, TYPE CL, 29A	EACH	1
902-31.31	POST, TYPE CL, 31A	EACH	1
902-42.40	CONTROLLER ASSEMBLY HOUSING, KEYBOARD ENTRY, MODULAR BY FUNCTION, 4 PHASE D" CONTROLLER	EACH	1
902-49.40	DETECTOR, INDUCTION LOOP VEHICLE (1 CHANNEL)	EACH	6
902-51.25	CONDUIT, 1 1/4 IN., TRENCH	LIN FT	73
902-52.00	CONDUIT, 2 IN., TRENCH	LIN FT	102
902-52.50	CONDUIT, 2 1/2 IN., TRENCH	LIN FT	99
902-72.00	CONDUIT, 2 IN., PUSHED	LIN FT	81
902-72.50	CONDUIT, 2 1/2 IN., PUSHED	LIN FT	58
902-82.09	CABLE, 8 AWG 1 CONDUCTOR, POWER	LIN FT	140
902-83.02	CABLE, 12 AWG 2 CONDUCTOR	LIN FT	680
902-83.07	CABLE, 12 AWG 7 CONDUCTOR	LIN FT	1,120
902-85.00	CABLE, LOOP DETECTOR, IN DUCT	LIN FT	2,190

ITEM	DESCRIPTION	UNIT	QUANTITY
902-85.10	CABLE, LOOP DETECTOR, LEAD-IN	LIN FT	500
902-86.00	POWER SUPPLY ASSEMBLY, TYPE 1	EACH	1
902-87.30	30 FT SERVICE POLE	EACH	1
902-88.01	PULL BOX, TYPE I	EACH	3
902-91.00	BASE, CONCRETE	CU YD	10.3
	FOOTNOTE		
(1)	EST. AT 0.103 TONS/CU. YD.		
(2)	EST. AT 1.877 TONS/CU. YD.		
(3)	EST. AT 0.115 TONS/CU. YD.		
(4)	EST. AT 1.902 TONS/CU. YD.		
(5)	EST. AT 0.087 TONS/CU. YD.		
(6)	EST. AT 1.939 TONS/CU. YD.		
(7)	EST. AT 0.05 GAL./SQ. YD. AND 0.35 GAL/SQ. YD.(PRIME PAID AS TACK)		
500	CONTINGENT ITEM		
501.01	DENSITY SAMPLES	EACH	16
	ACCEPTED:		2-27-91
	PREPARED BY:		2-12-91
	RESIDENT ENG: Roy L. White		2-15-91
	DISTRICT ENGINEER:		2-15-91
	FINAL INSPECTION:		

88 175

RS-RSG-1317(6) 32 STE. GENEVIEVE

SP-28

FINAL PLANS

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

STATE	JOB NO	SHEET NO
MO		
DIST. NO	PROJECT NO.	ROUTE
10	COUNTY STE. GENEVIEVE	32

SHEET 1 OF 5

REMOVAL OF IMPROVEMENTS

Sheet	Sta	Loc	Sta	Loc	Description	Remarks
					Route 61	
4	1025+00	28'Rt			15"x 68' CMP	
	1025+70	28'Rt			Drop Inlet	
	1025+00	26'Rt		35'Rt	Conc. Curb	Approx. 15 L.F
	1025+56	26'Rt		36'Rt	Conc. Curb	Approx. 14 L.F
	1025+78	28'Rt		37'Rt	Conc. Curb	Approx. 13 L.F
	1026+08	38'Rt			Conc. Curb	Approx. 11 L.F
	1026+62	37'Rt			Conc. Curb	Approx. 12 L.F
	1026+98	40'Rt	1027+14	25'Rt	Conc. Curb	Approx. 36 L.F
	1026+99	25'Rt			Drop Inlet	
	1027+00	25'Rt			12"x 48' C.M.P	
	1027+45	30'Rt	1027+62	40'Rt	Conc. Curb	Approx. 56 L.F
	1027+61	24'Rt			12"x 30' CMP	
	1027+92	30'Rt	1028+07	40'Rt	Conc. Curb	Approx. 30 L.F
	1028+07	24'Rt			12"x 37' CMP	
	1028+59	24'Rt			15"x 37' CMP	
	1029+27	24'Rt			15"x 65' CMP	
	1031+12	24'Rt			15"x 67' CMP	
5	1033+00	35'Lt			Ditch Invert	Approx. 6 L.F
	1033+56	25'Rt	1034+02	28'Rt	8" Conc. Pavt. (Remove Within Island)	Approx. 64 S.Y.
	1036+52	Lt	1036+97	Lt	8" Conc. Pavt. (Remove Within Island)	Approx. 114 S.Y.
					Route 32	
5	1176+57	42'Lt			Span Wire Post	Remove Overhead Wiring & Signal Heads W/ Posts
	1176+73	41'Rt			Span Wire Post	Remove Overhead Wiring & Signal Heads W/Posts
	1179+04	28'Lt	1179+29	44'Lt	Conc. Curb	Approx. 42 L.F
	1179+62	22'Lt		40'Lt	Conc. Curb	Approx. 18 L.F
6	1181+15	20'Lt		36'Lt	Conc. Curb	Approx. 18 L.F
	1181+45	35'Lt	1181+77	35'Lt	Conc. Curb	Approx. 60 L.F
	1181+80	40'Rt	1181+85	20'Rt	Conc. Curb	Approx. 33 L.F
	1182+06	35'Lt	1182+20	35'Lt	Conc. Curb	Approx. 35 L.F
	1181+17.2	22.5Lt			18"x 142' CMP	
	1182+55	35'Lt	1182+98	35'Lt	Conc. Curb	Approx. 60 L.F
	1182+97	23'Lt			18"x 48' CMP	
	1182+41	40'Rt	1182+55	25'Rt	Conc. Curb	Approx. 20 L.F
	1183+17	22'Rt			15"x 32' CMP	
	1183+40	35'Lt	1183+52	20'Lt	Conc. Curb	Approx. 23 L.F
	1184+14	23'Lt			18"x 95' CMP	
	1184+14	20'Lt	1184+30	35'Lt	Conc. Curb	Approx. 32 L.F
	1184+92	35'Lt	1185+12	20'Lt	Conc. Curb	Approx. 40 L.F
	1184+94	23'Lt			Drop Inlet	
	1184+94	23'Lt	1185+12	23'Lt	18"x 18' CMP	
	1185+13	23'Rt			15"x 20' CMP	
	1185+18	10'Rt		40'Rt	Paved Appr.	Approx. 41 S.Y.
	1186+10	20'Lt	1186+15	35'Lt	Conc. Curb	Approx. 16 L.F
	1186+40	28'Lt			18"x 66' CMP	
	1186+42	24'Rt			15"x 18' CMP	
	1186+68	10'Rt	1186+95	10'Rt	Paved Appr.	Approx. 56 S.Y.
	1186+75	35'Lt	1187+14	35'Lt	Conc. Curb	Approx. 60 L.F
	1186+78	28'Lt			Drop Inlet	
	1186+78	28'Lt			18" 98' CMP	
	1187+75	35'Lt	1187+94	35'Lt	Conc. Curb	Approx. 35 L.F
	1187+78	28'Lt			Drop Inlet	
	1187+78				18"x 82' CMP	
	1188+50	35'Lt	1188+56	20'Lt	Conc. Curb	Approx. 30 L.F
	1192+72	20'Rt			Conc. Curb	Approx. 10 L.F
	1192+75	25'Rt			15"x 20' CMP	
	1192+95	20'Rt			Conc. Curb	Approx. 10 L.F
7	1194+09	27'Rt			15"x 100' CMP	
	1194+15	27'Rt			Drop Inlet	
	1194+10	Rt	1195+75	Rt	Paved Appr.	Approx 380 S.Y.
	1194+10	20'Rt	1194+15	35'Rt	Conc. Curb	Approx. 20 L.F
	1194+70	35'Rt	1195+10	35'Rt	Conc. Curb	Approx. 55 L.F
	1195+12	28'Rt			Drop Inlet	
	1195+16	31'Lt	1195+21	31'Lt	Conc. Curb	Approx. 10 L.F
	1195+70	33'Rt	1195+80	40'Rt	Conc. Curb	Approx. 40 L.F
	1195+75	30'Rt			Drop Inlet	
	1195+75	30'Rt			5"x 66' CMP	
	1196+00	20'Lt	1196+23	30'Lt	Conc Curb	Approx. 25 L.F
	1196+01	27.3Lt			2-18"x 17' CMPs w/ Conc. Hdwl	
	1196+20	21 Lt			Drop Inlet	

REMOVAL OF IMPROVEMENTS (CON'T.)

Sheet	Sta	Loc.	Sta	Loc	Description	Remarks
7	1196+23.7	21'Lt			15"x 64' CMP w/Galv Hdwl	
	1196+40	26'Rt			Drop Inlet	
	1196+40	25'Rt			15"x 35' CMP	
	1196+71	40'Lt	1196+85	20'Lt	Conc. Curb	Approx 25 L.F
	1196+79	30'Rt			15"x 42' CMP	
	1197+20	30'Rt			Drop Inlet	
	1197+20	30'Rt			15"x 66' CMP	
	1198+24.3	31'Rt			15"x 20' CMP	
	1198+50	31'Rt			15"x 50' CMP	
	1199+80	28'Rt			Drop Inlet	
	1199+78	20'Lt			Drain Basin	Approx 15 S.Y.
	1204+81.5	21'Lt			8"x 20' CMP	
	1205+11	30'Rt			12"x 40' CMP w/Conc. Ret. Wall	
	1205+72.5	23'Lt			15"x 8' CMP	
	1205+73	20'Lt		30'Lt	4" Conc. Sidewalk	Approx. 5 S.Y.
8	1206+95	20'Lt	1207+15	20'Lt	Drain Basin	Approx. 13 S.Y.
	1207+16	24'Lt			18"x 67' CMP	
	1207+16	32'Lt			15"x 57' CMP	
	1207+45	32'Rt			12"x 52' CMP	
	1207+85	25'Lt			Drop Inlet	
	1207+85	18'Lt		23'Lt	24"x 4' CMP	
	1207+97	10'Rt	1208+12	10'Rt	Drain Basin	Approx. 2 S.Y.
	1208+00	24'Lt			Drop Inlet	
	1208+00	18'Lt		24'Lt	18"x 6' RCP	
	1208+77	54'Rt			15"x 30' CMP	
					LUMP SUM	

PAVED DITCH

Sheet	Sta	Sta	Loc.	Type	Depth	Length	Avg Width	SY	Remarks
3	1170+83	1171+08	Lt	2'FB	1'	25'	6.47'	18.0	2:1 Slopes
3 & 6	1179+79	1181+12	Lt	V	1.5'	133'	5.71'	99.2	2:1 Slopes
4 & 5	1031+03	0+688	Rt - Lt	V	1'	144'	4.47'	71.5	2:1 Slopes (Rte 61 to NW X-Over)
5	1032+75	1033+00	Lt	2'FB	1'-2.5'	25.3'	9.83	27.6	2:1 Slopes
	1033+00	1033+10	Lt	2'FB-V	2.5'-1.5'	10.0'	9.94'	11.0	2:1 Slopes
	1033+10	1177+92	Lt	V	1.5'	288'	6.71'	214.7	2:1 Slopes
6	1181+507	1181+69	Lt	V	1.5'	18.3'	6.71'	13.6	2:1 Slopes
	1182+47	1183+03	Rt	V	1'	56'	4.47'	27.8	2:1 Slopes
	1182+62	1182+88.5	Lt	V	1.5'	26.5'	6.71'	19.9	2:1 Slopes
	1183+44	1183+49	Rt	3'F.E	.50	14.0	3.50	5.4	2:1 Slopes
	1183+46.5	1184+28.5	Lt	V	1.5'	11.0	6.71	57.4	2:1 Slopes
	1183+49	1185+00	Rt	V		151'	4.47	75.0	2:1 Slopes
	1184+97.6	1186+09.3	Lt	V	1.5'	111.7	6.71	83.3	2:1 Slopes
	1185+32	1186+30	Rt	V	1'	98'	4.47	48.7	2:1 ~ var.
7 & 14	1194+90	1195+08	Rt	V	0.25	22	2.06	5.0	In Island
	1195+73	1195+82	Rt	V	0.25	10	2.06	2.3	In Island
	1196+75	1196+77	Rt	V	0.25	3	2.06	.6	In Island
	1196+76	1196+84	Rt	V	0.25	9	2.06	2.1	In Island
7 & 15	1197+21	1197+41	Rt	V	0.25	21	2.06	4.8	In Island
	1197+24	1197+24	Rt	V	0.25	9	3.0	3.0	In Island
	1197+85	1197+99	Rt	V	0.25	16	2.06	3.7	In Island
	1197+99	1197+99	Rt	V	0.25	12	3.0	4.0	In Island
	1197+99	1198+15	Rt	V	0.25	20	2.06	4.6	In Island
	1198+43	1198+54	Rt	V	0.25	12	2.06	2.8	In Island
	1198+98	1199+02	Rt	V	0.25	5	2.06	1.1	In Island
	1199+02	1199+02	Rt	V	0.25	4	4.0	1.8	In Island
	1199+02	1199+11	Rt	V	0.25	9	2.06	2.1	In Island
	1199+48	1199+67	Rt	V	0.25	20	2.06	4.6	In Island
	1199+58	1199+67	Rt	V	0.25	9	2.06	2.1	In Island
	1209+09.4	1209+21.4	Rt	V	0.25	12	3.0	4.0	In Island

FINAL SURVEY — NOTE BOOK — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — NO — EXIT

ORIGINAL SURVEY — NOTE BOOK — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — NO — DATE — BY

4-27-76

SP-28

FINAL PLANS

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

STATE NO	JOB NO	SHEET NO
DIST NO 10	PROJECT NO	ROUTE
	COUNTY STE. GENEVIEVE	32

SHEET 2 OF 6

CONCRETE BOX CULVERT

Sheet	Station	Loc	Std.	Wing Slope	Size	Length Ft	Cl. B Conc. C.Y.	Reinf. Steel Lbs.	Cl. 3 Exc. C.Y.	Rock Lining C.Y.	Remarks
6	1189+16.5	Lt	703.21	2:1	5'x3'	5	4.8	635.4	8		Flared Wing
	1189+16.5	Rt	703.21	2:1	5'x3'	7	5.1	599.9	13	10	Straight Wing, 1-18" & 1-24" Pipe Opening
	Totals						9.9	1235.3	21	10	
						Use	9.9	1240	21	10	

REINFORCED CONCRETE PIPE CULVERT

Sheet	Station	Loc	Station	Loc	Class III RCP 15" L.F.	18" L.F.	24" L.F.	Flared End Sec. 18" Each	Pipe Collar Type C Each	Cl. 3 Exc. C.Y.	Rock Lining C.Y.	Remarks
5	1033+00	32.6'Rt		71.3'Rt			40		1	11		Incl. 1-18" Tee
	0+75	20' Lt		51.1' Lt		71				43		
	1173+52.5	29' Lt	1174+57.3	30' Lt		105				38		
	1174+58.8	16.5' Lt		29' Lt	13					4		
	1178+69.7	22' Rt	1037+05.5	13.5' Lt	57					34		
	1178+70.7	20.5' Rt	1179+98	20.2' Rt	128					75		
	1180+00	20.2' Rt	1181+80	18' Rt	180					84		
6	1181+82	18' Rt.	1182+49.5	26.5' Rt	69					30		
	1189+49	25' Rt.	1192+00.5	24' Rt.			257			267		
	1191+05	18.1' Rt.		23' Rt.	5					0		
	1192+03.5	24' Rt	1193+02.5	24' Rt.			101			73		
	1193+05.5	24' Rt.	1194+88.5	24' Rt.			187			156		
	1194+91.5	24' Rt.	1195+72.8	30' Rt.			84			73		
	1186+07.3	27.5' Lt	1186+76.3	30' Lt			69			42		
	1186+78.3	30' Lt	1187+75.8	31.5' Lt.			38			75		
	1187+77.8	31.5' Lt.	1188+60.8	30.5' Lt.			83			64		
7	1195+75.8	30' Rt.	1196+34.9	29.2' Rt.			61			52		Incl. 1-35° Bend
	1196+37.3	30.8' Rt.	1196+73.0	30' Rt.			38			26		Incl. 1-35° Bend
	1196+76	30' Rt.	1197+22.5	24.5' Rt.		47				35		
	1197+25.5	24.5' Rt.	1197+97.5	24.5' Rt.		74				45		
	1198+00.5	24.5' Rt.	1198+41.5	25.5' Rt.		42				26		
	1198+44.5	25.5' Rt.	1199+00.5	31.5' Rt.		58				27		
	1199+03.5	31.5' Rt.	1199+47.0	27.5' Rt.		45				19		
	1204+74.5	18' Lt.	1205+74	15.4' Lt.	99					40		
	1205+76	15.4' Lt.	1207+01.8	16.5' Lt.	75					35		
8	1207+07.8	16.5' Lt.	1207+84.4	16.5' Lt.			77			55		
	1207+86.9	16.5' Lt.	1207+97.8	16.5' Lt.		11				5		
	1207+99	Rt				9		1		5	2	X-Road Culv. Ext.
	1208+00.3	16.5' Lt.	1208+64	13.5' Lt.		64				40		
	1208+65	13.5' Lt.	1209+25.5	13.5' Lt.	61					32		
	1209+27.5	13.5' Lt.	1210+19	13.5' Lt.	92					45		
	Totals				779	526	1035	1	1	1556	2	

CLEANOUT U.I.P. PIPE

Sheet	Sta.	Sta	Loc	Cl. 3 Exc. C.Y.	Remarks
6	1192+24	1193+72	Lt	5	B-4 CMP
	Total			5	

PRECAST CONCRETE DROP INLETS

Sheet	Sta	Loc	Std.	Type	"D"	2'x2' Ft	3'x3' Ft	3'-6" x 3'-6" Ft	3'x3' Ft	Grates & Bearing Plates Lbs	Manhole Frame & Cover Type 3 Each	Cl. 3 Exc. C.Y.	Remarks
5	0+75	21' Lt	731.10	E	2'-9"		3					9	1-18" Pipe Opening
	1173+51.5	29' Lt		E	3'-0"		3					5	1-18" Pipe Opening
	1174+58.8	15' Lt		S-1	3'-3"		3			280		5	1-15" Pipe Opening
	1174+58.8	30' Lt		S-1	3'-3"		3			190		5	Grates & Bearing Plates for Type E Inlet 1-15" & 1-18" & 1-24" Pipe Opening
	1037+05.5	12' Lt		S-1	3'-3"		3			280		6	1-18" Pipe Opening
	1173+69.7	20.5' Rt		S-1	3'-9"		4			280		7	Grates & Bearing Plates for Type E Inlet 2-15" Pipe Openings
	1179+99	20.2' Rt		D	2'-0"	2				190		5	Grates & Bearing Plates for Type E Inlet 2-15" Pipe Openings
6	1181+81	13' Rt.		D	2'-3"	2				190		4	2-15" Pipe Openings
	1187+33	23.4' Rt		E-M	3'-3"		3					5	2-15" Pipe Openings
	1191+05	24' Rt		E-M	4'-0"		4					6	1-15" Pipe Opening
	1192+02	24' Rt		E-M	4'-0"				4			6	2-24" Pipe Openings
	1193+04	24' Rt		E-M	3'-9"				4			7	2-24" Pipe Openings
	1186+77.3	30' Lt		E-M	4'-0"		4					7	2-24" Pipe Openings
	1187+76.8	31.5' Lt		E	4'-0		4					7	2-24" Pipe Openings
7	1194+90	24' Rt		E	4'-9"				5			9	2-24" Pipe Openings
	1195+73.1	30' Rt		E-M	4'-9"				5			7	1-15" & 2-24" Pipe Openings
	1196+36.1	30' Rt		E-M	4'-6"				5			7	1-15" & 2-24" Pipe Openings
	1196+74.5	30' Rt		E-M	4'-0"		4					6	1-18" & 1-24" Pipe Opening
	1197+24	24.5' Rt		E-M	3'-9"		4					5	2-18" Pipe Openings
	1197+99	24.5' Rt		E-M	3'-3"		3					5	2-18" Pipe Openings
	1198+43	25.5' Rt		E-M	3'-6"		4					5	1-15" & 2-18" Pipe Openings
	1199+02	31.5' Rt		E-M	3'-0"		3					4	1-12" & 2-18" Pipe Openings
	1199+48.5	27.5' Rt		E-M	3'-0"		3					2	1-15" & 1-18" Pipe Opening
	1202+00	23' Rt		E-M	2'-3"		2					2	2-15" Pipe Openings
	1204+73.5	18' Lt		D	2'-0"	2				190		4	1-15" Pipe Opening
8	1205+75	15.4' Lt		D	2'-0"	2				190		4	2-15" Pipe Openings
	1207+03	16.5' Lt		T	3'-6"			4				5	1-15" & 1-24" Pipe Opening
	1207+06.5	16.5' Lt		T	3'-6"			4			1	5	2-24" Pipe Openings
	1207+85.6	16.5' Lt		T	4'-3"			4			1	7	1-18" & 2-24" Pipe Openings
	1207+99	16.5' Lt		--	4'-0"			4			1	7	3-18" Pipe Openings
	1208+65	13.5' Lt		D	2'-3"	2				190		5	1-15" & 1-18" Pipe Opening
	1209+26.5	13.5' Lt		D	2'-0"	2				190		4	2-15" Pipe Openings
	1210+20	13.5' Lt		D	2'-0"	2				190		4	1-15" Pipe Opening
	Totals					14	57	16	23	2360	3	181	

CORRUGATED METAL PIPE

Sheet	Sta.	Loc	Sta	Loc	12" L.F.	15" L.F.	18" L.F.	24" L.F.	Arch Type B-4 L.F.	Cl. 3 Exc. C.Y.	Flared End Sec 24" Each	Rock Lining C.Y.	Remarks
5	1179+63.6	23 Lt	1179+81	21.5 Lt				18		9			Incl. 1-30° Bend
6	1186+30.1	26' Rt	1186+68	23.6' Rt			38			5			Incl. 1-12" Tee & 1-15° Bend
	1186+64	23.6' Rt		29.6' Rt	6					1			
	1189+01.5	31' Rt	1189+44	25' Rt			44			9			Incl. 1-15° Bend
7	1193+19.5	24.5' Rt							6	2			Incl. 1-30° Bend
	1196+00	27' Lt	1196+90	27' Lt			88			34			Incl. 1-18 x 15" Tee
	1196+25.8	27.7' Lt				2							
	1198+43	27' Rt		40' Rt		14				5			
	1199+75.5	26.2' Rt	1199+81.5	26.2' Rt		6				2			
	1201+90.5	23' Rt	1201+98.5	23' Rt		5							
	1202+01.5	23' Rt	1203+15.1	27' Rt		116				25			
	1207+58.5	Rt								2			1-30° Bend & 1-22½° Bend
	Totals				6	46	2	2	6	5		5	

ROCK LINING

Sheet	Sta.	Sta	Loc	Thickness	Width	C.Y.	Remarks
3	1171+08	1171+20	Lt	1'	7'	3	Incl. Road Ditch
	Total					3	

FINAL SURVEY — ORIGINAL SURVEY
NOTE BOOK — PLOTTED — TEMPLATE — AREAS CHECKED — BY — DATE — NO

SP-2B

FINAL PLANT

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

SHEET 3 OF 5

STATE MO	JOB NO F-5-22-22	SHEET NO 22
DIST NO 10	PROJECT NO	ROUTE 32
	COUNTY STE. GENEVIEVE	

ENTRANCES, SIDE ROADS, CULVERTS AND APPROACHES

Plan Sheet No	Sr. Sheet No	Sta	Type	Loc	Width	% Grade	Surf Type	Cl. III RCP 24" L.F	Group II Pipe 15" L.F	18" L.F	Overfill Ht Ft	Paved Appr Depth Ft.	7" S.Y.	Type C Asph. Conc C.Y.	Plant Mix Bit Base C.Y.	4" Type 1 or 2 Aggr S.Y.	Prime Gal.	Tack Gal	Chat (C) C.Y.	Remarks
3	3	1170+30	II	Rt.	-	6	A							6.4'				5'		
		1170+54	III	Lt.	-	3	A							14.3'				7'		U.I.P. Exist Pipe
		1172+84.5	III	Rt.	55	8	A							9.2'				3'		
	4	1173+21.5	III	Lt.	29	4	A							1.7'				2'		U.I.P. Exist Pipe Skew 5° RA
		1178+89	III	Lt.	27	5	A							1.6'				2'		U.I.P. Exist. Pipe
	3	1179+46.28	II	Lt.	-	3	C							3.3'	16.0'					U.I.P. Exist Pipe, See Culv. Sec's
4	2	1025+30	III	Rt.	50	6	B							6.8'		75'	28'			U.I.P. Exist Pipe, Skew 3° RA
		1025+88.5	III	Rt.	40	11	D													No Pipe, Skew 1° LA
		1026+76.4	III	Rt.	28	11	D													No Pipe
		1027+23	III	Rt.	28	10	D													No Pipe
		1027+73	III	Rt.	28	6	D													No Pipe
		1028+22	III	Rt.	28	11	D													No Pipe
		1028+71	III	Rt.	28	9	B							3.3'		36'	13'			No Pipe
		1029+60	III	Rt.	60	14	B							6.3'		69'	25'			No Pipe
		1030+73	III	Rt.	60	6	B							4.9'		53'	20'			No Pipe
6	3	1180+46	III	Rt.	60	1	G					10	73.7'	7.4'		88'	31'			See Culv Sec's.
		1181+31.2	III	Lt.	28	5	B	43'						3.9'		44'	16'			
		1181+91.5	III	Lt.	30	5	B	45'						4.1'		47'	17'			
		1182+17	III	Rt.	49	5	B							4.3'		48'	18'			See Culv. Sec's.
		1182+39	III	Lt.	35	5	B	50'						4.8'		54'	20'			
		1183+19.5	III	Lt.	43	4	B	58'						5.9'		66'	24'			
		1183+26	III	Rt.	35	2	B			50'				4.3'		48'	18'			
		1184+62.1	III	Lt.	60	3	B	75'						8.1'		92'	33'			
	5	1185+18	I	Rt.	20	3	E			32'		19.5	39.1'							
		1186+45.8	III	Lt.	60	7	B							7.3'		87'	30'			See Culv. Sec's.
		1186+47	I	Rt.	20	2	D							1.5'		18'	6'			See Culv. Sec's., Incl Asph Apron
		1186+85.5	III	Rt.	12	4	A							1.6'				1'		U.I.P. Exist. Pipe, Skew 10° L A
		1187+45.8	III	Lt.	59	6	B							8.0'		90'	33'			See Culv. Sec's.
		1187+78.9	III	Rt.	31.5	6	A							9.0'				2'		U.I.P. Exist. Pipe, Skew 11° 30' L.A.
		1188+21.1	III	Lt.	59	3	B							8.0'		90'	33'			See Culv. Sec's.
		1188+50.8	I	Rt.	28	5	D													U.I.P. Exist. Pipe
		1190+16.5	I	Rt.	24	9	A							2.9'				1'		See Culv. Sec's.
		1190+36	I	Rt.	20	7	D													See Culv. Sec's.
		1191+82.6	II	Rt.	22	3	C							2.4'	10.6'					See Culv. Sec's, Skew 12° 32' 27" L A
		1192+94.5	I	Rt.	20	0	D													See Culv. Sec's. Skew 19° 30' LA
		1193+19.2	III	Lt.	26	-	-													Surf. Incl. w/Shldr. U.I.P Exist. Pipe
7		1194+22.2	III	Lt.	27	-	-													Surf. Incl. w/Shldr., Skew 6° LA, U.I.P Exist. Pipe
		1194+42.5	III	Rt.	55	3	E					14.5	94.2'							See Culv. Sec's.
		1194+83.0	III	Lt.	37	-	-							0.2'		2'	1'			Surf. Incl. w/Shldr. Skew 27° LA, U.I.P Exist Pipe
		1195+46.2	III	Rt.	60	4	E					14.5	104.9'							See Culv. Sec's., Skew 12° 30' LA
		1196+22.69	II	Lt.	36	2	C							2.6'	12.6'					See Culv. Sec's. Skew 33° 38' 45" LA
		1196+52.90	II	Rt.	-	4	C							4.0'	19.4'					See Culv. Sec's Skew 34° 08' LA
		1196+54.3	III	Rt.	31	8	B							5.2'		62'	22'			See Culv. Sec's.
		1196+79.2	III	Rt.	28	6	B							6.4'		76'	27'			See Culv. Sec's. Skew 32° RA.
	6	1197+44.5	III	Rt.	40	5	B							8.5'		102'	36'			See Culv. Sec's., Skew 28° 30' R A
		1198+30.1	III	Rt.	20	7	B							4.1'		50'	17'			See Culv. Sec's., Skew 7° 30' LA
		1198+61	III	Rt.	42	5	B							8.7'		105'	37'			See Culv. Sec's. Skew 23° RA
		1199+11.1	III	Rt.	25	9	B							5.2'		62'	22'			See Culv. Sec's., Skew 20° 30' RA
		1199+61	III	Rt.	45	7	B							9.2'		110'	39'			See Culv. Sec's., U.I.P Exist. Pipe, Skew 7° 30' R A
		1200+41.5	III	Rt.	45	8	B							8.8'		106'	37'			U.I.P Exist. Pipe, Skew 15° RA
		1201+01.2	III	Rt.	45	6	B							9.2'		110'	39'			U.I.P Exist Pipe, Skew 12° 30' RA
		1201+61.4	III	Rt.	48	6	B							9.1'		109'	38'			U.I.P Exist. Pipe, Skew 0° 30' RA
		1202+79.37	II	Rt.	35	3	C							3.3'	15.4'					See Culv. Sec's. Skew 8° 8' RA
		1203+13.26	II	Lt.	22	6	C							2.4'	11.0'					No Pipe, Skew 26° RA
		1203+15.8	I	Rt.	20	2	D													No Pipe
		1204+87.5	I	Rt.	20	1	D	30'		1'										Skew 16° RA
		1204+92.5	I	Lt.	20	7	G					8	22.3'	2.3'		27'	10'			See Culv. Sec's.
		1205+26	I	Rt.	23	2	D	36'		1'										Skew 10° 30' R A
		1205+77	-	-	-	-	-							0.5'			2'			Connect Sidewalk to Stop Sn.
8		1207+28	I	Lt.	20	11	G					8	22.3'	2.2'		26'	9'			See Culv. Sec's
		1207+63.2	II	Rt.	22	5	C	44'		2'				2.4'	10.4'					
		1208+38.5	I	Lt.	20	11	F					18	48.3'							See Culv. Sec's
		1208+84.5	I	Rt.	20	7	D	34'		1'										Skew 5° 30' RA
	7	1209+06.6	I	Lt.	20	3	J					8	22.3'	* 0.3'			* 1'			See Culv. Sec * Conn. Sidewalk to Stop Sn.
		1209+79	-	-	-	-	-							1.4'			4'			Connect Sidewalk to Stop Sn.
		1210+01.4	F	Rt.	20	1	F					18.5	41.0'							No Pipe
		1210+60.2	I	Rt.	20	1	H					8	22.3'	0.9'				1'		No Pipe
		1210+98.58	II	Lt.	26	5	F					18	76.4'							No Pipe, Skew 9° 30' RA
		1211+.3	I	Rt.	20	1	J					8	21.3'							No Pipe
		1211+45.26	II	Rt.	34	1	F					18	66.7'							No Pipe
								Cont.	(See Sheet 4 of 6)											

DATE / BY / SURVEYED / DRAWN / TRACED / AREAS / CHECKED / NOTE BOOK / NO. — FINAL SURVEY

DATE / BY / ORIGINAL SURVEY / NOTE BOOK

QUALITY REPRO

SP-2B

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

STATE	JOB NO	SHEET NO
MO		
DIST NO	PROJECT NO	ROUTE
10	COUNTY STE. GENEVIEVE	

ENTRANCES, SIDE ROADS, CULVERTS AND APPROACHES (CON'T)

Plan Sheet No	Sp Sheet No	Sta	Type	Loc.	Width	% Grade	Surf Type	Cl. III RCP 24" LF	Group II Pipe 15" LF	Group II Pipe 18" LF	Overfill Ht. Ft	Paved Appr Depth Ft.	Paved Appr 7" S.Y.	Type C Asph. Conc. C.Y.	Plant Mix Bit. Base C.Y.	4" Type 1 or 2 Aggr. S.Y.	Prime Gal.	Tack Gal.	Chat (C) C.Y.	Remarks
8	7	1211+54	-	-	-	-								0.2			1			Connect Sidewalk to Stab Shldr.
		1211+90.1	I	Lt	20	4	G					8	22.3	1.4		17		6		No Pipe
		1212+72	I	Lt	15	10	J					8	17.9							No Pipe
		1213+19.2	I	Rt	20	3	J					8	22.3							No Pipe
		1213+49.2	I	Rt	20	7	J					8	22.3							No Pipe
		1213+56.5	I	Lt	17	7	F					16	20.7							No Pipe
		Totals						271	144	82			760.3	239.8	95.4	1969	707	30	0	

TYPE I PREFORMED MARKING TAPE

Plan Sheet No.	Sp Sheet No.	Sta.	Sta	Length Ft	4" Yellow Solid L.F.	4" Yellow Intermittent L.F.	4" White Solid L.F	Remarks
	3	1169+45	1176+05	659		160		Intermittent Yellow
6		1181+50	1193+30	1180	2360	580		2- Single Solid Yellow, 2- Intermittent Yellow
	5	1193+30	1195+84	254	766			2- Double Solid Yellow
7		1194+80	1195+84	104			104	Single Solid White
		1196+65	1198+65	200			200	Single Solid White
		1196+65	1200+15	350	990			2- Double Solid Yellow
	6	1200+15	1204+80	465	930	220		2- Single Solid Yellow, 2- Intermittent Yellow
		1204+80	1206+28.27	148.27	590			2 Double Solid Yellow
		1206+78.88	1207+30.6	51.72	207			2 Double Solid Yellow, Double Solid Yellow
		1207+30.6	1209+30.6	200	200			Single Solid Yellow WBL
		1207+30.6	1215+33.72	803		200		
				Route 61				
	2	1023+89	1030+39	650	2534			2- Double Solid Yellow, Double Solid Yellow
		Totals			8517	1160	304	
			Use/100 Ft.		85.2	11.6	3.0	

EDGE DROP-OFF TREATMENT

Plan Sheet No.	Sp Sheet No.	Station	Station	Loc.	L.F	Remarks
		1023+89	1033+57	Rt.	968	Rte. 61
		1034+89	1038+58	Rt.	369	Rte. 61, Equa. (+0.85')
		1033+46.9	1034+90	Lt.	143.1	Rte. 61
		1170+00	1176+50	Rt.	650	Rte. 32
		1176+70	1214+33.72	Lt.	3713.12	Rte. 32 Equa. (-50.6')
		1177+10	1203+00	Rt	2590	Rte. 32
		Total			8433.22	
				Use	8433	

PREFORMED SHORT-TERM MARKING TAPE

Plan Sheet No.	Sp Sheet No.	Station	Station	4" Yellow Intermittent Mile		Remarks
		1170+00	1176+03	0.11	✓	Rte. 32
		1176+90	1206+28.27 Bk.	0.56	✓	Rte. 32
		1206+78.88 Ahd.	1214+33.72	0.14	✓	Rte. 32
		1023+89	1038+58	0.28	✓	Rte. 61
		Total		1.09	✓	
			Use	1.1	✓	

DATE / BY / FINAL SURVEY: SURVEYED, PLOTTED, TEMPLATE, AREAS CHECKED, NOTE BOOK, NO.

DATE / BY / ORIGINAL SURVEY: SURVEYED, PLOTTED, TEMPLATE, AREAS CHECKED, NOTE BOOK, NO.

QUALITY REPRO

SP.2B

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

STATE	JOB NO	SHEET NO
MO		5
DIST NO	PROJECT NO	ROUTE
10	COUNTY STE. GENEVIEVE	32

SHEET 5 OF 8

CONCRETE CURB, TYPE S

Plan Sheet No	Sp. Sheet No	Sta	Sta	Loc	6" Height & Under L.F.	Remarks
3	4	1174+11.34	1175+70.6	Lt.	377	✓
		1177+43.9	1178+58.1	Rt.	316	✓
	3	1179+04.7	1179+69.2	Lt.	38.5	✓
		1179+61	1179+81.5	Lt.	26	✓
	4	10 Bt 17	1035+18	Lt.	19	✓
4	2	1025+06.3	1025+07.2	Rt.	13	✓
		1025+56	1025+69.8	Rt.	45	✓
		1026+08.2	1026+18.3	Rt.	14.5	✓
		1026+60.4	1026+67.6	Rt.	20	✓
		1026+97.2	1027+19.2	Rt.	48	✓
		1027+42.2	1027+67.2	Rt.	45.5	✓
		1027+96.2	1028+18.2	Rt.	43	✓
		1028+45.2	1028+62.2	Rt.	37.5	✓
		1028+79.8	1029+30.4	Rt.	52	✓
		1029+67.6	1030+43.3	Rt.	67	✓
		1031+02.5	1031+56	Rt.	87	✓
		1179+98	1180+17	Rt.	27.5	✓
6	3	1180+77	1181+75	Rt.	117.5	✓
		1181+08	1181+17	Lt.	24	✓
		1181+46	1181+54	Lt.	20	✓
		1181+68.5	1181+74	Lt.	26.5	✓
		1181+85	1181+71	Rt.	14.5	✓
		1182+07	1182+13.5	Lt.	55	✓
		1182+49.5	1182+48	Rt.	17.5	✓
		1182+43.5	1183+08.5	Rt.	87.5	✓
		1182+57	1182+65	Lt.	28	✓
		1182+8.	1182+97	Lt.	29.5	✓
		1183+41	1183+48.5	Rt.	24	✓
	5	1183+42	1183+50	Lt.	31	✓
		1184+11	1184+30	Lt.	39	✓
		1184+92	1185+00	Lt.	27	✓
		1186+05	1186+13	Lt.	29.5	✓
		1186+77.5	1187+15.5	Lt.	79	✓
		1187+76	1187+89.5	Lt.	55	✓
		1188+52	1188+61	Lt.	34	✓
		1194+09.2	1194+15	Rt.	8	✓
		1194+61.5	1194+70	Lt.	15	✓
		1194+75.8	1195+04.8	Rt.	29	✓
7		1195+02	1195+06	Rt.	7	✓
		1195+14	1195+25	Lt.	13	✓
		1195+75.5	1195+83.5	Rt.	31	✓
		1196+27.4	1196+39.2	Rt.	26	✓
		1196+67.7	1196+83	Rt.	47	✓
	6	1197+12.6	1197+41.7	Rt.	73	✓
		1197+81.4	1198+16.5	Lt.	90	✓
		1198+35.2	1198+53.9	Rt.	58	✓
		1198+94.6	1199+11.6	Rt.	52	✓
		1199+33	1199+46.5	Rt.	89	✓
		1200+12.5	1200+25	Rt.	53	✓
		1200+74.5	1200+84.4	Rt	48	✓
		1201+29.4	1201+43.9	Rt	51	✓
		1201+84.5	1201+96.5	Rt.	27	✓
		Total			2738	✓

CONCRETE GUTTER AND CURB AND GUTTER

Plan Sheet No	Sp. Sheet No	Sta	Sta	Loc	Curb & Gutter Type A L.F	Gutter Type A L.F	Remarks
3 & 6	4 & 3	1038+18.25	1180+09	-	222.5		Lt. Rte 61 & Rt. Rte 32
6	3	1180+83	1181+85	Rt.	102.0		
7	5	1203+07.1	1204+77.5	Lt.	176.8		
7 & 8		1205+07.5	1207+13	Lt.	153.4		Equa.
8		1207+43	1208+23.5	Lt.	80.5		
		1208+53.5	1208+91.6	Lt.	38.1		
		1209+21.6	1210+67.5	Lt.	145.9		
		1211+24.5	1211+75.4	Lt.	50.9		
		1212+05.4	1212+59.5	Lt.	54.1		
		1212+84	1213+43	Lt.	59.0		
		1213+70	1214+39.1	Lt.	69.1		
		1214+39.1	1214+56	Lt.		16.9	
		1209+21.4	1209+33.6	Rt.		12.0	
		1209+30.6	1209+88.4	Rt.	57.9		
		1210+16.4	1210+45.2	Rt.	28.8		
		1210+75.2	1210+98	Rt.	22.8		
		1211+72.26	1213+04.2	Rt.	131.9		
		1213+64.2	1214+36.5	Rt.	72.3		
		Totals			1466.0	28.9	
				Use	1466	29	

SODDING

Sheet	Sta		Sta		Loc	S.Y.	Remarks
			Route 61				
	1024+15		1025+15		Rt	85	
	1025+65		—		Rt	23	Island
	1026+50		—		Rt	87	Island
	1027+20		—		Rt	32	Island
	1027+70		—		Rt	29	Island
	1028+20		—		Rt	26	Island
	1028+70		—		Rt	21	Island
	1029+30		—		Rt	35	Island
	1030+34		—		Rt	35	Island
	1031+03	Rte 61	0+18	N.W. & OVER	Lt	138	
4 & 5	1031+08		1031+90		Rt.	27	
5	1032+75		1035+00		Lt	287	
	1034+90		1038+29		Rt	776	
	1037+50		1039+20		Lt.	203	Island
			Route 32				
	1170+65		1172+44		Rt.	148	
	1170+80		1171+20		Lt.	36	
	1171+20		1173+66		Lt	351	
	1173+11		1176+62		Rt	722	
	1177+00		1178+03		Lt.	160	
	1179+15		—		Lt.	32	Island
5 & 6	1179+63		1181+16		Lt.	213	
6	1180+80		1181+92		Rt.	180	
	1181+46		1181+76		Lt.	40	
	1182+06		1182+22		Lt.	25	Island
	1182+42		1183+10		Rt.	83	
	1182+57		1182+98		Lt.	50	
	1183+40		1184+31		Lt.	111	
	1183+44		1185+10		Rt.	111	
	1184+93		1186+14		Lt.	161	
	1185+30		1186+37		Rt.	95	
	1186+62		1186+72		Rt.	11	
	1186+76		1187+16		Lt.	84	Island
	1187+74		1187+89		Lt.	30	
	1188+52		1192+25		Lt.	778	
	1189+00		1190+07		Rt.	109	
	1190+30		1190+75		Rt.	15	
	1190+98		1191+62		Rt.	66	
	1191+95		1192+75		Rt.	89	
	1192+96		1194+15		Rt.	145	
6 & 7	1194+71		1195+10		Rt.	47	Island
7	1195+20		1196+21		Lt.	157	
	1195+68		1195+86		Rt.	34	Island
	1196+70		1196+86		Rt	14	Island
	1196+70		1208+90		Lt.	585	
	1197+13		1197+43		Rt	37	Island
	1197+82		1198+16		Rt	46	Island
	1198+36		1198+55		Rt.	20	Island
	1198+95		1199+12		Rt.	12	Island
	1199+35		1199+67		Rt	57	Island
	1201+93		1208+67		Rt	131	
	1203+00		1203+63		Rt	126	
	1203+20		1204+83		Rt	235	
	1203+86		1204+78		Rt	168	
	1204+76		1207+91		Rt	1,2	Equal
	1205+00		1205+16		Rt	2	
7 & 8	1205+43		1207+13		Rt	2,0	Equal
8	1207+34		1208+23		Lt	2	
	1207+78		1208+77		Rt	58	
	1208+97		1209+		Lt	2	
	1209+00		1209+90		Rt	51	
	1209+20		1210+90		Rt	1,2	
	1210+2		1210+51		Rt	45	
	1210+70		1211+38		Rt	89	
	1211+13		1211+50		Rt	2	Island
	1211+65		1213+00		Rt	1,2	
	1212+00		1213+		Rt	2	

QUANTITIES VERIFIED

DATE | BY | SURVEYED | PLOTTED | TEMPLATE | AREAS CHECKED

FINAL SURVEY | NOTE BOOK | NO

ORIGINAL SURVEY | NOTE BOOK | NO

4-83

FINAL PLANS

STATE MO.	JOB NO 6-5-32-881	SHEET NO 2B
DIST NO 10	PROJECT NO	ROUTE 32
	COUNTY STE. GENEVIEVE	

SHEET 6 OF 6

SUMMARY OF QUANTITIES

SIGN	SIZE (INS)	AREA (SQ FT)	QTY	TOTAL AREA (SQ FT)	QTY. RELOC.	TOTAL RELOC. AREA (SQ FT)	DESCRIPTION
WARNING SIGNS							
WO1-1Lb	48x48	16.0					TURN (SYMBOL LEFT ARROW)
WO1-1Rb	48x48	16.0					TURN (SYMBOL RIGHT ARROW)
WO1-2Lb	48x48	16.0					CURVE (SYMBOL LEFT ARROW)
WO1-2Rb	48x48	16.0					CURVE (SYMBOL RIGHT ARROW)
WO1-3Lb	48x48	16.0					REVERSE TURN (SYMBOL LEFT ARROW)
WO1-3Rb	48x48	16.0					REVERSE TURN (SYMBOL RIGHT ARROW)
WO1-4Lb	48x48	16.0					REVERSE CURVE (SYMBOL LEFT ARROW)
WO1-4Lb2	48x48	16.0					DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT ARROWS)
WO1-4Rb	48x48	16.0					REVERSE CURVE (SYMBOL RIGHT ARROW)
WO1-4Rb2	48x48	16.0					DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT ARROWS)
WO1-6	48x24	8.0					HORIZONTAL ARROW (SYMBOL)
WO1-6a	72x36	18.0					HORIZONTAL ARROW (SYMBOL)
WO1-7	48x24	8.0					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
WO1-7a	72x36	18.0					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
WO1-8	16x24	3.0					CHEVRON (SYMBOL)
WO3-1b	48x48	16.0					STOP AHEAD
WO3-2b	48x48	16.0					YIELD AHEAD
WO3-3b	48x48	16.0					SIGNAL AHEAD (SYMBOL)
WO3-4b	48x48	16.0					BE PREPARED TO STOP
WO4-1Lb	48x48	16.0					MERGE (SYMBOL FROM LEFT)
WO4-1Rb	48x48	16.0					MERGE (SYMBOL FROM RIGHT)
WO5-1a	48x48	16.0					ROAD NARROWS
WO5-3a	48x48	16.0					ONE LANE BRIDGE
WO6-1b	48x48	16.0					DIVIDED HIGHWAY
WO6-2b	48x48	16.0					DIVIDED HIGHWAY ENDS
WO6-3b	48x48	16.0					TWO WAY TRAFFIC (SYMBOL)
WO6-3x	24x18	3.0					TWO WAY TRAFFIC (PLAQUE)
WO8-1b	48x48	16.0					BUMP
WO8-2b	48x48	16.0					DIP
WO8-3	48x48	16.0					PAVEMENT ENDS
WO8-4b	48x48	16.0					SOFT SHOULDER
WO8-5b	48x48	16.0					SLIPPERY WHEN WET (SYMBOL)
WO8-6b	48x48	16.0					TRUCK CROSSING
WO8-6c	48x48	16.0					TRUCK ENT. (Includes 1000 FT./1500 FT. plate W025-1a)
WO8-7a	36x36	9.0					LOOSE GRAVEL
WO8-9	48x48	16.0	18	288			LOW SHOULDER
WO8-9La	48x48	16.0					UNEVEN PAVEMENT (SYMBOL FOR LEFT DROPOFF)
WO8-9Ra	48x48	16.0					UNEVEN PAVEMENT (SYMBOL FOR RIGHT DROPOFF)
WO9-1R	48x48	16.0					RIGHT LANE ENDS (Includes LEFT/CENTER plate WO25-3c)
WO9-2Ra	48x48	16.0					LANE ENDS MERGE RIGHT (Includes LEFT plate WO25-3b)
W10-1a	42 Dia.	9.6					RAILROAD CROSSING
WO12-1	24x24	4.0					DOUBLE DOWN ARROW (SYMBOL)
WO12-2a	48x48	16.0					LOW CLEARANCE (SYMBOL)
WO12-2x	24x18	3.0					LOW CLEARANCE (PLAQUE)
WO12-3a,b	144x24	24.0					OVERHEAD LOW CLEARANCE (FEET AND INCHES)
WO13-1a	24x24	4.0					ADVISORY SPEED (PLAQUE)
WO20-1	48x48	16.0	15	240			ROAD CONST. AHEAD (Incl. RAMP/BRIDGE plate WO25-6)
WO20-2	48x48	16.0					DETOUR AHEAD (Includes 500 FT./1000 FT. plate WO25-1b)
WO20-3	48x48	16.0					RD. CLOSED AHEAD (Incl. 500 FT./1000 FT. plate WO25-1c)
WO20-4a	48x48	16.0	6	96			ONE LN. RD. AHD (Incl. 1000 FT./1500 FT. plate WO25-1a)
WO20-5	48x48	16.0					RT. LN. CLOSED AHEAD (Incl. LEFT/CENTER plate WO25-3d)
WO20-6a	48x48	16.0					RIGHT LANE CLOSED (Incl. LEFT/CENTER plate WO25-3c)
WO20-7a	48x48	16.0	7	112			FLAGMAN AHEAD (Incl. 500 FT./1000 FT. plate WO25-1b)
WO20-8	36x18	4.5					WORKERS AHEAD
WO20-9c	48x48	16.0	18	288			OPEN TRENCH
WO21-2b	48x48	16.0					FRESH OIL
WO21-5b	48x48	16.0	2	32			SHOULDER WORK AHEAD
WO21-7	36x36	9.0					SAND BLASTING
WO22-1	48x48	16.0					BLASTING ZONE 1000 FT.
WO22-2	42x36	10.5					TURN OFF 2-WAY RADIO
WO22-3	42x36	10.5					END BLASTING ZONE
WO25-1a	26x9						1000 FT./1500 FT. Plate
WO25-1b	38x9						500 FT./1000 FT. Plate
WO25-1c	34x9						500 FT./1000 FT. Plate
WO25-3b	30x9						LEFT Plate
WO25-3c	33x9						LEFT/CENTER Plate
WO25-3d	22x9						LEFT/CENTER Plate
WO25-5	30x12	2.5					1/2 MILE/1 MILE (PLAQUE)
WO25-6	28x9						RAMP/BRIDGE Plate
REGULATORY SIGNS							
R1-1b	48x48	16.25					STOP
R1-2a	48x48x48	6.93					YIELD
R1-3	20x9	1.25					4-WAY (PLAQUE)
R1-5	20x9	1.25					3-WAY (PLAQUE)
R2-1b	36x48	12.0	6	72			SPEED LIMIT XX 25 M.P.H.
R2-5	36x48	12.0					REDUCED SPEED AHEAD
R3-1b	36x48	12.0					NO RIGHT TURN
R3-2b	36x48	12.0					NO LEFT TURN
R3-3a	36x36	9.0					NO TURNS
R3-4b	36x48	12.0					NO U-TURN
R3-7L	30x30	6.25					LEFT LANE MUST TURN LEFT
R3-7R	30x30	6.25					RIGHT LANE MUST TURN RIGHT
R4-1b	36x48	12.0					DO NOT PASS
R4-2b	36x48	12.0					PASS WITH CARE
R4-7Lb	36x48	12.0					KEEP LEFT (HORIZONTAL ARROW)
R4-7Rb	36x48	12.0					KEEP RIGHT (HORIZONTAL ARROW)
R4-17L	36x36	9.0					KEEP LEFT
R4-17R	36x36	9.0					KEEP RIGHT
R5-1	30x30	6.25					DO NOT ENTER
R5-1a	36x24	6.0					WRONG WAY
R6-1La	48x18	6.0					ONE WAY ARROW (LEFT)
R6-1Ra	48x18	6.0					ONE WAY ARROW (RIGHT)
R6-2La	24x30	5.0					ONE WAY (LEFT)
R6-2Ra	24x30	5.0					ONE WAY (RIGHT)
R11-2	48x30	10.0					ROAD CLOSED
R11-3	60x30	12.5					ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60x30	12.5					ROAD CLOSED TO THRU TRAFFIC
R12-3b	36x36	9.0					TO ONCOMING TRAFFIC (PLAQUE)
R20-1	36x18	4.5					WHEN FLASHING
GUIDE SIGNS							
GO20-1	60x36	15.0					ROAD CONSTRUCTION NEXT XX MILES
GO20-2	60x24	10.0					END CONSTRUCTION
MO4-8a	30x15	3.13					DETOUR (PLAQUE)
MO4-9L	48x36	12.0					DETOUR (LEFT ARROW)
MO4-9R	48x36	12.0					DETOUR (RIGHT ARROW)
MO4-10L	48x18	6.0					DETOUR (ARROW LEFT)
MO4-10R	48x18	6.0					DETOUR (ARROW RIGHT)
MO4-11	24x18	3.0					DETOUR ENDS
M5-1L	21x15	2.19					ADVANCE LEFT TURN ARROW
M5-1R	21x15	2.19					ADVANCE RIGHT TURN ARROW
MISCELLANEOUS SIGNS							
616-10.05 CONSTRUCTION SIGNS TOTAL			1128				
616-10.10 RELOCATED SIGNS TOTAL							

ITEM NO.	SIZE (INS)	TOTAL QTY.	DESCRIPTION
616-10.20	36x18	145	CHANNELIZER (DRUM)
616-10.35	8x24		TYPE I BARRICADE (One Rails)
616-10.36	8x24		TYPE II BARRICADE (Two Rails)
616-10.40	36x72		FLASHING ARROW PANEL
616-10.45	18X18		TYPE I OBJECT MARKER
616-10.46	6x12		TYPE II OBJECT MARKER
616-10.47	8x24		TYPE III OBJECT MARKER
616-10.50	8		FLASHING ELECTRIC LIGHT
616-10.51	—		WARNING LIGHT TYPE A
616-10.52	—		WARNING LIGHT TYPE B
616-10.53	—		WARNING LIGHT TYPE C
616.10.54	—		STROBE LIGHT
616-10.60	—		RAISED PAVEMENT MARKER
616-10.70	28		FLEXIBLE DELINEATOR
612-10.30	72x144		MOVABLE BARRICADE (Three Rails)
612-90.10	48x96	4	GIVE EM A BRAKE
612-90.20	48x48	2	GIVE EM A BRAKE

FINAL SURVEY — NOTE BOOK — NO. — DATE — BY — SURVEYED — PLOTTED — TEMPLATE — AREA — AREAS CHECKED

ORIGINAL SURVEY — NOTE BOOK — NO. — DATE — BY — SURVEYED — PLOTTED — TEMPLATE — AREA — AREAS CHECKED

STATE	JOB NO.	SHEET NO.
MO	6-S-32-881	6
DIST NO.	PROJECT NO.	ROUTE
10	COUNTY STE. GENEVIEVE	32

Sur 3253
T-34N, R9E

UTILITIES:

POWER ~
Citizen Electric
Ste. Genevieve, Mo

GAS ~
Missouri Natural Gas
Farmington, Mo.

TELEPHONE ~
Southwestern Bell
Festus, Mo.

WATER ~
City of Ste. Genevieve
Ste. Genevieve, Mo.
(Unless otherwise noted)

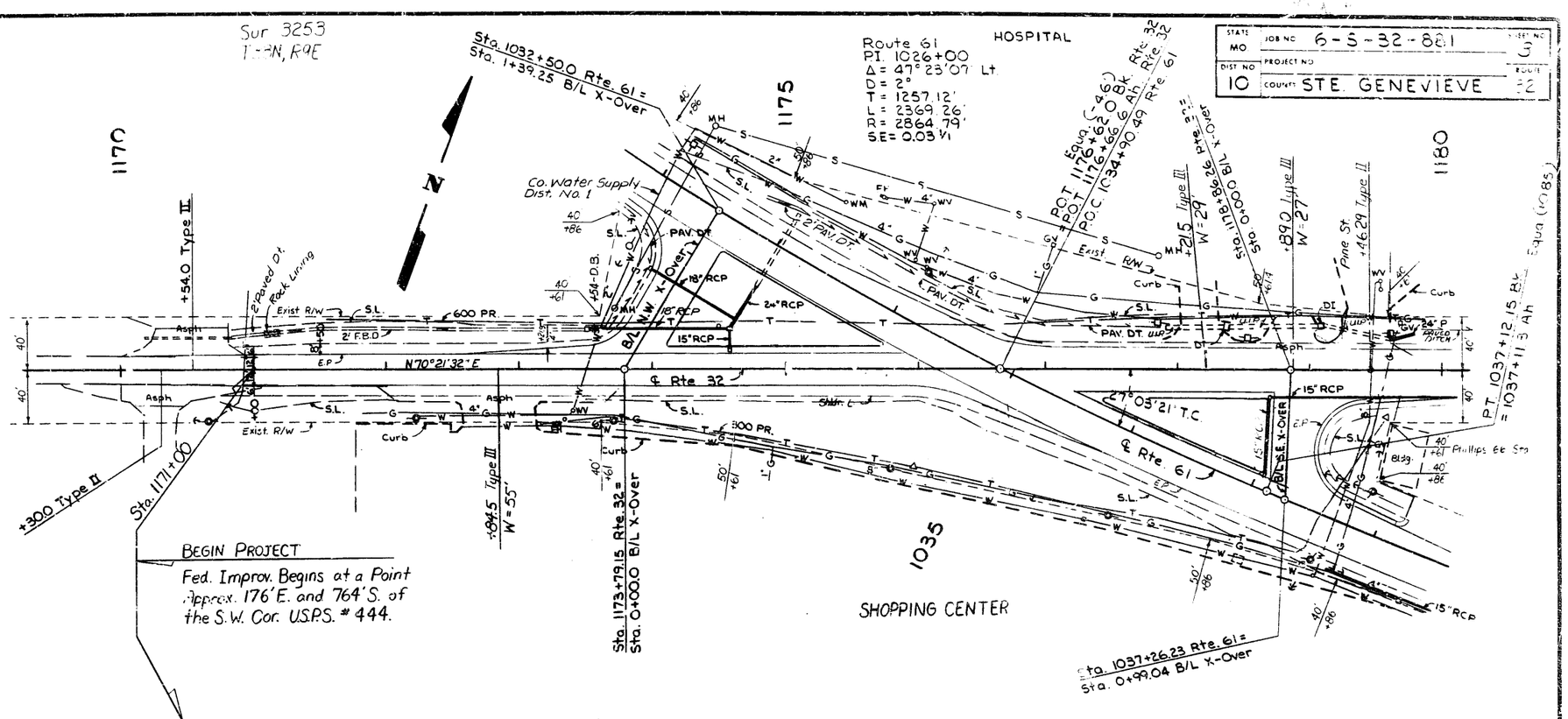
County Public Water Supply Dist. No. 1
Ste Genevieve, Mo.

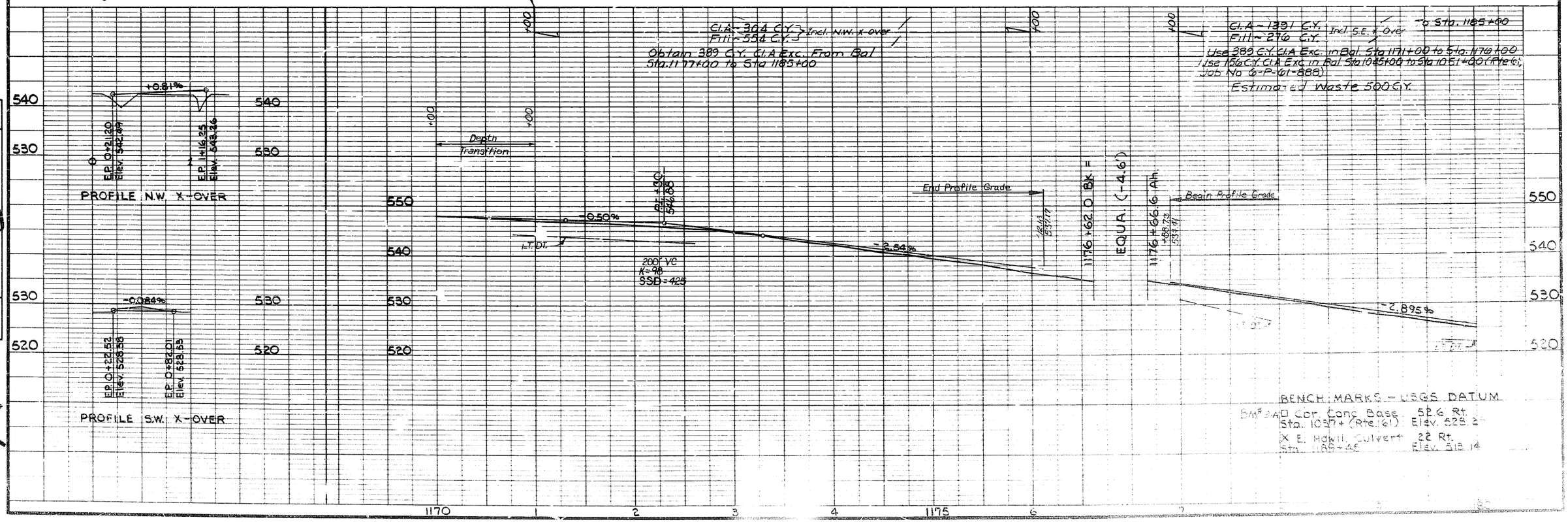
VIDEO ~
Falcon Cable & TV
Ste. Genevieve, Mo.

FINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TRACED — AREAS CHECKED — BY — DATE

NOTES:
No Direct Payment Will Be Allowed For Clearing And Grubbing On This Project.

Any Work Indicated On The Plans That Extends Beyond The Project Limits Is Considered Incidental To And A Part Of The Construction Of This Project.





Sur. 3253
T38N, R9E

STATE	JOB NO 6-S-32-881	SHEET NO
MO		4
DIST NO	PROJECT NO	ROUTE
10	COUNTY STE. GENEVIEVE	32

ROUTE 61

Route 61
P.I. 1026+00
Δ = 47°23'07" Lt.
D = 2°
T = 1257.12'
L = 2369.26'
R = 2864.79'
S.E. 0.03 ft/ft

Approx 487' from ℄ to S.W. cor. Sur. 444 — Sur. 3253

1025

1030

NOTE: Topog. on Left Side of Rte. 61 is Incomplete.

Exist. R/W — 40' — E.P. — W.V. — Triangle Dr. — 18" CMP — Stab. Shldr. — Curb — Grav. — Exist. Stab. Shldr. — ℄ Rte 61 — E.P. — Asph — Sign Posts — Close Ent. — PAVED DITCH

BEGIN WIDENING & RESURFACING
JOB No. 6-S-32-881
BEGIN EXCEPTION FOR
JOB No. 6-P-61-888

1023+89

±30 Type III W=50'
±88.5 Type III W=40'
±76.4 Type III W=28'
±23' Type III W=28'
±79 Type III W=28'
±22' Type III W=28'
±71 Type III W=28'
±600 Type III W=60'
±330 Type III W=60'

Cl. A ~ 138 ✓
Fill ~ 113 ✓

Cl. A ~ 210 ✓
Fill ~ 167 ✓

to 1034+25

1023+99 Begin Profile Grade

+1.97%

-1.85%

PI 1+48
Elev. 568.23

500' V.C.
K = 67
550.300'

RT DT

570
560
550
540

Bm #3-L BENCH MARKS – USGS DATUM
□ ON SIGN BASE 65' RT.
Sta. 1025+50 Elev. 565.95
Bm #3 □ Ctr. N. Hdwll. 26.8 Lt.
Sta. 1033+00 Elev. 540.05

1 2 3 4 1025 6 7 8 9 1030

FINAL SURVEY | NOTE BOOK | NO | SURVEYED | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED | BY | DATE

4-46-13

FINAL PLANS

STATE	JOB NO	SHEET NO
MO.	6-S-32-881	5
DIST NO	PROJECT NO	ROUTE
10	COUNTY STE. GENEVIEVE	32

ROUTE 61

Sur. 3253
T38N, R9E

Route 61
PI 1026+00
Δ = 47° 23' 07" Lt
D = 2°
T = 1257.12'
L = 2369.26'
R = 2864.79'
SE. 0.03½

1170 1175 1180 1035

HOSPITAL

SHOPPING CENTER

2" Paved Dt. Rock Lining
27' B.O.
Asph
600 PR.
Curb
4" G W
Asph
℄ Rte 32
Exist. R/W
Pav. Dt.
18" RCP
24" RCP
15" RCP
S.L.
Pav. Dt.
Curb
Exist. R/W
℄ Rte 61
27° 03' 21" T.C.
15" RCP
18" RCP
S.W. X-OVER
300 PR.
Curb
Phillips 66 Sta.
Exist. R/W
Curb
Asph
Pav. Dt.
Curb
Asph
Curb
Asph
Curb
Asph

Sur. 3253
T38N, R9E

STATE MO JOB NO. 6-S-32-881
DIST NO. PROJECT NO.
10 COUNTY STE GENEVIEVE 32

FINAL SURVEY | SURVEYED | PLOTTED | NOTE BOOK | TEMPLATE | AREAS | AREAS CHECKED | NO. | BY | DATE

1180 | 1185 | 1190

Doctors Office | +31.2 Type III W=28, 24"P | Bldg. | +91.5 Type III W=30, 24"P | Car Wash | +39.0 Type III W=35, 24"P | +49.5 Type III W=43, 24"P | +62.1 Type III W=60, 24"P | Auto Parts | +45.8 Type III W=60' | APCO Gas Sta. | Canopy | +45.8 Type III W=59 | Bldg. | +21.1 Type III W=59 | PC 1189+18.88 | 189+46.5 Elec. Line | 1190

Exist. R/W | Pav. Dt. | 24" RCP | Pav. Dt. | Curb | 24" RCP | Pav. Dt. 600 PR. | S.L. | GV | 24" RCP | Pav. Dt. | S.L. | Curb | 24" RCP | MH | Curb | WM | GV | Curb | S.L. | 2' PAV DT. | Exist. R/W | Asph | 24" RCP | 300 PR | 4' FBD

N10°21'32"E | ℄ Rte. 32

15" RCP | Type A C & G | Exist. R/W | Asph | 300 PR. | Curb | WM | Shell Gas Sta. | Canopy | +17.0 Type III W=49' | Wall | S.L. | 18" | MH | Shed | PAVED DITCH | Barley-Chase Car Dealership | +26.0 Type III W=35' 18"P | Canal | Wall | PAVED DITCH | 8" VCP | S.L. | Asph | Ho. | WM | Ho. | +18.0 Type I W=20' 18"P | +47.0 Type I W=20' | +85.5 Type III W=12' | First Financial Bank | +78.9 Type III W=31.5' | Asph | WM | Walk | Curb | +60.6 Type I W=28' | Chat | 18" P | Rock Lining | 15" CMP | Ho. & Beauty Shop | +16.5 Type I W=24' | Asph | Ho. | +86.0 Type I W~20' | Ho. | +82.6 Type II W=22' | S | Asph | Ave. 1's St. | Ho. | +94.5 Type I W=20' | Ho. | Exist. R/W | Asph | 24" RCP | 300 PR | 4' FBD

Phillips 66 Gas Sta. | +40.0 Type III W=60'

From 1177+09

Cl. A - 654 C.Y.
Fill - 99 C.Y.
Estimated Waste - 530 C.Y.

To Sta 1200+00

530 | 520 | 510

200' V.C. K~107 | 2.39% | Lt. Dt. | 1.02% | Rt. Dt. | Lt. Dt. | 160' V.C. K~201 | 100' V.C. K~211 | 50' V.C. K~250 | .225% | Lt. Dt. | .45% | .55%

P.I. 1181+60.00 Elev. 520.77

P.I. 1187+60.00 Elev. 514.65

P.I. 1190+00.00 Elev. 514.11

P.I. 1198+00.00 Elev. 514.61

BENCH MARKS - USGS DATUM
Sta. 1189+4[illegible] Elev.

1180 | 1 | 2 | 3 | 4 | 1185 | 6 | 8 | 9 | 1190

#48195

STATE MO.	JOB NO 6-S-32-881	SHEET NO 7
DIST NO 10	PROJECT NO	ROUTE 32
	COUNTY STE. GENEVIEVE	

Sur. 3253
T38N, R9E

Sur. 444
T38N, R9E

ROUTE 32
PI. 1199+44.93
Δ = 79°46'17" Lt.
D = 4°40'
T = 1026.05'
L = 1709.39'
R = 1227.77'
See Typ. Sec. Sh. 4 of 6
For S.E.

PT. 1206+28.27 Bk. = EQUA. (-50.61')
1206+78.88 Ah.

1st Federal
S&L

American Legion Bldg.

First Settlement Ford Dealership

Okenfuss Chpr. Bldg.

Realm WM Bldg.

Outdoor Equip. Bldg.

Guy Pole

Scheaf Tire Bldg.

Beauty Shop

K&M Bldg.

Pharmacy

Rozier St.

Linn St.

Ho.

Walk

Curb

Exist. R/W

S.L.

℄ Rte. 32

SIGN

MH

GV

WM

Asph

Conc

UIP

Type A C&G

600 PR.

350 PR.

300 PR.

3' FBD

8-4 CMP

24" RCP

18" RCP

15" CMP

12" CMP

15" RCP

+22.2 Type III W=27'

+83.0 Type III W=37'

+22.6+9 Type II W=36'

+42.5 Type III W=55'

+62 Type III W=60'

+32.96 Type II W=

+54.3 Type III W=31'

+79.2 Type III W=28'

+14.5 Type III W=40'

+30.1 Type III W=20'

+61.0 Type III W=42'

+11.1 Type III W=25'

+81.0 Type III W=45'

+41.5 Type III W=45'

+101.2 Type III W=45'

+61.4 Type III W=48'

+79.37 Type II W=35'

+22.0 Type I W=20'

+61.5 Type I W=20'

+20.33 Type I W=16'

+72.8 Type I W=20'

Sur. 3253

Sur. 444

From Sta. 1197+00

Cl. A ~ 629 C.Y.
Fill ~ 90 C.Y.
Estimated Waste 509 C.Y.

Cl. A ~ 577 C.Y.
Fill ~ 155 C.Y.
Estimated Waste ~ 383 C.Y.

100' VC
K=667

100' VC
K=154

120' VC
K=168

120' VC
K=105

200' VC
K=135
SSD=215

90' VC
K=180
SSD=1375

+0.45%
+0.60%
+0.10%
+0.75
+1.50%
+2.64%
-3.10%

RT. DT.
LT. DT.

P.I. 1195+40.00
Elev. 515.96

P.I. 1198+28.3
Elev. 516.97

P.I. 1199+58.81
Elev. 519.01

P.I. 1201+38.16
Elev. 519.36

P.I. 1202+74.41
Elev. 520.40

P.I. 1203+20.00
Elev. 527.05

530
520
510

1195
1200
1205

BENCH MARKS – USGS DATUM
Bm #4 - 30" in LITE POLE 40' RT.
Sta. 1194+10 Elev. 517.70
□ Ctr. S. End Walk 40.5' Lt.
Bm #6 Sta. 1203+09.7 Elev. 525.65

FINAL SURVEY | SURVEYED | PLOTTED | NOTE BOOK | TEMP. ATE. | AREAS | NO. | AREAS CHECKED | BY | DATE

FINAL PLANS

STATE	JOB NO 6-S-32-881	SHEET NO
MO.		8
DIST NO	PROJECT NO	ROUTE
10	COUNTY STE. GENEVIEVE	32

Sur. 444
T38N, R9E

N

1210

1215

+00

+33.72

Sta. 1214+33.72

END PROJECT
Fed. Improv Ends at a point approx. 321' W. and 111' S. of the N.E. cor. U.S.P.S. 444

P.I. 1214+63.75
Δ = 3°43'45" Rt.
No Curve

Sur. 444
Sur. 283

Rte. 32
N9°24'45"W

Cedar Lane

Gerard St.

St. Joseph St.

300 PR.

Rock Lining

Existing Conc

Existing Asph

Existing Wall

Existing Guy Pole

Existing Drain

Existing Walk

Existing Float

Existing S.L.

Existing Fire Hydrant

Existing Manhole

Existing Water Meter

Existing Water Valve

Existing Gate Valve

Existing Catch Basin

Existing Curb Inlet

Existing Rock Lining

Existing Ho.

Existing Guard Rail

Existing Fence

Existing Utility Pole

Existing Gas Valve

Existing Gas Meter

Existing Telephone Pedestal

Existing Telephone Manhole

Existing Telephone Booth

Existing Telephone Riser

Existing Telephone Pole

Existing Telephone Line

Existing Telephone Cable

Existing Telephone Conduit

Existing Telephone Duct

Existing Telephone Vault

Existing Telephone Switch

Existing Telephone Box

Existing Telephone Terminal

Existing Telephone Splice

Existing Telephone Closure

Existing Telephone Amplifier

Existing Telephone Repeater

Existing Telephone Coil

Existing Telephone Loading Coil

Existing Telephone Load Coil

Existing Telephone Pupin Coil

Existing Telephone Pupin Box

Existing Telephone Pupin Case

Existing Telephone Pupin Unit

Existing Telephone Pupin Set

Existing Telephone Pupin Station

Existing Telephone Pupin Office

Existing Telephone Pupin Exchange

Existing Telephone Pupin Trunk

Existing Telephone Pupin Line

Existing Telephone Pupin Circuit

Existing Telephone Pupin Channel

Existing Telephone Pupin Carrier

Existing Telephone Pupin Multiplex

Existing Telephone Pupin Demultiplex

Existing Telephone Pupin Modulator

Existing Telephone Pupin Demodulator

Existing Telephone Pupin Repeater

Existing Telephone Pupin Amplifier

Existing Telephone Pupin Coil

Existing Telephone Pupin Loading Coil

Existing Telephone Pupin Load Coil

Existing Telephone Pupin Box

Existing Telephone Pupin Case

Existing Telephone Pupin Unit

Existing Telephone Pupin Set

Existing Telephone Pupin Station

Existing Telephone Pupin Office

Existing Telephone Pupin Exchange

Existing Telephone Pupin Trunk

Existing Telephone Pupin Line

Existing Telephone Pupin Circuit

Existing Telephone Pupin Channel

Existing Telephone Pupin Carrier

Existing Telephone Pupin Multiplex

Existing Telephone Pupin Demultiplex

Existing Telephone Pupin Modulator

Existing Telephone Pupin Demodulator

+28.0 Type I W=20'

120'+89.5-Ext. 24" C.M.P. U.I.P. & Extend W/28 C.M.P.

+38.5 Type I W=20'

120'+99-Ext. 18" R.C.P. U.I.P. & Extend R.-14/18" R.C.P. Remove 10' L.-

+106.6 Type I W=20'

+90.4 Type I W=20'

+72.0 Type I W=15'

+50.5 Type I W=17'

+63.2 Type II W=22' 15" R.

+84.5 Type I W=20' 15" R.

+101.4 Type I W=20'

+160.2 Type I W=20'

+113.0 Type I W=20'

+45.26 Type II W=24'

+119.2 Type I W=20'

+129.2 Type I W=20'

Ch. A-278 C.Y. /
Fill-102 C.Y. /
Estimated Waste-166 C.Y.

450' V.C.
K-76

175' V.C.
K-26
SSD = 185'

PI +7.50
528.60

PI 7+33.60
516.00

+2.65%

-3.99%

DEPTH TRANSITION 100'

RT. D1.

RT. D1.

530
520
510

7 8 9 1210 1 2 3 4 1215

BENCH MARKS - USGS DATUM

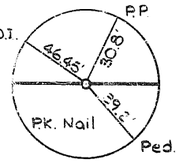
BM # 7 ☐ Ctr. W. End Walk 28.0' Rt.
Sta. 1211+56 Elev. 526.90

BM # 8 ☐ End Walk 17.5' Rt.
Sta. 1217+72 Elev. 510.25

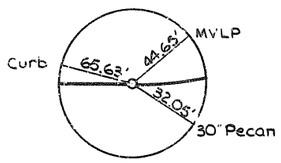
FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL PLANS

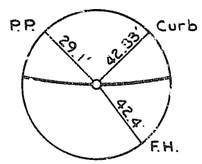
STATE MO.	JOB NO. 6-S-32-881	SHEET NO. 9
DIST. NO. 10	PROJECT NO.	ROUTE 32
	COUNTY STE. GENEVIEVE	



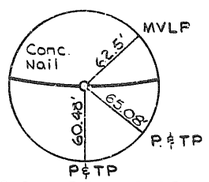
P.O.T. 1179+46.29



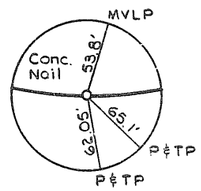
P.C. 1189+18.88



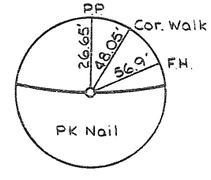
P.O.C. 1191+82.64



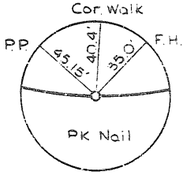
P.O.C. 1196+22.69



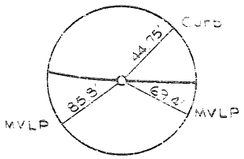
P.O.C. 1196+32.96



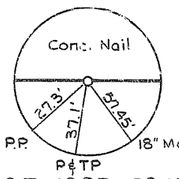
P.O.C. 1202+79.37



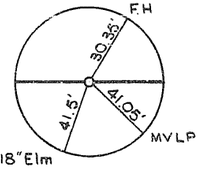
P.O.C. 1203+13.26



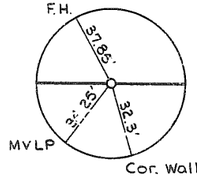
P.T. 1206+28.27 BK.
= 1206+78.88 AH.



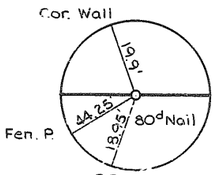
P.O.T. 1207+58.13



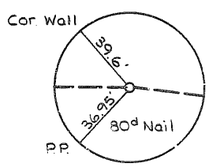
P.O.T. 1210+98.58



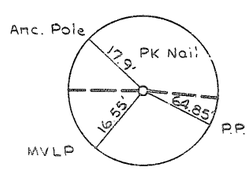
P.O.T. 1211+45.26



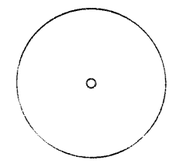
P.O.T. 1214+3[illegible].72

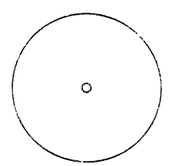


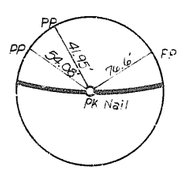
P.I. 1214+63.75



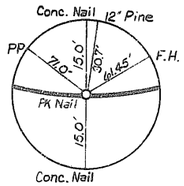
P.I. 1217+10.84



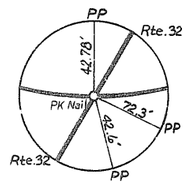




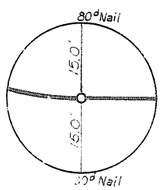
P.O.C. 1022+99.21
Rte. 61



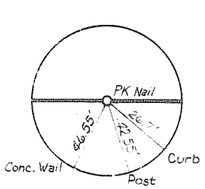
P.O.C. 1028+00.00
Rte. 61



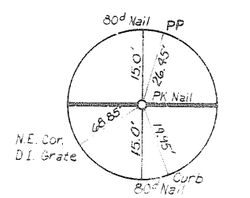
P.O.C. 1034+90.50 Rte. 61=
P.O.T. 1176+62 BK=1176+66.6 AHD.
Rte. 32



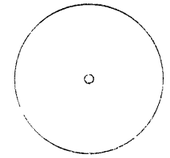
P.T. 1037+12.15 BK=1037+11.3 AHD.
Rte. 61

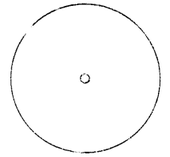


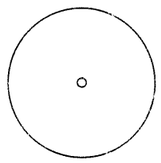
P.O.T. 1038+94.78
Rte. 61

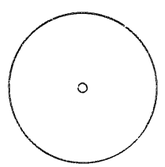


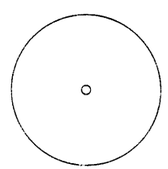
P.O.T. 1050+11.80
Rte. 61

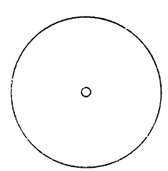


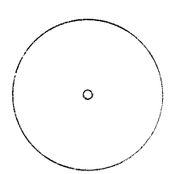


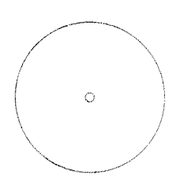


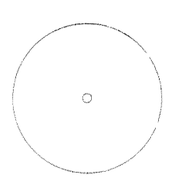


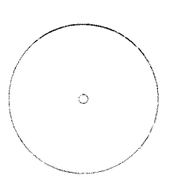


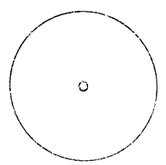


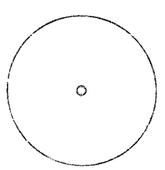


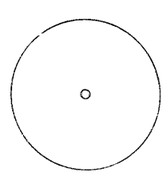


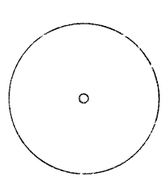


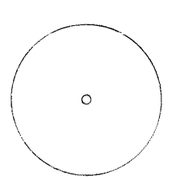


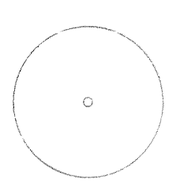


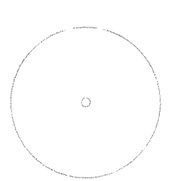


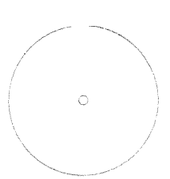






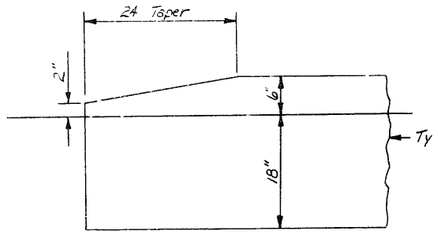




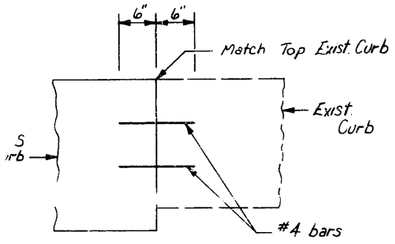


REFERENCED POINTS

STATE MO. JOB NO 6-S-32-881 SHEET NO 10
DIST NO 10 PROJECT NO COUNTY STE. GENEVIEVE ROUTE 32

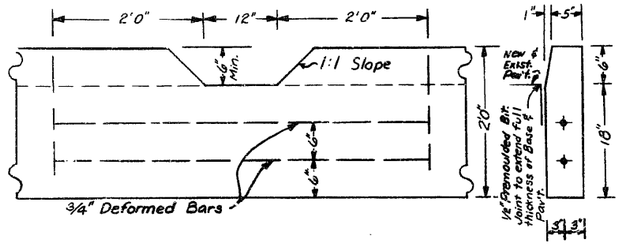


END TAPER FOR TYPE S CONCRETE CURB



TIE NEW CURB TO EXIST. CURB

The Cost of This Work Included in the Cost of Type "S" Curb per Linear Ft.

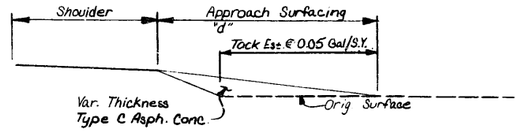


The Cost of this Work included in the Cost of Type "S" Curb per linear ft.

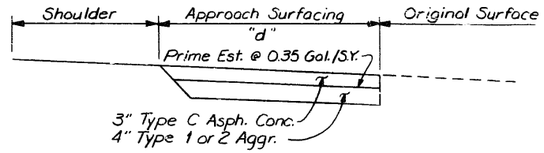
TYPICAL SECTION

Note: Drainage Notches to be constructed in Type "S" Conc. Curb as directed by Engineer

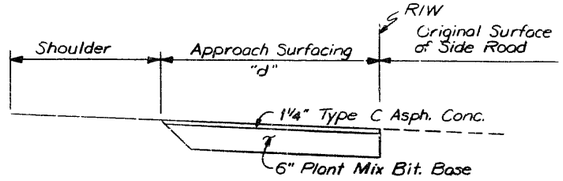
DRAINAGE NOTCH FOR TYPE S CONCRETE CURB
(Not to Scale, follow dimensions)



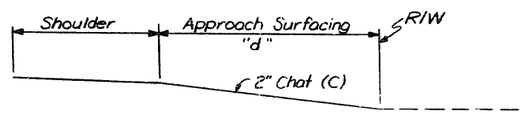
Type A Surface



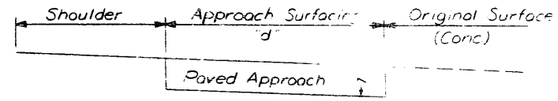
Type B Surface



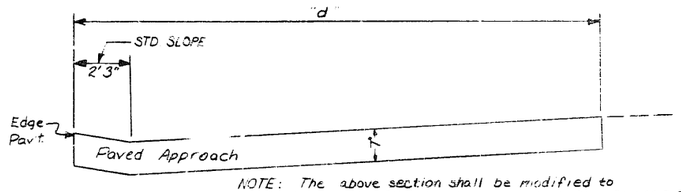
Type C Surface



Type D Surface

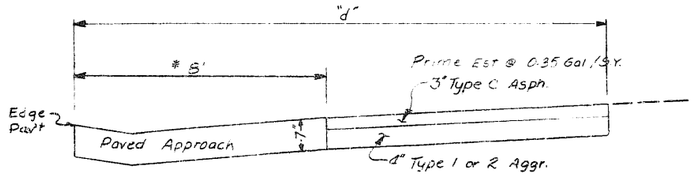


Type E Surface



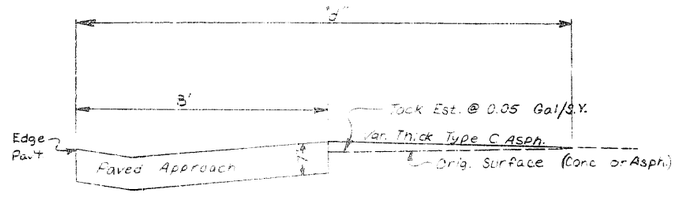
NOTE: The above section shall be modified to eliminate the "dip" for the approach at Sta. 1211+44.5 Rt.

Type F Surface

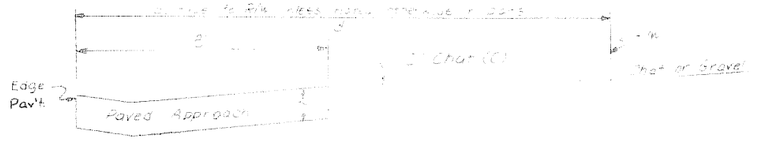


* Use 10' Width on Type III Approach

Type G Surface

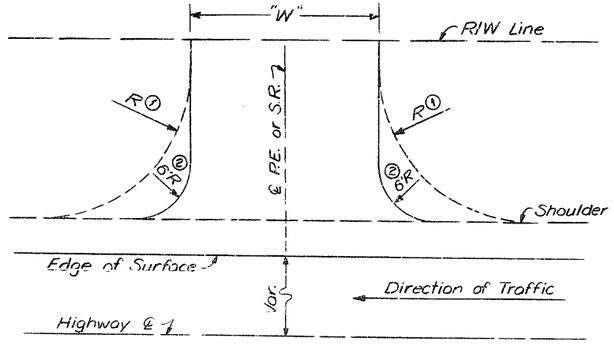


Type H Surface



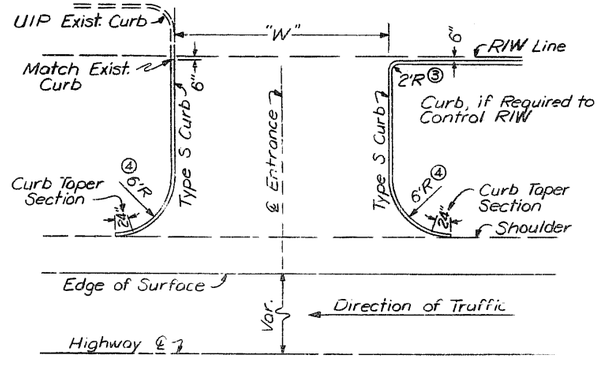
Type I Surface

Notes:
① Type I & II See Approach Detail Sheets
② Type I 6'R in Std. Shldr. Section
5'R in Curb & Gutter Section
(Unless Otherwise Specified)



PLAN VIEW TYPE I & II APPROACHES

Notes:
③ Unless Otherwise Specified
④ Type III 6'R in Std. Shldr. Section
7'R in Curb & Gutter Section
(Unless Otherwise Specified)



PLAN VIEW TYPE III APPROACHES

FINAL SURVEY — SURVEYED — BY — DATE — NOTE BOOK — PLANIMETER AREAS — AREAS CHECKED — NO.

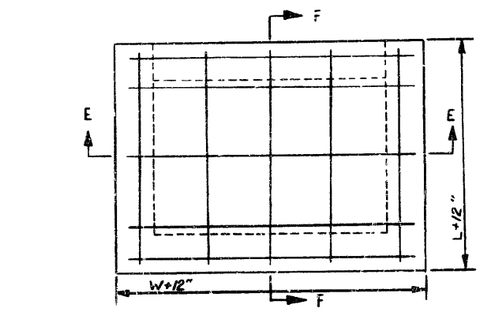
ORIGINAL SURVEY — SURVEYED — BY — DATE — NOTE BOOK — PLANIMETER AREAS — AREAS CHECKED — NO.

8-20-74

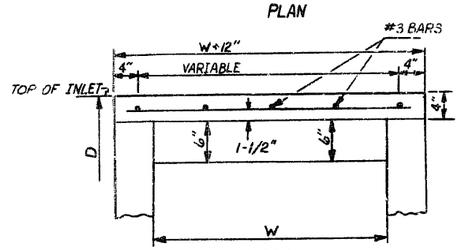
FINAL PLANS

STATE	JOB NO	SHEET NO
MO	G-5-32-881	11
DIST NO	PROJECT NO	ROUTE
10	COUNTY STE. GENEVIEVE	32

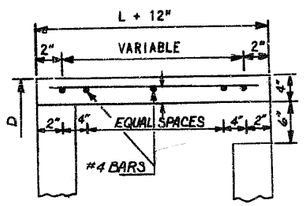
RTE G1



PLAN



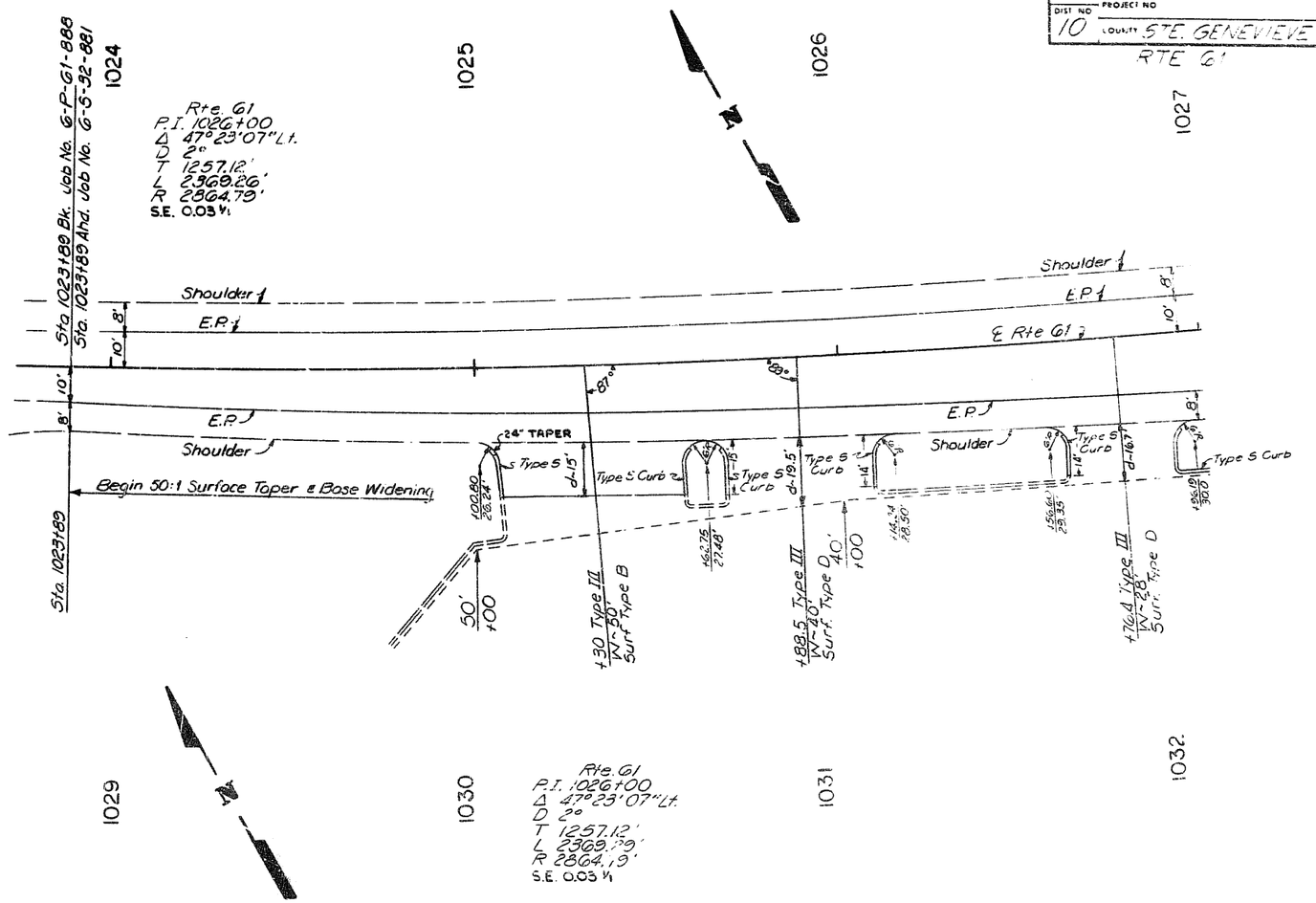
SECTION E-E



SECTION F-F

Note:
See Standard Drawing 731.10
Type E Modified to a 6" Spillway

TYPE E-M


1024
1025
1026
1027
1028
1029
1030
1031
1032
Rte. G1
P.I. 1026+00
Δ 47° 23' 07" Lt.
D 2°
T 1257.12'
L 2369.26'
R 2864.79'
S.E. 0.03 ft
Rte. G1
P.I. 1026+00
Δ 47° 23' 07" Lt.
D 2°
T 1257.12'
L 2369.39'
R 2864.19'
S.E. 0.03 ft
Sta. 1023188 Bk. Job No. 6-P-61-888
Sta. 1023189 Ahd. Job No. 6-5-32-881
Sta. 1023189
Shoulder
E.P.
℄ Rte G1
Begin 50:1 Surface Taper & Base Widening
24" TAPER
Type S Curb
d-15"
d-19.5'
d-16"
d-14"
d-16"
Type S Curb
Type S Curb
Type S Curb
Type S Curb
Type S Curb
Type S Curb
87°
89°
8'
10'
100.00 28.24
146.75 27.48
156.46 28.35
+30 Type III W-30' Surf. Type B
+88.5 Type III W-40' Surf. Type D
+76.4 Type III W-28' Surf. Type D
40' +100
30' +00
NOTE: Type S Curb Is Offset 2' From Edge Of Shldr.
(Sta. 1024+00 to Sta. 1032+00)
℄ Rte. 61
E.P.
Shoulder
8'
10'
Type S Curb
d-15.8'
d-14.9'
d-14.0'
d-13.0'
d-11'
+103.67 30.28'
+142.29 31.08'
+153.82 31.28'
+192.18 32.08'
+202.22 32.26'
+141.77 33.08'
+151.23 33.24'
+209.77 34.04'
+244.49 34.71'
+195.55 36.13'
+137.46 36.97'
+23.1
+23.1
+23.1

STATE MO.	JOB NO 6-S-32-881	SHEET NO 12
DIST NO 10	PROJECT NO COUNTY STE GENEVIEVE	ROUTE 32

Tack Est. At 0.05 Gal./S.Y.

1170+00 — Var. Type C Asph. Conc. — 1171+00 — New Pav't.

Exist. Surf.

RESURFACING DEPTH AND WIDTH TRANSITION

(Not To Scale)

Note:
See Special Sheet No. 4 for Sta. 1174+ thru 1179+

1170 1171 1172 1173 1174

Match Exist. Surf.

+54.0 Type III Surf. Type A

+82 Begin Stabilized Shldr. And Base Widening

Exist. R/W

Shldr. Line

8IL. N.W. K-Over

18" R.C.P.

+515-29.0' 3'x2' DI Type E

560.0' +53.4

57.91' +49.2

40' +6.1

40'R

54°19' Pav't Trans.

Exist. E.P.

U.I.P.

d~20'

+00

N 70°21'32" E

8' +50

E.P.

12' +61.9

20' +21.9

18' +51.9

12'

8'

+00

Exist. E.P.

d~15'

U.I.P.

U.I.P.

E.P.

Shldr. Line

Exist. Curb U.I.P.

Exist. R/W

+70 Begin Stabilized Shldr. And Base Widening

+30.0 Type II Surf. Type A

+84.5 Type III W~55' Surf. Type A

Exist. R/W

Exist. Curb U.I.P.

40' +6.1

Sta. 1173+79.15 = Sta. 0+00 B/L

1179 1180 1181 1182 1183 1184 1185

+46.29 Type II Pine Dr. Surf. Type C

40' +6.1

14.5'R

7'R

19'R

24" CMP

S Curb

Type S Curb

U.I.P.

d~19.5'

Exist. R/W

Exist. Curb U.I.P.

+31.2 Type III W~28', 24"P Surf. Type B

+91.5 Type III W~30', 24"P Surf. Type B

+39.0 Type III W~35', 24"P Surf. Type B

+19.5 Type III W~43', 24"P Surf. Type B

+62.1 Type III W~60', 24"P Surf. Type B

TYPE S CURB

24" TAPER

24" RCP

d~14.5'

Shldr.

E.P.

16.5'

+12.2

+81.5

℄ Rte. 32

N 70°21'32"E

+41.7

+03.0

+31.7

+72.0

+86.0

E.P.

Type A Curb & Gutter

15" RCP

Type A Curb & Gutter 7'R

24" Taper 2'R

d~23.5'

Shldr. Line

Type S Curb 2'R

Exist. R/W

Type "S" Curb 2'R

24" TAPER

d~18'

18"P

+46.0

+98.0

+99.0~20.2' 2'x2' DI. Type D

+40.0 Type III W~90' Surf. Type G

+81.0~18.0 2'x2' DI. Type D

+17.0 Type III W~44' Surf. Type B

+36.0 Type III W~38', 18"P Surf. Type B

STORM SEWER & APPROACH DETAIL
SPECIAL SHEET NO. 3

0 10'
Graphic Scale

FINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — DATE — BY

ORIGINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — DATE — BY

FINAL PLANS

STATE	JOB NO	SHEET NO
MO.	S-S-32-88	13
DIST. NO	PROJECT NO	ROUTE
10	COUNTY STE GENEVIEVE	32

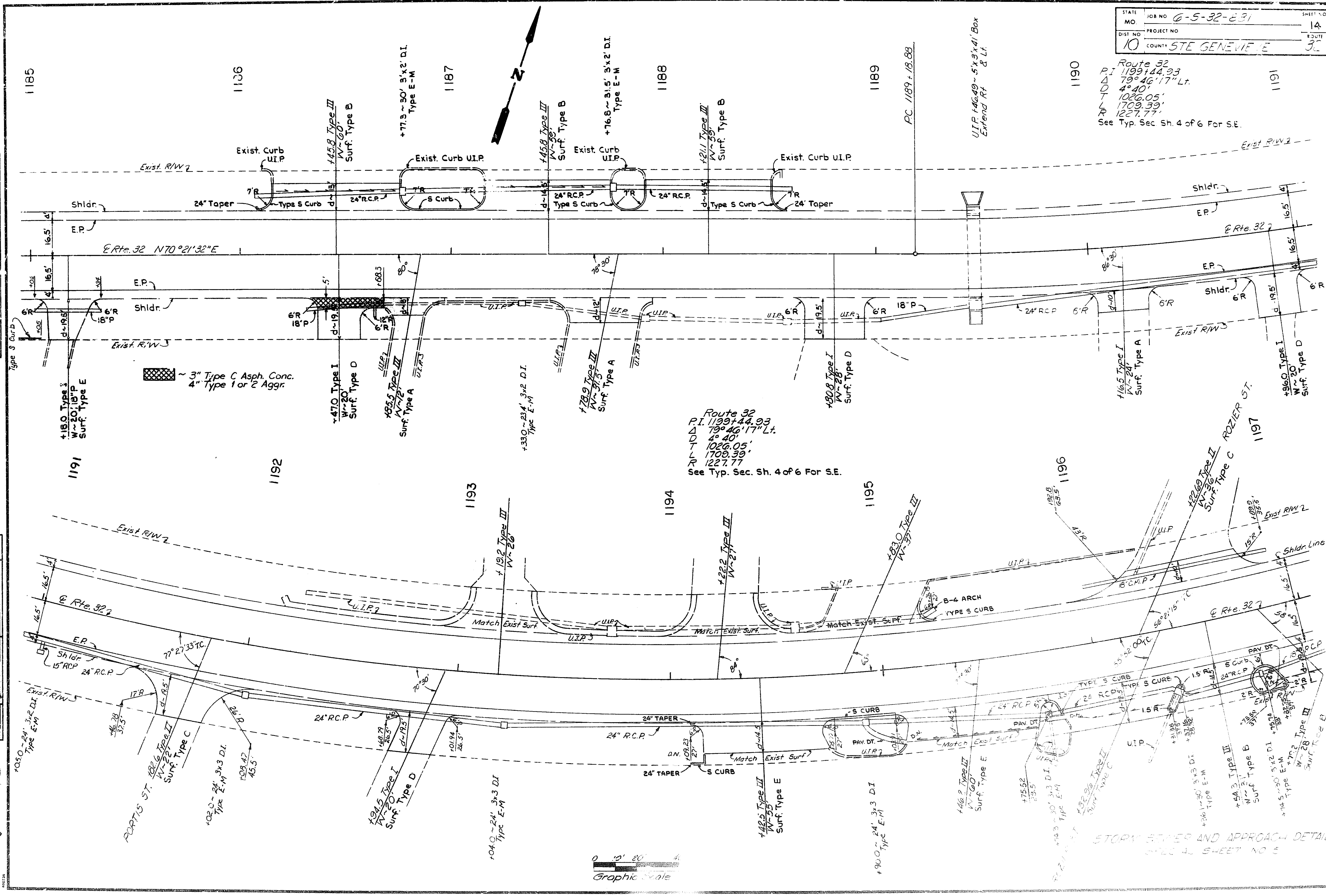
Rte. G1
P.I. 1026+00
Δ 47°23'07" Lt.
D 2°
T 1257.12'
L 2369.26'
R 2864.79'
S.E. = 0.03 ft

Sta. 1032+30.0
Sta. 1133.25 B/L

Sta. 1176+62.0 Bk. =
Sta. 1176+66.6 Ahd. Rte. 32
Sta. 1034+30.5 Rte. G1

1033 1034 1035 1036 1037 1174 1175 1176 1177 1178 1179

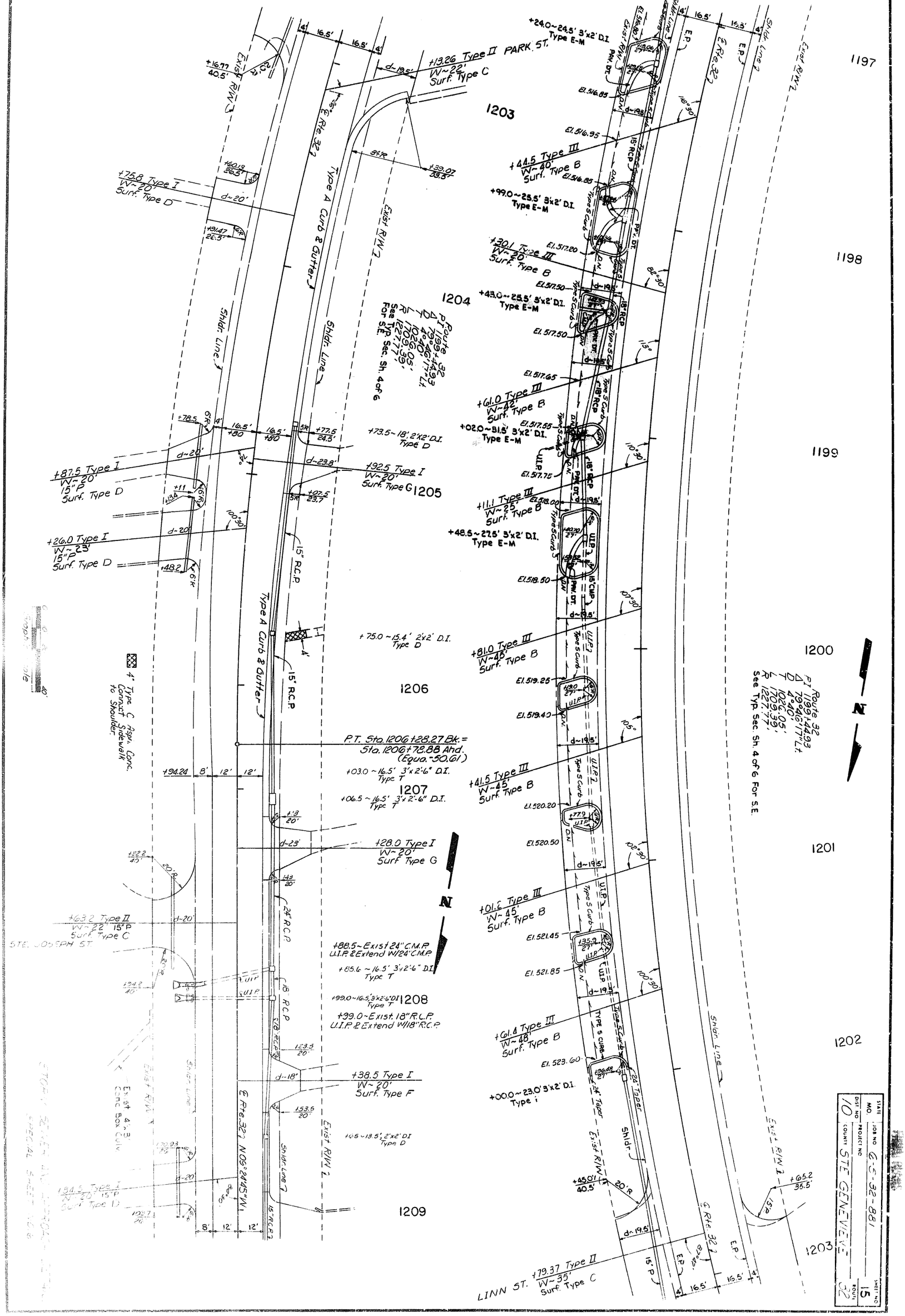
℄ Rte G1
Shldr. Line
Begin Base Widening
+1446.9
+1668.22 27'
+1668.22 27'
+1668.22 27'
+1668.22 27'
+1025 136.5'
+1669 28'
+1669 28'
+1669 28


FINAL PLANS
STATE MO.
JOB NO 6-5-32-E31
SHEET NO 14
PROJECT NO
DIST NO 10
COUNTY STE GENEVIEVE
ROUTE 32
Route 32
P.I. 1199+44.93
Δ 79°46'17" Lt.
D 4°40'
T 1026.05'
L 1709.39'
R 1227.77'
See Typ. Sec. Sh. 4 of 6 For S.E.
1185
1186
1187
1188
1189
1190
1191
1192
1193
1194
1195
1196
1197
N
℄ Rte. 32 N70°21'32"E
PC 1189+18.88
+77.3 ~ 30' 3'x2' D.I. Type E-M
+76.8 ~ 31.5' 3'x2' D.I. Type E-M
U.I.P. +46.49 ~ 5'x3'x41' Box Extend Rt & Lt.
+45.8 Type III W~60' Surf. Type B
+45.8 Type III W~59' Surf. Type B
+21.1 Type III W~59' Surf. Type B
Exist. Curb U.I.P.
Exist. R/W
Shldr.
E.P.
24" Taper
Type S Curb
24" R.C.P.
S Curb
7'R
24' Taper
+18.0 Type I W~20', 18"P Surf. Type E
+47.0 Type I W~20' Surf. Type D
+85.5 Type III W~12' Surf. Type A
+33.0 ~ 23.4' 3x2 D.I. Type E-M
+78.9 Type III W~31.5' Surf. Type A
+80.8 Type I W~28' Surf. Type D
+16.5 Type I W~24' Surf. Type A
+96.0 Type I W~20' Surf. Type D
~ 3" Type C Asph. Conc. 4" Type 1 or 2 Aggr.
Type S Curb
6'R
18"P
12"P
80°
78°30'
86°30'
U.I.P.
Exist R/W
+05.0 ~ 24' 3x2 D.I. Type E-M
PORTIS ST. +82.6 Type II W~22' Surf. Type C
+02.0 ~ 24' 3x3 D.I. Type E-M
+94.5 Type I W~20' Surf. Type D
+04.0 ~ 24' 3x3 D.I. Type E-M
+42.5 Type III W~55' Surf. Type E
+90.0 ~ 24' 3x3 D.I. Type E-M
+19.2 Type III W~26'
+22.2 Type III W~27'
+83.0 Type III W~37'
+22.69 Type II W~36' Surf. Type C
ROZIER ST.
+46.2 Type III W~60' Surf. Type E
+32.96 Type II Surf. Type C
+54.3 Type III W~31' Surf. Type B
+74.5 ~ 30' 3'x2' D.I. Type E-M
+70.2 Type III W~28' Surf. Type B
77°27'33" T.C.
70°30'
84°
63°
56°21'15" T.C.
55°52'00" T.C.
58°
15"RCP
24" R.C.P.
17'R
26'R
43'R
15'R
Match Exist Surf.
24" TAPER
S CURB
D.N.
PAV. DT.
B-4 ARCH
TYPE S CURB
18" C.M.P.
Shldr. Line
1.5'R
2'R
Graphic Scale
STORM SEWER AND APPROACH DETAIL SPECIAL SHEET NO 5
FINAL SURVEY
ORIGINAL SURVEY
456

457 199

ORIGINAL SURVEY		BY	DATE
	SURVEYED		
NOTE BOOK	PLOTTED		
	TEMPLATE		
NO.	AREAS		
	AREAS CHECKED		

FINAL SURVEY		BY	DATE
	SURVEYED		
NOTE BOOK	PLOTTED		
	TEMPLATE		
NO.	AREAS		
	AREAS CHECKED		



STATE MO. JOB NO. G-S-32-88I
DIST. NO. PROJECT NO.
COUNT STE GENEVIEVE
ROUTE 32
SHEET NO. 15

STATE MO	JOB NO 6-5-32-881	SHEET NO 16
DIST NO 10	PROJECT NO	ROUTE 32
	COUNTY STE. GENEVIEVE	

RESURFACING DEPTH TRANS.
NOT TO SCALE

Graphic Scale 0 20' 40'

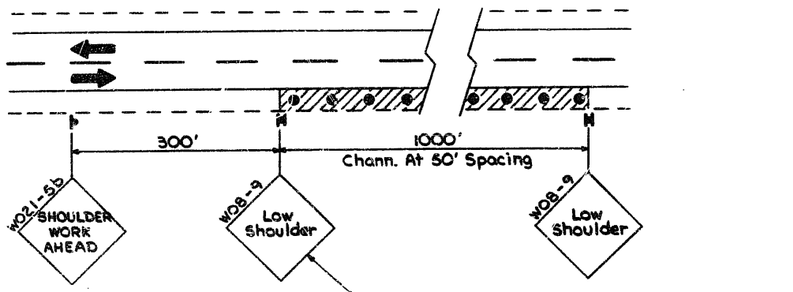
STORM SEWER AND APPROACH DETAIL
SEE SHEET NO. 7

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	AREAS CHECKED		

458

STATE MO	JOB NO 6-S-32-881	SHEET NO 17
DIST NO 10	PROJECT NO	ROUTE
	COUNTY STE. GENEVIEVE	32

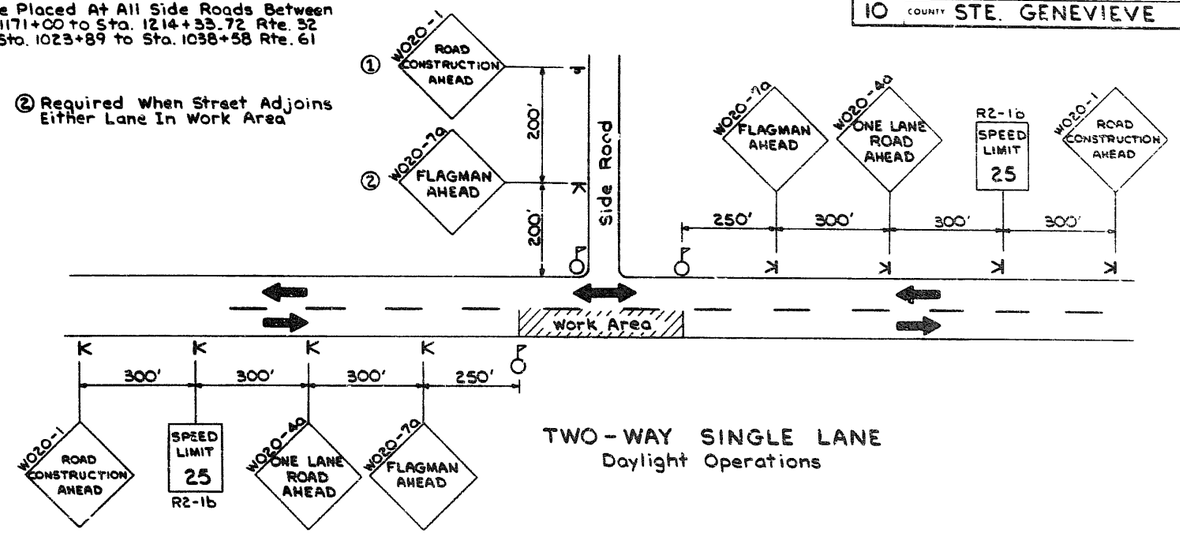


LOW SHOULDER
Two-Way Traffic

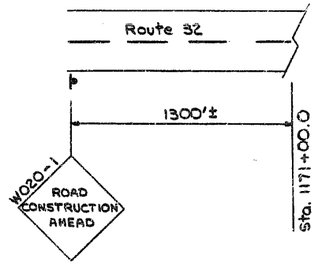
This Sign Is Used When The Elevation Between Pavement And Shoulder Is 2 To 4 Inches. Working Hours And Non-Working Hours

① To Be Placed At All Side Roads Between Sta. 1171+00 to Sta. 1214+33.72 Rte. 32 And Sta. 1023+89 to Sta. 1058+58 Rte. 61

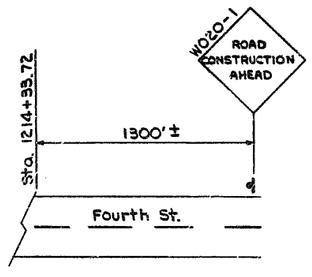
② Required When Street Adjoins Either Lane In Work Area



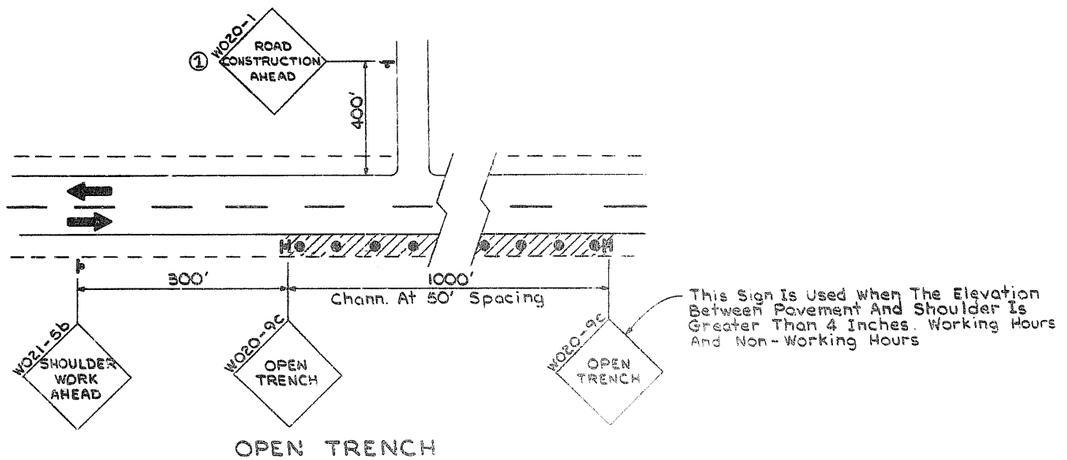
TWO-WAY SINGLE LANE
Daylight Operations



BEGIN PROJECT
Route 32



END PROJECT
Route 32



OPEN TRENCH
Two-Way Traffic

LEGEND
- Non-Portable Sign
- Portable Sign
- Flagman
- Channelizer

Drawing Not To Scale - Follow Dimensions

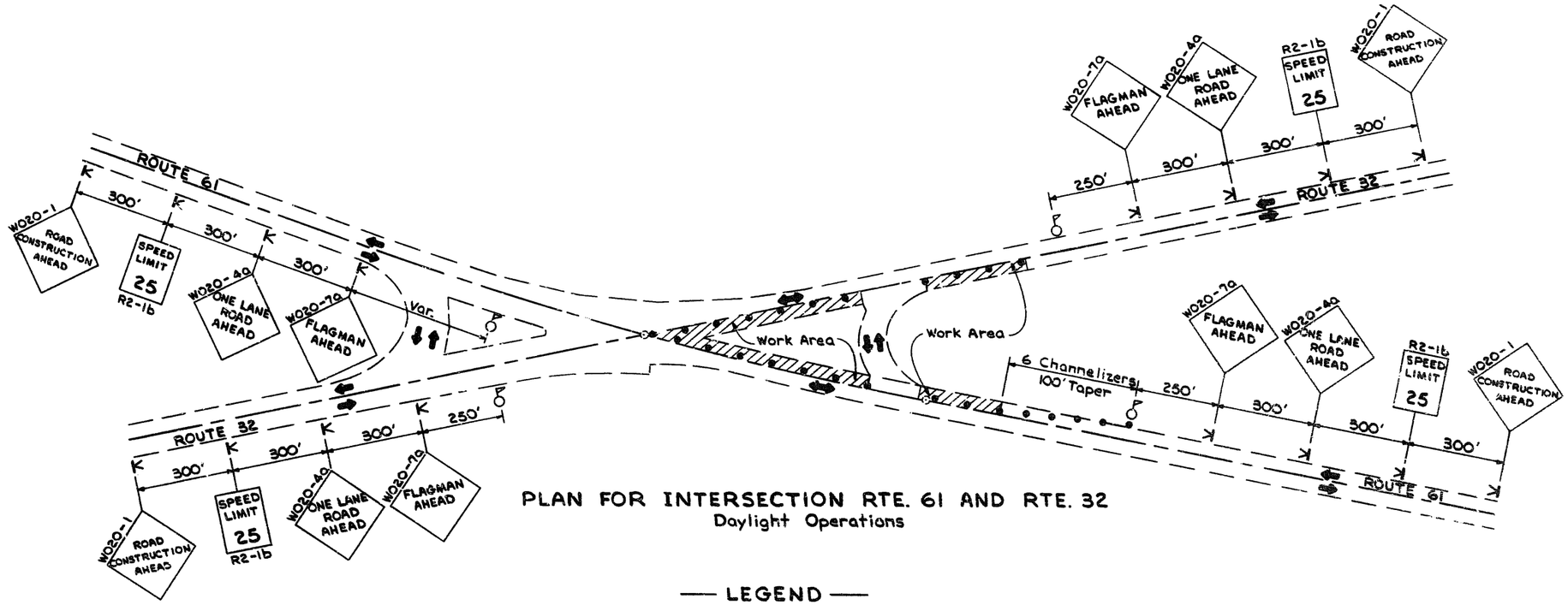
TRAFFIC CONTROL PLAN
SPECIAL SHEET NO 8

FINAL SURVEY — NOTE BOOK — NO. — DATE — BY — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED

ORIGINAL SURVEY — NOTE BOOK — NO. — DATE — BY — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED

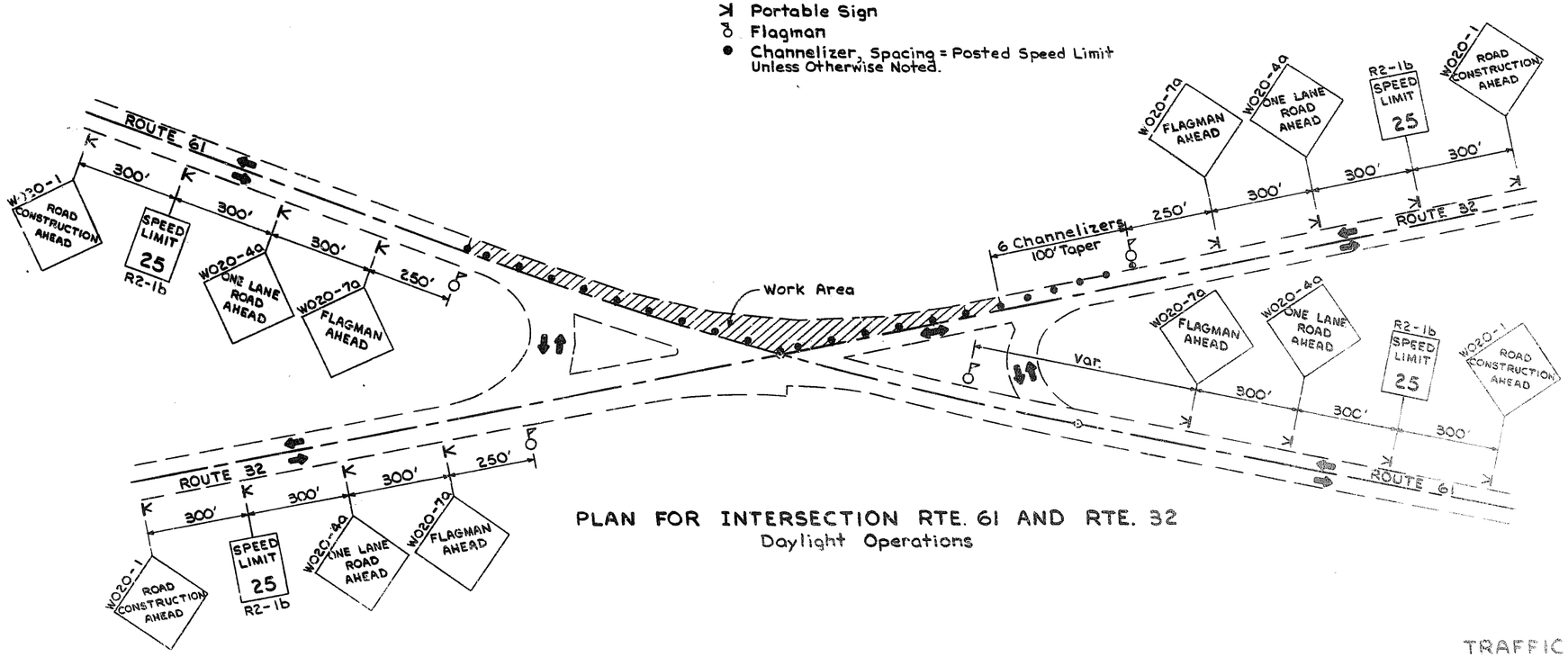
STATE	JOB NO	SHEET NO
MO	6-S-32-881	18
DIST NO	PROJECT NO	ROUTE
10	COUNTY STE. GENEVIEVE	32

FINAL SURVEY — DATE — BY — SURVEYED — PLOTTED — TEMPLATE — AREAS CHECKED — NOTE BOOK — NO.



PLAN FOR INTERSECTION RTE. 61 AND RTE. 32
Daylight Operations

— LEGEND —
- Portable Sign
- Flagman
- Channelizer, Spacing = Posted Speed Limit Unless Otherwise Noted.

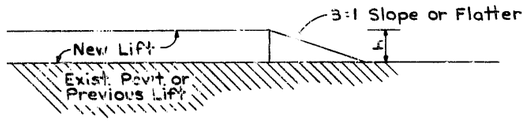


PLAN FOR INTERSECTION RTE. 61 AND RTE. 32
Daylight Operations

ORIGINAL SURVEY — DATE — BY — SURVEYED — PLOTTED — NOTE BOOK — TEMPLATE — AREAS CHECKED — NO.

Drawing Not To Scale; Follow Dimensions

TRAFFIC CONTROL PLAN
SPECIAL SHEET NO. 9

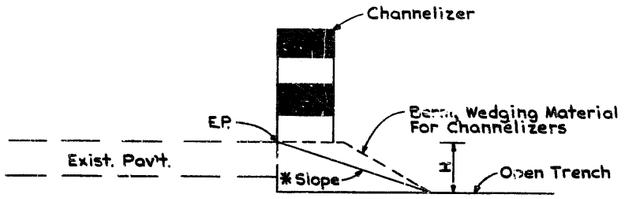


UNEVEN PAVEMENT TREATMENT

(Working Hours And Non-Working Hours)

For Use When Traffic Is Expected To Cross Uneven Pavement Where "H" Is Greater Than 2 Inches.

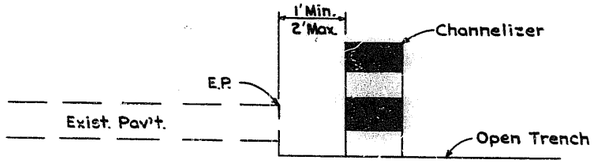
Wedge With Some Material As Used For Lift.



SHOULDER DROP-OFF TREATMENT

(Non-Working Hours)

* Wedge Slope To 1:1 For H= 2" to 4" (Plant Mix Bituminous Pavement)
* Wedge Slope To 3:1 For H > 4" (Type 1 or Type 2 Aggregate)

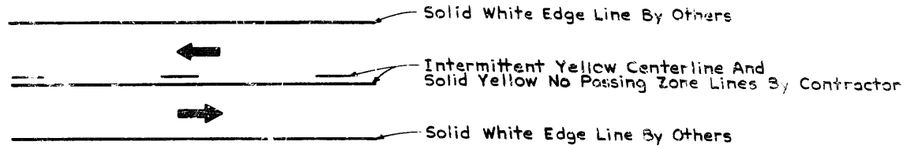


SHOULDER DROP-OFF TREATMENT

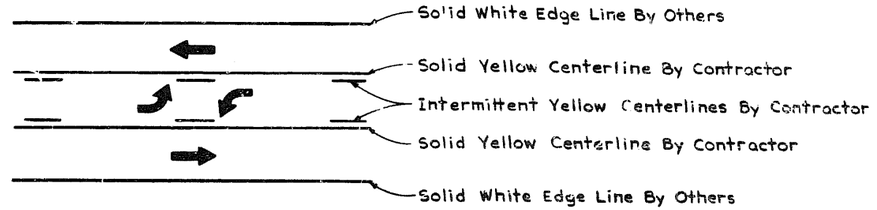
(Working Hours)

EDGE DROP-OFF TREATENTS

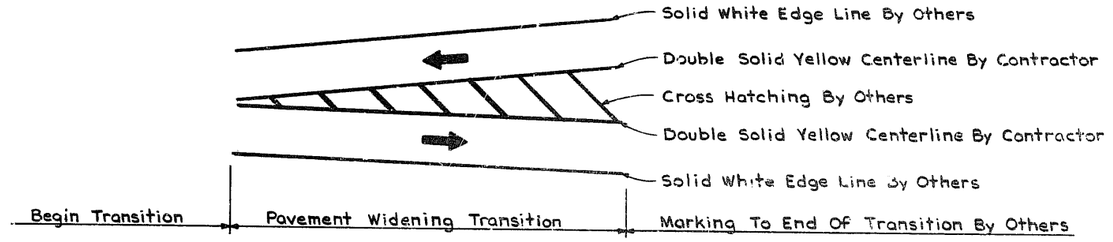
NOTE: See Special Sheet No.8 For Signing Details And Channelizer Spacing



TWO LANE PAVEMENT MARKING



TWO WAY CENTER LEFT TURN LANE PAVEMENT MARKING



PAVEMENT MARKING FOR TAPERS ROUTE 32

PAVEMENT MARKING DETAILS

Type I Preformed Marking Tape

GENERAL NOTES:

All Intermittent Marking With Type I Preformed Marking Tape Shall Be 10 Ft. In Length With 30 Ft. Gaps Between Markings.

Edge Lines, Arrows, And Cross Hatchings Are To Be Provided By Others Within 2 Weeks Of The Completion Of Resurfacing.

Intermediate Lifts Are To Be Marked With Intermittent Pavement Marking Only, Using Short Term Pavement Marking Tape. Short Term Intermittent Marking Shall Be 4 Ft. In Length With 36 Ft. Gaps Between Markings

Pavement Marking Beyond The Limits Of The 2B Sheet, Will Be Provided By Others Unless Directed By The Engineer.

Drawings Not To Scale | Follow Dimensions

TRAFFIC CONTROL AND PAVEMENT MARKING PLAN
SPECIAL SHEET NO. 10

DATE | BY | SURVEYED | PLOTTED | TRIMMED | AREAS | AREAS CHECKED | NOTE BOOK | NO.
FINAL SURVEY
ORIGINAL SURVEY

FINAL PLANS

STATE	JOB NO.	SHT. NO.
MO	S-32-661	20
U.S. NO.	PROJECT NO.	ROUTE
10	COUNTY STE. GENEVIEVE	32

Route 61
P.I. 1026+00
Δ ~ 47°23'07" Lt.
D ~ 2°
T ~ 1257.12'
L ~ 2369.26'
R ~ 2864.79
SE ~ 0.03 ft

STA. 1176+62.9 Bk. =
STA. 1176+66.4 Ahd. Rte. 32
STA. 1034+90.5 Rte. 61

SPEED LIMIT 35 M.P.H.
NO PARKING
NO TRAFFIC SIGNALS

SPEED LIMIT 30 M.P.H.
NO PARKING
NO TRAFFIC SIGNALS

HOSPITAL

HOSPITAL ENT.

PINE ST.

Rte. 61

Rte. 32

Exist. R/W

Painted Median (By Others)

Asph. Island

Shldr.

SERVICE STATION

SHOPPING CENTER

N 70°21'32" E

S 87°01'06" E

Note: The contractor shall make a small saw mark on the concrete curb directly above loop detector conduit runs.

PEAK HOUR 1990
(2010)

Scale Feet

TRAFFIC SIGNAL INSTALLATION
ROUTE 32
AND
ROUTE 61

FINAL SURVEY — SURVEYED — PLOTTED — NOTE BOOK — TEMPLATE — AREAS — AREAS CHECKED — NO — DATE — BY

ORIGINAL SURVEY — NOTE BOOK — TEMPLATE — AREAS — AREAS CHECKED — NO — DATE 2-28-90 — BY

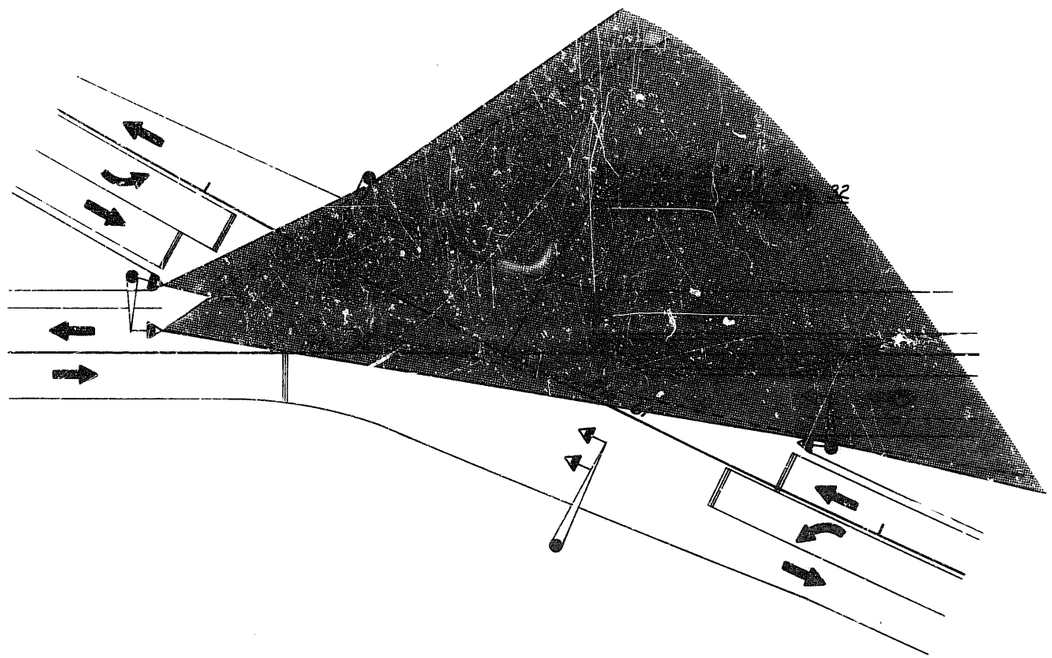
42

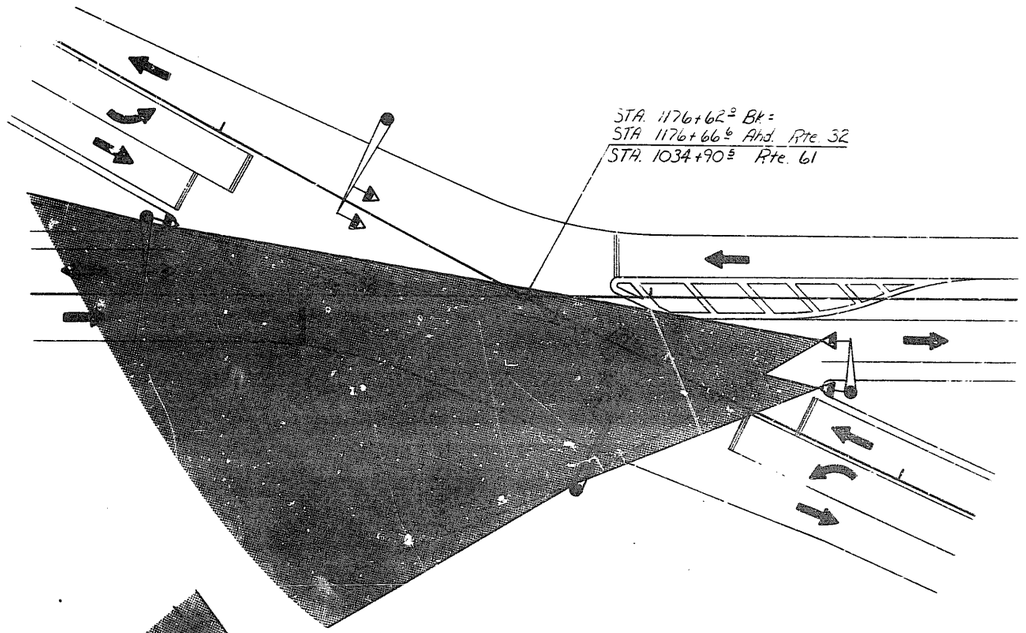
FINAL PLANS

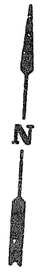
STATE	JOB NO. 6-5-32-651	SHEET NO.
MO.		21
DIST NO.	PROJECT NO.	ROUTE
10	COUNTY STE. GENEVIEVE	32

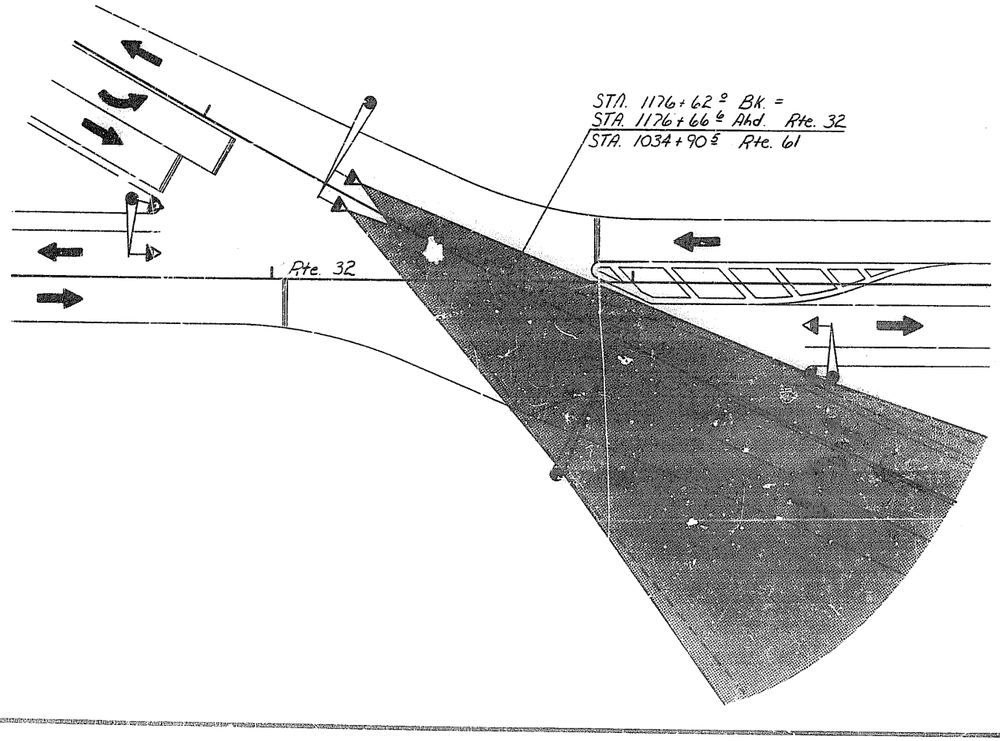
FINAL SURVEY — DATE
SURVEYED
PLOTTED
TRIPLATE
AREAS
AREAS CHECKED
NOTE BOOK
NO.

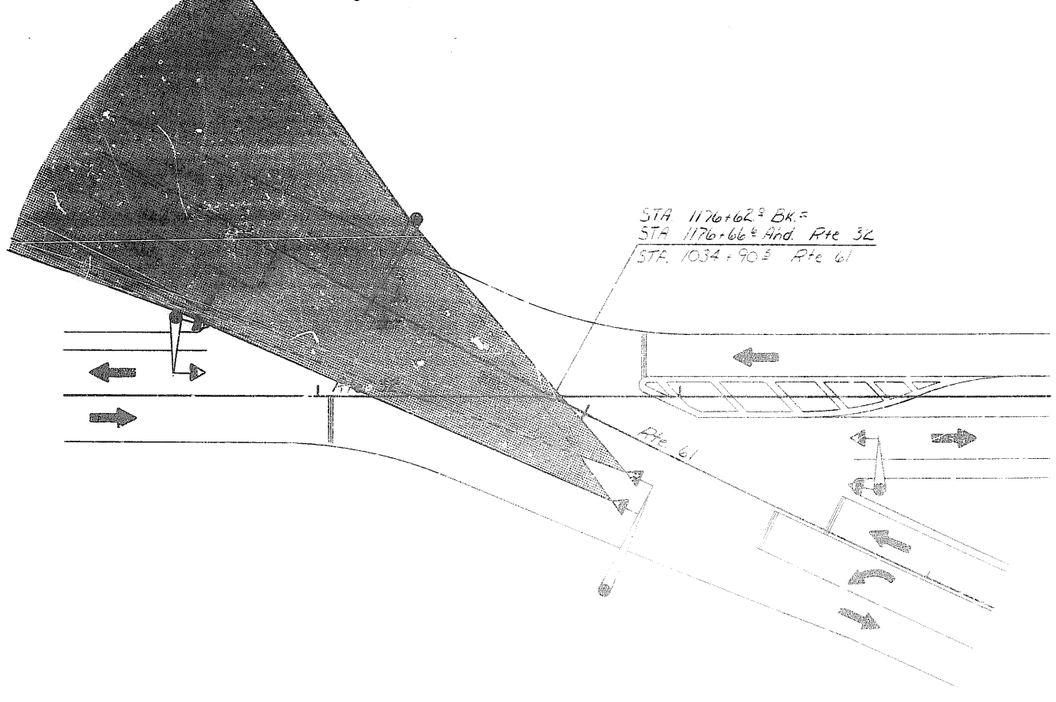
ORIGINAL SURVEY — DATE — BY
SURVEYED
PLOTTED
TRIPLATE
AREAS
AREAS CHECKED
NOTE BOOK
NO.











LAYOUT SHOWING CUT OFF FIELDS FOR OPTICALLY LIMITED SIGNAL HEADS

43 R00

FINAL PLANS

STATE MO	JOB NO	SHEET NO 22
DIST NO	PROJECT NO	ROUTE
	COUNTY	

TRAFFIC SIGNALS

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			ACTUATED						PRE-TIMED							ON-OFF* SWITCH		COORDINATION UNIT*		TONE UNIT*			TIME* CLOCK
APPROACH	STATION	OFFSET	MODULAR* BY FUNCTION TYPE DP	MODULAR BY PHASE* S	D	P	SP	DP	TYPE S-M	S-S	M-N	M-I	M-M	SEMI TYPE 1	SEMI TYPE 2	TYPE I	TYPE II	MASTER	LOCAL	TIME BASE	TRANS-MITTER	RECEIVER	
Route 32	1176+20	40' Rt	4																				

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY	CIRCUIT BREAKER TRIP RATING				SERVICE POLE	
APPROACH	STATION	OFFSET	DRAWING	SIDE OF CONTROLLER: LIGHTING BREAKER	CONTROLLER: AUXILIARY BREAKER	CONTROLLER: CONT & SIGNAL LAMPS	SERVICE POLE: MAIN BREAKERS	CONTRACT FURNISH	UTILITY COMPANY
Route 32	1176+04	43' Rt	Type 1	15 Amps	15 Amps	25 Amps	40 Amps	Cl. 4 Ft. 30	
			Type	Amps	Amps	Amps	Amps	Cl Ft.	

POST NUMBER	PULL BOX NUMBER	DETECTOR NUMBER	LOCATION APPROACH	STATION	OFFSET	BASES A S	A B MOD.	B S	B 10	C	CUBIC YARDS OF CONCRETE	PULL BOX TYPE I	PULL BOX TYPE II	DETECTOR PUSH BUTTON	DETECTOR MAGNETIC	DETECTOR INDUCTION LOOP	DETECTOR CALL UNIT	DETECTOR TIME DELAY UNIT	POST TOP MOUNT POST LENGTH 7	POST TOP MOUNT POST LENGTH 10	TYPE C & CL ARM LENGTH A	A	A	A	A	A	TYPE C & CL SIGNAL SPACING B	C	D	TYPE C & CL SIGN SPACING B	C	D
			CONTROLLER (AS REQ'D)								2.00																				
1			Rte. 32	1176+79.9	50.3' Rt.		1				2.51												31			21.5	9.0		13.5	5.5	9.0
2			Rte. 32	1177+52.6	25.0' Rt.	1					1.70										14					13.5			6.0	5.0	
3			Rte. 32	1175+62.8	20.5' Lt.	1					1.70											15				14.0			6.0	5.5	
4			Rte. 32	1176+26.1	46.4' Lt.		1				2.35												29			19.5	9.0		11.0	6.0	9.0
	1		Rte. 32	1176+77.0	59.0' Rt.							1																			
	2		Rte. 32	1177+62.0	26.0' Rt.							1																			
	3		Rte. 32	1175+54.0	22.0' Lt.							1																			
		61	Rte. 32	1175+69.0	6.0' Rt.											1															
		21	Rte. 32	1177+25.0	11.0' Lt.											1															
		41	Rte. 61	1033+65.0	17.5' Rt.											1															
		70	Rte. 61	1033+80.0	6.5' Rt.											1															
		30	Rte. 61	1035+86.0	6.5' Rt.											1															
		81	Rte. 61	1036+05.0	4.5' Lt.											1															
TOTAL						10.3	3				6					1	1	1	1	1	1										

POST NUMBER	TYPE B & BL ARM LENGTH E	K	E	K	E	K	E	K	LEFT ARM E SIGNAL F	G	H	LEFT ARM E SIGN F	G	H	RIGHT ARM K SIGNAL L	M	N	RIGHT ARM K SIGN L	M	N	INCLUDED ANGLE	LUMINAIRE BRACKET ARM (FEET) 4	6	8	10	12	15	SPAN WIRE WOOD	SPAN WIRE STEEL	COMMISSION FURNISHED SIGNS CODE SIGN NUMBER FROM STANDARD PLAN 902.80 INTERSECTION 3	5	9	12	13
1																														1		1	1
2																														1			1
3																														1			1
4																														1		1	1

STATE MO | JOB NO | SHEET NO 23
DIST NO | PROJECT NO | ROUTE
COUNTY

TRAFFIC SIGNALS

CONDUIT

FROM	TO	CTR TO CTR DISTANCE	TRENCH 1¼	1½	2	2½	3	3½	4	MEDIAN 1¼	PUSHED 2	2½	3	3½	4	ON BRIDGE		REMARKS
∅	☒	12	16															
☒	1	56				59												
☒	3	91				40						54						
1	2	92			64						27							
1	①	9			12													
2	②	10	13															
3	③	9	12															
3	④	77			26						54							
2	Curb		5															
2	Curb		11															
3	Curb		10															
3	Curb		6															
TOTALS			73		102	99					81	54						

CABLE

FROM	TO	CTR TO CTR DISTANCE	POWER 1c #8	CONTROL 2c #12	3c #12	5c #12	7c #12	12c #12	DETECTOR 1c #14	Less in Cable	REMARKS
∅	☒	12	141								3 Power Cables
☒	2	148								495	3 Less in Cables
☒	3	91								306	3 Less in Cables
☒	①	65		116			255				1-2c & 2-7c Cables
☒	②	158		206			237				1-2c & 1-7c Cables (Includes Jumper)
☒	③	100		142			174				1-2c & 1-7c Cables (Includes Jumper)
☒	④	168		216			457				1-2c & 2-7c Cables
2	(21)								368		
2	(30)								448		
2	(81)								302		
3	(41)								300		
3	(61)								328		
3	(70)								446		
Sub-Totals			141	680							
TOTALS			140	680			1120				

INTERSECTION

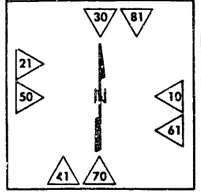
SP-37B

REV APR 1, 1986

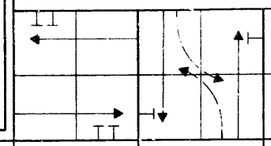
FINAL PLANS

STATE MO.	JOB NO	SHEET NO 24
DIST. NO	PROJECT NO	ROUTE
	COUNTY	

SIGNAL FACE LOCATION



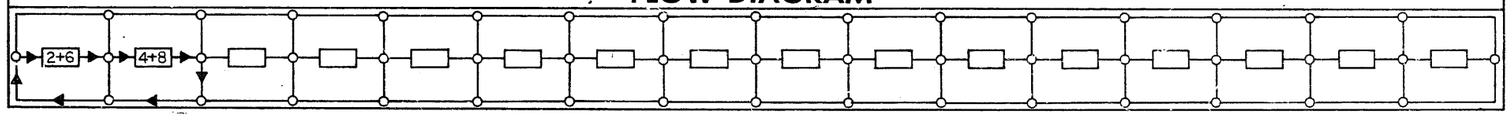
TRAFFIC PHASING AND COLOR SEQUENCE



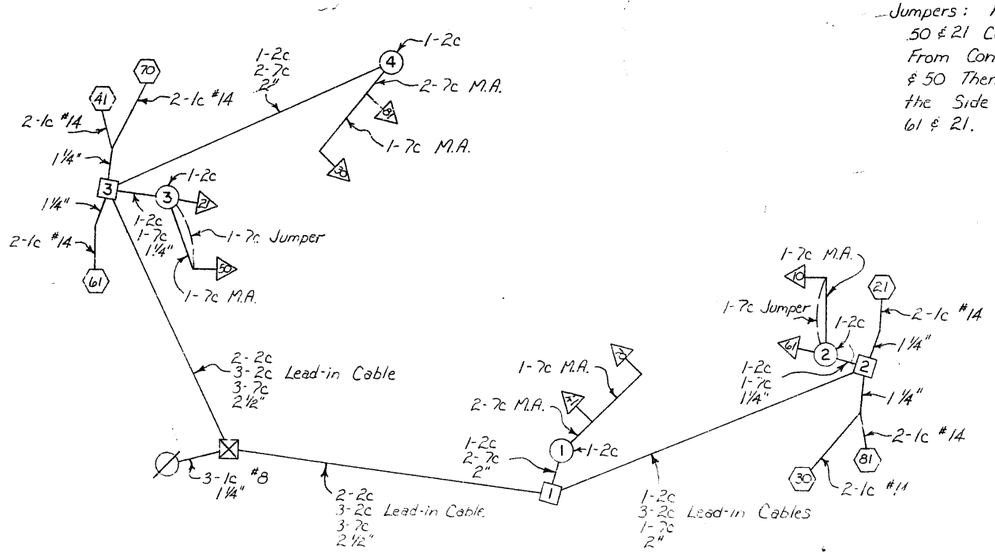
CONT. NO.			PHASE 2+6		PHASE 4+8		PHASE		PHASE		PHASE		PHASE		PHASE		PHASE		PHASE		PHASE		PHASE		PHASE		PHASE		FACE NO.
APPROACH	PHASE	FACE NO.	R/W	CLEAR TO PHASE	R/W	CLEAR TO PHASE	R/W	CLEAR TO PHASE	R/W	CLEAR TO PHASE	R/W	CLEAR TO PHASE	R/W	CLEAR TO PHASE	R/W	CLEAR TO PHASE	R/W	CLEAR TO PHASE	R/W	CLEAR TO PHASE	R/W	CLEAR TO PHASE	R/W	CLEAR TO PHASE	R/W	CLEAR TO PHASE	R/W	CLEAR TO PHASE	
East BOUND	6	10	S	Y	R	R																							
Route 32		61	S	Y	R	R																							
West BOUND	2	50	S	Y	R	R																							
Route 32		21	S	Y	R	R																							
North BOUND	8	30 & 81	R	R	G	Y																							
Route 61																													
South BOUND	4	70 & 41	R	R	G	Y																							
Route 61																													

→ Phases On Recall With Equal Time Setting

FLOW DIAGRAM



WIRING DIAGRAM



Jumpers: Faces 10 & 61 and 50 & 21 Cables Shall be Routed From Controller to Faces 10 & 50 Then Jumpered Back to the Side Mounted Faces 61 & 21.

ALL WIRE #12 AWG EXCEPT WHERE SHOWN

LEGEND

- → — ACTUATED VEHICULAR MOVEMENT
- ⇢ — PARTIALLY RESTRICTED ACTUATED MOVEMENT
- ▷ — NON-ACTUATED VEHICULAR MOVEMENT
- ⇢▷ — PARTIALLY RESTRICTED NON-ACTUATED VEHICULAR MOVEMENT
- → — ACTUATED PEDESTRIAN MOVEMENT
- ⇢ — NON-ACTUATED PEDESTRIAN MOVEMENT
- ⊣ — VEHICAL STOPPED
- FDW — FLASHING DON'T WALK
- R/W — RIGHT OF WAY INTERVAL
- DW — DON'T WALK
- YRt — YELLOW RIGHT ARROW
- RT. — GREEN RIGHT ARROW
- W — WALK
- LY-YL — YELLOW LEFT ARROW
- L — GREEN LEFT ARROW
- S — GREEN STRAIGHT AHEAD ARROW
- G — CIRCULAR GREEN
- Y — CIRCULAR YELLOW
- R — CIRCULAR RED
- Ø — TRAFFIC PHASE
- AO — ALL OTHERS
- FR — FLASHING RED
- FY — FLASHING YELLOW

TRAFFIC SIGNAL CONTROL OPERATION

ROUTE 32
INTERSECTION OF
ROUTE 61
WITH

FLASHING OPERATION	
ALL APPROACHES	FR
CONTROLLER TYPE	4Z

SP-38

DATE 9-8-89
BY
ORIGINAL SURVEY
SURVEYED
PLOTTED
NOTE BOOK
TEMPLATE
AREAS
AREAS CHECKED
NO

REV JUN 1, 87

FINAL PLANS

STATE NO. 6-5-32 321 — 25

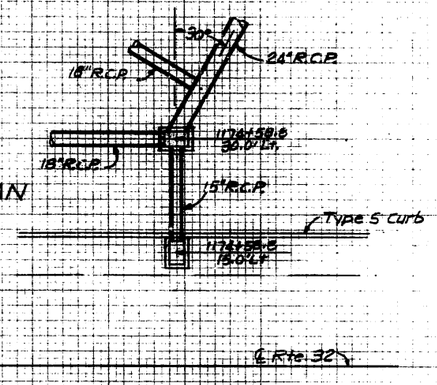
DIST NO. 10 — COUNTY NO. STE. GENEVIEVE — 32

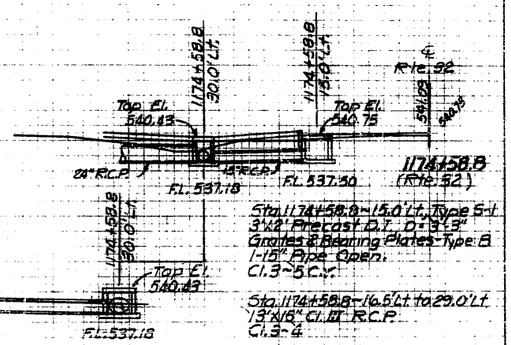
FINAL SURVEY — ORIGINAL SURVEY

SURVEYED BY — DATE
PLOTTED BY
TRACED BY
NOTE BOOK
AREAS CHECKED
NO.

10'

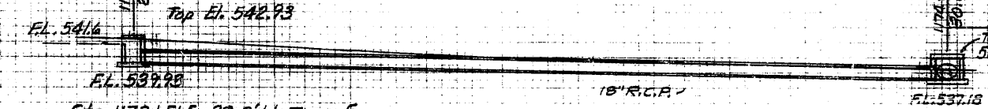
PLAN





Sta. 1174+58.8 ~ 15.0' Lt. Type S-1
3'x2' Precast D.I., D=3'-3"
Grates & Bearing Plates Type B
1-15" Pipe Open.
Cl. 3 ~ 5 C.Y.

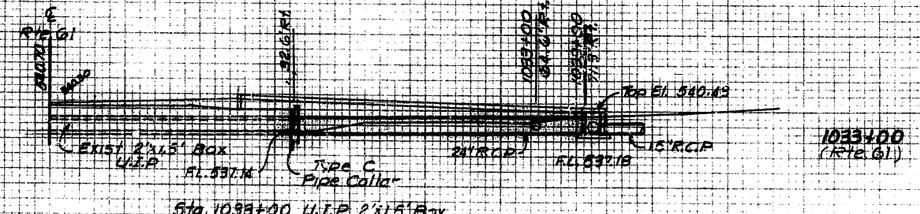
Sta. 1174+58.8 ~ 16.5' Lt. to 29.0' Lt.
13'x15" Cl. III R.C.P.
Cl. 3 ~ 4



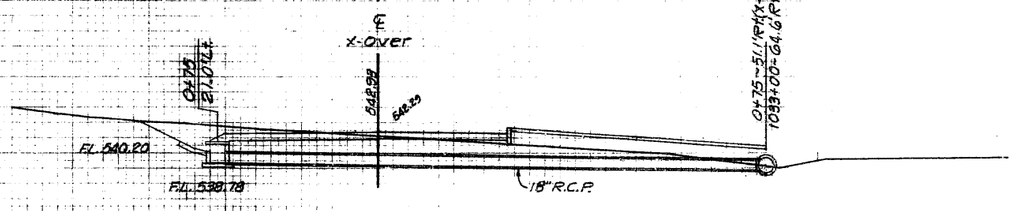
Sta. 1173+51.5 ~ 29.0' Lt. Type E
3'x2' Precast D.I., D=2'-6"
1-18" Pipe Open
Cl. 3 ~ 6 C.Y.

Sta. 1173+52.5 ~ 29.0' Lt. to Sta. 1174+57.3 ~ 30.0' Lt.
105' x 18" Cl. III R.C.P.
Cl. 3 ~ 38 C.Y.

Sta. 1174+58.8 ~ 30.0' Lt. Type S-1
3'x2' Precast D.I., D=2'-3"
Grates & Bearing Plates
1-15" 1-18" 1-24" Pipe Open.
Cl. 3 ~ 3 C.Y.



Sta. 1033+00 U.I.P. 2'x4.5' Box
Extend 82' W/40'x24" Cl. III R.C.P.
Incl. 1-18" Tee,
1-Type C Pipe Collar
Cl. 3 ~ 11 C.Y.



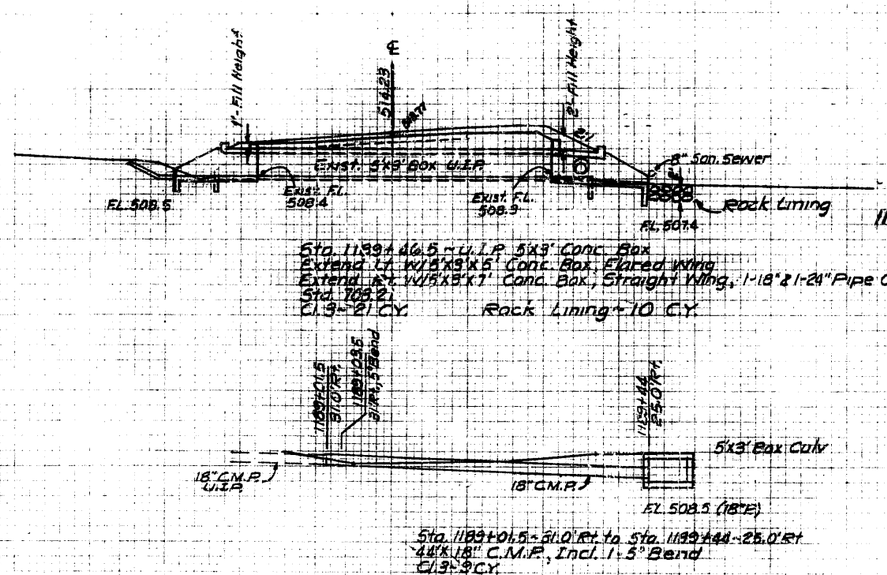
0+75 N.W. X-Over

Sta. 0+75 ~ 21.0' Lt. (X-Over) Type E
3'x2' Precast D.I., D=2'-3"
1-18" Pipe Open.
Cl. 3 ~ 9 C.Y.

Sta. 0+75 ~ 20.0' Lt. to 51.1' Rt. (N.W. X-Over)
71' x 18" Cl. III R.C.P.
Cl. 3 ~ 49 C.Y.

CULVERT SHEET # 1

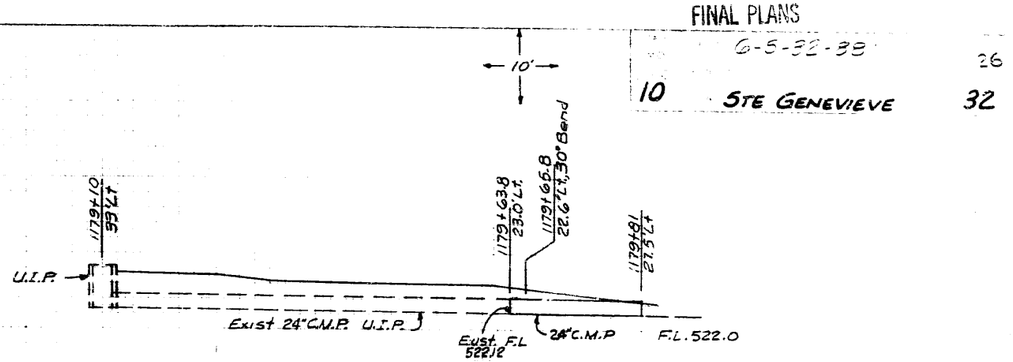
46+20



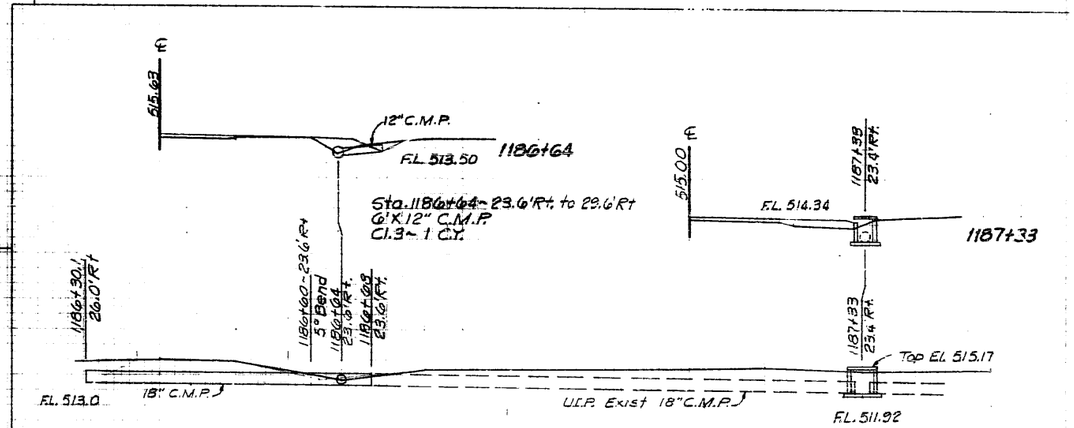
Sta. 1189+46.5 - U.I.P. 5'x3' Conc. Box
Extend Lt. W/5'x3'x5' Conc. Box, Flared Wing
Extend Rt. W/5'x3'x7' Conc. Box, Straight Wing, 1-18"ø 1-24" Pipe Open.
Std. 709.2
Cl. 3 ~ 21 C.Y. Rock Lining ~ 10 C.Y.

Sta. 1189+01.5 ~ 31.0' Rt. to Sta. 1189+44 ~ 25.0' Rt.
44'X18" C.M.P., Incl. 1-5° Bend
Cl. 3 ~ 9 C.Y.

NOTE: See Culv. Sec Sheet for Sta 1186+07.3 to Sta 1188+06.8 Lt. Side

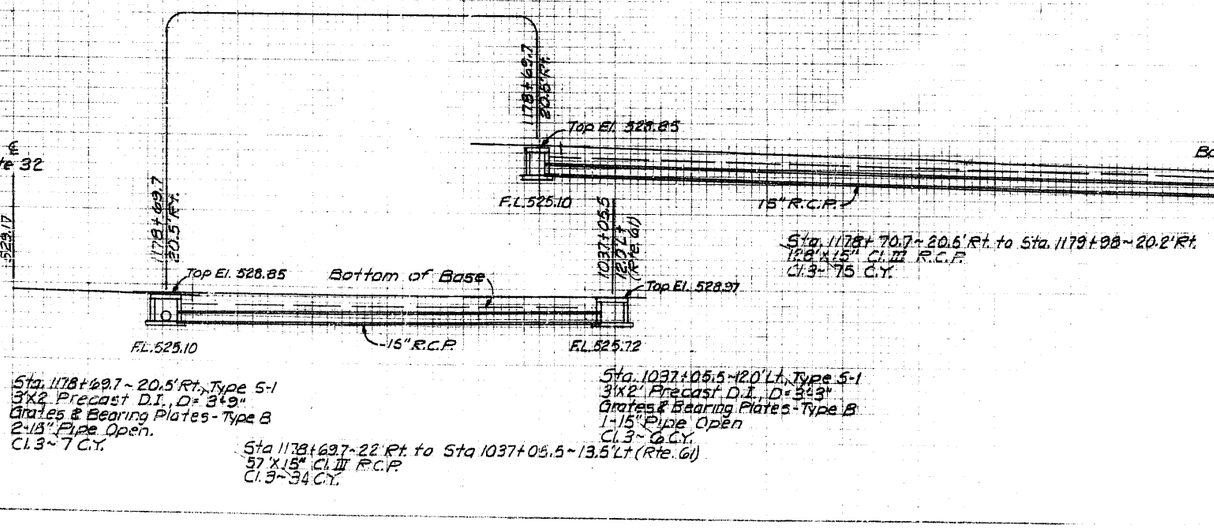


Sta. 1179+63.8 ~ 23.0' Lt. to Sta. 1179+81 ~ 27.5' Lt.
18'X24" C.M.P., Incl. 1-30° Bend
Cl. 3 ~ 9 C.Y.



Sta. 1186+30.1 ~ 26.0' Rt. to Sta. 1186+68 ~ 23.6' Rt
38'X18" C.M.P., Incl 1-12° Tee & 1-15° Bend
Cl. 3 ~ 15 C.Y.

Sta. 1187+33 ~ 23.4' Rt., Type E-M
3'X2' Precast D.I., D= 3'-3"
2-15" Pipe Open.
Cl. 3 ~ 5 C.Y.



Sta. 1181+81 ~ 18.0' Rt., Type D
2'X2' Precast D.I., D= 2'-3"
Grates & Bearing Plates
2-15" Pipe Open.
Cl. 3 ~ 4 C.Y.

Sta. 1181+18.1 ~ 18.0' Rt. to Sta. 1182+49.5 ~ 26.5' Rt.
69'X15" Cl. III R.C.P.
Cl. 3 ~ 30 C.Y.

Sta. 1178+69.7 ~ 20.5' Rt., Type S-1
3'X2' Precast D.I., D= 3'-9"
Grates & Bearing Plates - Type B
2-18" Pipe Open.
Cl. 3 ~ 7 C.Y.

Sta 1178+69.7 ~ 22' Rt. to Sta 1037+05.5 ~ 13.5' Lt (Rte. 61)
57'X15" Cl. III R.C.P.
Cl. 3 ~ 34 C.Y.

Sta. 1037+05.5 ~ 12.0' Lt., Type S-1
3'X2' Precast D.I., D= 3'-3"
Grates & Bearing Plates - Type B
1-15" Pipe Open
Cl. 3 ~ 6 C.Y.

Sta. 1178+70.7 ~ 20.6' Rt. to Sta. 1179+98 ~ 20.2' Rt.
126'X15" Cl. III R.C.P.
Cl. 3 ~ 75 C.Y.

Sta. 1179+99 ~ 20.2' Rt., Type D
2'X2' Precast D.I., D= 2'-0"
Grates & Bearing Plates
2-15" Pipe Open.
Cl. 3 ~ 5 C.Y.

Sta. 1180+00 ~ 20.2' Rt. to Sta. 1181+80 ~ 18' Rt.
180'X15" Cl. III R.C.P.
Cl. 3 ~ 34 C.Y.

FINAL SURVEY — SURVEYED, PLOTTED, TRACED, AREAS CHECKED, NOTE BOOK, MO., BY, DATE

48-205

FINAL PLANS

6-5-32-88

27

10

10

STE GENEVIEVE

32

Sta. 1198+43 ~ 27' Rt. to 40' Rt
14'X15" C.M.P.
Cl. 3 ~ 5 C.Y.

1198+43

Sta 1198+43 ~ 25.5' Rt., Type E-M
3'X2' Precast D.I., D= 3'-6"
2-18" I-15" Pipe Open
Cl. 3 ~ 5 C.Y.

Sta. 1199+02 ~ 31.5' Rt., Type E-M
3'X2' Precast D.I., D= 3'-0"
2-18" I-12" Pipe Open.
Cl. 3 ~ 4 C.Y.

1199+02

Sta. 1199+48.5 ~ 27.5' Rt., Type E-M
3'X2' Precast D.I., D= 3'-0"
1-18" 2 I-15" Pipe Open.
Cl. 3 ~ 2 C.Y.

1199+48.5

Exist. 12" Plastic Pipe, U.I.P.

Exist 15" C.M.P. U.I.P.

Sta. 1199+48.5 ~ 25.5' Rt. to Sta 1199+00.5 ~ 31.5' Rt.
38'X18" Cl. III R.C.P.
Cl. 3 ~ 27 C.Y.

Sta. 1199+03.5 ~ 31.5' Rt. to Sta. 1199+47.0 ~ 27.5' Rt.
45'X18" Cl. III R.C.P.
Cl. 3 ~ 19 C.Y.

Sta. 1199+75.5 ~ 26.2' Rt. to Sta. 1199+81.5 ~ 26.2' Rt.
6'X18" C.M.P.
Cl. 3 ~ 4 C.Y.

Sta. 1195+74.3
30.0' Rt.

1195+74.3

Sta. 1196+74.5
30.0' Rt.

1196+74.5
(Spillway on 2' side)

Sta. 1196+14.5 ~ 30.0' Rt. Type E-M
3'X2' Precast D.I., D= 4'-0"
1-18" 2 I-24" Pipe Open
Cl. 3 ~ 6 C.Y.

Sta. 1197+24
24.5' Rt.

1197+24

Sta. 1197+24 ~ 24.5' Rt., Type E-M
3'X2' Precast D.I., D= 3'-9"
2-18" Pipe Open.
Cl. 3 ~ 6 C.Y.

Sta. 1197+99
24.5' Rt.

1197+99

Sta. 1197+99 ~ 24.5' Rt., Type E-M
3'X2' Precast D.I., D= 3'-3"
2-18" Pipe Open.
Cl. 3 ~ 5 C.Y.

Sta. 1198+43
25.5' Rt.

1198+43

Sta. 1198+43 ~ 25.5' Rt., Type E-M
3'X2' Precast D.I., D= 3'-6"
2-18" I-15" Pipe Open
Cl. 3 ~ 5 C.Y.

Sta. 1195+75.8 ~ 30.0' Rt. to Sta. 1196+34.3 ~ 29.2' Rt
61'X24" Cl. III R.C.P., Incl. 1-35° Bend
Cl. B ~ 52 C.Y.

Sta. 1196+14.5 ~ 30.0' Rt. to Sta. 1196+34.3 ~ 29.2' Rt
35° Bend

Sta. 1193+04
30.0' Rt.

1193+04

Sta. 1193+04 ~ 24.0' Rt., Type E-M
3'X3' Precast D.I., D= 3'-9"
2-24" Pipe Open
Cl. 3 ~ 7 C.Y.

Sta. 1196+36.1
30.0' Rt.

1196+36.1

Sta. 1196+36.1 ~ 30.0' Rt. Type E-M
5'X3' Precast D.I., D= 4'-6"
2-24" I-15" Pipe Open
Cl. 3 ~ 7 C.Y.
(Spillway on Up-Grade Side)

PLAN
1196+36.1 ~ 30.0' Rt. (Ctr. D.I.)

Radial Line
33°
35°
35°

* Sta 1196+37.3 ~ 30.8' Rt. to Sta 1196+73.0 ~ 30.0' Rt
38'X24" Cl. III R.C.P., Incl. 1-35° Bend
Cl. 3 ~ 26 C.Y.

** Sta. 1196+76.0 ~ 30.0' Rt. to Sta. 1197+22.5 ~ 24.5' Rt.
47'X18" Cl. III R.C.P.
Cl. 3 ~ 35 C.Y.

Sta. 1197+25.5 ~ 24.5' Rt. to Sta. 1197+97.5 ~ 24.5' Rt.
74'X18" Cl. III R.C.P.
Cl. 3 ~ 45 C.Y.

Sta. 1135+00.5 ~ 24.5' Rt. to Sta 1198+41.5 ~ 25.5' Rt.
42'X18" Cl. III R.C.P.
Cl. 3 ~ 26 C.Y.

Sta. 1194+90
24.0' Rt.

1194+90

Sta. 1194+90 ~ 24.0' Rt., Type E-M
3'X3' Precast D.I., D= 4'-6"
2-24" Pipe Open.
Cl. 3 ~ 5 C.Y.

Sta. 1192+50

Sta. 1192+03.5 ~ 24.0' Rt. to Sta. 1193+02.5 ~ 24.0' Rt.
101' X 24" Cl. III R.C.P.
Cl. 3 ~ 73 C.Y.

Sta. 1193+06.5 ~ 24.0' Rt. to Sta. 1194+88.5 ~ 24.0' Rt.
187' X 24" Cl. III R.C.P.
Cl. 3 ~ 156 C.Y.

Sta. 1194+91.5 ~ 24.0' Rt. to Sta. 1195+72.8 ~ 30.0' Rt
84' X 24" Cl. III R.C.P.
Cl. 3 ~ 73 C.Y.

Sta. 1195+50

Sta. 1191+05
24.0' Rt.

1191+05

Sta. 1191+05 ~ 18.1' Rt. to 23.0' Rt.
5'X15" Cl. III R.C.P.
Cl. 3 ~ 0 C.Y.

Sta. 1191+05 ~ 24.0' Rt., Type E-M
3'X2' Precast D.I., D= 4'-0"
1-15" Pipe Open.
Cl. 3 ~ 6 C.Y.

Sta. 1192+02
24.0' Rt.

1192+02

Sta. 1192+02 ~ 24.0' Rt., Type E-M
3'X3' Precast D.I., D= 4'-0"
2-24" Pipe Open.
Cl. 3 ~ 6 C.Y.

Sta. 1189+49 ~ 25' Rt. to Sta. 1192+00.5 ~ 24.0' Rt
257' X 24" Cl. III R.C.P., Incl. 1-15" Tee
Cl. 3 ~ 267 C.Y.

24"R.C.P.
FL. 515.13
FL. 515.33
FL. 516.50
FL. 512.59
FL. 512.93
FL. 513.23
FL. 516.40
FL. 513.68
FL. 516.60
FL. 514.18
FL. 516.63
FL. 515.80
FL. 512.93
FL. 516.00
FL. 515.88
FL. 512.03
FL. 515.70
FL. 510.88
FL. 508.50
(34"R.C.P.)
FL. 513.30
FL. 510.13
FL. 513.50
FL. 510.13

FINAL SURVEY
DRAWN
PLOTTED
TRACED
CHECKED
BY
DATE
NO.
REVISIONS

ORIGINAL SURVEY
DRAWN
PLOTTED
TRACED
CHECKED

462-206

CULVERT SHEET # 3

FINAL PLANS

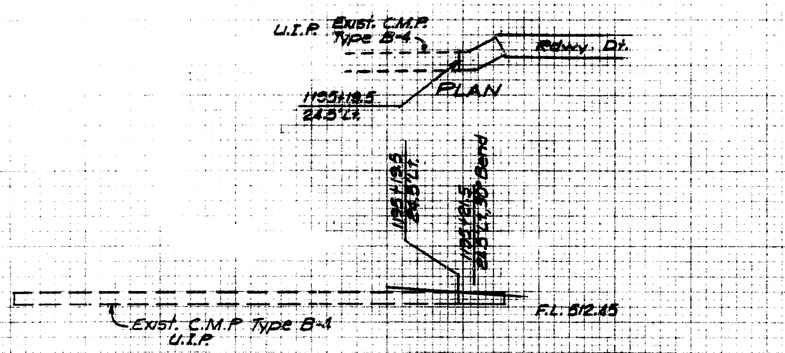
3-5-62-33

28

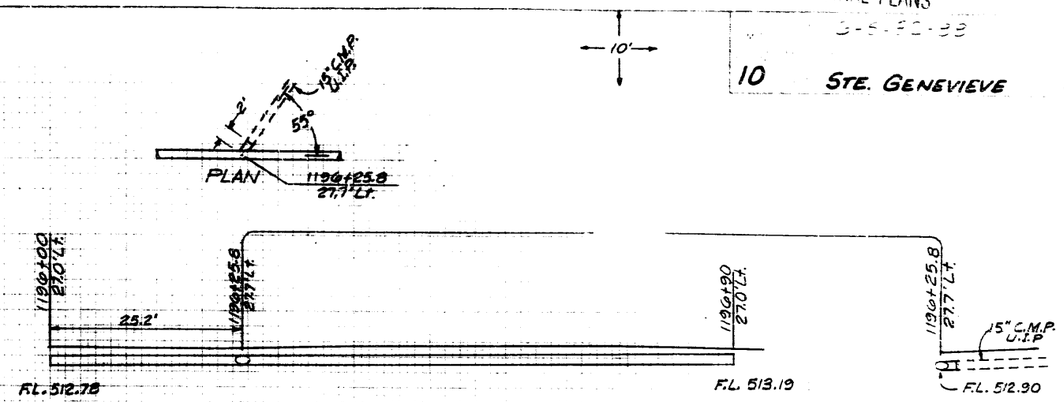
10 STE. GENEVIEVE 32

FINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — ITEMPLATE — AREAS — AREAS CHECKED — BY — DATE

ORIGINAL — SURVEYED — PLOTTED — ITEMPLATE — AREAS — AREAS CHECKED — BY — DATE



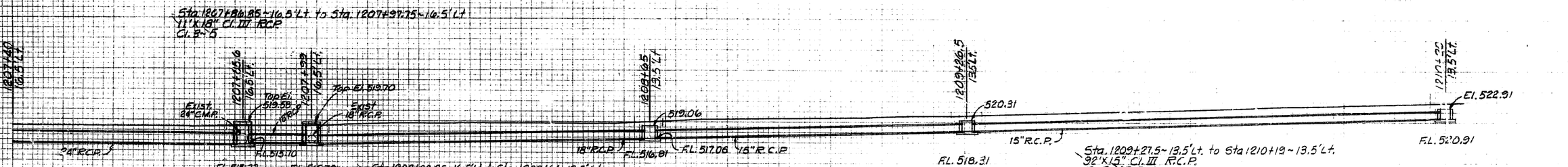
Sta. 1195+19.5 - 24.5' Lt.
6' C.M.P. Type B-1, Incl. 1-30° Bend
Cl. B - 2 C.Y.



Sta. 1196+00 - 27.0' Lt. to Sta. 1196+90 - 27.0' Lt.
88' X 18" C.M.P., Incl. 1-18" X 15" Tee
Cl. B - 34 C.Y.

Sta. 1196+25.8 - 27.7' Lt.
2' X 15" C.M.P.
Cl. B - 1 C.Y.

Sta. 1206+86.85 - 16.5' Lt. to Sta. 1207+97.75 - 16.5' Lt.
11' X 18" Cl. III RCP
Cl. B - 5



Sta. 1207+86.85 - 16.5' Lt. to Sta. 1207+95.6 - 16.5' Lt.
Type T
3'X2'-6" Precast D.I. D=2'-3"
Type 3 Manhole Frame & Cover
1-18" & 2-24" Pipe Open.
Cl. B - 7 C.Y.

Sta. 1208+00.25 - 16.5' Lt. to Sta. 1208+64 - 13.5' Lt.
64' X 18" Cl. III R.C.P.
Cl. B - 40 C.Y.

Sta. 1208+65 - 13.5' Lt. Type D
2'X2' Precast D.I. D= 2'-3"
Grates & Bearing Plates
1-15" & 1-18" Pipe Open
Cl. B - 5 C.Y.

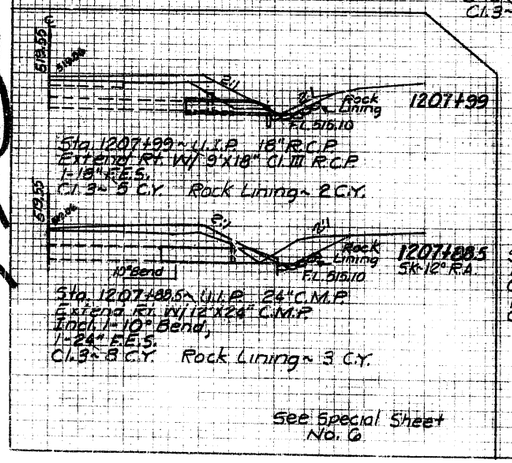
Sta. 1209+26.5 - 13.5' Lt. Type D
2'X2' Precast D.I., D= 2'-0"
Grates & Bearing Plates
2-15" Pipe Open.
Cl. B - 4 C.Y.

Sta. 1209+27.5 - 13.5' Lt. to Sta 1210+19 - 13.5' Lt.
92' X 15" Cl. III R.C.P.
Cl. B - 45 C.Y.

Sta. 1210+20 - 13.5' Lt. Type D
2'X2' Precast D.I., D= 2'-0"
Grates & Bearing Plates
1-15" Pipe Open.
Cl. B - 4 C.Y.

Sta. 1207+07.75 - 16.5' Lt. to Sta. 1207+82.35 - 16.5' Lt.
77' X 24" Cl. III R.C.P.
Cl. B - 55 C.Y.

Sta. 1207+98 - 16.5' Lt. Type T
3'X2'-6" Precast D.I. D=2'-0"
Type 3 Manhole Frame & Cover
2-18" Pipe Open.
Cl. B - 7 C.Y.



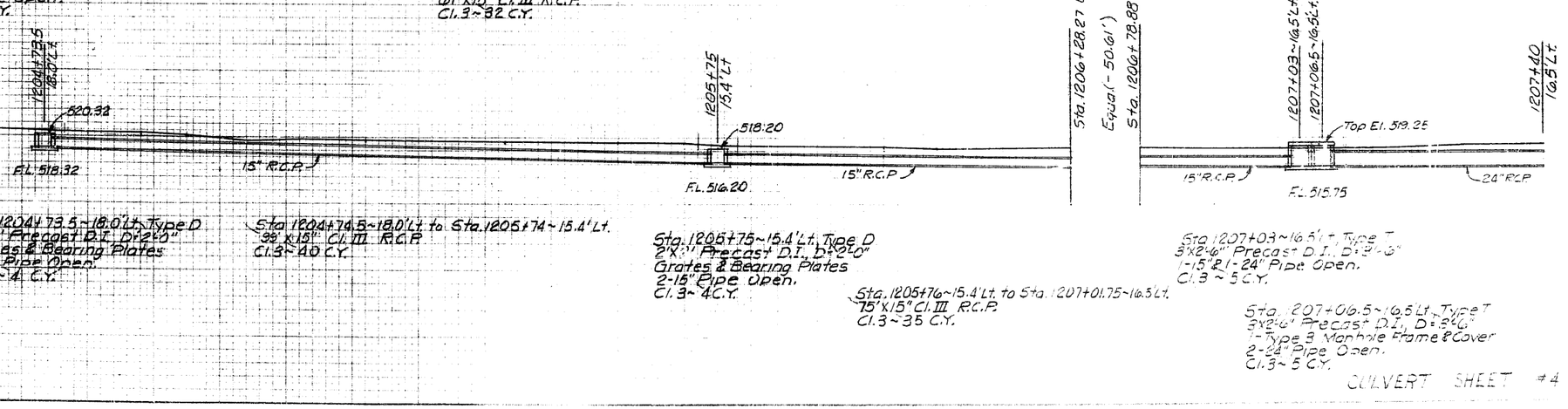
Sta. 1207+99 - U.I.P. 18" R.C.P.
Extend Rt. W/ 9'X18" Cl. III R.C.P.
1-18" F.E.S.
Cl. B - 5 C.Y. Rock Lining - 2 C.Y.

Sta. 1207+88.5 - U.I.P. 24" C.M.P.
Extend Rt. W/ 12'X24" C.M.P.
Incl. 1-10° Bend,
1-24" F.E.S.
Cl. B - 8 C.Y. Rock Lining - 3 C.Y.

See Special Sheet No. 6.

Sta. 1204+73.5 - 18.0' Lt. Type D
2'X2' Precast D.I. D=2'-0"
Grates & Bearing Plates
1-15" Pipe Open.
Cl. B - 4 C.Y.

Sta. 1204+74.5 - 18.0' Lt. to Sta. 1205+74 - 15.4' Lt.
99' X 15" Cl. III R.C.P.
Cl. B - 40 C.Y.



Sta. 1205+75 - 15.4' Lt. Type D
2'X2' Precast D.I., D=2'-0"
Grates & Bearing Plates
2-15" Pipe Open.
Cl. B - 4 C.Y.

Sta. 1205+76 - 15.4' Lt. to Sta. 1207+01.75 - 16.5' Lt.
75' X 15" Cl. III R.C.P.
Cl. B - 35 C.Y.

Sta. 1207+03 - 16.5' Lt. Type T
3'X2'-6" Precast D.I. D=2'-3"
1-15" & 1-24" Pipe Open.
Cl. B - 5 C.Y.

Sta. 1207+06.5 - 16.5' Lt. Type T
3'X2'-6" Precast D.I., D=2'-0"
1-Type 3 Manhole Frame & Cover
2-24" Pipe Open.
Cl. B - 5 C.Y.

CULVERT SHEET #4

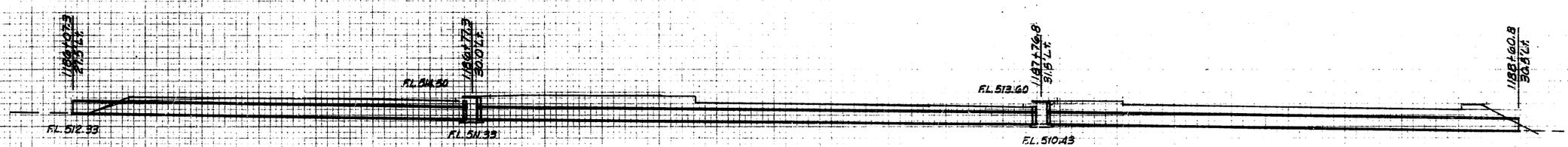
FINAL PLANS

DIST. 6-S-32-881 — 29

CO. 10 STE. GENEVIEVE — 32

10'

FINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — WORKED — AREAS — AREAS CHECKED — BY — DATE



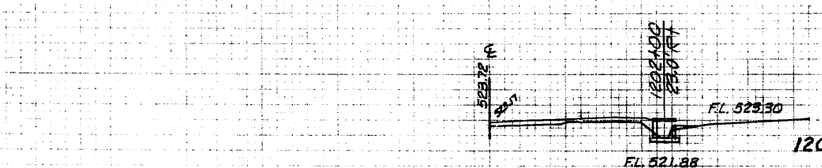
Sta. 1186+07.3 - 27.5' Lt. to Sta. 1186+76.3 - 30.0' Lt.
69'X24" Cl. III R.C.P.
Cl. B - 112 C.Y.

Sta. 1186+78.3 - 30.0' Lt. to Sta. 1187+75.8 - 31.5' Lt.
38'X24" Cl. III R.C.P.
Cl. B - 76 C.Y.

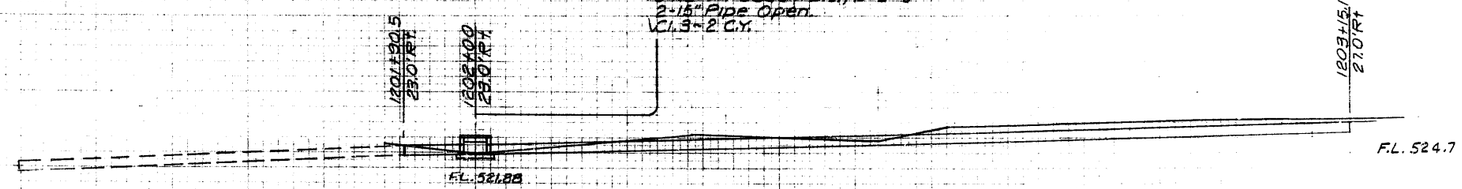
Sta. 1187+77.8 - 31.5' Lt. to Sta. 1188+60.8 - 30.5' Lt.
83'X24" Cl. III R.C.P.
Cl. B - 64 C.Y.

Sta. 1186+77.3 - 30.0' Lt., Type E-M
9'X2' Precast D.I., D=4'-0"
2-24" Pipe Open.
Cl. B - 7 C.Y.

Sta. 1187+76.8 - 31.5' Lt., Type E-M
9'X2' Precast D.I., D=4'-0"
2-24" Pipe Open
Cl. B - 7 C.Y.



Sta. 1202+00 - 23.0' Rt., Type E-M
9'X2' Precast D.I., D=2'-3"
2-15" Pipe Open.
Cl. B - 2 C.Y.



Sta. 1201+90.5 - 23.0' Rt. to Sta. 1201+98.5 - 23.0' Rt.
8'X15" C.M.P.
Cl. B - 1 C.Y.

Sta. 1202+01.5 - 23.0' Rt. to Sta. 1203+15.1 - 27.0' Rt.
110'X15" C.M.P.
Cl. B - 28 C.Y.

CULVERT SHEET #5

ORIGINAL SURVEY — SURVEYED — PLOTTED — AREAS — AREAS CHECKED — BY — DATE

FINAL PLANS

REV SEPT. 1, 1989

STATE	JOB NO. 6-S-32-88	SHEET NO.
MO		30
DIST NO.	PROJECT NO. RS-RSG-1337(6)	ROUTE
	COUNTY Ste Genevieve	32

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

STANDARD PLANS

✓	NO.	DESCRIPTION
✓	203.00E	EXCAVATION & EMBANKMENT
	203.02C	UNDERGRADING
	203.10A	TABULATED EARTHWORK & SECTION DATA
✓	203.20B	SUPERELEVATION SPIRALS & WIDENING (UNDIVIDED)
	203.21B	SUPERELEVATION SPIRALS & WIDENING (DIVIDED)
✓	203.30A	ENTRANCES & APPROACHES (LESS THAN 400 ADT)
	203.31B	ENTRANCES & APPROACHES (GREATER THAN 400 ADT - NO SAFETY ZONE)
	203.32D	ENTRANCES & APPROACHES (GREATER THAN 400 ADT - SAFETY ZONE)
	203.35A	MAILBOX TURNOUTS
	203.40E	TYPICAL DETAILS-RAMPS FOR INTERCHANGES (OTHER THAN 6:1 FORESLOPE)
	203.41E	TYPICAL DETAILS-RAMPS FOR INTERCHANGES (6:1 FORESLOPE)
	203.50J	TYPICAL CROSS-OVERS (DIVIDED HIGHWAYS)
	203.61	DRIVEWAY-TYPE I *
	203.62	DRIVEWAY-TYPE II *
	203.63	DRIVEWAY-TYPE III *
	203.64	DRIVEWAY-TYPE IV *
	203.65	DRIVEWAY-TYPE V *
	204.00D	EMBANKMENT CONTROL MEASURING DEVICES
	502.00M	CONCRETE PAVEMENT & BASE APPURTENANCES
	502.10E	DOWEL SUPPORTING UNITS
	503.00J	CONCRETE APPROACH SLABS TO BRIDGES.(ALSO INCLUDE 502.00)
	•	
	602.00A	RIGHT-OF-WAY & DRAIN MARKERS
	•	
	604.05B	PIPE CULVERT HEADWALLS - TYPE S *
	•	
	604.10B	HEADWALL-WITH ENERGY DISSIPATOR - 18"
	604.11B	HEADWALL-WITH ENERGY DISSIPATOR - 24"
	604.12B	HEADWALL-WITH ENERGY DISSIPATOR - 30"
	604.13B	HEADWALL-WITH ENERGY DISSIPATOR - 36"
	604.14B	HEADWALL-WITH ENERGY DISSIPATOR - 42"
	604.15B	HEADWALL-WITH ENERGY DISSIPATOR - 48"
	•	
	604.20B	DROP INLET - TYPE B
	604.21B	DROP INLET - TYPE C
	604.22B	DROP INLET - TYPE D
	604.23B	DROP INLET - TYPE E
	604.24B	DROP INLET - TYPE EE
	604.25C	DROP INLET - TYPE F *
	604.26D	DROP INLET - TYPE G *
	604.27C	DROP INLET - TYPE S (3 SHEETS)
	604.28E	DROP INLET - TYPE T (ALSO INCLUDE 614.30) *
	604.29C	DROP INLET - TYPE X
	604.30F	CONCRETE MANHOLES (ALSO INCLUDE 614.30)
	604.40E	PIPE COLLARS
✓	•	
	605.10A	CLASS A UNDERDRAINS
	606.00T	GUARD RAIL (2 SHEETS)
	606.20H	BRIDGE ANCHOR SECTION (BRUSH CURB)(ALSO INCLUDE 606.00) *
	606.21G	BRIDGE ANCHOR SECTION-CURB TYPE (ALSO INCLUDE 606.00) *
	606.22E	BRIDGE ANCHOR SECTION (SAFETY BARRIER CURB)(ALSO INCLUDE 606.00) *
	•	
	606.30E	TERMINAL SECTION (ALSO INCLUDE 606.00)
	606.40A	GUARD CABLE
	607.10R	CHAIN LINK FENCE *
	607.11B	CHAIN LINK FENCE FOR RETAINING WALLS
	607.20F	WOVEN WIRE FENCE (ALSO INCLUDE 607.10)

✓	NO.	DESCRIPTION
✓	608.00C	PAVED APPROACHES
	608.10G	CONCRETE SIDEWALK & WHEELCHAIR RAMPS
	608.20C	CONCRETE STEPS
✓	609.00G	CONCRETE CURB - CURB & GUTTER - GUTTER
✓	609.15A	PAVED DITCHES
	609.40D	DRAIN BASIN, SHOULDER PAVING & FILL SLOPE AT BRIDGE ENDS
	609.60A	DITCH LINER
✓	609.70C	ROCK LINING FOR CULVERT OUTLETS
	610.20E	BRICK MANHOLES (ALSO INCLUDE 614.30)
	611.60L	CONCRETE SLOPE PROTECTION
	612.10K	BARRICADES AND FLASHER SIGNS
	613.00A	PAVEMENT REPAIR *
✓	614.10N	CURB INLETS, GRATES & BEARING PLATES
✓	614.30D	MANHOLE FRAMES & COVERS
	615.00A	OFFICE FOR ENGINEER
✓	616.10K	TRAFFIC CONTROL DEVICES (3 SHEETS)(ALSO INCLUDE 903.01) *
	617.00V	CONCRETE TRAFFIC BARRIER (3 SHEETS)
	702.01F	16" CONCRETE PILES (APPROVED TYPES)(2 SHEETS) *
	702.02B	CAST-IN-PLACE CONCRETE PILES (APPROVED TYPES)
	703.20D	CONCRETE BOX CULVERTS, H20 LOADING (3 SHTS)(INCL 706.35)
✓	703.21D	CONCRETE BOX CULVERTS, H20 LOADING (3 SHEETS)(FLARED WINGS)(INCL 706.35)
	703.24E	CONCRETE BOX CULVERTS, SKEW DATA (703.20 & 703.30)(INCL 706.35) *
	703.25E	CONCRETE BOX CULVERTS, SKEW DATA (703.21)(3 SHTS) (FLRD WINGS)(INCL 706.35) *
	703.30E	CONCRETE BOX CULVERTS, 4' SPANS & LESS-ALL LOADING (INCL 706.35) *
✓	703.35B	CONCRETE BOX CULVERTS, CUTTING DETAILS (STRAIGHT WINGS) (INCL 706.35)
	703.36A	CONCRETE BOX CULVERTS, CUTTING DETAILS (FLARED WINGS) (INCL 706.35)
	703.50G	CONCRETE DOUBLE BOX STRUCTURE-SQUARE (INCL 706.35) *
	703.51F	CONCRETE DOUBLE BOX STRUCTURE-SKEWED (INCL 706.35) *
	703.52C	CONCRETE DOUBLE BOX STRUCTURE-CUT SECTIONS (INCL 706.35)*
	703.54D	DOUBLE BOX STRUCTURE REINFORCEMENT-H20 OR HS20 LOADING (3 SHEETS)
	703.55D	CONCRETE DOUBLE BOX STRUCTURE (FLARED WINGS) SQUARE (INCL 706.35) *
	703.56D	CONCRETE DOUBLE BOX STRUCTURE (FLARED WINGS) SKEWED (INCL 706.35) *
✓	703.60C	CONCRETE BOX STRUCTURE-PIPE INLET
	703.70C	CONCRETE TRIPLE BOX STRUCTURE-SQUARE (2 SHEETS) (INCL 706.35) *
	703.71C	CONCRETE TRIPLE BOX STRUCTURE-SKEWED (2 SHEETS) (INCL 706.35) *
	703.72C	CONCRETE TRIPLE BOX STRUCTURE-(FLARED WINGS)(SQUARE) • (2 SHEETS)(INCL 706.35) *
	703.73C	CONCRETE TRIPLE BOX STRUCTURE-(FLARED WINGS)(SKEWED) (2 SHEETS)(INCL 706.35) *
	703.74C	CONCRETE TRIPLE BOX STRUCTURE-CUT SECTIONS (INCL 706.35) *
	703.76B	CONCRETE TRIPLE BOX STRUCTURE REINFORCEMENT-H20 OR HS20 LOADING (5 SHEETS)
	706.30E	REINFORCING BAR SUPPORTS
✓	706.35E	BAR SUPPORTS FOR CONCRETE REINFORCEMENT
	712.40E	STEEL DAMS FOR BRIDGES (6" CHANNEL)
	725.31C	METAL CURTAIN WALL AND METAL INLETS
✓	726.30C	CULVERT INSTALLATION METHODS
	731.00S	PRECAST MANHOLES (ALSO INCL 614.30) *
✓	731.10H	PRECAST DROP INLETS (3 SHTS)(ALSO INCL 614.30 & 614.10) *

✓	NO.	DESCRIPTION
✓	732.00L	FLARED END SECTION (2 SHEETS)
	806.02A	STAPLE PLACEMENT FOR PLASTIC NETTING
		HIGHWAY LIGHTING
	901.00P	POLES & APPURTENANCES-30' (3 SHEETS) *
	901.01U	POLES & APPURTENANCES-45' (3 SHEETS) *
	901.05A	CONTROL PANEL CABINET DETAILS (2 SHEETS)(SEE NOTE)
	901.12C	POLE MOUNT CONT STA-SECONDARY SERV-480 V MULTI CIR (NOT METERED)
	901.15E	POLE MOUNT CONT STA-SEC SERV-120,240, & 480 V MULTI CIR
	901.16D	POLE MOUNT CONT STA-SEC SERV-480 V MULTI CIR (METERED)
	901.18D	POLE MOUNT CONT STA-SEC SERV-120/240 V MULTI CIR
	901.19D	POLE MOUNT CONT STA-SEC SERV-240 V MULTI CIR (NOT METERED)
	901.20D	POLE MOUNT CONT STA-SEC SERV-120/240 V MULTI CIR (SIG METERED)
	901.22E	POLE MOUNT CONT STA-SEC SERV-120/240 & 480 V MULTI CIR (BOTH METERED)
	901.23E	POLE MOUNT CONT STA-SEC SERV-240 V MULTI CIR (METERED)
	901.24D	POLE MOUNT CONT STA-SEC SERV-240 V MULTI CIR (LIGHTS & SIGNALS-BOTH METERED)
	901.25D	BASE MOUNT CONT STA-SEC SERV-120/240 V MULTI CIR
		NOTE: ALSO INCLUDE 901.05 WITH 901.12 THROUGH 901.25 EXCEPT 901.18
		TRAFFIC SIGNALS
✓	902.00E	SIGNAL HEADS, LENSES AND MOUNTING
✓	902.10J	PULL BOXES, CONTROLLERS, COND LOCATION
✓	902.15D	POWER SUPPLY ASSEMBLY
	902.21B	TELEPHONE INTERCONNECT
✓	902.30G	CONCRETE BASES
✓	902.40H	TUBULAR STEEL POST *
✓	902.50E	DETECTORS
	902.60E	SPAN WIRE DETAILS-STEEL POST
	902.70B	SPAN WIRE DETAILS-WOOD POLE
✓	902.80A	TRAFFIC SIGNAL SYMBOLS
		HIGHWAY SIGNING
✓	903.01C	ALPHABETS (2 SHEETS)
	903.02W	HIGHWAY SIGNING (7 SHEETS)
	903.03AK	SIGN MOUNTING DETAILS (5 SHEETS) *
	903.04D	WEIGH STATION SIGNING
	903.05C	TUBULAR SPAN SUPPORT-ONE TUBE, TYPE S
	903.06C	TUBULAR SPAN SUPPORT-TWO TUBE, TYPE S
	903.07C	TUBULAR CANTILEVER SUPPORTS, TYPE C
	903.08C	TUBULAR BUTTERFLY SUPPORTS, TYPE B
	903.09C	LIGHTING SUPPORT BRACKET
	903.10T	SIGN TRUSSES-OVERHEAD ALUMINUM (8 SHEETS)(INCL 903.03)
	903.12N	SIGN TRUSSES-BUTTERFLY & CANTILEVER-STEEL (7 SHEETS) (INCL 903.03)
	903.60S	SIGN TRUSSES-OVERHEAD STEEL (7 SHEETS)(INCL 903.03)

NOTES:
PLANS FOR THIS PROJECT WERE DEVELOPED USING DRAWINGS FROM THIS INDEX

* REVISED SINCE JANUARY 1988

422 203

MISSOURI
STATE HIGHWAY COMMISSION
PLAN AND PROFILE
OF PROPOSED
STATE ROAD

FEDERAL AID PROJECT

STE.GENEVIEVE COUNTY

SCALES. PLAN 1 IN. = 100 FT.
PROFILE. HOR. 1 IN. = 100 FT. VERT 1 IN. = 10 FT.
CROSS-SECTIONS 1 IN. = 5 FT.

LAYOUT: 1IN=1MI. APPROX.

1931 1
6 STE.GENEVIEVE 32

DELASSUS
FARMINGTON
U.S.R.#61
ST.FRANCOIS CO.
STE.GENEVIEVE CO.
LINE
COUNTY
EQUATION!
Sta. 60+99.95 Back
Sta. 60+97.38 Fwd.
EQUATION!
Sta. 123+04.13 Back
Sta. 122+91.63 Fwd.
Equation!
Sta. 167+96.1 Back
Sta. 167+79.10 Fwd.
SPROTT
JONCA
PROPOSED 'SC'
PROPOSED 'S'
R.32
T.36N
T.35N
T.37N
T.36N
R.7E
R.6E
WEINGARTEN
NEW OFFENBURG
PROPOSED 'SA'
ZELL
PROPOSED 'SB'
R.8E
R.9E
Leg 'A'
Leg 'B'
STE GENEVIEVE
PROPOSED
R.25
MISSISSIPPI RIVER
RANDOLPH CO. ILLINOIS.
Equation!
Sta. 1167+96.84 Ba
Sta. 1167+89.37 Ah.

CONVENTIONAL SIGNS

STATE OR NATIONAL LINE	LEVEE
COUNTY LINE	CULVERTS
CITY, VILLAGE OR BOROUGH	DRIVE INLET
TOWNSHIP LINE	TROLLEY POLE
SECTION LINE	POWER POLE
RANGE LINE	TELEPHONE OR TELEGRAPH POLE
RAILROAD	MARSH
PROPERTY	HEDGE
RIGHT OF WAY LINE	
TROLLEY WAY	GROUND ELEVATION
ROADS	
RAILROAD	
TOWNSHIP SURVEY LINE	

SUBMITTED
[redacted]
CHIEF ENGINEER MO. STATE HIGHWAY COMMISSION

RECOMMENDED FOR APPROVAL
[redacted]
DISTRICT ENGINEER - DISTRICT NO. 5

RECOMMENDED FOR APPROVAL
[redacted]
CHIEF ENGINEER BUREAU PUBLIC ROADS

APPROVED
[redacted]
DIRECTOR BUREAU OF PUBLIC ROADS

S&P-698-30

FED. ROAD DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR	SHEET NO	TO. SHEE.
5	MO.			2	32
INV. NO.	COUNTY			ROUTE	S.C. NO.
6	Stg Genevieve			30	13

FINAL PLANS

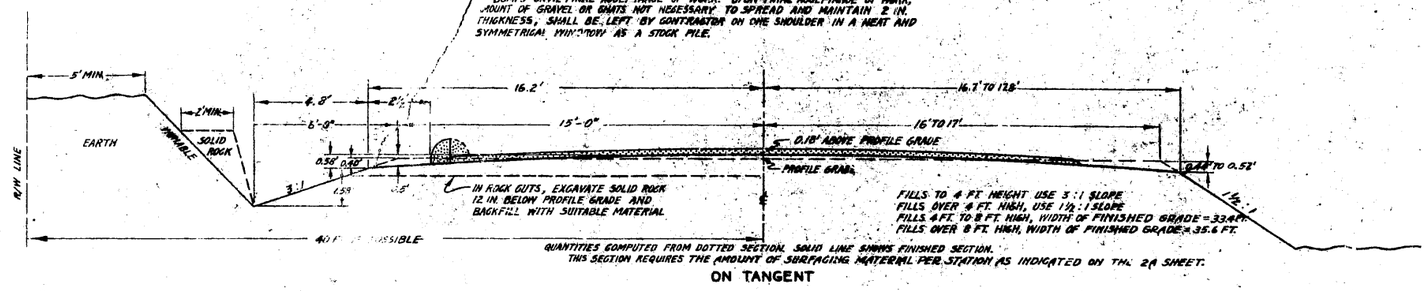
FEDERAL ROAD DIST. NO.	STATE	FED. A. P.	SHEET NO.	TO. SHEETS
5	MO.			

FINAL PLANS

BUREAU OF CONSTRUCTION
SEP 26 1932
HIGHWAY DEPT.

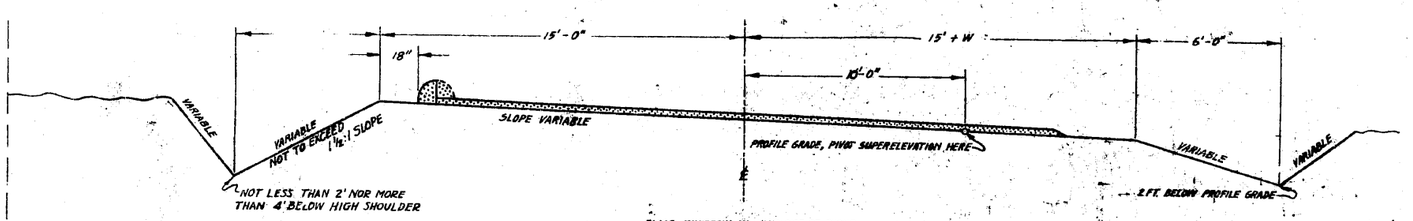
NOTE

A UNIFORM THICKNESS SHALL BE SPREAD OVER SUBGRADE FROM WINDROW ON ONE SHOULDER TO POINT 4 FT. FROM OPPOSITE SHOULDER AND SHALL BE GRADED AND MAINTAINED DAILY AT EXPENSE OF CONTRACTOR, FREE FROM HOLES, RUTS OR BUMPS UNTIL FINAL ACCEPTANCE OF WORK. UPON FINAL ACCEPTANCE OF WORK, AMOUNT OF GRAVEL OR CHATS NOT NECESSARY TO SPREAD AND MAINTAIN 2 IN. THICKNESS, SHALL BE LEFT BY CONTRACTOR ON ONE SHOULDER IN A NEAT AND SYMMETRICAL WINDROW AS A STOCK PILE.



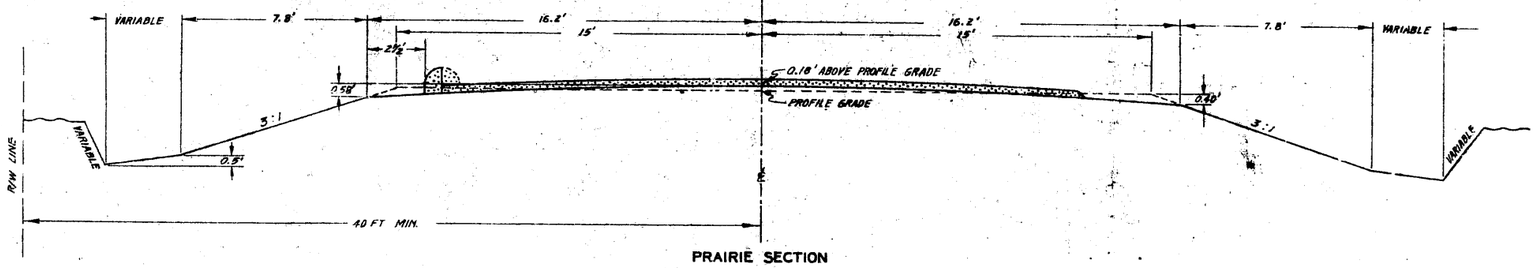
QUANTITIES COMPUTED FROM DOTTED SECTION, SOLID LINE SHOWS FINISHED SECTION. THIS SECTION REQUIRES THE AMOUNT OF SURFACING MATERIAL PER STATION AS INDICATED ON THE 2A SHEET.

ON TANGENT

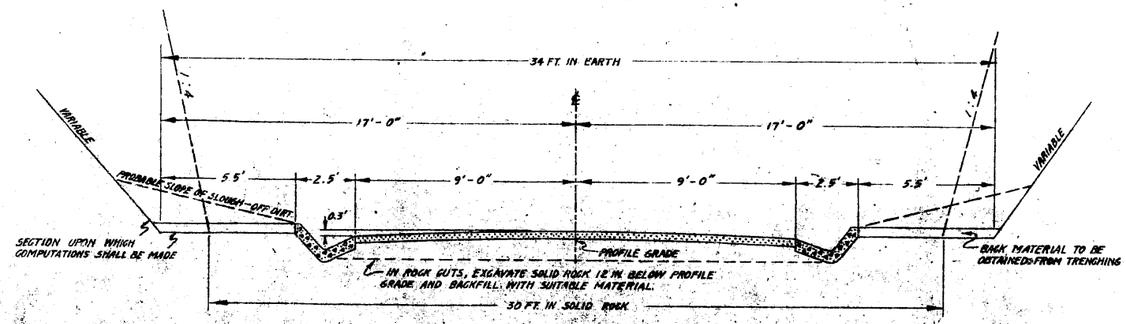


PLACE WINDROW ON HIGH SIDE OF CURVE

ON CURVE



PRAIRIE SECTION



GUTTER SECTION

SUPERELEVATION PER FOOT OF WIDTH

$$S = \frac{0.067\,V^2}{R} \qquad V = 35\ \text{M.P.H.} \qquad R = \text{RAD.}$$

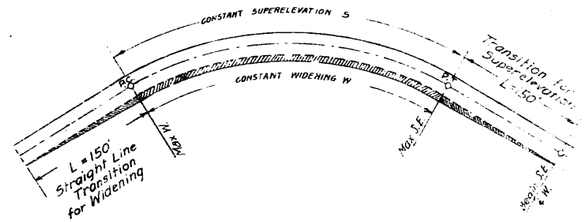
DEGREE	1	2	3	4	5	5°50' up
S IN FT.	0.0143	0.0286	0.0429	0.0573	0.0716	0.0835

Value of W for Roads designed for High Type Surfacing.

DEGREE	6°-7'59"	8°-9°59"	10°-13°59"	14°-15°59"	16°	17°	18°	19° UP
W IN FT.	2'	3'	4'	4.5'	5'	5.5'	6'	6.5'

Value of W for Secondary Roads.

DEGREE	0-9	10	11	12	13	14	15	16	17	18	19 UP
W IN FT.	0	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5



SCHEME OF WIDENING AND SUPERELEVATION TRANSITION

GRAVEL OR CHATS OR TYPE OF SURFACING INDICATED ON 2A SHEET

ON 30 FT. GRADED EARTH

S&P-698

486

Name of Road ST. FRANCOIS CO. LINE TO STE. GENEVIEVE.

MISSOURI STATE HIGHWAY COMMISSION

ESTIMATE SHEET

County of STE. GENEVIEVE.

Length 3.137 Miles

Type of Improvement 30' GRADED EARTH WITH GRAVEL SURFACE.

FED. ROAD DIST. No.	STATE	FED. AID PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
5	MO.			2A	62
DIV. No.	COUNTY			ROUTE	SEC. No.
6	Ste. Genevieve			32	43

EXCAVATION

Station	"A"	"C"	Borrow	O.H.	Pickup Rock
1005+55					
1014+34	639	38			2
1016+15	338				
1018+76	822				
1025+62	370				
1032+63	1124				1
1035+35	525				
1036+84	292		479		6
1039+60	557	8			
1040+80	136				
1047+69	816				
1054+30	648				
1061+20	659				
1067+30			6931	1545	
1077+33	2193	691	750	67.32	5
1090+26	1830	750	205		5
1095+28	1160				5
1091+25	1344				
1097+00	1209				
1100+66	736				
1104+96	1365	3			11
1108+93	1322	2			5
1111+00	420				
1116+31	1162				12
1118+87	532				
1123+50	779				
1127+06	433				
1130+74	461				1
1136+00	981				4
1143+12	1858				3
1148+20	730				8
1155+70	463				6
1158+04	536				3
	Quantities On "A" Line.				
1158+04					
1164+50	1280				
1167+65	647				
1171+82	578				
	Quantities On "B" Line.				
1158+04					
1161+00	270				2
1163+79	429				3
1170+70	896				3
1173+52	439				1
	Widening On Route 25				
1017+50					
1018+70	41				
1022+70	134				
1023+00	255				
SUBTOTALS	32179	1489	8365	8277	86
F.E. & S.B.	720				
Inlet & Outlet	75				
Spec. Ditch	31				
TOTALS	33005	1489	8365	8277	86

CLEARING & GRUBBING.

Sheet No.	Clear. Units	Grub. Units
3.	1	3
4.	80	36
5.	15	16
6.	150	91
7.	75	19
8.	37	27
9.	44	35
TOTAL UNITS	402	227
TOTAL ACRES	9.2	5.2

STONE DITCH CHECKS.

Sheet No.	Co. Yd.
3.	0.0
4.	23.2
5.	45.0
6.	2.0
7.	9.0
8.	28.9
9.	9.0
TOTAL	117.1

SPECIAL DITCHES

Sta.	Co. Yd.	Remarks.
1129+90	1	Diversion Ditch.
1164+50	5	Inter. Lines "B"-"B"
1162+60	25	" " " "
TOTAL	31	

REINFORCED CONCRETE BOX CULVERTS

STATION	STANDARD	SIZE	LENGTH	CONCRETE	REINF.	EXCAV.	REMARKS	Entol. Outlet
1066+80	C338	8x6	52'	63.99	5372	119	20°-3 Term. 4' F.W.	47
1143+30	C243	3x2	37'	10.05	1482	10		25
SUB TOTAL				74.04	6854	129		72
Cross Road Pipe Culv.				13.58	1036	172		3
F.E. Culv. Exc.						11		
Removal Exc.						10		
TOTAL.				87.62	7890	322		75

F.E. & S.B. APPROACHES

Sta.	Side.	15"	Extr. Below ℄	Extr. Exc.	"A" Exc.	Remarks.
1009+05	Rt.				3	F.E.
1011+45	Lt.	20'			39	F.E.
1030+30	Rt.				12	S.B.
1034+83	Rt.	20'				F.E.
1037+80	Rt.	20'			57	F.E.
1044+29	Lt.	20'		3	41	F.E.
1060+60	Rt.	20'			1	F.E.
1074+20	Rt.				4	F.E.
1081+55	Lt.	20'			54	F.E.
1085+75	Lt.				2	F.E.
1087+20	Rt.	20'			9	F.E.
1102+90	Lt.	20'			4	F.E.
1103+22	Rt.				1	F.E.
1114+15	Rt.				114	F.E.
1120+30	Rt.	20'			8	F.E.
1132+50	Lt.	20'				F.E.
1133+25	Rt.	20'			62	F.E.
1147+19	Lt.	20'			7	F.E.
1147+25	Rt.	20'			14	F.E.
1153+60	Lt.	20'			105	F.E.
1156+35	Rt.				88	F.E.
1157+95	Lt.	20'	10'	2		F.E. "B" Line.
1162+36	Rt.	20'		6		F.E. "B" Line.
1163+25	Lt.	20'			22	F.E. "B" Line.
1164+20	Rt.		20'		9	F.E. "B" Line.
1169+00	Rt.	20'				F.E. "B" Line.
1171+70	Rt.		20'		14	F.E. Rt. #25
TOTAL.		360'	50'	11	720	

CROSS ROAD PIPE CULVERTS.

Sta.	18"	Conc.	Steel	Culv. Exc.	"B" Outlet
1014+00	52'	0.97	74	10	
1026+00	40'	0.97	74	8	
1035+24	52'	0.97	74	10	
1039+66	42'	0.97	74	13	
1047+00	38'	0.97	74	10	1
1080+00	66'	0.97	74	13	
1093+18	48'	0.97	74	8	
1101+48	48'	0.97	74	8	
1110+55	38'	0.97	74	9	
1113+50	40'	0.97	74	18	
1123+50	50'	0.97	74	9	
1131+00	40'	0.97	74	6	1
1138+00	40'	0.97	74	15	1
1171+78	112'	0.97	74	35	
TOTAL	706	13.58	1036	172	3

REMOVAL EXCAVATION

Sta.	Culv. Exc.
1154+52	6
1025+50	4
TOTAL	10

SUB GRADE SCARIFYING.

Sta. to Sta.	No. Sta.
1008+55 to 1015+50	6.9
TOTAL	6.9

LENGTH OF PROJECT

End of Project	Station	1179+52		
Beginning of Project	Station	1008+55		
Apparent Length		16497	Feet	
Equations and Exceptions:				
1106+74.23 BK = 1106+15.04 Fwd =		+59.19		
1168+06.89 BK = 1168+00.08 Fwd =		+6.88		
Total Corrections		+66.07	Feet	
Net Length of Project		16563.07	Feet	
16563.07 Feet : 5280 =		3.137	Miles	

GRAVEL SURFACE.

Net Length of Proj.	16563.07	Ft.
Additional for Leg "B"	1200.00	"
Net Length Surface	17763.07	"
177.6307 Sta. x 200 C.Y. =	3553	Cu. Yd.
"T" Connection on Leg "B"	200	"
TOTAL THEO. GRAVEL	3753	Co. Yd.
ACTUALLY PLACED	3852	Co. Yd.

GRAVEL IN STOCK PILES.

Net Length of Surface	17763.07	Ft.
= 3.364 Miles.		
3.364 x 200 Cu. Yds. =	673	Cu. Yd.
TOTAL THEO. GRAVEL	673	Cu. Yd.
ACTUALLY PLACED	673.25	Cu. Yd.

SURFACE GRAVEL BOOKS.

Book No.	Sta.	to Sta.	Co. Yds.
1.	1008+55	1026+00	296.00
2.	1026+00	1040+00	295.00
3.	1040+00	1054+00	270.00
4.	1054+00	1064+30	261.50
5.	1064+30	1079+00	254.00
6.	1079+00	1092+10	247.00
7.	1092+10	1105+10	276.50
8.	1105+10	1119+50	280.50
9.	1119+50	1132+00	280.50
10.	1132+00	1147+25	298.00
11.	1147+25	1159+01	206.00
11.	1159+01	1164+25	88.50 "A" Line.
12.	1164+25	1170+80	289.00 "B" Line.
13.	1170+80	1173+09.5	34.00 "B" Line.
13.	1159+01	1169+70	257.00 "B" Line.
14.	1169+70	1173+52	89.00 "B" Line.
14.	Rt. #25	Widening & Repr.	129.50
TOTAL.			3852.00 C.Y.

STOCK PILE GRAVEL BOOKS.

Book No.	Sta.	to	Co. Yds.
1.	1084+00	Ft.	284+75
2.	"	"	279.50
3.	"	"	111.00
TOTAL.			673.25 C.Y.

FORCE ACCOUNT.

Sta.	Description	#
1064+80	Cutting Spec. Ditch	Rt. 2.88
TOTAL		# 2.88

STONE FOR DITCH CHECKS.

Sta.	Co. Yd.
1138+00	2
TOTAL	2

SUMMARY

ITEM No.	DESCRIPTION	UNIT	TOTAL UNITS	No. UNITS FED. AID ONLY
1A	Clearing	Acre	9.2	
1B	Grubbing	"	5.2	
1D	Cl. "A" Excavation	Cu. Yd.	33005	
1E	Cl. "C" Excavation	" "	1489	
1I	Culvert Excavation	" "	322	
1L	Borrow Excavation	" "	8365	
1M	Overhaul	Sta. Yd.	8277	
1AA	Gravel Surface	Cu. Yd.	3852	
1AB	Gravel in Stock Pile	" "	673.25	673.25
1BB	Cl. "B" Conc. Mas.	" "	87.62	
1B	15" C.M. Pipe Culverts	Lin. Ft.	360	
1B	18" C.M. Pipe Culverts	" "	706	
1BG	Reinf. Pipe Culverts	" "	50	
1BB	Reinf. for Conc. Mas.	Lbs.	7890	
35C	Stone in Ditch Checks	Cu. Yd.	117.1	

CONTINGENT ITEMS.

Subgrade Scarifying	Sta.	6.9
Pickup Rock	Cu. Yd.	86
Stone for Ditch Checks	" "	2
Force Account	$	2.88

Printed A. S. Aloe Co. 3M 3-32

Prepared By W.M. Leavel Date 9-23 1932 Checked in Div. Office By J.R.E & W.M.L Date 9-23 1932 Checked in Central Office By _____ Date _____ 193

2 62

6 Sta. Generals 38. 44

PLANS
CONSTRUCTION
RECEIVED
HIGHWAY DEPT.

Nail in Hub

Nail in Hub

Nail in Hub

Nail in Hub

POT Sta 1008+29.87

Wm. JOKERE-ST

N

HERMAN EKENFELS

PLAN

1000

1005

1010

Sta 1008+55
BEGINNING
Route 38.
Section 43.

HERMAN EKENFELS

Wm. JOKERE-ST

Prop. Line

FARM ENTRANCES.					
STATION	SIDE	SIZE	LENGTH	EXCAVATION	FILL
[illegible]	Rt.	[illegible]	—	3	1

CLEARING & GRUBBING			
STATION to STATION		Clearing UNITS	Grubbing UNITS
1008+55	1010+00	1	3

ELEVATION

B.M. Spike 2" in root of 8" Oak 60 ft Rt Sta 1008+75 Elev 727.32

— LEGEND —
THEORETICAL GRADE
CONSTRUCTED GRADE

780
770
760
750
740
730
720
710
700

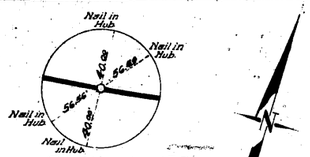
DATUM LINE EL 690

1000 1 2 3 4 1005 6 7 8 9 1010

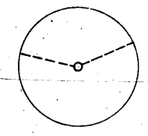
Sta. 1008+55 to 1015+30
Subgrade scarif. d. - 6.9 Sta.

6 Ste Genevieve 32.45

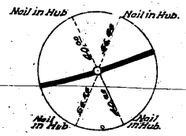
FINAL PLANS



P.C. Sta 1018+45.5



P.I. Sta 1026+13.15
Δ 30° 00'
D 2° 00'
T 767.65'
L 1500.0'
L' 101.0
R 2864.93'
S.E. 0.02246 per ft
L.C. or Tran. 130'
R.O.T. 10' Lt C



P.T. Sta 1033+45.5

JOE KOHN

JOE KOHN

JOSEPH BOWMAN

MRS LOUIS GISI

WM. JOKERST

JOE KOHN

Side Road

Born

Ho

Old Roadway

PLAN

N 83° 41' E

N 55° 41' E

1010 1015 1020 1025 1030 1035 1040

P.C. 1018+45.5

P.T. 1033+45.5

STATE HIGHWAY CONSTRUCTION
SEP 26 1932
HIGHWAY DEPT.

FARM ENTRANCES

STATION	SIDE	SIZE	LENGTH	EXCAVATION	FILL
1011+45	Lt	15'	20'	29	0
1033+65	Rt	No Pipe		0	11
1029+75	Lt	No Pipe		0	26
1030+30	Rt	No Pipe		12	9
1034+89	Rt	15"	20'	0	4
1037+80	Rt	15"	20'	57	0

CLEARING & GRUBBING

STATION to STATION		CLEARING UNITS	GRUBBING UNITS
1010+00	1018+00	35	22
1026+00	1029+50	12	2
1031+00	1034+00	17	8
1035+00	1040+00	16	4
Total		80	36

DRAINAGE STRUCTURES

STATION	STRAND	SIZE	SKEW	LENGTH	CONCRETE	STEEL	EXCAVATION	REMARKS
1014+00	CM.P.	18"	90°	52'	0.97	74	10'	2-C230 Hwls.
1026+00	CM.P.	18"	90°	40'	0.97	74	8'	2-C230 Hwls.
1035+24	CM.P.	18"	90°	52'	0.97	74	10'	2-C230 Hwls.
1039+66	CM.P.	18"	90°	42'	0.97	74	13'	2-C230 Hwls.

DITCH CHECKS

STATION	STATION	KIND	SIDE	NO	CU YDS
1010+00	1018+00	Show	—	1	—
1020+26	1022+26	N	Rt	1	16.0
1023+67	—	"	Lt	1	1.4
1025+11	—	"	Lt	1	1.3
1029+61	—	"	Lt	1	1.5
1032+00	1034+50	"	Rt	1	3.0
Total				22	23.2

Sta 1035+24

ELEVATION

DATUM LINE Ele 630

B.M.# Spike in Root of 8" Cedar
30' Lt. Sta 1026+10 Elev 674.90

B.M.# Spike in Rt of 14" B. Oak 60' Lt.
Sta 1017+00 Elev. 710.98

B.M.# NW Corn Stone in Foundation Center North Side Arch
22' Rt Sta 1036+30
Elev. 661.76

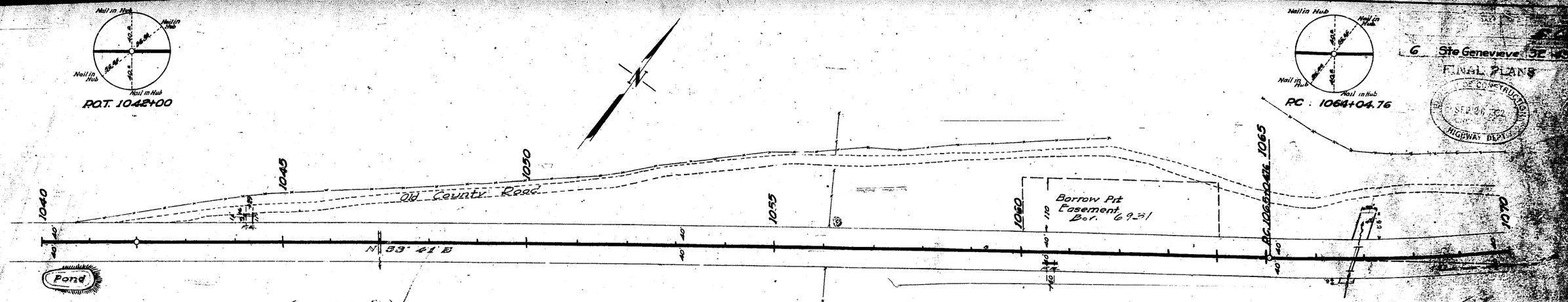
LEGEND
Theoretical Grade
Constructed Grade

Class A 629'
F.F. 92'
Total C.A. 721'
Class C 35'
Fill 619'
F.F. Fill 6.4'
Total Fill 625.4'
Cubic Yds 10 Per Station
Scarify 6.9

C.A. 339'
Fill 196'
C.A. 862'
Fill 400'
C.A. 370'
Fill 999'
F.F. 11'
Total Fill 544'

C.A. 525'
Fill 464'
C.A. 282'
Fill 464'
Total C.A. 807'
Total Fill 928'
F.F. 32'
Fill 432'
Bit. Sur. 24'
Pickup 8'
C.A. 18'
Fill 32'

Colv. Ex. 10'



6 Ste Genevieve 52 & 53
FINAL PLANS

DEPT. OF CONSTRUCTION
SEP 20 1962
HIGHWAY DEPT.

Borrow Pit
Sta 1041+00
Cut Font w Rt (c. Rt 18. Approximate)
Exc. use in Balance
1035+30 to 1051+54
(A) Bor. 417
Bor. Pt Fill 109

DITCH CHECKS

STATION	STATION	KIND	SIDE	NO.	CU.YDS.
1042+50	1046+50	Spec	Lt	9	9
1053+00	1054+10		Lt	1	1
1071+	1071+		Rt	2	12
TOTAL:				41	45

FARM ENTRANCES

STATION	SIDE	SIZE	LENGTH	CU. YDS. Exc.	CU. YDS. Fill	FILL
1044+29	Lt	15"	20'	3	4	0
1060+	Rt	15"	20'		1	5

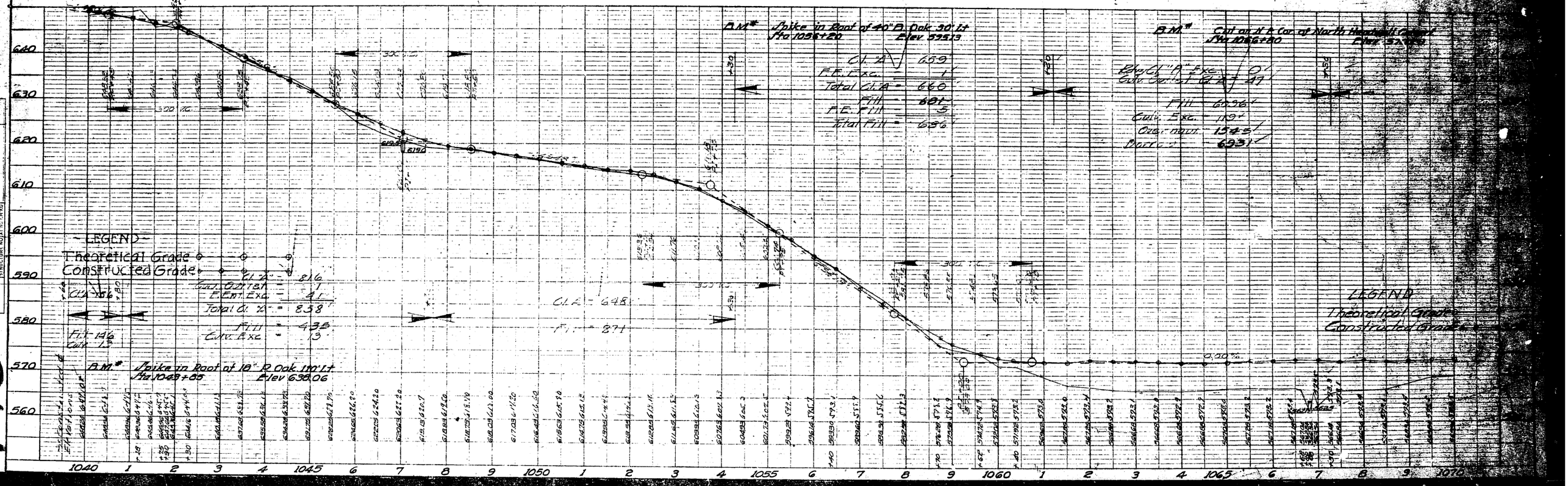
DRAINAGE STRUCTURES

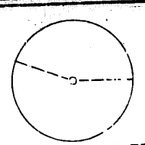
STATION	STAND	SIZE	SKEW	LENGTH	CONCRETE	STEEL	EXCAVA	REMARKS
1047+00	C.M.P.	18"	90°	38'	097	74	10	2C230 Hwls.
1066+80	C.S.P.	8'x6'	20°	52'	63.99	9372	113	Mod. for 30° Skew Hdwls.

CLEARING & GRUBBING

STATION to STATION		CLEARING UNITS	GRUBBING UNITS
1041+00	1042+50	5	6
1062+50	1064+00	4	4
1066+50	1067+00	6	6
Totals		15	16

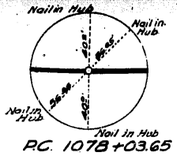
Sta 1066+80 to 1067+00
Cut Spec. Ditch
F.A. 92.08
Necessary to use Hand Labor Due to Mud



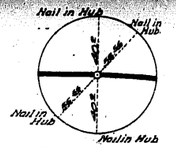


P.I. 1071+60.55

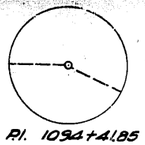
Curve Data
L = 19° 29'
D = 1° 30'
T = 655.79'
L = 1298.99'
E = 55.89'
R = 3819.83'
SE = 0.0215' PER FT.
LG OF TRANS 150'
FOR 18' L.T.C.



P.C. 1078+03.65



P.C. 1091+15.69



P.I. 1094+41.85

Curve Data
Δ = 25°39'10"
D = 4°00'
T = 326.16'
L = 641.25'
E = 36.66'
R = 1432.69'
SE = 0.0375' PER FT.
LG OF TRANS 150'
12°T. 18°R.T.C.



P.T. 1097+56.94

6 Ste Genevieve 32 A

FINAL PLANS

PLAN

HENRY GOSS

Timber

Pond

Cultivated

HENRY GOSS

AUGUST GIELER

Cultivated

Timber

HENRY GOSS

LOUIS GISI

Cultivated

Timber

HENRY GOSS

Cultivated

AUGUST GIELER

P.C. 1078+03.65

P.C. 1091+15.69

P.T. 1097+56.94

1070 1075 1080 1085 1090 1095 1100

40 50 40 35 35 40 40 40 40

DITCH CHECKS

STATION	STATION	KIND	SIDE	NO	CU. YDS.
1070+50	1071+00	Earth	Rt.	3	2
Total					2

FARM ENTRANCES

STATION	SIDE	SIZE	LENGTH	CU YDS	FILL
1074+20	Rt.	No Pipe		4	24
1081+35	Lt.	18"	20'	64	0
1085+75	Lt.	No Pipe		2	9
1087+20	Rt.	15"	20'	9	0
1070+375	Rt.	No Pipe		0	26

DRAINAGE STRUCTURES

STATION	STAND	SIZE	SKEW	LENGTH	GRADE	STEEL	EXCAVATION	REMARKS
1080+00	C.M.P.	18"	90°	66'	0.97%	74#	13	2-C230 Hd/ls.
1093+18	C.M.P.	18"	90°	48'	0.97%	74#	8	2-C230 Hd/ls.

CLEARING & GRUBBING

STATION to STATION		CLEARING UNITS	GRUBBING UNITS
1070+50	1071+00	4	1
1072+50	1084+00	83	58
1086+00	1099+00	62 V	31
1099+50	1100+00	1	1
Total:		150	91 V

ELEVATION

C.I.A. = 2293
F.E. Exc. = 4
Total C.I.A. = 2297
Fill = 691
Ext. Fill = 1397
Earth Fill = 150
F.E. Fill = 29.4
Total Fill = 1576.4
Borrow = 881
Borrow Bit = 143
Pick-up Rock = 5
Rock Fill = 120
Over Haul = 6232

C.I.A. = 1830
F.E. Exc. = 750
Fill = 2678
Rock Fill = 205
Earth Fill = 1473
Rock Fill = 92
Pick up Rock 5'

C.I.A. = 1160
F.E. Exc. = 34
Total C.I.A. = 1194
Fill = 1091
Pick up Rock = 5

C.I.A. = 1344
F.E. Exc. = 11
Total C.I.A. = 1355
Fill = 843
F.E. Fill = 3
Total Fill = 846

C.I.A. = 1209
Fill = 1024
Unv. Exc. = 8

C.I.A. = 936
Fill = 508

Top 1062+63

640 630 620 610 600 590 580 570

+1.40%
+10.40%
+9.00%
-1.40%
+1.20%

300' V.C.
300' V.C.
300' V.C.
300' V.C.
600' V.C.

5997
5994

LEGEND
Theoretical Grade
Constructed Grade

B.M.# Nail & Wa. in Twin Block Jack
80' Lt. Sta. 10
Elev 612.15

B.M.# Spike in 6" Block Oak 35 Ft.
Lt. to 1088+75
Elev 613.34

B.M.# 3 Nails in Large Root of 18" Elm
80' Lt. Sta. 1096+20
Elev 619.21

DATUM LINE ELE. 590

1070 1 2 3 4 1075 6 7 8 9 1080 1 2 3 4 1085 6 7 8 9 1090 1 2 3 4 1095 6 7 8 9 1100

KEUFFEL & ESSER CO.

Curve Data
Δ = 17° 02'
D = 4° 00'
T = 214.54'
L = 425.83'
E = 13.97'
R = 1432.69'
SE = .00575 PER FT
L.C. OF TRANS 150'
ROT 16'17"C

P.C. 1102+48.4

P.I. 1104+62.34

P.T. 1106+74.23

EQUATION
1106 + 74.23 Bk.
1106 + 19.04 Fwd.

P.O.T. 1114+64.53

P.C. 1123+18.07

AUGUST GEILER

Cultivated

PLAN

P.C. 1102+48.4

P.T. 1106+74.23

Old County Road

P.I.P. County Road

Cultivated

FRED KOHN

FARM ENTRANCES

STATION	SIDE	SIZE	LENGTH	CU. YDS.	FILL
1102+70	Rt.	No Pipe		0	54
1102+90	Lt.	15"	20'	4	0
1103+28	Rt.	No Pipe		1	79
1113+35	Lt.	No Pipe		0	15
1114+15	Rt.	No Pipe		114	0
1120+30	Rt.	15"	20'	8	0
1125+09	Rt.	No Pipe		0	9

DITCH CHECKS

STATION	STATION	KIND	SIDE	NO.	CU. YDS
1106+00	1106+55	Stone	Lt.	4	4
1107+52	1108+81	"	Lt.	2	2
TOTALS				37	21

DRAINAGE STRUCTURES

STATION	STAND	SIZE	SKEW	LENGTH	CONCRETE	STEEL	EXCAVATION	REMARKS
1101+48	CMP	18"	90°	48'	0.97	74	8	2C230 Hwl/s.
1110+55	CMP	18"	90°	38'	0.97	74	9	2C230 Hwl/s.
1113+50	CMP	18"	90°	40'	0.97	74	10	2C230 Hwl/s.
1123+30	CMP	18"	90°	50'	0.97	74	9	2C230 Hwl/s.

CLEARING & GRUBBING

STATION to STATION		CLEARING UNITS	GRUBBING UNITS
1100+00	1108+50	29	13
1111+00	1117+00	17	4
1123+00	1130+00	29	2
Total		75	19

Sta 1129+30 Lt.
Diversion ditch

ELEVATION

Cl A = 1162'
F.E. Exc. = 114
Total Cl A = 1276
Fill = 829
F.E. Fill = 15
Total Fill = 859
Shr. Exc. = 18
Pick-n-rock = 12

Cl A = 1923'
Cl S = 2
Fill = 1077
Pick-n-Rock = 5

Cl A = 392'
Fill = 511'

Cl A = 779'
F.E. Exc. = 8
Total Cl A = 787'
Fill = 470'
Cul. Exc. = 9

Cl A = 493'
Fill = 278'
F.E. Fill = 9
Total Fill = 287
Pick-up = 21

Cl A = 446'
Shr. Exc. = 8
Total Cl A = 454'
Fill = 277'
Pick-up = 21

EQUATION Sta 1106+74.23 Bk. = Sta 1106+19.04 Fwd.

B.M.# Spike & Washer in Root of 20" Oak
40' Rt. Sta. 1105+85 Elev. 610.83

B.M.# Spike & Washer in Base of 8" Sycamore
40' Lt. Sta. 1115+20 Elev. 570.40

B.M.# Spike & Washer in Root of 30" Sycamore
45' Lt. Sta. 1126+26 Elev. 544.46

LEGEND
Theoretical Grade
Constructed Grade

LEGEND
Theoretical Grade
Constructed Grade

DATUM LINE EL. 520

6 62

6 SteGenevieve 32 49

FINAL PLANS

SEP 16 1949

HIGHWAY DEPT.

Curve Data
Δ = 17°06½'
D = 0° 45'
T = 1148.59'
L = 2280.0'
R = 85.84'
SE = 0.067 PERFT
LG OF TRANS 150'
BOT 10'LTC.

PI. 1134+66.6

PT. 1145+98.07

A. SEILER

CHAS KOHN

MRS KATE WHIPPLER

Plan

1130 1135 1140 1145 1150 1155

SINK HOLE

N. 43° 48' E.

N. 89° 43' E.

KOHN Est.

Prop. Line

CHAS KOHN

Property Line

Lake

MRS KATE WHIPPLER

DITCH CHECKS

STATION to STATION		KIND	SIDE	NO.	CU YDS
1134+32	1137+26	—	Lt.	4	42 C
1137+26	1139+26	—	Lt.	4	60
1139+26	1140+76	—	Lt.	1	14
1140+76	1141+81	—	Lt.	1	13
1141+81	1142+82	1142+75	Lt.	6	64
1142+82	1143+69	1143+75	Lt.	5	43
				27	284

FARM ENTRANCES

STATION	SIDE	SIZE	LENGTH	EXCAVATION	CU YDS
1130+00	Lt.	16'	20'	0	32
1133+25	Rt.	12'	40'	6½	0
1141+03	Lt.	12'	40'	0	0
1147+25	Rt.	12'	20'	14	0

DRAINAGE STRUCTURES

STATION	STAND	SIZE	SKEW	LENGTH	CONCRETE	STEEL	EXCAVAT	REMARKS
1131+00	CMP	18"	90°	40'	0.97	74	6	2C230 Hwlls.
1138+00	CMP	18"	90°	40'	0.97	74	16	2C230 Hwlls
1143+30	CMP	3x2	90°	37'	10.05	1482	10	Take Exc. 25CY
1154+52	CMP	18"	90°	28'	(Removal)		6	Not Necessary

CLEARING & GRUBBING

STATION to STATION		CLEARING UNITS	GRUBBING UNITS
1130+00	1133+50	16	3
1136+50	1139+50	5	15
1144+00	1146+50	5	1
1150+50	1155+00	11	8
Total		37	27

Elevation

B.M.* X on SW Cor. of Rt. Conc. Hdwll of Culv 60' Rt. Sta. 1143+00 Elev 478.06

B.M.* Spike & Washer in Root of 16" Pecan 160' Rt. Sta. 1151+34 Elev 487.64

B.M.* Spike & Washer in 12" Hickory 175' Rt. Sta. 1135+00 Elev 510.62

LEGEND
THEORETICAL GRADE
CONSTRUCTED GRADE

DATUM LINE Elev. 450

1130 1 2 3 4 1135 6 7 8 9 1140 1 2 3 4 1145 6 7 8 9 1150 1 2 3 4 1155

PLAN — SUPPLIED — NOTE BOOK — GRADES CHECKED — R/W NOTED — CITY OR COUNTY MK'S CHECKED — NO. 1

PROFILE — SUPPLIED — NOTE BOOK — GRADES CHECKED — R/W NOTED — CITY OR COUNTY MK'S CHECKED — NO. 2

493

P.C. 1156 +58.78

P.C. 1159+10.17

P.I. 1159 +20.05
Curve Data
Δ 6° 58'
D 2° 00'
T 221.27'
L 441.66'
R 2864.93'
E 8.39'
SE 0.0286 PER FT
LG OF TRANS. 150'
ROT 10° LT C.

P.T. 1169 +40.44

P.I. 1163+48.22
Curve Data
Δ 45° 36'
D 5° 30'
T 438.05
L 829.09'
E 98.3'
R 1042.14'
SE .09327 PER FT
LG OF TRANS 150'
ROT 10° RT C.

P.T. 1157+39.26

END of LEG "A"
Sta 1172 + 09.5 Rt. 32.
Sta 1123 + 00 Rt. 25.

Note - Shaded area denotes existing Right of way as per Route 25 Sec 9 -

Curve Data
P.I. 1026 + 00 Rt 25
Δ 47° 20'
D 11° 00'
T 466.57
E 93.30
L 892.93

FRANK WHIPPLER

Sta 1161+50 Spec. Ditch at intersection of A & B Lines 5 C.Y.

Sta 1162+80 Spec. Ditch at intersection 85 C.Y.

"A" Line

FRANK WHIPPLER

EQUATION
1168+06.88 Bk.
1168+00 Fwd.

SIDE ROAD

Private Road

MRS KATE WHIPPLER

RICHARD VESSEL

HENRY ROZER

"B" Line

Route 25

1155 1160 1165 1170 1175

CLEARING & GRUBBING

STATION	to STATION		
1152+00	1157+00		
1157+50	1163+50	15	
1163+50	1165+00	5	
1165+50	1173+00	10	
TOTALS			

FARM ENTRANCES

STATION	SIDE	SIZE	VENEER		
1156+50	Lt.	15'	60'		
1158+50	Rt.	Hedge			
1159+50	Lt.	15'			
1160+50	Rt.	15'			
1162+50	Lt.	15'			
1163+50	Rt.	15'			
1165+50	Lt.	15'			
1166+50	Rt.	15'			
1167+50	Lt.	15'			
1168+50	Rt.	15'			
1169+50	Lt.	15'			
1170+50	Rt.	15'			
1171+50	Lt.	15'			
1172+50	Rt.	15'			

DRAINAGE STRUCTURE

STATION	STRUC	SIZE	SKEW	LENGTH	CONCRETE	STEEL	EXCAVATION	REMARKS
1171+78	CMP	18"	[illegible]	112	[illegible]			[illegible]
1025+50	CMP	15"	[illegible]	40	[illegible]			[illegible]

DITCH CHECKS

Station	Station	Kind			
11+11.16	1021+50	[illegible]			

Notes - Typical ditch checks placed as per [illegible] for [illegible]

LEGEND
THEORETICAL GRADE
CONSTRUCTED GRADE

Cl A 536'
Fl Exc 82'
Total A - 684'
Fill - 556'
Rt. Fill - 128'
Total - 698'
Comb. Exc. 82'
Pick-up Exc. 3

Cl A - 1220'
Fl Exc. 22'
Spec. Ditch 30'
Total Cl A - 1332'
Fill - 846'

Cl A - 578'
Fill - 231'
Comb. Exc. 23

Cl A - 570'
Fl - 336'
A.C.P. Exc. 2

Cl A - 423'
Fl - 237'
Fl Exc. 28
Total Fl 352
Comb. Exc. 6
Super 3

Cl A - 896'
Fl Exc. 9'
Total A - 605'
Fill - 742'
Pick-up Exc. 3

Cl A - 489'
- 282'

Original Profile of "A" Line

Original Profile of "B" Line

"A" Line
B.M.# N. Conner N. 18 Pt. Sta 1025+30 Route 25
Datum 563.63 Route 25 Elev 471.33

"B" Line
B.M.# 1 Spike & Washer in 48" Decan Tree
200' Rt. Sta 1170+00 Elev 450.48

BALANCED for Widening on Rt. #25

Cl A - 193'
Fl Exc. 8.8
Fill - 38'

Cl A - 253'
Fill - 229'
Comb. Exc. 4 (R[illegible])

LEGEND
Theoretical Grade
Constructed Grade

PLAN
SURVEYED
PLOTTED
NOTE BOOK
NO. 1

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
NOTE BOOK
NO. 2

414

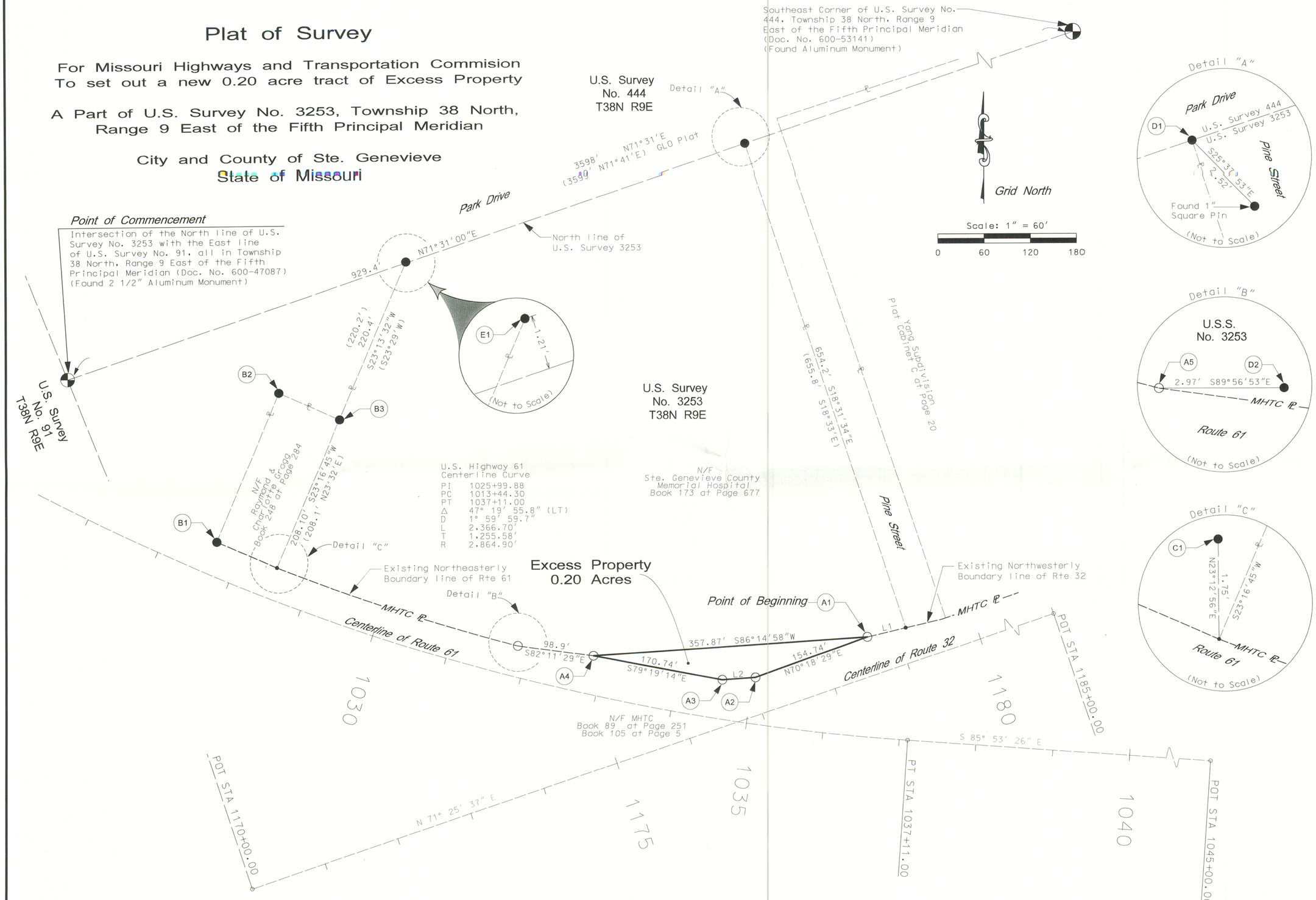
FINAL PLANS

Plat of Survey

For Missouri Highways and Transportation Commision
To set out a new 0.20 acre tract of Excess Property

A Part of U.S. Survey No. 3253, Township 38 North, Range 9 East of the Fifth Principal Meridian

City and County of Ste. Genevieve
State of Missouri



STATE OF MISSOURI
JIM COPELAND
NUMBER PLS-2004001329
PROFESSIONAL LAND SURVEYOR
11/24/09

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

DISTRICT: 10
SCALE: 1"=60'
DATE PREPARED: 11/24/2009
SHEET: 1 of 2

ROUTE: 61 & 32
PROJECT: E10-475
COUNTY: Ste. Genevieve
TOWNSHIP: 38N | RANGE: 9E
PROJECT SURVEYOR: Jim Copeland

SURVEY FOR: MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

4198
FILED FOR RECORD
at 10 o'clock 31 min A m.
DEC 2 2009
DAVID GEGG, Recorder
Ste. Genevieve County, MO

STATE OF MISSOURI
County of Ste. Genevieve

I hereby certify that this instrument was filed for record at the date and time shown hereon and is recorded in ~~Book~~ 552.B Page 551,552,553,554

David Gegg
DAVID GEGG
Recorder of Deeds

By Dana Jacob Deputy

Plat of Survey

For Missouri Highways and Transportation Commision
To set out a new 0.20 acre tract of Excess Property

A Part of U.S. Survey No. 3253, Township 38 North, Range 9 East of the Fifth Principal Meridian

City and County of Ste. Genevieve
State of Missouri

Excess Property (MHTC to Ste. Genevieve County Memorial Hospital)

A tract of land lying and being situated in part of U.S. Survey #3253, Township 38 North, Range 9 East of the Fifth Principal Meridian, City and County of Ste. Genevieve, State of Missouri, being more particularly described as follows:

Commence at a found Aluminum Monument at the intersection of the North line of U.S. Survey No. 3253 with the East line of U.S. Survey No. 91; thence N 71 deg. 31 min. 00 sec. E, along said North line, a distance of 929.4 feet to a found Rebar w/cap; thence departing from said North line of U.S. Survey No. 3253, S 18 deg. 31 min. 34 sec. E a distance of 654.2 feet to a Point being located on the existing Northwesterly Boundary line of Route 32; thence S 77 deg. 09 min. 37 sec. W along said boundary line a distance of 51.32 feet to a set #5 Rebar w/cap, 50.00 feet left of Route 32 centerline station 1178+61.40, said point being the Point of Beginning; thence departing from said Northwesterly boundary line, S 86 deg. 14 min. 58 sec. W, a distance of 357.87 feet to a set #5 Rebar w/cap on the existing Northeasterly boundary line of Route 61, being 50.00 feet left of Route 61 centerline station 1032+86.00; thence departing from said existing Northeasterly Boundary line, S 79 deg. 19 min. 14 sec. E a distance of 170.74 feet to a set #5 Rebar w/cap, 50.57 feet left of Route 61 centerline station 1034+59.82; thence N 86 deg. 11 min. 11 sec. E a distance of 43.73 feet to a set #5 Rebar w/cap, 46.98 feet left of Route 32 centerline station 1177+06.69; thence N 70 deg. 18 min. 29 sec. E a distance of 154.74 feet to the Point of Beginning, containing 0.20 acres, more or less.

Survey Monument Notes:

A - Set #5 Rebar w/ Cap
B - Found #4 Rebar w/ Cap (RLS 1728)
C - Found Drill Rod
D - Found Rebar W/ cap (RLS 2544)
E - Found 1 1/4" Iron Pipe

Reference

Park Addition
Plat Cabinet 1 at Page 20

Yang Subdivision
Plat Cabinet C at Page 20

Park Drive Southwest
Plat Cabinet A at Page 58

Survey Plat dated 9/4/2006
Gerald V. Bader, PLS 2544

Prior MHTC project plans

Book 105 at Page 5
Book 89 at pPage 251
Book 173 at Page 677
Book 248 at Page 284
Book 902 at Page 143
Book 955 at Page 43
Book 609 at Page 36
Book 1287 at Page 112
Book 1287 at Page 215
Book 743 at Page 282
Book 918 at Page 204
Book 561 at Page 278

Legend:

- ● - Calculated Corner Position
- ○ - Set Monument (see survey notes)
- ● - Found Monument (see survey notes)
- N/F - Now or Formerly
- MHTC - Missouri Highways and Transportation Commission
- ⟋⟍ - LINE NOT TO SCALE

LINE TABLE		
NO	DIRECTION	DISTANCE
L1	S77°09'37"W	51.32'
L2	N86°11'11"E	43.73'

Survey Notes:

This survey creates a new 0.20 acre parcel from the parent tract Recorded in Book no. 105 at Page 5 and Book 89 at Page 251.

1. Basis of Bearings - Grid North, 1983 Missouri State Plane Coordinate System, East Zone.

   The initial project control was derived from a Real-Time Kinematics (RTK) GPS observation.
   Listed below is the Missouri Geographic Reference Control Station used in the positional solution of the Project Control.

   (Station Coordinates are shown in meters: 1 meter = 3.280833333 feet)

Station:	PID:	Epoch Date:	Zone:	Northing (m):	Easting (m):
SG-12	186012	2002	MO EAST	237928.337	288095.880

   Field observations were made using real-time kinematic (RTK)/GPS and/or electronic total station measurements.

2. All distances shown hereon are ground distances. To convert to grid, multiply by a Grid factor of 0.9999315

3. Measured dimensions shown without parentheses deed or record dimensions shown with parentheses

4. Apparent ownership as shown is based on information provided by others and does not represent an opinion as to title.

5. Subject to all easements of record.

6. Covenants, limits of access, and rights retained by grantor of the herein shown property are not shown, but may be disclosed by a full title search.

7. All improvements and utilities above and below ground level not shown.

Surveyor's Certification

This is to certify that in the month of April 2009, at the request of the Missouri Highways and Transportation Commission the tract shown hereon was surveyedunder my direct supervision, and the results of said survey are represented correctly on this plat. Said survey was executed in accordance with the current "Missouri Minimum Standards for Property Boundary Surveys", 20 CSR 2030-16, for Urban Class Property.

Filed for Record:

State of Missouri)
) ss
County of Ste. Genevieve)

Filed for Record this _____ day of _____
and Duly Recorded

In Book _____ at Page _____

Recorder, Ste. Genevieve County, Missouri

MISSOURI STATE PLANE COORDINATE SYSTEM OF 1983 (EAST ZONE)					
NO.	NORTHING (M)	EASTING (M)	STA.	OFFSET (FT)	ALIGNMENT
A1	237047.618	289248.458	1178+61.40 (1178+61.40)	50.00' LT (50.00' LT)	RTE 32
A2	237031.726	289204.054	1177+06.69	46.98' LT	RTE 32
A3	237030.839	289190.757	1034+59.82	50.57' LT	RTE 61
A4	237040.483	289139.620	1032+86.00 (1032+86.00)	50.00' LT (50.00' LT)	RTE 61
A5	237044.579	289109.747	1031+86.00 (1031+86.00)	40.00' LT (40.00' LT)	RTE 61
B1	237085.784	288990.483	1027+65.62	41.79' LT	RTE 61
B2	237144.395	289015.188	1027+64.98	250.48' LT	RTE 61
B3	237133.840	289039.346	1028+59.70	248.19' LT	RTE 61
C1	237076.068	289014.491	1028+51.86	41.97' LT	RTE 61
D1	237240.147	289200.355	1033+55.13	732.19' LT	RTE 61
D2	237044.578	289110.651	1031+88.91	40.74' LT	RTE 61
E1	237195.573	289065.838	1028+69.31	468.44' LT	RTE 61

STATE OF MISSOURI
JIM COPELAND
NUMBER PLS-2004001329
PROFESSIONAL LAND SURVEYOR
11/24/09

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

DISTRICT: 10
SCALE: 1"=60'
DATE PREPARED: 11/24/2009
SHEET: 2 of 2
ROUTE: 61 & 32
PROJECT: E10-475
COUNTY: Ste. Genevieve
TOWNSHIP: 38N RANGE: 9E
PROJECT SURVEYOR: Jim Copeland

SURVEY FOR: MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

FED. ROAD DIST. NO.	STATE	DIST.	FISCAL YEARS	SHEET NO.	TOTAL SHEETS
3	Miss.				
ITEM NO.	COUNTY				
6	Miss. Greenwood		63	69	

FINAL PLANS

10

RECEIVED
SEP 28 1962
HIGHWAY DEPT.

CURVE DATA
P.I. Sta 1159+20.5
Δ = 6°-30'
D = 2°-00'
T = 171.27
L = 341.16
E = 9.14
R = 2864.93

MRS LATE WHIPPLED

FRANK WHIPPLED

P.C. 1156+34.25

P.T. 1159+75.41

P.C. 1159+75.41

P.T. 1162+16.57

P/W Line 2

Proj. Ditch Line 2

"A" LINE

Sta 1162+36.11

Δ 16° 00' R

FRANK WHIPPLER

"B" LINE

Sta 1162+84.83

Δ 22° 45' R

Proj. Ditch Line 1

MRS KATE WHIPPLER

CURVE DATA
P.I. Sta 1163+48.32
Δ = 45°-36' R
D = 3°-30'
T = 198.01'
L = 329.19'
E = 99.13'
R = 1642.14'

RICHARD VESSELS

EQUATION

2	C-	M6	1	6.5	6.5
		COUNTY		SHEETS	NO. NO.
6	36 Conc. on crushed			16	16

FINAL PLANS

STATE HIGHWAY DEPT.

STA 1176+98.2 ROUTE No 32
STA 1023+00 ROUTE No 25

SCHEME OF WIDENING FOR 200 TRANSITION	
DISTANCE	WIDTH
0	18'0"
10	18'0"
20	18.33'
30	18.67'
40	19.0'
50	19.33'
60	19.67'
70	20.0'
80	20.33'
90	20.67'
100	21.0'
110	21.33'
120	21.67'
130	22.0'
140	22.33'
150	22.67'
160	23.0'
170	23.33'
180	23.67'
190	24.0'
200	24.0'

CURVE DATA
PI 1026+00
Δ 47°30'LT
D 2°00'
T 125.7'
L 2366.7'
R 2865.2'
D 20° 9'

INTERSECTION
ROUTE 32 & ROUTE 25

STE. GENEVIEVE CO ROUTE 32

Standards

Typ Sect & Earthwork

ST Genevieve

Pic 3
Escaping 43
County
Sheet # 12

Surf, Curb & Gutter & APP

Drainage

C-230 C 338

C-24

C 243

Conc Reinf APPurts Finish etc

Bridges

MISC.

497

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION
FINAL PLANS FOR
STATE HIGHWAY

STE. GENEVIEVE COUNTY

ROUTE	STATE	DISTRICT
32	MO	10
JOB NO. JOP0763		
PROJECT NO. FAF-32-3(15)		
COUNTY STE. GENEVIEVE		
CONTRACT ID. 000721-X01		

DESIGN DESIGNATION

A.D.T. - 2001 = 5900
A.D.T. - 2011 = 7700
D.H.V.= 11%
T = 8%
V = 60 M.P.H.

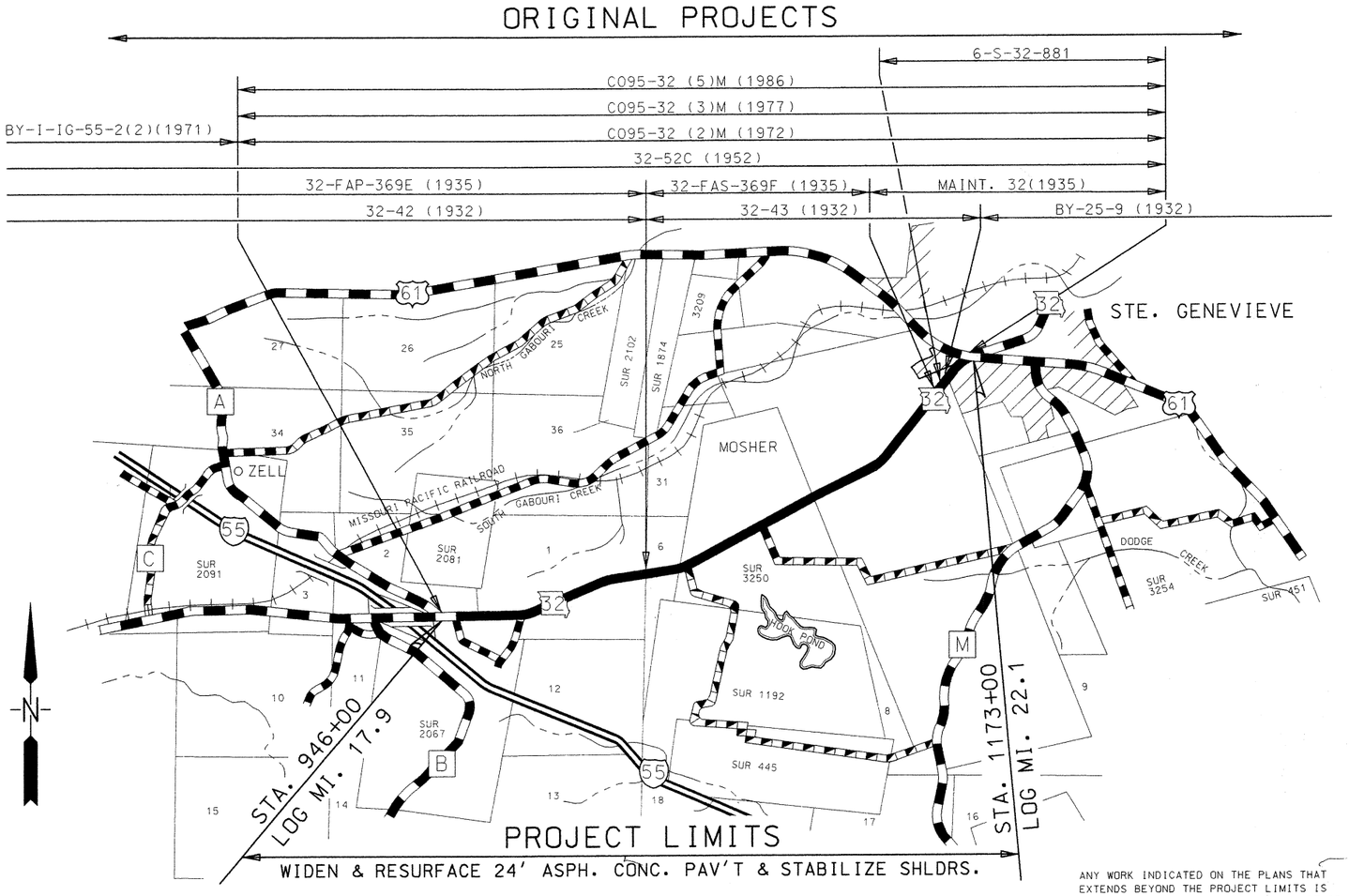
INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (3 SHEETS)	2
SUMMARY (_ SHEET)	2-A
SUMMARY (6 SHEETS)	2-B
PLAN-PROFILE	-
REFERENCE POINTS	-
COORDINATE POINTS	-
SPECIAL SHEETS	3-9
TRAFFIC CONTROL SHEETS	10-12
EROSION CONTROL	13
LIGHTING	-
SIGNALS	-
SIGNING	-
CULVERT SECTIONS	14-25
BRIDGE DRAWINGS	-
STANDARD PLANS INDEX	26
CROSS SECTIONS	-
COMPUTER DATA	-

CONVENTIONAL SYMBOLS
(USED IN PLANS)

- BUILDINGS AND STRUCTURES
- GUARD RAIL
- CONCRETE RIGHT-OF-WAY MARKER
- STEEL RIGHT-OF-WAY MARKER
- FENCE
  - CHAIN LINK
  - WOVEN WIRE
  - GATE
- UTILITIES
  - TELEPHONE
  - POWER
  - GAS
  - WATER
- EXIST. MANHOLE (MH)
- EXIST. FIRE HYDRANT (HYD)
- EXIST. WATER VALVE (WV)
- EXIST. WATER METER (WM)
- EXIST. DROP INLET (DI)
- DITCH BLOCK
- EXIST. GROUND MOUNTED SIGN
- EXIST. LIGHT POLE
- EXIST. H-FRAME POWER POLE

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES



LENGTH OF PROJECT

END OF PROJECT	STA.	946 + 00.00
BEGINNING OF PROJECT	STA.	1173 + 00.00
APPARENT LENGTH		22700.00 FEET
EQUATIONS AND EXCEPTIONS		
STA. P.T. 1106+74.23 Bk. = STA. 1106+15.04 Ahd.		+59.19 FEET
STA. 1168+06.88 Bk. = STA. 1168+00 Ahd.		+6.88 FEET
TOTAL CORRECTIONS		+66.07 FEET
NET LENGTH OF PROJECT		22766.07 FEET
STATE LENGTH		4.312 MILES
FEDERAL LENGTH		4.312 MILES

ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.

FINAL PLANS

I certify that this plan sheet accurately depicts the configuration and location of the roadway and all its appurtenant features, to the best of my knowledge, as I and my staff have observed the contractor's construction of this project. I specifically disclaim any responsibility for the design of this project, except as I and my staff may have modified or authorized the modification of the project design during its construction; and I disclaim responsibility for the contractor's actual construction of the project, except as I and my staff may have directed or ordered that the project be constructed.

Signature _____ Date 1-23-02

STATE OF MISSOURI — DUANE H. KINNEMAN — NUMBER E-23513 — REGISTERED PROFESSIONAL ENGINEER

J:\JOP0763\microstation\edited\11X17_SHEETS\1_CONV\JOP0763_001.DGN 09:52:35 AM 12/04/2001

ROUTE	STATE	DISTRICT	SHEET NO.
32	MO	10	2

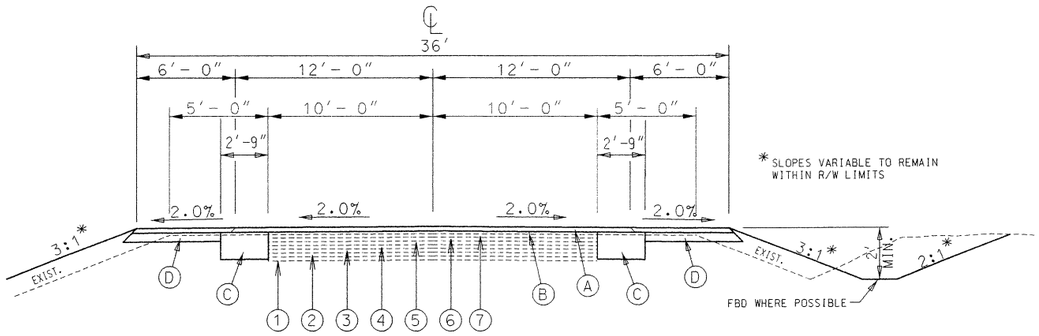
JOB NO. JOP0763

PROJECT NO. FAF-32-3 (15)

COUNTY STE. GENEVIEVE

DATE_____

CONTRACT ID. 000721-X01



ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.

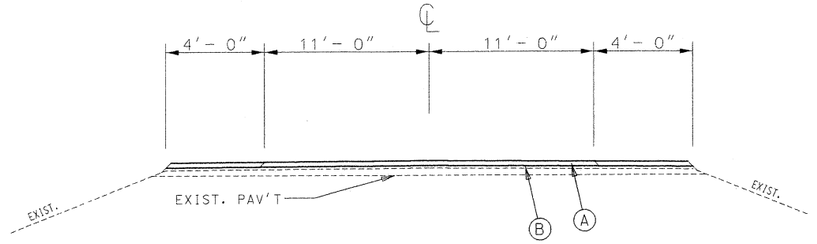
STA. 946+00 TO STA. 1149+18

EXISTING PAVEMENT

1. 2" GRAVEL SURFACE (1932)
2. 1" BITUMINOUS MATERIAL (1935)
3. 1" BITUMINOUS MATERIAL (1952)
4. 1" BITUMINOUS MATERIAL (1972)
5. 1" BITUMINOUS MATERIAL (1977)
6. 1" BITUMINOUS MATERIAL (1986)
7. 1" CONTRACT LEVELING COURSE (1995) PROPOSED

IMPROVEMENTS AS BUILT

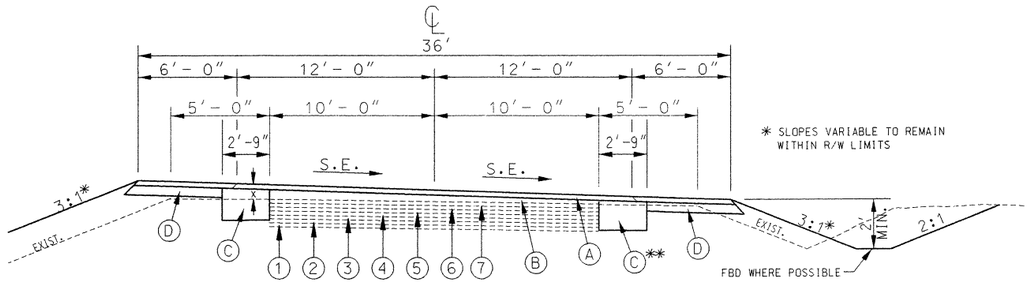
- (A) 1 ¾" BP-1 ASPH. CONC.
- (B) 1" (MIN.) LEVELING COURSE
- (C) 10" PLANT MIX BIT. BASE
- (D) 4" PLANT MIX BIT. BASE



STA. 1159+50 TO STA. 1172+00
RTE. 32 SPUR

IMPROVEMENTS AS BUILT

- (A) 1 ¾" BP-1 ASPH. CONC.
- (B) 1" (MIN.) LEVELING COURSE



CORRECTION ON SUPERELEVATION CURVE
STA. 946+00 TO STA. 1149+18

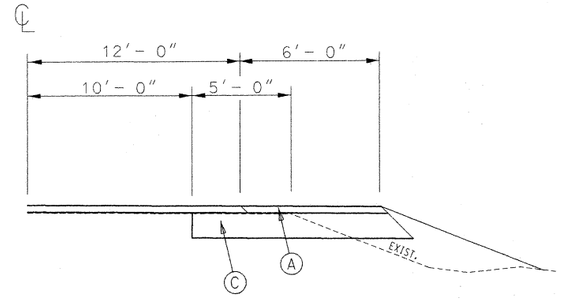
EXISTING PAVEMENT

1. 2" GRAVEL SURFACE (1932)
2. 1" BITUMINOUS MATERIAL (1935)
3. 1" BITUMINOUS MATERIAL (1952)
4. 1" BITUMINOUS MATERIAL (1972)
5. 1" BITUMINOUS MATERIAL (1977)
6. 1" BITUMINOUS MATERIAL (1986)
7. 1" CONTRACT LEVELING COURSE (1995)

IMPROVEMENTS AS BUILT

- (A) 1 ¾" BP-1 ASPH. CONC.
- (B) VAR. THICKNESS LEVELING COURSE
- (C) VAR. DEPTH PLANT MIX BIT. BASE (10"-X)(WIDENING)
- (D) 4" PLANT MIX BIT. BASE

** LOW SIDE OF SUPER BUILT SAME AS SHOWN FOR SECTION ON TANGENT.



FULL DEPTH SHOULDER DETAIL
Lt. & Rt.
STA. 1118+48 TO STA. 1149+18

IMPROVEMENTS AS BUILT

- (A) 1 ¾" BP-1 ASPH. CONC.
- (C) 10" PLANT MIX BIT. BASE

FINAL PLANS

I certify that this plan sheet accurately depicts the configuration and location of the roadway and all its appurtenant features, to the best of my knowledge, as I and my staff have observed the contractor's construction of this project. I specifically disclaim any responsibility for the design of this project, except as I and my staff may have modified or authorized the modification of the project design during its construction; and I disclaim responsibility for the contractor's actual construction of the project, which I and my staff may have directed or ordered to be constructed.

STATE OF MISSOURI DAVID KINNEMAN NUMBER E-22619 REGISTERED PROFESSIONAL ENGINEER

1-23-02
Date

TYPICAL SECTIONS
SHEET 1 OF 4

REV.

J:\JOP0763\microstation\edited\11X17_SHEETS\1_CONV\JOP0763_002_TYP001_D.DGN 09:52:46 AM 12/04/2001

2

ROUTE	STATE	DISTRICT	SHEET NO.
32	MO	10	2

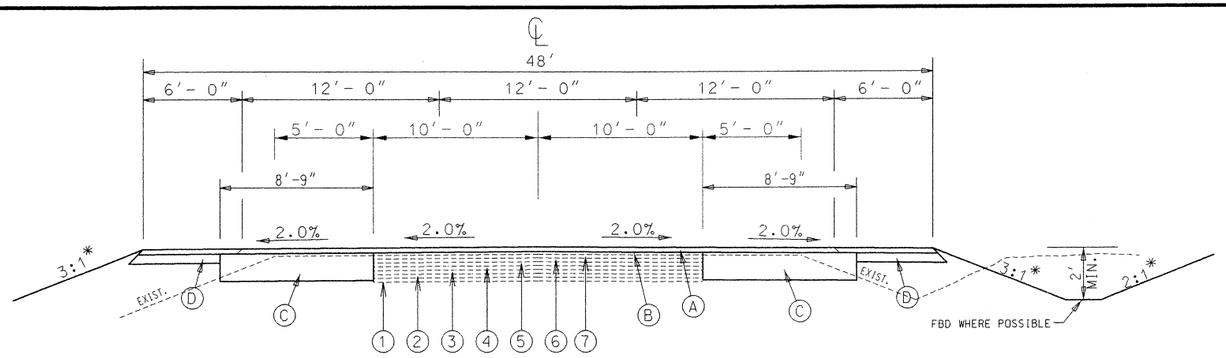
JOB NO. J0P0763

PROJECT NO. FAF-32- (15)

COUNTY STE. GENEVIEVE

DATE

CONTRACT ID. 000721-X01



ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.

*SLOPES VARIABLE TO REMAIN WITHIN R/W LIMITS

STA. 1149+18 TO STA. 1171+00

EXISTING PAVEMENT

1. 2" GRAVEL SURFACE (1932)
2. 1" BITUMINOUS MATERIAL (1935)
3. 1" BITUMINOUS MATERIAL (1952)
4. 1" BITUMINOUS MATERIAL (1972)
5. 1" BITUMINOUS MATERIAL (1977)
6. 1" BITUMINOUS MATERIAL (1986)
7. 1" CONTRACT LEVELING COURSE (1995) PROPOSED

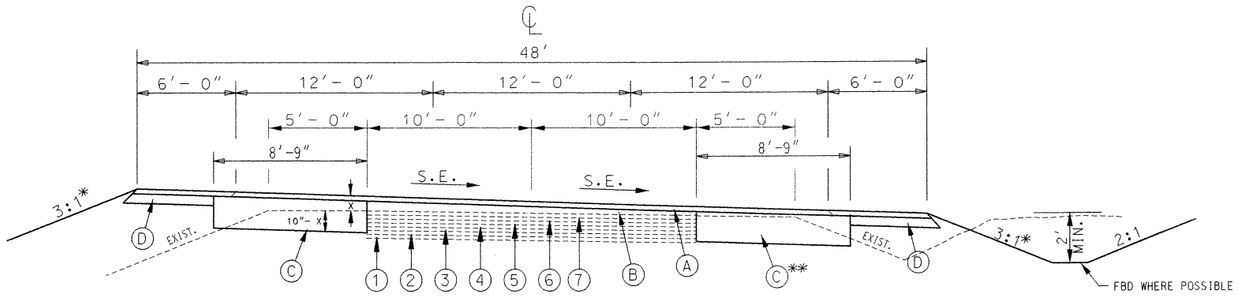
IMPROVEMENTS AS BUILT

A. 1 ¾" BP-1 ASPH. CONC.

B. 1" (MIN.) LEVELING COURSE

C. 10" PLANT MIX BIT. BASE

D. 4" PLANT MIX BIT. BASE



CORRECTION ON SUPERELEVATION CURVE
STA. 1149+18 TO STA. 1171+00

*SLOPES VARIABLE TO REMAIN WITHIN R/W LIMITS

**LOW SIDE OF SUPER BUILT SAME AS SHOWN FOR SECTION ON TANGENT.

EXISTING PAVEMENT

1. 2" GRAVEL SURFACE (1932)
2. 1" BITUMINOUS MATERIAL (1935)
3. 1" BITUMINOUS MATERIAL (1952)
4. 1" BITUMINOUS MATERIAL (1972)
5. 1" BITUMINOUS MATERIAL (1977)
6. 1" BITUMINOUS MATERIAL (1986)
7. 1" CONTRACT LEVELING COURSE (1995)

IMPROVEMENTS AS BUILT

A. 1 ¾" BP-1 ASPH. CONC.

B. VAR. THICKNESS LEVELING COURSE

C. VAR. DEPTH PLANT MIX BIT. BASE (10"-X)(WIDENING)

D. 4" PLANT MIX BIT. BASE

FINAL PLANS

I certify that this plan sheet accurately depicts the configuration and location of the roadway and all its appurtenant features, to the best of my knowledge, as I and my staff have observed the contractor's construction of this project. I specifically disclaim any responsibility for the design of this project, except as I and my staff may have modified or authorized the modification of the project design during construction; and I disclaim responsibility for the contractor's actual construction of the project, except as I and my staff may have directed or ordered that the project be constructed.

DALE R. KINDER — 23513 — REGISTERED PROFESSIONAL ENGINEER

Signature — 1-23-02 Date

TYPICAL SECTIONS
SHEET 2 OF 4

REV.

J:\JOP0763\microstation\edited\11X17_SHEETS\1_CONV\JOP0763_002_TYP002_D.dgn 09:52:56 AM 12/04/2001

3

ROUTE	STATE	DISTRICT	SHEET NO.
32	MO	10	2

JOB NO. J0P0763

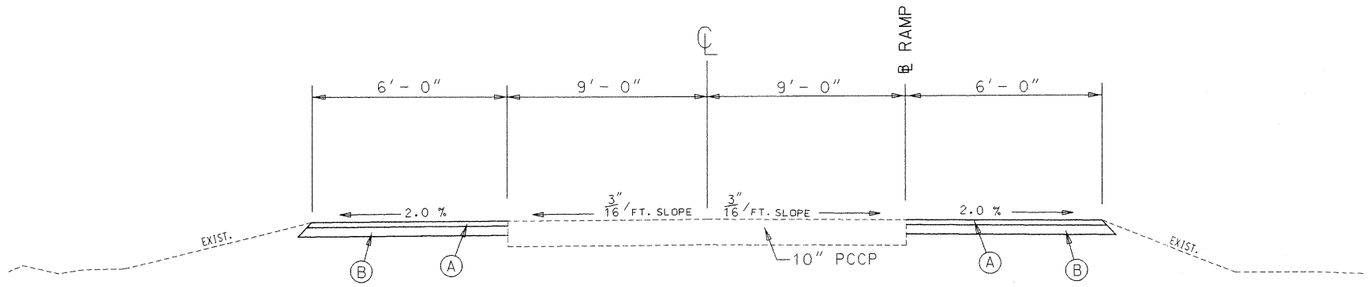
PROJECT NO. FAF-32-3 (15)

COUNTY STE. GENEVIEVE

DATE

CONTRACT ID. 000721-X01

SECTION ON TANGENT

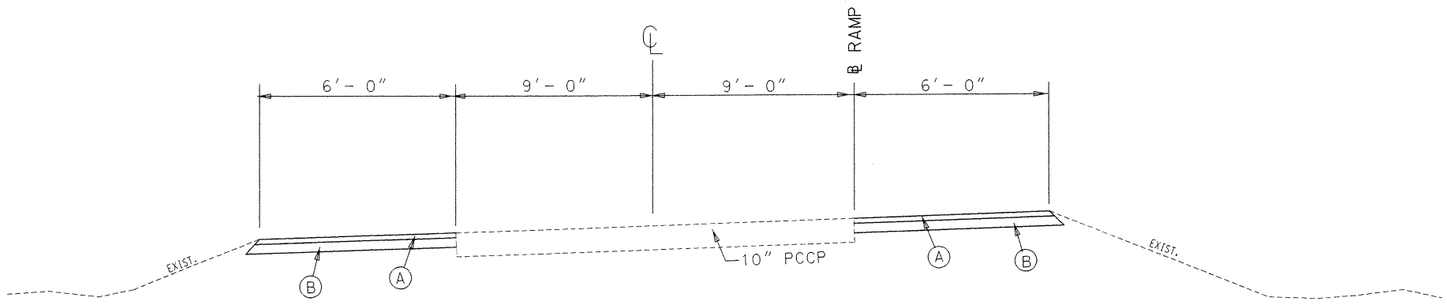


IMPROVEMENTS AS BUILT

(A) 1 ¾" BP-1 ASPH. CONC.

(B) 6" PLANT MIX BIT. BASE

SECTION ON SUPERELEVATED CURVE



IMPROVEMENTS AS BUILT

(A) 1 ¾" BP-1 ASPH. CONC.

(B) 6" PLANT MIX BIT. BASE

TYPICAL SECTIONS ON RAMPS AT THE INTERSECTION OF RTE 32 AND INTERSTATE 55

FINAL PLANS

I certify that this plan sheet accurately depicts the configuration and location of the roadway and all its appurtenant features, to the best of my knowledge, as I and my staff have observed the contractor's construction of this project. I specifically disclaim any responsibility for the design of this project, except as I and my staff may have modified or authorized the modification of the project design during its construction; and I disclaim responsibility for the Contractor's actual construction of the project, except as I and my staff may have directed or ordered that the project be constructed.

DAVID M. KINGEMAN NUMBER E-23513 REGISTERED PROFESSIONAL ENGINEER

Signature

1-23-02
Date

TYPICAL SECTIONS
SHEET 3 OF 4

REV.

J:\J0P0763\microstation\edited\11X17_SHEETS\1_CONV\J0P0763_002_TYP003_D.dgn 09:53:05 AM 12/04/2001

ROUTE	STATE	DISTRICT	SHEET NO.
32	MO	10	2

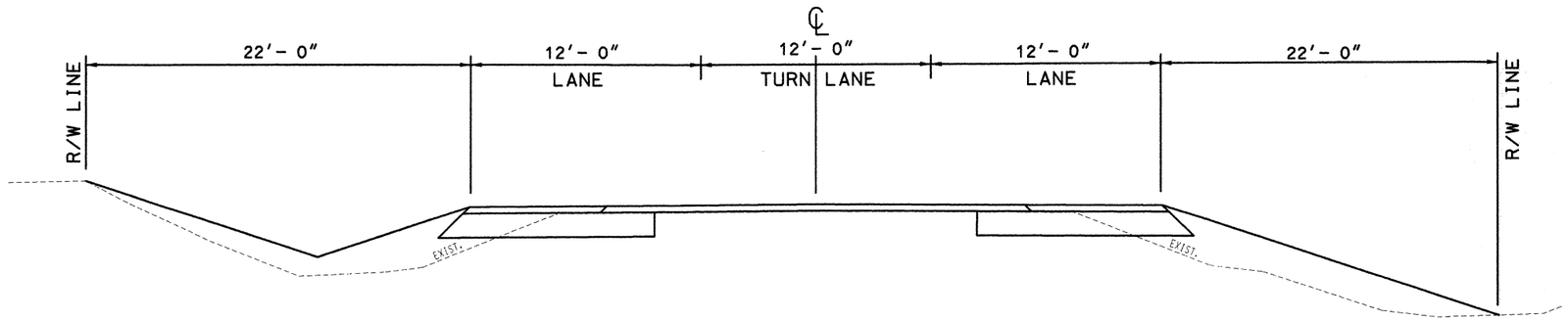
JOB NO. JOP0763

PROJECT NO. FAF-32-3 (15)

COUNTY STE. GENEVIEVE

DATE_____

CONTRACT ID. 000721-X01



RTE 32
3-LANE STRIPING

* 3-LANE SECTION WILL NOT HAVE SHOULDERS

FROM STATION 1114+20 TO STATION 1129+20

FINAL PLANS

I certify that this plan sheet accurately depicts the configuration and location of the roadway and all its appurtenant features, to the best of my knowledge, as I and my staff have observed the contractor's construction of this project. I specifically disclaim any responsibility for the design of this project, except as I and my staff may have modified or authorized in the modification of the project design during construction; and I disclaim responsibility for the contractor's actual construction of the project, except as I and my staff may have directed or ordered the contractor to construct.

STATE OF MISSOURI
CHRISTOPHER A. [illegible]
NUMBER
2-25518
REGISTERED PROFESSIONAL ENGINEER

Signature

1-23-02
Date

TYPICAL SECTIONS
SHEET 4 OF 4

REV.

J:\JOP0763\microstation\edited\11X17_SHEETS\I_CONV\JOP0763_002_T(P004_D.dgn 09:53:12 AM 12/04/2001

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

REV. APRIL 99

SHEET 1 OF 1

STATE	JOB NO. JOP0763	SHEET NO.
MO	PROJECT NO. FAF-32-3(15)	2A
DISTRICT 10	CONTRACT ID 000721-X01	ROUTE 32
	COUNTY STE GENEVIEVE	

ITEM	DESCRIPTION	UNIT	QUANTITY
*	ROADWAY - JOP0763		
109-99.01	MISC.	LS	1
109-99.02	MISC.	EA	7
	Bituminous density samples(cores)		
202-20.10	REMOVAL OF IMPROVEMENTS	LS	1
202-20.13	FULL DEPTH SAW CUT (SEC 202.20 WORK ONLY)	LF	458
206-30.00	CLASS 3 EXCAVATION	CUYD	368
206-31.00	CLASS 3 EXCAVATION, ROCK	CUYD	3
206-35.00	CULVERT CLEANOUT	EA	0
213-20.00	SHAPING SHOULDERS CLASS 2	MILE	5.69
301-20.00	MINERAL AGGREGATE (BITUMINOUS BASE)PG64-22	TONS	18800
301-60.17	ASPHALT BINDER (BITUMINOUS BASE) PG 64-22	TONS	927.2
310-50.01	~~GRAVEL CA~~ OR CRUSHED STONE (B)	CUYD	448
401-11.10	ASPHALT BINDER (BITUMINOUS PAVEMENT) PG 64-22 (BP-1 MIX)	TONS	1125
401-20.10	MINERAL AGGREGATE (BITUMINOUS PAVEMENT) PG64-22(BP-1 MIX)	TONS	21834
407-10.05	TACK COAT	GAL	3250
604-40.13	PIPE COLLAR, TYPE C	EA	1
608-10.00	CONCRETE MEDIAN	SQYD	0
609-10.41	CONCRETE GUTTER TYPE A	LF	0
609-10.52	CURB AND GUTTER TYPE B	LF	0
609-70.00	ROCK LINING	CUYD	129
611-10.10	FURNISHING ROCK FILL	CUYD	232
611-10.20	PLACING ROCK FILL	CUYD	232
612-90.25	INSTALLING GIVE EM A BRAKE, 48IN. X 48IN. SIGN	EA	2
614-10.10	GRATES AND BEARING PLATES	LB	380
614-30.12	MANHOLE FRAME AND COVER, TYPE 2	EA	1
616-10.05	CONSTRUCTION SIGNS	SQFT	1722
616-10.20	CHANNELIZER (DRUM-LIKE)	EA	250
616-10.40	FLASHING ARROW PANEL	EA	2
616-10.52	WARNING LIGHT, TYPE B	EA	3
616-11.32	INSTALLING 'SHOW ME PROGRESS' SIGN ASSEMBLY	EA	2
	Show Me Progress Signs		
618-10.00	MOBILIZATION	LS	1
619-10.00	PAVEMENT EDGE TREATMENT	LF	47620
620-55.01	THERMOPLASTIC MARKING MATERIAL 4 IN., SOLID WHITE	100F	0
620-55.03	THERMOPLASTIC MARKING MATERIAL 4 IN., SOLID YELLOW	100F	0
620-55.04	THERMOPLASTIC MARKING MATERIAL 4 IN., INTERMITTENT YELLOW	100F	0
620-55.10	THERMOPLASTIC MARKING MATERIAL, LEFT ARROW (WHITE)	EA	0
620-55.15	THERMOPLASTIC MARKING MATERIAL, 24 IN. WIDE (WHITE)	LF	0
620-55.16	THERMOPLASTIC MARKING MATERIAL, 24 IN. WIDE (YELLOW)	LF	0
620-80.65	TEMPORARY RAISED PAVEMENT MARKER	EA	1150
622-40.10	MODIFIED COLD MILLING (DEPTH TRANSITIONS)	SQYD	2071
626-10.00	BITUMINOUS RUMBLE STRIP	100F	404.2
700-99.03	MISC.	LF	526
	15 IN. PIPE LINER		
700-99.03	MISC.	LF	10
	21 IN. PIPE LINER		
703-20.02	CLASS B CONCRETE (MISC)	CUYD	11
725-10.12	12 IN. CORRUGATED METALLIC-COATED STEEL PIPE	LF	20
725-10.15	15 IN. CORRUGATED METALLIC-COATED STEEL PIPE	LF	1984
725-10.18	18 IN. CORRUGATED METALLIC-COATED STEEL PIPE	LF	315
726-13.36	36 IN. CLASS III REINFORCED CONCRETE PIPE CULVERT	LF	11
731-00.48	PRECAST CONCRETE MANHOLE - 48 IN.	FT	5

ITEM	DESCRIPTION	UNIT	QUANTITY
731-10.32	PRECAST CONCRETE DROP INLET 3 FT X 2 FT	FT	6
731-10.33	PRECAST CONCRETE DROP INLET 3 FT X 3 FT	FT	17
732-00.36	36 IN. GROUP B FLARED END SECTION	EA	1
732-20.15	BEVELED PIPE END TREATMENT FOR 15 IN. DIAMETER PIPE	EA	0
732-20.18	BEVELED PIPE END TREATMENT FOR 18 IN. DIAMETER PIPE	EA	0
732-20.21	BEVELED PIPE END TREATMENT FOR 21 IN. DIAMETER PIPE	EA	0
802-50.00	TYPE 2 OR TYPE 3 MULCH	ACRE	15.9
805-10.00	SEEDING	ACRE	15.9
806-10.13	STRAW BALE DITCH CHECK	EA	8
806-10.14	SILT FENCE DITCH CHECK	EA	32
806-10.16	SEDIMENT REMOVAL	CUYD	43
806-10.17	TEMPORARY SEEDING AND MULCHING	ACRE	11
806-10.19	SILT FENCE	LF	2068

FINAL PLANS

I certify that this plan sheet accurately depicts the configuration and location of the roadway and all its appurtenant features, to the best of my knowledge, as I and my staff have observed the contractor's construction of this project. I specifically disclaim any responsibility for the design of this project, except as I and my staff may have modified or authorized the modification of the project design during its construction; and I disclaim responsibility for the contractor's actual construction of the project, except as I and my staff may have directed or ordered the project be constructed.

STATE OF MISSOURI DALE H. KINNEMAN NUMBER E-23513 REGISTERED PROFESSIONAL ENGINEER

Signature

1-23-02
Date

PROJ. ACCEPT:	01-04-02
PREPARED BY:	Byron Davenport 12/05/01
CHECKED BY:	T D & R C 12/05/01
REVIEWED BY:	Matt Malone 12/07/01
DIST. OFFICE:	Debbie Strobel 2/13/02
SUPPORT CTR:	Charles L Hilbert 2-18-02

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

REV. SEPT. 8, 97

ROUTE	STATE	DISTRICT	SHEET NO.
32	MO	10	2B

JOB NO. J0P0763

PROJECT NO. FAF-32-3 (15)

COUNTY STE. GENEVIEVE

DATE

CONRACT ID. 000721-X01

SHEET 1 OF 6

REMOVALS

LUMP SUM 1 ✓

PLANT MIX BIT. BASE (BB00-221)

STA.	STA.	LOC.	LENGTH FT.	WIDTH FT.	AVE. WIDTH FT.	DEPTH IN.	TONS	REMARKS
0+00	20+00	RT.	2000	6.31		6		RAMP 1
0+00	10+25	LT.	1025	6.31		6		RAMP 1
0+00	13+80	RT.	1380	6.31		6		RAMP 2
5+30	13+80	LT.	850	6.31		6		RAMP 2
0+00	19+20	RT.	1920	6.31		6		RAMP 3
5+70	19+20	LT.	1350	6.31		6		RAMP 3
0+00	18+75	RT.	1875	6.31		6		RAMP 4
0+00	9+40	LT.	940	6.31		6		RAMP 4
931+91	946+00	LT.	1409	10.17		4		SHLDRS RTE. 32
932+31	946+00	RT.	1369	10.17		4		SHLDRS RTE. 32
946+00	1173+00	RT.	22700	6.17		4		SHLDRS RTE. 32
946+00	1173+00	RT.	22700	2		10		RTE. 32 TRENCH WIDENING
946+00	1173+00	LT.	22700	6.17		4		SHLDRS RTE. 32
946+00	1173+00	LT.	22700	2		10		RTE. 32 TRENCH WIDENING
1160+75	1163+00	LT	225	15		VAR.		RTE. 32 SPUR.
1160+75	1161+80	RT	105	15		VAR.		RTE. 32 SPUR.
1162+25		LT	80		24	VAR.		RTE. 32 SPUR. CONN.
0+00	1+05	RT	105		24	VAR.		JOGGERST RD.
1111+10	1129+20	℄	1810		6.75	10		LEFT TURN LANE (CIVIC CENTER)
1149+18	1171+00	℄	2182		13.50	10		LEFT TURN LANE
1111+20	1149+18	℄	3798	11.85		10		FULL DEPTH SHLDRS.
						TOTAL	19727.2 ✓	

ASPHALT BINDER @ 4.7% = 927.2 TONS ✓

MINERAL AGGREGATE @ 95.3% = 18800 TONS ✓

FINAL PLANS

I certify that this plan sheet accurately depicts the configuration and location of the roadway and all its appurtenant features, to the best of my knowledge, as I and my staff have observed the contractor's construction of this project. I specifically disclaim any responsibility for the design of this project, except as I and my staff may have modified or authorized the modification of the project design during its construction and I disclaim responsibility for the contractor's actual construction of the project. Except as noted, I and my staff may have directed or ordered that the project be constructed.

DALE W. KINNEMAN, P.E.

Signature NUMBER E-23513

REGISTERED PROFESSIONAL ENGINEER

1-23-02
Date

J:\J0P0763\microstation\edited\11X17_SHEETS\I_CONV\J0P0763_002b_001_d.dgn 09:53:18 AM 12/04/2001

REV. SEPT. 8, 97

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

ROUTE	STATE	DISTRICT	SHEET NO.
32	MO	10	2B

JOB NO. J0P0763

PROJECT NO. FAF-32-3(15)

COUNTY STE. GENEVIEVE

DATE

CONTRACT ID. 000721-X01

SHEET 2 OF 6

BITUMINOUS PAVEMENT BP-1 (BP01-97)

STA.	STA.	LOC.	LENGTH FT.	WIDTH FT.	AVE. WIDTH FT.	DEPTH IN.	TONS	REMARKS
0+00	20+00	RT.	2000	6.06		1 3/4		RAMP 1
0+00	10+25	LT.	1025	6.06		1 3/4		RAMP 1
0+00	13+80	RT.	1380	6.06		1 3/4		RAMP 2
5+30	13+80	LT.	850	6.06		1 3/4		RAMP 2
0+00	19+20	RT.	1920	6.06		1 3/4		RAMP 3
5+70	19+20	LT.	1350	6.06		1 3/4		RAMP 3
0+00	18+75	RT.	1875	6.06		1 3/4		RAMP 4
0+00	9+40	LT.	940	6.06		1 3/4		RAMP 4
931+91.0	946+00.0	LT.	936.0	10.15		1 3/4		RTE. 32
932+31.0	946+00.0	RT.	1296.0	10.15		1 3/4		RTE. 32
946+00.0	1173+00.0	℄	22766.0	36.29		1 3/4		RTE. 32
947+75.0	1173+00.0	℄	22766.0	20.00		1		RTE. 32 SURFACE LEVELING
970+56.6	981+81.6	℄		20.00		VAR.		CURVE 1 SUPERELEVATION CORR.
985+77.9	995+04.6	℄		20.00		VAR.		CURVE 2 SUPERELEVATION CORR.
1018+45.5	1033+45.5	℄		20.00		VAR.		CURVE 3 SUPERELEVATION CORR.
1065+04.8	1078+03.7	℄		20.00		VAR.		CURVE 4 SUPERELEVATION CORR.
1091+15.7	1097+56.9	℄		20.00		VAR.		CURVE 5 SUPERELEVATION CORR.
1102+48.4	1106+74.2	℄		20.00		VAR.		CURVE 6 SUPERELEVATION CORR.
1123+21.1	1146+01.2	℄		20.00		VAR.		CURVE 7 SUPERELEVATION CORR.
1156+98.8	1161+40.4	℄		20.00		VAR.		CURVE 8 SUPERELEVATION CORR.
1159+10.2	1167+39.3	℄		20.00		VAR.		CURVE 9 SUPERELEVATION CORR.
1111+20.0	1114+20.0	℄	300.0		6.0	1 3/4		LEFT TURN LANE (APPROX. STA.)
1114+20.0	1118+00.0	℄	380.0	12.00		1 3/4		LEFT TURN LANE (APPROX. STA.)
1118+00.0	1121+00.0	℄	300.0		6.0	1 3/4		LEFT TURN LANE (APPROX. STA.)
1146+18.0	1149+18.0	℄	300.0		6.0	1 3/4		TAPER
1149+18.0	1171+00.0	℄	2182.0	12.00		1 3/4		LEFT TURN LANE
1159+50.0	1172+00.0	℄	1250.0	36.29		1 3/4		RTE. 32 SPUR.
1159+50.0	1172+00.0	℄	1250.0	20.00		1		RTE. 32 SPUR.
1162+25.0		LT.	75.0	36.29		1 3/4		RTE. 32 SPUR. CONNECTION
1162+25.0		LT.	75.0	20.00		1		RTE. 32 SPUR. CONNECTION
1171+00.0	1173+00.0	℄	300.0		6.0	1 3/4		TAPER
946+00.0	1169+80.0	℄						MAILBOX TURNOUTS & DRIVEWAY APRONS
0+25.0	1+82.4	℄	157.4	24.29		1 3/4		JOGGERST RD.
0+25.0	1+82.4	℄				1 3/4		JOGGERST RD. RADII
160+00	161+08	LT.	108		65	1 3/4		RTE. A
							TOTAL 22959 ✓	

ASPHALT BINDER @ 4.9% = 1125 TONS ✓

MINERAL AGGREGATE @ 95.1% = 21834 TON ✓

TACK

STA.	STA.	LOC.	LENGTH FT.	WIDTH FT.	AVE. WIDTH FT.	GALLONS	REMARKS
946+00	1169+80	℄	22439.2	20.0			RTE. 32
1159+50	1172+00	℄	1250.0	32.0			RTE. 32 SPUR.
1162+25		LT	75.0		22.60		RTE. 32 SPUR. CONN.
977+00		RT			VAR.		JOGGERST RD.
946+00	1172+00	℄			VAR.		DRIVEWAYS
						TOTAL 3250 ✓	

SHAPING SHOULDERS - CLASS 2

STA.	STA.	LOC.	LENGTH MILE	PAY LIMITS MILE	REMARKS
946+00	1173+00	℄	4.30	4.30	RTE. 32
0+00	21+87	RT.	.41	.41	RAMP 1
0+00	10+25	LT.	.19		RAMP 1
0+00	14+13	RT.	.27	.27	RAMP 2
5+03	14+13	LT.	.17		RAMP 2
0+00	18+52	RT.	.35	.35	RAMP 3
5+45	18+52	LT.	.25		RAMP 3
0+00	15+78	RT.	.30	.30	RAMP 4
0+00	6+78	LT.	.13		RAMP 4
1167+84	1171+00	LT.		.06	RTE. SPUR
				TOTAL 5.69 ✓	

CLEARING AND GRUBBING

NO DIRECT PAY

FINAL PLANS

I certify that this plan sheet accurately depicts the configuration and location of the roadway and all its appurtenant features, to the best of my knowledge, as I and my staff have observed the contractor's construction of this project. I specifically disclaim any responsibility for the design of this project, except as I and my staff may have modified or authorized the modification of the project design during construction; and I disclaim responsibility for the contractor's actual construction of the project, except as I and my staff may have directed or ordered that it be constructed.

KINNEMAN, TIM

Signature 2003513

1-23-02
Date

J:\J0P0763\microstation\edited\11X17_SHEETS\1_CONV\J0P0763_0026_002_d.dgn 09:53:27 AM 12/04/2001

REV. SEPT. 8, 97

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

ROUTE	STATE	DISTRICT	SHEET NO.
32	MO	10	2B

JOB NO. J0P0763

PROJECT NO. FAF-32-3(15)

COUNTY STE. GENEVIEVE

DATE

CONTRACT ID. 000721-X01

SHEET 3 OF 6

DRIVEWAYS

STA.	TYPE	LOC.	D.W. WIDTH	CLASS B CONC. C.Y.	GRAVEL A OR CRUSHED STONE B C.Y.	SAW CUT L.F.	CORR. 12" L.F.	METAL 15" L.F.	PIPE 18" L.F.	CL. 3 EXC. C.Y.	REMARKS
952+30	D.W.	RT.	20		2.50			32'		4.57	
952+62	D.W.	RT.	20		2.28			32'			
955+64	D.W.	LT.	20		2.11			32'		4.10	
965+16	D.W.	LT.	20		2.35			32'		4.96	
972+20	D.W.	LT.	20		2.50			32'		4.57	
977+75	D.W.	RT.	20		2.50			32'		5.78	
1006+20	D.W.	LT.	20		3.28	14			32'	6.13	
1009+20	D.W.	LT.	40	11.0	2.56	40		44'		6.06	
1011+45	D.W.	LT.	20					32'		4.96	
1012+66	C.E.	LT.	20		2.50				32'	6.12	
1015+59	D.W.	LT.	20		2.61			32'		6.34	
1016+19	D.W.	LT.	20		3.28	15		32'		5.51	
1017+16	D.W.	LT.	20		4.22			32'		4.41	
1017+99	D.W.	LT.	20		2.28			32'		4.68	
1022+28	D.W.	RT.	20		2.35			32'		4.96	
1022+30	D.W.	LT.	20		2.28			32'		4.68	RAISED PIPE & DITCH
1023+00	D.W.	LT.	20		2.56			32'		4.57	
1023+86	D.W.	LT.	20		2.56			32'		4.57	
1024+27	D.W.	LT.	20		3.28			32'		6.89	
1024+46	D.W.	RT.	20		2.44			32'		5.51	
1024+47	D.W.	LT.	20			20					
1028+10	D.W.	RT.	20		2.44			32'		5.51	
1029+75	D.W.	RT.	20			24					
1034+89	D.W.	RT.	20		2.35			32'		4.96	
1035+75	D.W.	LT	20			18					
1041+75	D.W.	RT.	20		2.67			34'		4.86	
1042+32	D.W.	RT.	20		2.50			32'		4.57	
1043+41	D.W.	RT.	20		2.44		6'				
1044+25	D.W.	RT.	20			18					
1044+35	D.W.	LT.	20		2.51			36'		6.34	
1045+30	D.W.	RT.	20			25					
1046+47	D.W.	RT.	20		2.44			6'			
1047+99	D.W.	RT.	20		2.56			6'			
1048+67	D.W.	LT.	20		2.35			36'		4.96	
1048+84	D.W.	RT.	20		2.44			6'			
1050+07	D.W.	LT.	20		2.22			32'		4.57	
1052+77	D.W.	RT.	20		2.50			34'		4.86	
1056+25	D.W.	LT.	20		2.00	20		32'		4.57	
1058+38	D.W.	LT.	20		2.44			6'			
1060+61	D.W.	RT.	20		2.44			32'		5.51	
1081+31	D.W.	RT.	20		2.35			32'		4.96	
1081+41	D.W.	LT.			2.35			46'		7.14	
1083+02	D.W.	RT.	45			36		38'		6.87	
1083+95	D.W.	RT.	23			46		36'		7.71	
1087+24	D.W.	RT.	20		1.78				32'	4.95	
1088+72	D.W.	RT.	20		1.85			32'		4.57	
1092+34	D.W.	LT.	20		2.06			34'		4.86	
1094+44	D.W.	LT.	20		1.88			9'			

DRIVEWAYS

STA.	TYPE	LOC.	D.W. WIDTH	CLASS B CONC. C.Y.	CRUSHED STONE B C.Y.	SAW CUT L.F.	CORR. 12" L.F.	METAL 15" L.F.	PIPE 18" L.F.	CL. 3 EXC. C.Y.	REMARKS
1096+30	D.W.	LT.	20		3.00			52'		7.43	
1099+50	D.W.	LT.	20		3.25			52'		7.43	
1101+76	D.W.	LT.	20		2.50			32'		4.57	
1102+90	D.W.	LT.	20		3.25			32'		4.96	
1120+31	D.W.	RT.	20		2.25			32'		4.41	
1121+58	D.W.	LT.	20		3.28	20			6'		
1128+20	D.W.	RT.	20		2.50				32'	5.54	
1129+68	D.W.	RT.	20		2.50			6'			
1131+99	D.W.	LT.	20		2.78		14'				
1132+79	D.W.	LT.	20		2.50			13'		1.86	
1133+28	D.W.	RT.	20		2.50			32'		4.57	
1135+50	D.W.	RT.	20		3.00			34'		4.86	
1144+67	D.W.	LT.	20		3.28			40'		5.71	
1147+22	D.W.	LT.	20		2.78	14			32'	5.54	
1147+27	D.W.	RT.	20		2.50			32'		4.57	
1149+41	D.W.	LT.	20		2.67				32'	7.00	
1151+94	D.W.	RT.	20		2.67			32'		4.57	
1152+00	D.W.	RT.	20		2.67			32'		4.57	
1152+96	D.W.	RT.	20		2.67			44'		4.96	
1154+72	C.E.	LT.	46		3.82	44		18'		7.91	RT. SIDE 30 ELBOW-10' PIPE
1155+74	C.E.	LT.	28		3.56				46'		ROCK LINING RT. SIDE
1156+60	D.W.	LT.			3.11			18'		2.57	
1158+04	S.R.	LT.									
1162+50	D.W.	RT.	20		2.28			32'			
1164+65	D.W.	LT.			2.06			44'			
1166+49	D.W.	LT.			1.78			40'		5.71	
1168+35	C.E.	LT.	44		3.59	44		56'		17.17	
1168+89	C.E.	LT.				60		42'		6.00	RT. SIDE 30 ELBOW-6' PIPE
1170+70	C.E.	LT.			3.09			70'		10.00	
			TOTALS	11.0 ✓	448 ✓	458 ✓	20' ✓	1956 ✓	244' ✓	323.05 ✓	

ROCK FILL

STA.	STA.	LOC.	FURNISHING ROCK FILL C.Y.	PLACING ROCK FILL C.Y.	REMARKS
1085+70	1088+16	LT.	232	232	POND FILL
		TOTALS	232 ✓	232 ✓	

FINAL PLANS

I certify that this plan sheet accurately depicts the configuration and location of the roadway and all its appurtenant features, to the best of my knowledge, as I and my staff have observed the contractor's construction of this project. I specifically disclaim any responsibility for the design of this project, except as I and my staff may have modified or authorized modification of the project design during the construction and I disclaim responsibility for the contractor's actual construction of the project, except as I and my staff may have directed or ordered that it be constructed.

STATE OF MISSOURI — GREGORY L. LAMMERT — NUMBER E-23513 — REGISTERED PROFESSIONAL ENGINEER

Signature 1-23-02 Date

REV. SEPT. 8. 97

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

ROUTE	STATE	DISTRICT	SHEET NO.
32	MO	10	2B

JOB NO. JOP0763

PROJECT NO. FAF-32-3(15)

COUNTY STE. GENEVIEVE

DATE

CONTRACT ID. 000721X-01

SHEET 4 OF 6

TEMPORARY RAISED PAVEMENT MARKERS

STA.	LOC.	STA.	LOC.	RAISED PAVEMENT MARKER YELLOW EACH	REMARKS
946+00	℄	1169+80	℄	1090	RTE. 32
1160+50	℄	1172+00	℄	60	RTE. 32 SPUR
			TOTAL	1150 ✓	

MODIFIED COLDMILLING (DEPTH TRANSITION)

STA.	LOC.	LENGTH FT.	WIDTH FT.	COLDMILLING S.Y.	REMARKS	
1173+00	RT.	150	35	583	RTE. 32	
1171+00	RT.	60	3	20	RTE. 32	
1168+25	RT.	142	2.5	39	RTE. 32	
1166+00	RT.	110	2.5	31	RTE. 32	
1173+00	℄	120	4	53	RTE. 32	SPUR
1170+00	RT.	59	3	20	RTE. 32	SPUR
1168+75	RT.	75	3.5	29	RTE. 32	SPUR
1168+50	LT.	12	3	4	RTE. 32	SPUR
1167+75	LT.	18	2.5	5	RTE. 32	SPUR
1166+00	LT.	25	3	8	RTE. 32	SPUR
1164+00	RT.	44	3	15	RTE. 32	SPUR
1164+50	LT.	40	3	13	RTE. 32	
1158+00	LT.	31	2.5	9	RTE. 32	
1156+60	LT.	33	3	11	RTE. 32	
1153+38	LT.	143	2	32	RTE. 32	
1128+00	LT.	28	2	6	RTE. 32	
1126+50	LT.	47	2.5	13	RTE. 32	
976+00	RT.	22	2.5	6	RTE. 32	
943+00	℄	160	24	427	RTE. 32	
160+00	℄	26	3	9	RTE. A	
1160+20	LT.	12	3	4	RTE. 32	SPUR
932+00	℄	157	34	593	RTE. 32	
1126+50	LT.	47	2.5	13	RTE. 32	
1153+38	LT.	143	2	32	RTE. 32	
1158+00	LT.	31	2.5	9	RTE. 32	
1164+50	LT.	40	3	13	RTE. 32	
1114+20	RT.	265	2.5	74	RTE. 32	
				2071 ✓		

BITUMINOUS RUMBLE STRIP

STA.	STA.	LOC.	LENGTH 100′
946+00	1171+90	℄	403.85
1160+00	1163+00	℄	0.35
		TOTAL	404.20 ✓

CULVERT PIPE

STA.	LOC.	EXIST. PIPE SIZE	PLASTIC LINER 15″	PLASTIC LINER 21″	C.M.P. 15″	C.M.P. 18″	CL. 3 R.C.P. 36″	TYPE C COLLAR EACH	C.M.P. COLLAR EACH	CL. 3 EXC. C.Y.	ROCK LINING C.Y.	R.C.P. FES 36″	REMARKS
950+60	LT.	18″	8′							0.6			1-BEVELED END
950+60	RT.	18″	9′							0.4	1.0		1-BEVELED END
962+55	℄	18″	71′										1-BEVELED END
976+00	RT.					38′				5.2			1-BEVELED END
991+65	LT.	18″	4′							1.8			
991+65	RT.	18″	12′							1.3	2.2		1-BEVELED END
998+40	RT.	24″		10′						1.9	1.7		1-BEVELED END
1014+00	℄	18″	60′								0.9		2-BEVELED ENDS
1026+00	LT.	18″	13′							1.0			1-BEVELED END
1026+00	RT.	18″	14′							1.3	3.3		1-BEVELED END
1035+24	℄	18″	63′										2-BEVELED ENDS
1039+66	℄	18″	7′							1.5	1.3		2-BEVELED ENDS
1047+00	℄	18″	57′										2-BEVELED ENDS
1080+00	℄	18″	72′										1-BEVELED END
1093+18	LT.	18″	7′							1.0			1-BEVELED END
1093+18	RT.	18″	10′							1.2	2.1		1-BEVELED END
1123+79	LT.	18″	9′							5.0			
1111+10	℄	18″	56′										2-BEVELED ENDS
1138+00	LT.	18″				8′			1	1.1			1-BEVELED END
1138+00	RT.	18″				9′			1	1.2	2.0		
1143+30	LT.	3′X2′BOX					11′	1		5.8		1	1-FLARED END
1131+00	℄	18″	54′								1.9		
1158+47	LT.	15″			16′				1		4.1		1-BEVELED END,
1159+00	LT.										85.0		ROCK BLANKET
1168+85	LT.	15″			6′				1				1-30° BEND
1168+99	LT.	15″			6′				1				
1157+65	LT.					16′					23.5		1-BEVELED END,
		TOTALS	526′ ✓	10′ ✓	28′ ✓	71′ ✓	11′ ✓	1 ✓	5 ✓	30.3 ✓	129.0 ✓	1 ✓	

FINAL PLANS

I certify that this plan sheet accurately depicts the configuration and location of the roadway and all its appurtenant features, to the best of my knowledge, as I and my staff have observed the contractor's construction of this project. I specifically disclaim any responsibility for the design of this project, except as I and my staff may have modified or authorized the modification of the project design during construction; and I disclaim responsibility for the quality of the actual construction of the project, except as I and my staff may have directed or ordered that the project be constructed.

DALE H. KINNEMAN NUMBER E-23513 REGISTERED PROFESSIONAL ENGINEER

Signature

1-23-02
Date

J:\JOP0763\microstation\edited\11X17_SHEETS\I_CONV\JOP0763_002b_004_d.dgn 09:53:49 AM 12/04/2001

REV. SEPT. 8, 97

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

ROUTE	STATE	DISTRICT	SHEET NO.
32	MO	10	2B

JOB NO. J0P0763

PROJECT NO. FAF-32-3 (15)

COUNTY STE. GENEVIEVE

DATE

CONTRACT ID. 000721-X01

SHEET 5 OF 6

DROP INLETS

STA.	LOC.	PIPE SIZE	COVER EACH	FRAME & COVER EACH	3'X 3' PRECAST DROP INLET TYPE E FT.	3'X 2' PRECAST DROP INLET TYPE S FT.	48 IN. PRECAST MANHOLE FT.	GRATES & BEARING PLATES LBS.	CL. 3 EXC. C.Y.	REMARKS
962+55	25.3'LT.		TYPE A		4.50				1.8	1-WIER OPENING, 1-15" PIPE OPENING
976+00	26.0'RT.			TYPE 2			5.00		3.5	2-18" PIPE OPENING
991+65	24.0'LT.		TYPE A		3.75				1.4	1-WIER OPENING, 1-15" PIPE OPENING
1080+00	33.5'LT.					3.50		190	3.0	1-15" PIPE OPENING
1101+48	25.5'LT.		TYPE A		3.25				1.7	1-WIER OPENING, 1-18" PIPE OPENING
1131+00	24.5'RT.		TYPE A		2.50				2.1	1-WIER OPENING, 1-15" PIPE OPENING
1157+65	LT.		TYPE A		3.00				0.8	1-WIER OPENING
1168+72	22.0'LT.					2.50		190	0.4	2-15" PIPE OPENING
			TOTALS	1 ✓	17.00 ✓	6.00 ✓	5.00 ✓	380 ✓	14.7 ✓	

SEEDING AND TYPE III MULCH

STA.	STA.	LOC.	SEED AC.	TYPE 2 OR TYPE 3 MULCH AC.
946+00	1173+00	℄	15.9	15.9
		TOTALS	15.9 ✓	15.9 ✓

EROSION CONTROL

	SILTFENCE DITCH CHECK EACH	STRAWBALE DITCH CHECK EACH	SILTFENCE L.F.	SEDIMENT REMOVAL C.Y.	TEMPORARY SEEDING AND MULCHING AC.
	32	8	2068	43	11.0
TOTALS	32 ✓	8 ✓	2068 ✓	43 ✓	11.0 ✓

FINAL PLANS

I certify that this plan sheet accurately depicts the configuration and location of the roadway and all its appurtenant features, to the best of my knowledge, as I and my staff have observed the contractor's construction of this project. I specifically disclaim any responsibility for the design of this project, except as I and my staff may have modified or authorized the modification of the project design during its construction; and I disclaim responsibility for the supervision of actual construction of the project, except as I and my staff may have directed or ordered that the project be constructed.

DALE M. KINNEMAN
Construction Engineer
E-23513
REGISTERED PROFESSIONAL ENGINEER

1-23-02
Date

J:\J0P0763\microstation\edited\11X17_SHEETS\I_CONV\J0P0763_002b_005_d.dgn 09:53:59 AM 12/04/2001

SUMMARY OF QUANTITIES

EFFECTIVE: 01-01-2000
D-2BS

SHEET 6 OF 6

ROUTE	STATE	DISTRICT	SHEET NO.
32	MO	10	2B

JOB NO. JOP0763

PROJECT NO. FAF-32-3 (15)

COUNTY STE. GENEIEVE

DATE

CONTRACT ID. 000721-X01

DISCLAIMER
THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON. ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.

SIGN	SIZE (INCHES)	AREA (SQ FT)	QTY	TOTAL AREA	QTY RELOC	TOTAL RELOC AREA	DESCRIPTION
WARNING SIGNS							
WF20-4	36X36	9.00					ONE LANE ROAD AHEAD
WF20-5	36X36	9.00					RIGHT LANE/CENTER LANE/LEFT LANE CLOSED AHEAD
WF20-6a	36X36	9.00					RIGHT/CENTER/LEFT LANE CLOSED
WF21-4	36X36	9.00					ROAD WORK AHEAD
WF22-6e	21X15	2.19					WET PAINT (ARROW PIVOTS)
W01-1L	48X48	16.0					TURN (SYMBOL LEFT ARROW)
W01-1R	48X48	16.0					TURN (SYMBOL RIGHT ARROW)
W01-2L	48X48	16.0					CURVE (SYMBOL LEFT ARROW)
W01-2R	48X48	16.0					CURVE (SYMBOL RIGHT ARROW)
W01-3L	48X48	16.0					REVERSE TURN (SYMBOL LEFT ARROW)
W01-3R	48X48	16.0					REVERSE TURN (SYMBOL RIGHT ARROW)
W01-4L	48X48	16.0					REVERSE CURVE (SYMBOL LEFT ARROW)
W01-4R	48X48	16.0					REVERSE CURVE (SYMBOL RIGHT ARROW)
W01-4bL	48X48	16.0					DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT ARROWS)
W01-4bR	48X48	16.0					DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT ARROWS)
W01-4cL	48X48	16.0					TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT ARROWS)
W01-4cR	48X48	16.0					TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT ARROWS)
W01-6	48X24	8.0					HORIZONTAL ARROW (SYMBOL)
W01-6a	72X36	18.0					HORIZONTAL ARROW (SYMBOL ON BARRICADE)
W01-7	48X24	8.0					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
W01-7a	72X36	18.0					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL ON BARRICADE)
W01-8	18X24	3.0					CHEVRON (SYMBOL)
W01-8a	36X48	12.0					CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
W03-1	48X48	16.0					STOP AHEAD
W03-2	48X48	16.0					YIELD AHEAD
W03-3	48X48	16.0					SIGNAL AHEAD (SYMBOL)
W04-1L	48X48	16.0					MERGE (SYMBOL FROM LEFT)
W04-1R	48X48	16.0					MERGE (SYMBOL FROM RIGHT)
W05-1	48X48	16.0					ROAD NARROWS
W05-3	48X48	16.0					ONE LANE BRIDGE
W05-5	48X48	16.0					NARROW LANES
W06-1	48X48	16.0					DIVIDED HIGHWAY (SYMBOL)
W06-2	48X48	16.0					DIVIDED HIGHWAY ENDS (SYMBOL)
W06-3	48X48	16.0					TWO WAY TRAFFIC (SYMBOL)
W07-3a	24X18	3.0					NEXT XX MILES (PLAQUE)
W08-1	48X48	16.0					BUMP
W08-2	48X48	16.0					DIP
W08-3	48X48	16.0					PAVEMENT ENDS
W08-4	48X48	16.0	16	256 ✓			SOFT SHOULDER
W08-5	48X48	16.0					SLIPPERY WHEN WET (SYMBOL)
W08-6	48X48	16.0					TRUCK CROSSING
W08-6c	48X48	16.0					TRUCK ENTRANCE
W08-7	36X36	9.0					LOOSE GRAVEL
W08-9	48X48	16.0	11	176 ✓			LOW SHOULDER
W08-9a	48X48	16.0					SHOULDER DROP-OFF
W08-11	48X48	16.0					UNEVEN LANES
W08-12	36X36	9.0	22	198 ✓			NO CENTER STRIPE
W10-1	42RND.	9.62					RAILROAD CROSSING
W012-1	24X24	4.0					DOUBLE DOWN ARROW (SYMBOL)
W012-2	48X48	16.0					LOW CLEARANCE (SYMBOL)
W012-2x	24X18	3.0					LOW CLEARANCE (PLAQUE)
W012-3a,b	144X24	24.0					OVERHEAD LOW CLEARANCE (FEET AND INCHES)
SPECIAL	120X60	50.0					LOW CLEARANCE XX' XX" XX MILES AHEAD
SPECIAL	120X60	50.0					WIDTH RESTRICTION XX' XX" XX MILES AHEAD
W013-1	24X24	4.0					ADVISORY SPEED (PLAQUE)
W020-2	48X48	16.0					DETOUR AHEAD
W020-3	48X48	16.0					ROAD CLOSED AHEAD
W020-4	48X48	16.0	4	64 ✓			ONE LANE ROAD AHEAD
W020-5	48X48	16.0	4	64 ✓			RIGHT LANE/CENTER LANE/LEFT LANE CLOSED AHEAD
W020-6a	48X48	16.0	4	64 ✓			RIGHT/CENTER/LEFT LANE CLOSED
W020-7a	48X48	16.0	7	112 ✓			FLAGGER (SYMBOL)
W020-7x	24X18	3.0					500 FT/1000 FT (PLAQUE)
W020-7b	48X48	16.0	2	32 ✓			BE PREPARED TO STOP
W020-9c	48X48	16.0	11	176 ✓			OPEN TRENCH
W021-2	48X48	16.0					FRESH OIL
W021-4	48X48	16.0	15	240 ✓			ROAD WORK AHEAD
W021-5b	48X48	16.0					SHOULDER WORK AHEAD
W021-7	36X36	9.0					SAND BLASTING
W022-1	48X48	16.0					BLASTING ZONE 1000 FT
W022-2	42X36	10.5					TURN OFF 2-WAY RADIOS AND CELLULAR PHONES
W022-3	42X36	10.5					END BLASTING ZONE
W025-5	30X12	2.5					½ MILE/1 MILE (PLAQUE)
WARNING SIGNS (CONT.)							
REGULATORY SIGNS							
R1-1	48X48	13.25					STOP
R1-2	48TRI.	6.93					YIELD
R1-3	20X9	1.25					4-WAY (PLAQUE)
R1-5	20X9	1.25					3-WAY (PLAQUE)
R2-1	36X48	12.00	20	240 ✓			SPEED LIMIT/10 @ 35 MPH - 8 @ 50 MPH - 2 @ 70 MPH
R2-5a	36X48	12.00	7	84 ✓			REDUCED SPEED AHEAD
R3-1	48X48	16.00					NO RIGHT TURN (SYMBOL)
R3-2	48X48	16.00					NO LEFT TURN (SYMBOL)
R3-3	36X36	9.00					NO TURNS
R3-4	48X48	16.00					NO U-TURN (SYMBOL)
R3-7L	30X30	6.25					LEFT LANE MUST TURN LEFT
R3-7R	30X30	6.25					RIGHT LANE MUST TURN RIGHT
R4-1	36X48	12.00					DO NOT PASS
R4-2	36X48	12.00					PASS WITH CARE
R4-7aL	36X48	12.00					KEEP LEFT (HORIZONTAL ARROW)
R4-7a	36X48	12.00					KEEP RIGHT (HORIZONTAL ARROW)
R4-17aL	36X36	9.00					KEEP LEFT
R4-17aR	36X36	9.00					KEEP RIGHT
R5-1	30X30	6.25					DO NOT ENTER
R5-1a	36X24	6.00					WRONG WAY
R6-1L	48X18	6.00					ONE WAY ARROW (LEFT)
R6-1R	48X18	6.00					ONE WAY ARROW (RIGHT)
R6-2L	24X30	5.00					ONE WAY (LEFT)
R6-2R	24X30	5.00					ONE WAY (RIGHT)
R10-6	24X36	6.00					STOP HERE ON RED (45° ARROW)
R11-2	48X30	10.00					ROAD CLOSED
R11-3a	60X30	12.50					ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60X30	12.50					ROAD CLOSED TO THRU TRAFFIC
R12-3b	36X36	9.00					TO ONCOMING TRAFFIC (PLAQUE)
S4-4	36X15	3.75					WHEN FLASHING
STOP/SLOW	18OCT.						STOP/SLOW PADDLE (STOP/SLOW)
SUPPLEMENTAL PLATES FOR WARNING SIGNS							
WF25-6	20X6	---					BRIDGE/RAMP PLATE (USE WITH WF21-4)
W025-1a	26X9	---					1000 FT/1500 FT PLATE
W025-1b	38X9	---					500 FT/1000 FT PLATE
W025-1c	34X9	---					500 FT/1000 FT PLATE
W025-6	28X9	---					BRIDGE/RAMP PLATE (USE WITH W021-4 OR W05-1)
GUIDE SIGNS							
E05-1	72X60	30.00					GORE EXIT
G020-1	60X24	10.00					ROAD WORK NEXT XX MILES
G020-2a	48X24	8.00	2	16 ✓			END ROAD WORK
G020-4	36X18	4.50					PILOT CAR FOLLOW ME
M04-1	24X12	2.00					ALTERNATE (PLAQUE)
M04-8	24X12	2.00					DETOUR (PLAQUE)
M04-8a	24X18	3.00					END DETOUR
M04-9L	48X36	12.00					DETOUR (LEFT ARROW)
M04-9R	48X36	12.00					DETOUR (RIGHT ARROW)
M04-10L	48X18	6.00					DETOUR (ARROW LEFT)
M04-10R	48X18	6.00					DETOUR (ARROW RIGHT)
M5-1L	21X15	2.19					ADVANCE LEFT TURN ARROW
M5-1R	21X15	2.19					ADVANCE RIGHT TURN ARROW
M6-1	21X15	2.19					TURN ARROW
M6-3	21X15	2.19					STRAIGHT ARROW
MISCELLANEOUS SIGNS							
616-10.05 CONSTRUCTION SIGNS TOTAL				1722 ✓			
616-10.10 RELOCATED SIGNS TOTAL							

ITEM NUMBER	TOTAL QTY	DESCRIPTION
612-10.10		TEMPORARY BARRICADE
612-10.20		RELOCATED TEMPORARY BARRICADE
612-10.30		MOVEABLE BARRICADE (THREE RAILS)
612-10.40		PERMANENT BARRICADE
612-10.50		FLASHER SIGN
612-10.60		RELOCATED FLASHER SIGN
612-20.08		IMPACT ATTENUATOR (8 SAND BARRELS)
612-20.09		IMPACT ATTENUATOR (9 SAND BARRELS)
612-20.10		IMPACT ATTENUATOR (10 SAND BARRELS)
612-20.12		IMPACT ATTENUATOR (12 SAND BARRELS)
612-20.14		IMPACT ATTENUATOR (14 SAND BARRELS)
612-20.17		IMPACT ATTENUATOR (17 SAND BARRELS)
612-20.19		IMPACT ATTENUATOR (19 SAND BARRELS)
612-20.20		REPLACEMENT SAND BARREL
612-20.30		IMPACT ATTENUATOR (RELOCATION)
612-30.00		TRUCK MOUNTED ATTENUATOR (TMA)
612-90.25	2 ✓	INSTALLING GIVE EM A BRAKE.
		48 IN. X 48 IN. SIGN
612-90.40		INSTALLING NO CENTER STRIPE SIGN
616-10.20	250 ✓	CHANNELIZER (DRUM)
616-10.35		TYPE I BARRICADE (ONE RAIL)
616-10.36		TYPE II BARRICADE (TWO RAILS)
616-10.40	2 ✓	FLASHING ARROW PANEL
616-10.45		TYPE I OBJECT MARKER
616-10.46		TYPE II OBJECT MARKER
616-10.47		TYPE III OBJECT MARKER
616-10.50		FLASHING ELECTRIC LIGHT
616-10.51		WARNING LIGHT TYPE A
616-10.52	3 ✓	WARNING LIGHT TYPE B
616-10.53		WARNING LIGHT TYPE C
616-10.54		STROBE LIGHT
616-10.60		TYPE I CHANNELIZER/MARKER
616-10.70		TUBULAR MARKER
616-10.91		RADAR SPEED ADVISORY SYSTEM
		OPERATION
616-10.95		RADAR SPEED ADVISORY SYSTEM
616-10.96		CHANGEABLE MESSAGE SIGN,
		COMMISSION FURNISHED
616-10.98		CHANGEABLE MESSAGE SIGN,
		CONTRACTOR FURNISHED, CONTRACTOR
		RETAINED
616-11.00		CHANGEABLE MESSAGE SIGN,
		SOLAR POWERED, CONTRACTOR
		FURNISHED, COMMISSION RETAINED
616-12.00		LAW ENFORCEMENT
619-10.00	47,620 ✓	PAVEMENT EDGE TREATMENT
620-80.65		TEMPORARY RAISED PAVEMENT MARKER
901-94.00		TEMPORARY LIGHTING
902-94.00		TEMPORARY TRAFFIC SIGNALS
902-94.01		TEMPORARY TRAFFIC SIGNALS
		AND LIGHTING
902-94.12		SOLAR POWERED PORTABLE TRAFFIC
		SIGNAL SYSTEM (COMMISSION RETAINED)
902-94.15		RELOCATION OF PORTABLE TRAFFIC
		SIGNAL SYSTEM

FINAL PLANS

I certify that this plan sheet accurately depicts the configuration and location of the roadway and all its appurtenant features, to the best of my knowledge, as I and my staff have observed the contractor's construction of this project. I specifically disclaim any responsibility for the design of this project, except as I and my staff may have modified or authorized the modification of the project design during construction; and I disclaim responsibility for the actual construction of the project, except as I and my staff may have directed or ordered that the project be constructed.

DALE R. KINEMAN
Signature
E-23513
REGISTERED PROFESSIONAL ENGINEER

1-23-02
Date

J:\JOP0763\microstation\edited\11X17_SHEETS\I_CONV\10jp763_02bs_006_d.dgn 09:52:16 AM 12/04/2001

ROUTE	STATE	DISTRICT	SHEET NO.
32	MO	10	3

JOB NO. J0P0763

PROJECT NO. FAF-32-3 (15)

COUNTY STE. GENEVIEVE

DATE

CONTRACT ID. 000721-X01

NOTE: DESIGN SPEED IS 60 M.P.H.
UNLESS OTHERWISE NOTED.

EXIST.DATA CURVE 1

PI 976+50
Δ 45°00′
D 4°00′
T 593.44′
L 1125.0′
R 1432.7′
SE 0.0575′/′
LG. OF TRANS. 150′

S.E. CORRECTION – 0.08′/′
LG. TRANS CORRECTION – 250′

EXIST.DATA CURVE 2

PI 990+58.1
Δ 37°04′
D 4°00′
T 480.20′
L 926.66′
R 1432.69′
SE 0.086′/′
LG. OF TRANS. 150′

S.E. CORRECTION – 0.08′/′
LG. TRANS CORRECTION – 250′

EXIST.DATA CURVE 3

PI 1026+13.15
Δ 30°00′
D 2°00′
T 767.65′
L 1500.0′
R 2864.93′
SE 0.0286′/′
LG. OF TRANS. 150′

S.E. CORRECTION – 0.05′/′
LG. TRANS CORRECTION – 200′

EXIST.DATA CURVE 4

PI 1071+60.55
Δ 19°29′
D 1°30′
T 655.79′
L 1298.89′
R 3819.83
SE 0.0215′/′
LG. OF TRANS. 150′

S.E. CORRECTION – 0.04′/′
LG. TRANS CORRECTION – 200′

EXIST.DATA CURVE 5

PI 1094+41.85
Δ 25°39′
D 4°00′
T 326.16′
L 641.25′
R 1432.69
SE 0.0575′/′
LG. OF TRANS. 150′

S.E. CORRECTION – 0.08′/′
LG. TRANS CORRECTION – 250′

EXIST.DATA CURVE 6

PI 1104+62.94
Δ 17°02′
D 4°00′
T 214.54′
L 425.83′
R 1432.69
SE 0.0575′/′
LG. OF TRANS. 150′

S.E. CORRECTION – 0.08′/′
LG. TRANS CORRECTION – 250′

EXIST.DATA CURVE 7

PI 1134+66.6
Δ 17°06′
D 0°45′
T 1145.53′
L 2280.09′
SE 0.0107′/′
LG. OF TRANS. 150′

S.E. CORRECTION – 0.025′/′
LG. TRANS CORRECTION – 175′

EXIST.DATA CURVE 8

PI 1159+20.05
Δ 8°58′
D 2°00′
T 221.27′
L 441.66′
R 2864.33
SE 0.0286′/′
LG. OF TRANS. 150′

S.E. CORRECTION – 0.05′/′
LG. TRANS CORRECTION – 200′

EXIST.DATA CURVE 9

PI 1163+48.22
Δ 45°36′
D 5°30′
T 438.05′
L 829.09′
R 1042.14
SE 0.0787′/′
LG. OF TRANS. 150′

S.E. CORRECTION – 0.06′/′
LG. TRANS CORRECTION – 150′
DESIGN SPEED – 40M.P.H.

FINAL PLANS

I certify that this plan sheet accurately depicts the configuration and location of the roadway and all its appurtenant features, to the best of my knowledge, as I and my staff have observed the contractor's construction of this project. I specifically disclaim any responsibility for the design of this project, except as I and my staff may have modified or authorized the modification of the project design during its construction; and I disclaim responsibility for the contractor's actual construction of the project, except as I and my staff may have directed or ordered the same to be constructed.

Signature

1-23-02
Date

REGISTERED PROFESSIONAL ENGINEER
SEAL OF MISSOURI
NUMBER E-23513

REV.

J:\J0P0763\microstation\edited\11X17_SHEETS\I_CONV\j0p0763_003_data_d.dgn 09:54:07 AM 12/04/2001

ROUTE	STATE	DISTRICT	SHEET NO.
32	MO	10	4

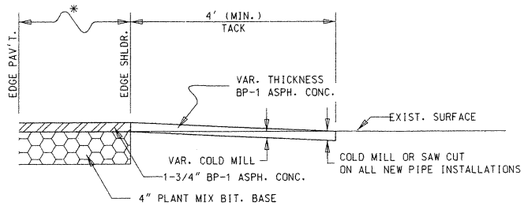
JOB NO. JOP0763

PROJECT NO. FAF-32-3(15)

COUNTY STE. GENEVIEVE

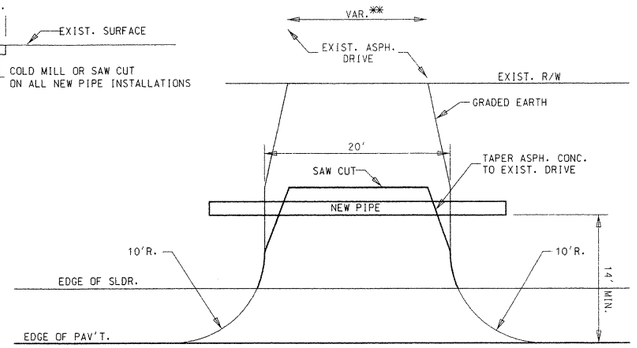
DATE

CONTRACT ID. 000721-X01



PROFILE

** NOTE: MATCHED EXIST. WIDTH WHEN DRIVEWAY WAS GREATER THAN 20'.

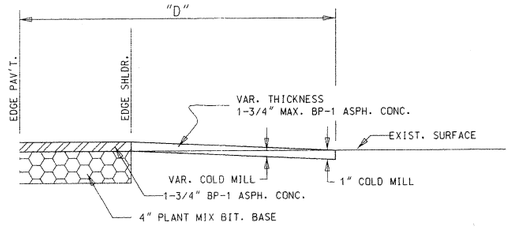


℄ RTE. 32

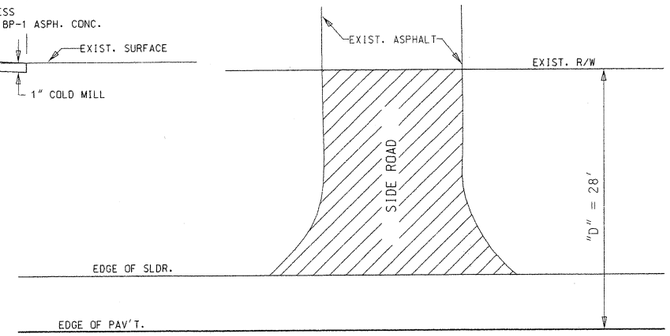
PLAN

TYPICAL SECTION

PAVED DRIVEWAYS



PROFILE



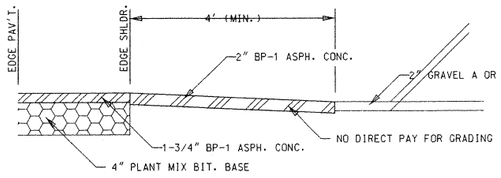
℄ RTE. 32

PLAN

TYPICAL SECTION

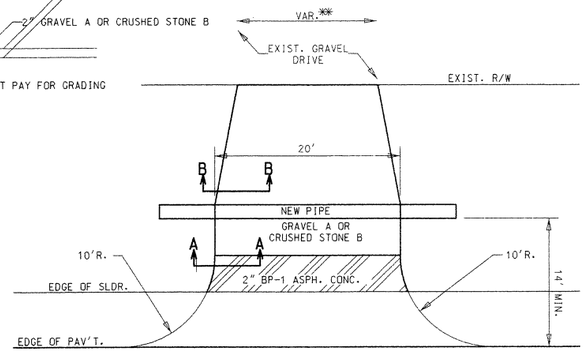
ASPHALT SIDE ROAD

STA. 1030+35 RT. (GISI RD.)
STA. 1070+00 RT. (SIEBERT DR.)
STA. 937+47.5 LT. (RTE. A)



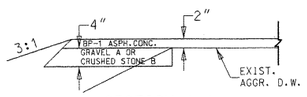
PROFILE

** NOTE: MATCHED EXIST. WIDTH WHEN DRIVEWAY WAS GREATER THAN 20'.

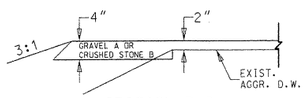


℄ RTE. 32

PLAN



SECTION A-A



SECTION B-B

TYPICAL SECTION

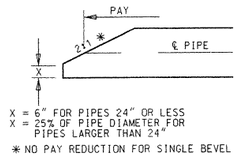
AGGREGATE DRIVEWAYS AND CONTINUOUS APRON

FINAL PLANS

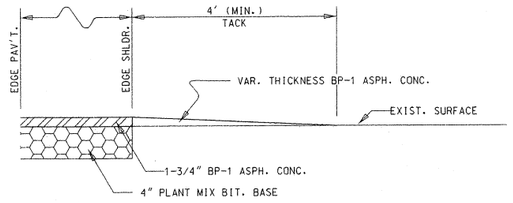
I certify that this plan sheet accurately depicts the configuration and location of the roadway and all its appurtenent features, to the best of my knowledge, as I and my staff have observed the contractor's construction of this project. I specifically disclaim any responsibility for the design of this project, except as I and my staff may have modified or authorized the modification of the project design during construction; and I disclaim responsibility for the Contractor's actual construction of the project, except as I and my staff may have directed or ordered that it not be constructed.

DARRIN KONELIA NUMBER E-23513 REGISTERED PROFESSIONAL ENGINEER

Signature 1-23-02 Date



PIPE BEVEL DETAIL



ASPHALT APRON DETAIL

ASPH. D.W. WITHOUT PIPE REPLACEMENT

PIPE BEVEL & ASPHALT APRON DETAILS

REV.

J:\JOP0763\microstation\edited\11X17_SHEETS\m1000\jop0763_004_dwtyp001_d.dgn 09:54:15 AM 12/04/2001

ROUTE	STATE	DISTRICT	SHEET NO.
32	MO	10	5

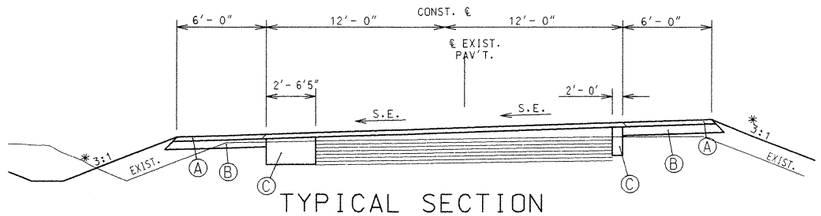
JOB NO. J0P0763

PROJECT NO. FAF-32-3 (15)

COUNTY STE. GENEVIEVE

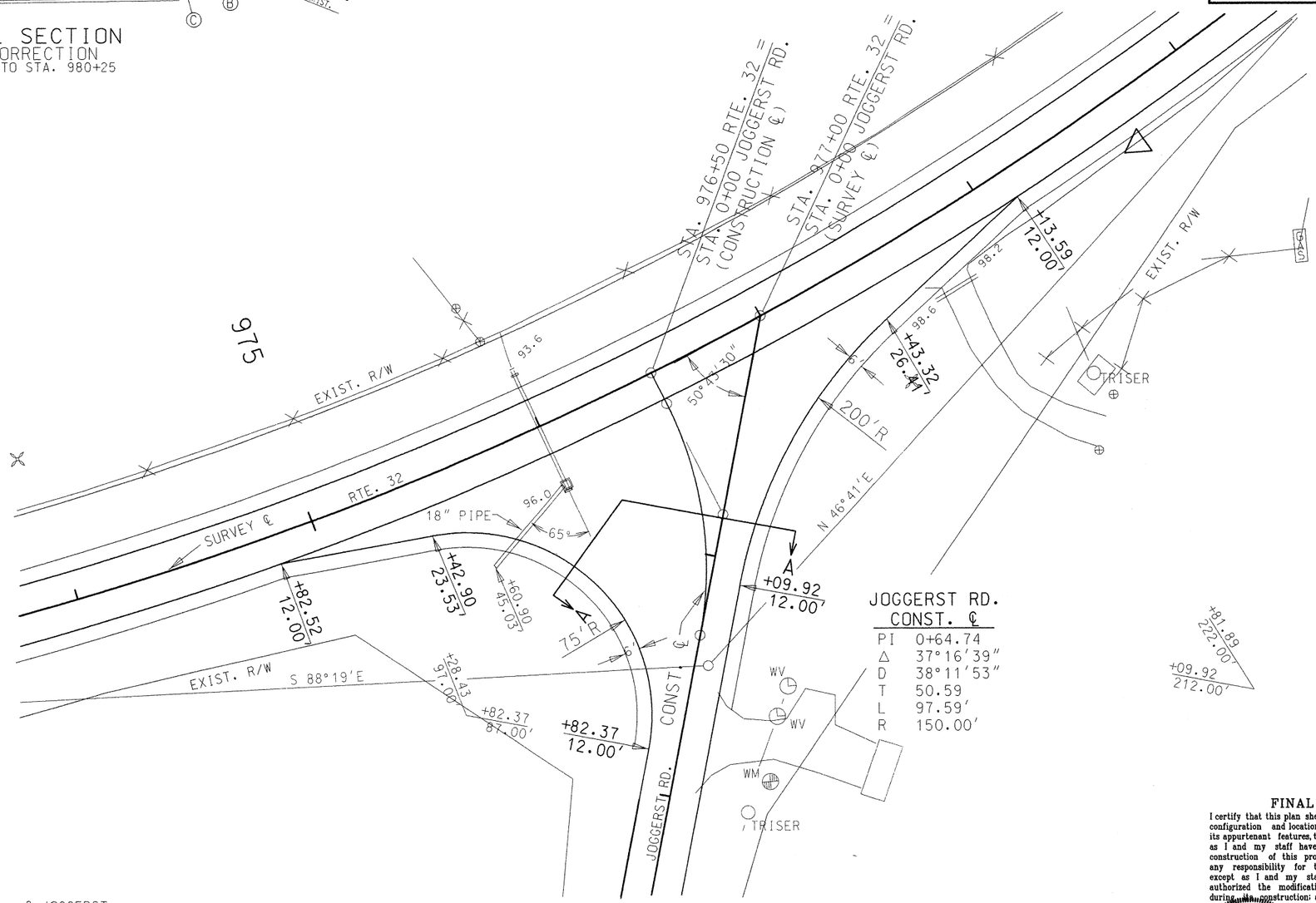
DATE_____

CONTRACT ID. 000721-X01



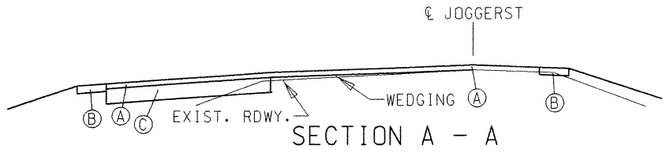
TYPICAL SECTION
CURVE CORRECTION
STA. 972+00 TO STA. 980+25

Ⓐ 1 ¾" BP-1 ASPH. CONC.
Ⓑ 4" PLANT MIX BIT. BASE
Ⓒ 10" PLANT MIX BIT. BASE



JOGGERST RD.
CONST. ℄

PI	0+64.74
△	37°16'39"
D	38°11'53"
T	50.59
L	97.59'
R	150.00'



SECTION A - A

FINAL PLANS

I certify that this plan sheet accurately depicts the configuration and location of the roadway and all its appurtenant features, to the best of my knowledge, as I and my staff have observed the contractor's construction of this project. I specifically disclaim any responsibility for the design of this project, except as I and my staff may have modified or authorized the modification of the project design during construction; and I disclaim responsibility for the contractor's actual construction of the project, except as I and my staff may have directed or ordered that the project be constructed.

DALE H. KINNEMAN MISSOURI E-23513 REGISTERED PROFESSIONAL ENGINEER

Signature

1-23-02
Date

REV.

J:\J0P0763\microstation\edited\11X17_SHEETS\m1000\j0p0763_005_plan001_d.dgn 09:54:25 AM 12/04/2001

ROUTE	STATE	DISTRICT	SHEET NO.
32	MO	10	6

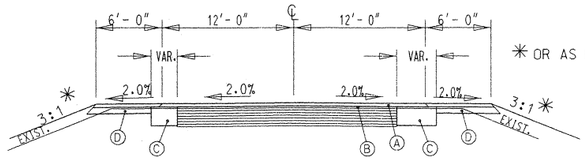
JOB NO. JOP0763

PROJECT NO. FAF-32-3(15)

COUNTY STE. GENEVIEVE

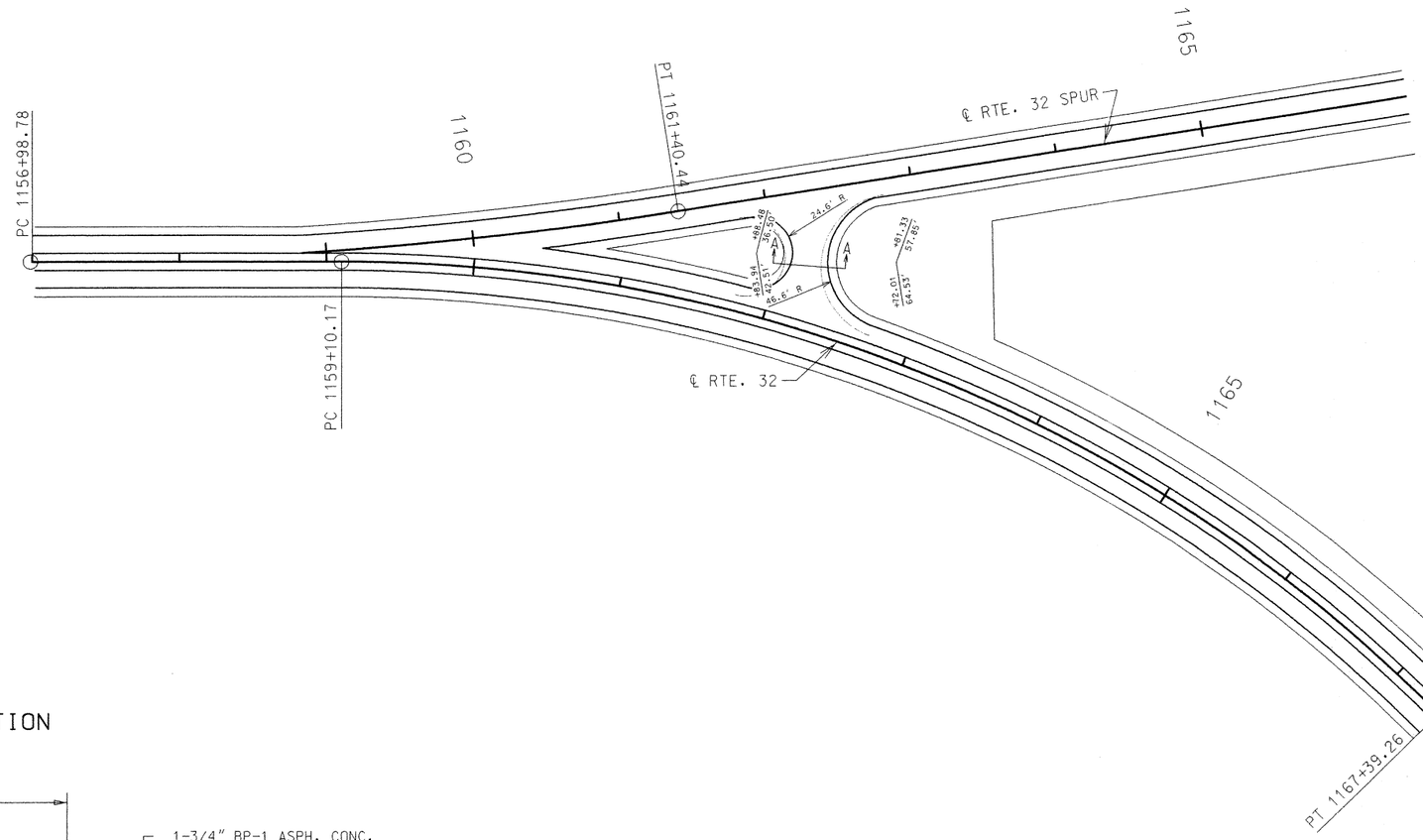
DATE

CONTRACT ID. 000721-X01

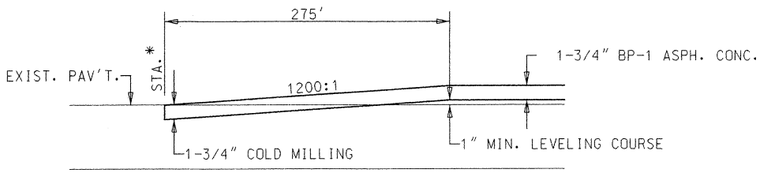


✳ OR AS DIRECTED BY ENGINEER

SECTION A-A



DEPTH TRANSITION



✳**RTE. 32**
STA. 946+00.00 BEGIN PROJECT
STA. 1173+00.00 END PROJECT

RTE. 32 SPUR ("A" LINE)
STA. 1172+00.00 (EDGE OF PAV'T. RTE. 61)

FINAL PLANS

I certify that this plan sheet accurately depicts the configuration and location of the roadway and all its appurtenant features, to the best of my knowledge, as I and my staff have observed the contractor's construction of this project. I specifically disclaim any responsibility for the design of this project, except as I and my staff may have modified or authorized the modification of the project design during its construction; and I disclaim responsibility for the contractor's actual construction of the project, except as I and my staff may have directed or ordered the project be constructed.

DALE H. KRIEMAN KRIEMER E-23513 — REGISTERED PROFESSIONAL ENGINEER

Signature

1-23-02
Date

REV.

\JOP0763\microstation\edited\11X17_SHEETS\m1000\jop0763_depthtrans001_d.dgn 09:54:46 AM 12/04/2001

ROUTE	STATE	DISTRICT	SHEET NO.
32	MO	10	7

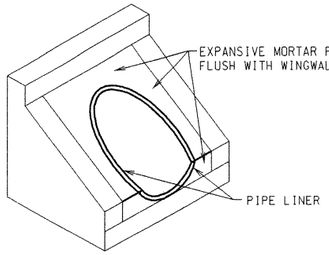
JOB NO. JOP0763

PROJECT NO. FAF-32-3(15)

COUNTY STE. GENEVIEVE

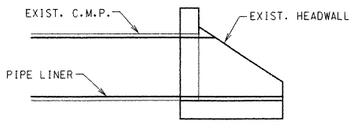
DATE

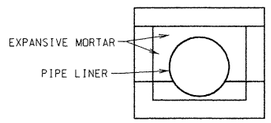
CONTRACT ID. 000721-X01



EXIST. HEADWALLS TO BE USED AT:

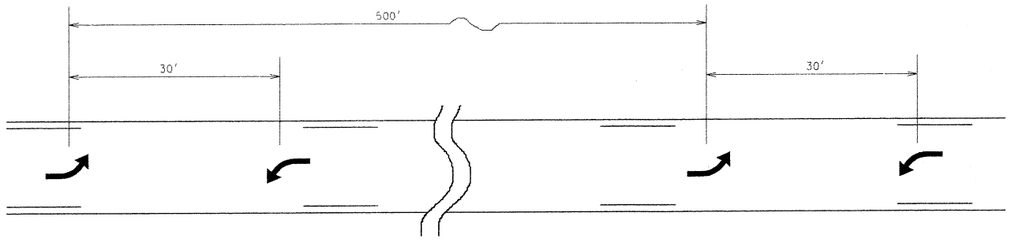
STA. 1014+00 LT.
STA. 1035+24 RT&LT.
STA. 1039+66 RT&LT.
STA. 1047+00 RT&LT
STA. 1080+00 RT.
STA. 1093+18 RT&LT.
STA. 1111+10 RT&LT.





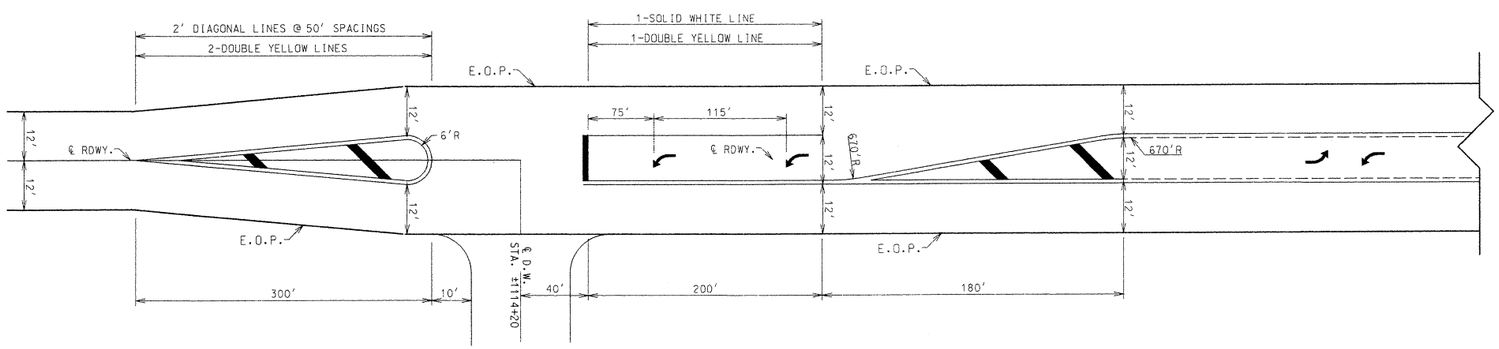
NO DIRECT PAY FOR THE USE OF EXPANSIVE MORTAR IN EXIST. HEADWALL.

PIPE LINER DETAIL
USE OF EXISTING HEADWALL



TYPICAL CENTER TURN LANE ARROW PLACEMENT

DRAWING NOT TO SCALE



TYPICAL LEFT TURN LANE

DRAWING NOT TO SCALE

FINAL PLANS

I certify that this plan sheet accurately depicts the configuration and location of the roadway and all its appurtenant features, to the best of my knowledge, as I and my staff have observed the contractor's construction of this project. I specifically disclaim any responsibility for the design of this project, except as I and my staff may have modified or authorized the modification of the project design during its construction; and I disclaim responsibility for the contractor's actual construction of the project, except as I and my staff may have directed or ordered it to be constructed.

STATE OF MISSOURI
SIGNATURE OF
KIRK W. KINNEMAN
NUMBER
E-23513
REGISTERED PROFESSIONAL ENGINEER

1-23-02
Date

REV.

J:\JOP0763\microstation\edited\11X17_SHEETS\m1000\JOP0763_006_DETAILS001_D.DGN 09:54:39 AM 12/04/2001

ROUTE	STATE	DISTRICT	SHEET NO.
32	MO	10	8

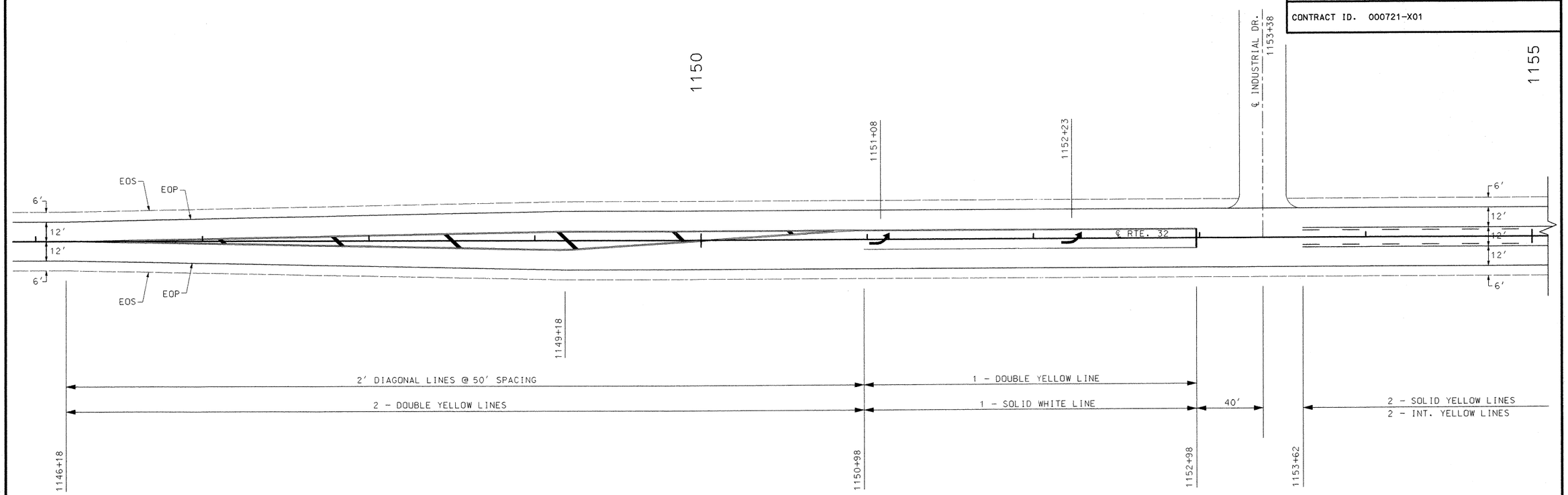
JOB NO. J0P0763

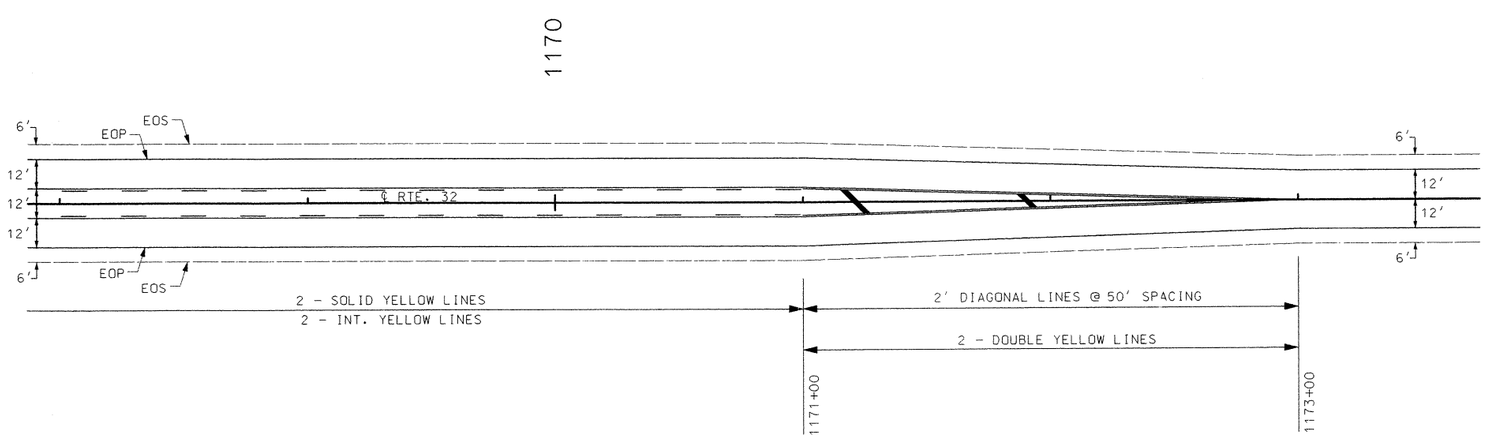
PROJECT NO. FAF-32-3 (15)

COUNTY STE. GENEVIEVE

DATE

CONTRACT ID. 000721-X01





FINAL PLANS

I certify that this plan sheet accurately depicts the configuration and location of the roadway and all its appurtenant features, to the best of my knowledge, as I and my staff have observed the contractor's construction of this project. I specifically disclaim any responsibility for the design of this project, except as I and my staff may have modified or authorized the modification of the project design during its construction; and I disclaim responsibility for the contractor's actual construction of the project, except as I and my staff may have directed or ordered that the project be constructed.

DALE V. KNEELAND NUMBER E-23513 REGISTERED PROFESSIONAL ENGINEER

Signature

1-23-02
Date

REV.

J:\J0P0763\microstation\edited\11X17_SHEETS\130\J0P0763_STRIPE001_D.DGN 09:47:12 AM 12/04/2001

ROUTE	STATE	DISTRICT	SHEET NO.
32	MO	10	9

JOB NO. J0P0763

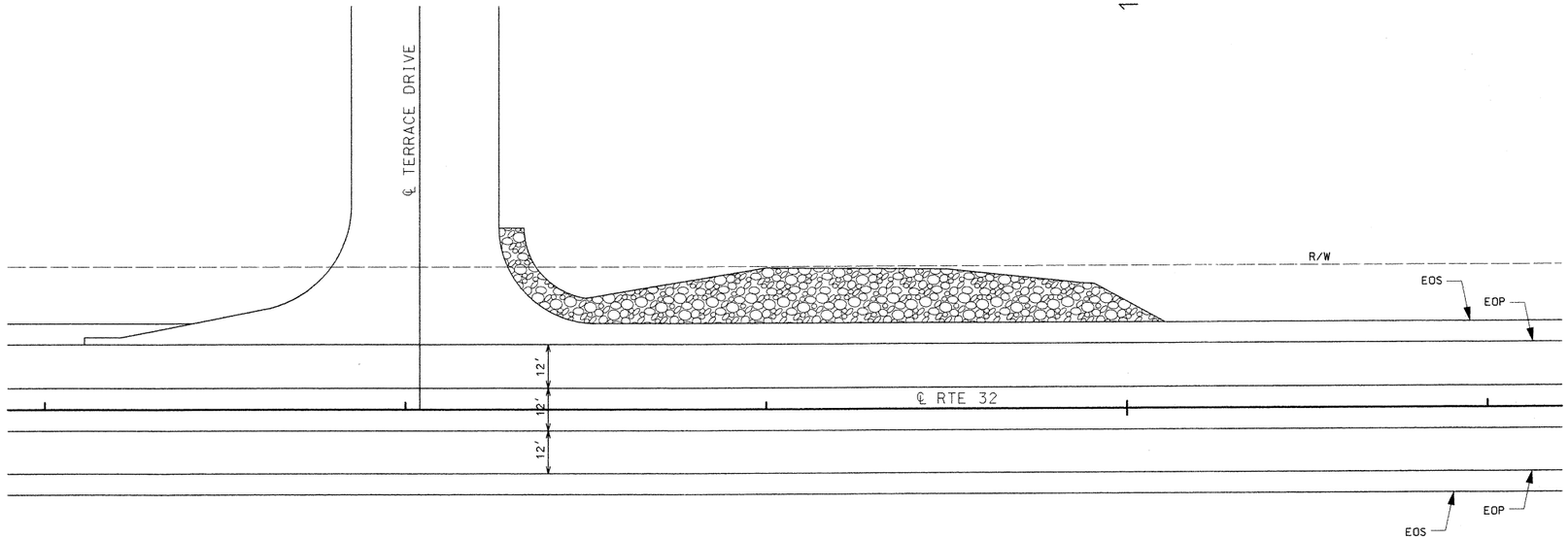
PROJECT NO. FAF-32-3 (15)

COUNTY STE. GENEVIEVE

DATE

CONTRACT ID. 000721-X01

1160



ROCK LINING DETAIL

FINAL PLANS

I certify that this plan sheet accurately depicts the configuration and location of the roadway and all its appurtenant features, to the best of my knowledge, as I and my staff have observed the contractor's construction of this project. I specifically disclaim any responsibility for the design of this project, except as I and my staff may have modified or authorized the modification of the project design during its construction; and I disclaim responsibility for the contractor's actual construction of the project, except where I and my staff may have directed or ordered the work to be constructed.

Signature

1-23-02
Date

DALE N. KINNEMAN
NUMBER E-23513
REGISTERED PROFESSIONAL ENGINEER

REV.

J:\J0P0763\microstation\edited\11X17_SHEETS\terracedrive_d.dgn 09:47:19 AM 12/04/2001

ROUTE	STATE	DISTRICT	SHEET NO.
32	MO	10	14

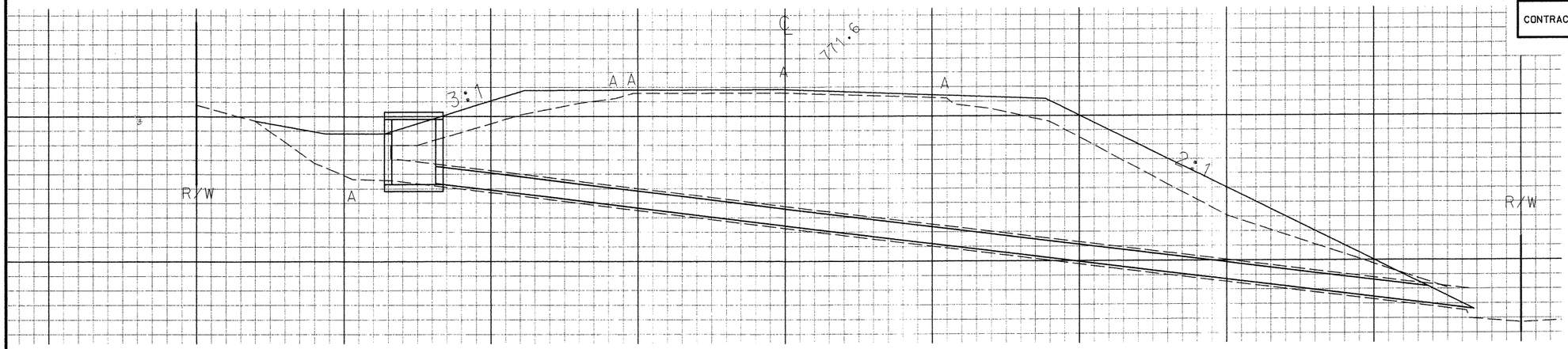
JOB NO. JOP0763

PROJECT NO. FAF-32-3 (15)

COUNTY STE. GENEVIEVE

DATE

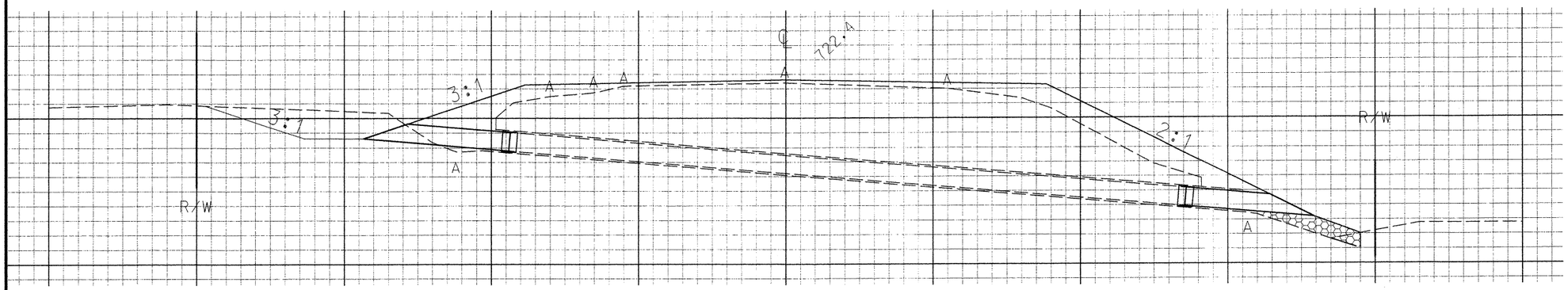
CONTRACT ID. 000721-X01



STA. 962+55
EXIST. 18" C.M.P.

3'x 3' TYPE E D.I. "D"=4.5'
TYPE A COVER
1 - WIER OPENING,1-15" PIPE OPENING
CL. 3 EXC. - 1.8 C.Y.
REMOVE HDWLL. LT.

15"X 71' PLASTIC PIPE LINER
1 BEVELED END
REMOVE HDWLL. RT.



STA. 950+60
EXIST. 18" C.M.P.
w/PLASTIC LINER

15"x 8' PLASTIC PIPE EXT.
1 - BEVELED END
1 - COUPLING ADAPTER
CL. 3 EXC. - 0.6 C.Y.
REMOVE HDWLL. LT.

15"x 9' PLASTIC PIPE EXT.
1 - BEVELED END
1 - COUPLING ADAPTER
CL. 3 EXC. - 0.4 C.Y.
ROCK LINING - 1.0 C.Y.
REMOVE HDWLL. RT.

FINAL PLANS

I certify that this plan sheet accurately depicts the configuration and location of the roadway and all its appurtenant features, to the best of my knowledge, as I and my staff have observed the contractor's construction of this project. I specifically disclaim any responsibility for the design of this project, except as I and my staff may have modified or authorized the modification of the project design during its construction; and I disclaim responsibility for the contractor's actual construction of the project, except as I and my staff may have directed or ordered the project to be constructed.

REGISTERED PROFESSIONAL ENGINEER

DALE R. KINNEMAN
Signature
NUMBER E-23513

1-23-02
Date

REV.

J:\JOP0763\microstation\edited\11X17_SHEETS\CULVERT_...1_CONV\jOp0763_cul001_d.dgn 09:45:56 AM 12/04/2001

ROUTE	STATE	DISTRICT	SHEET NO.
32	MO	10	15

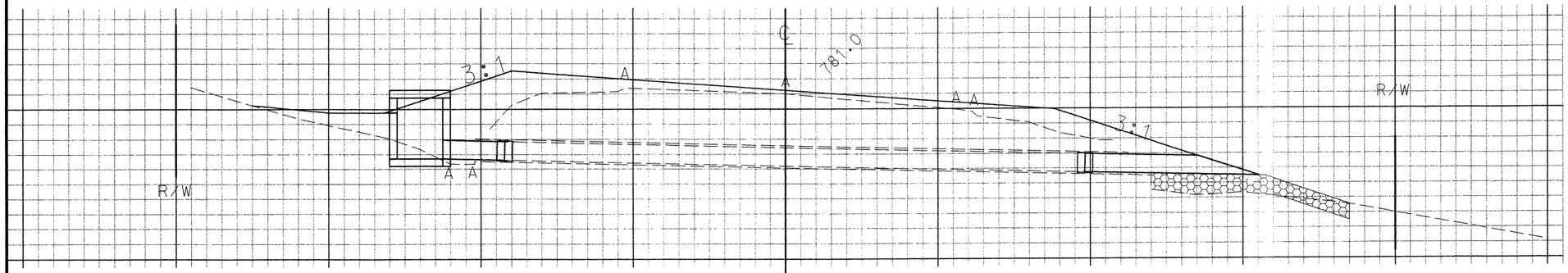
JOB NO. JOP0763

PROJECT NO. FAF-32-3 (15)

COUNTY STE. GENEVIEVE

DATE

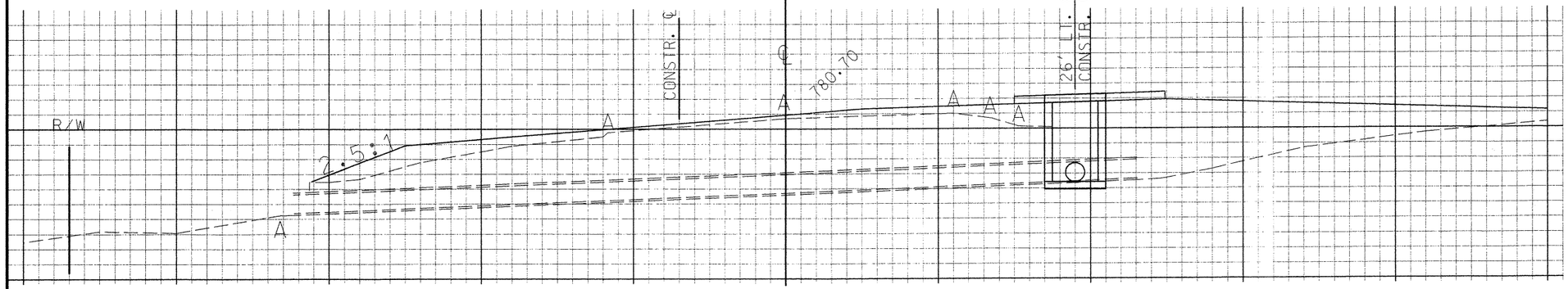
CONTRACT ID. 000721-X01



STA. 991+65
EXIST. 18" C.M.P.
w/PLASTIC LINER

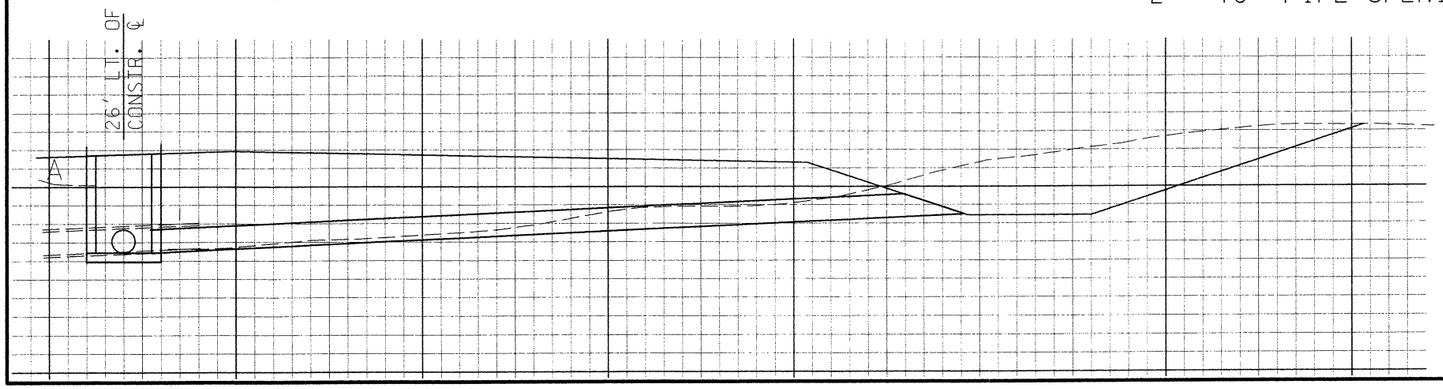
3'X 3' TYPE E D.I. "D" = 3.75'
TYPE A COVER
1 - WIER OPENING, 1-15" PIPE OPENING
CL. 3 EXC. - 1.4 C.Y.
REMOVE HDWLL. RT

15"x 12' PLASTIC PIPE EXT.
1 - BEVELED END
1 - COUPLING ADAPTER
CL. 3 EXC. - 1.3 C.Y.
ROCK LINING - 2.2 C.Y.
REMOVE HDWLL. RT.



STA. 976+00
EXIST. 18" C.M.P.
w/PLASTIC LINER

3'x 3' M.H. "D"= 5.0'
TYPE 2 FRAME AND COVER
CL. 3 EXC. - 3.5 C.Y.
2 - 18" PIPE OPENINGS



18"X 38' C.M.P.
CL. 3 EXC. - 5.2 C.Y

FINAL PLANS

I certify that this plan sheet accurately depicts the configuration and location of the roadway and all its appurtenant features, to the best of my knowledge, as I and my staff have observed the contractor's construction of this project. I specifically disclaim any responsibility for the design of this project, except as I and my staff may have modified or authorized the modification of the project design during its construction; and I disclaim responsibility for the contractor's actual construction of the project, except as I and my staff may have directed or ordered the work to be constructed.

STATE OF MISSOURI
DARREN M. KINNEMAN
NUMBER E-23513
REGISTERED PROFESSIONAL ENGINEER

Signature _____ 1-23-02
Date

REV.

J:\JOP 0763\microstation\edited\11X17_SHEETS\CULVERT_1_CO...ul002_d.dgn 09:46:02 AM 12/04/2001

ROUTE	STATE	DISTRICT	SHEET NO.
32	MO	10	16

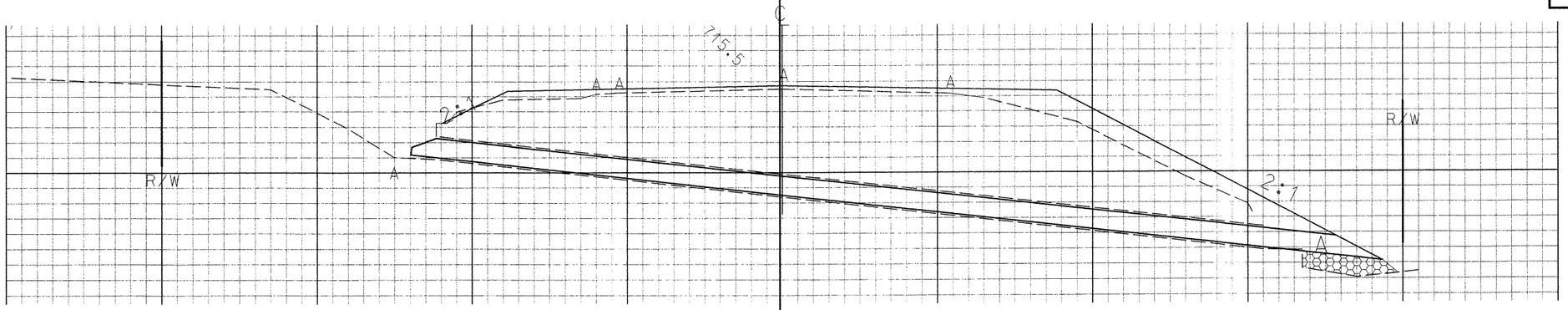
JOB NO. JOP0763

PROJECT NO. FAF-32-3 (15)

COUNTY STE. GENEVIEVE

DATE_____

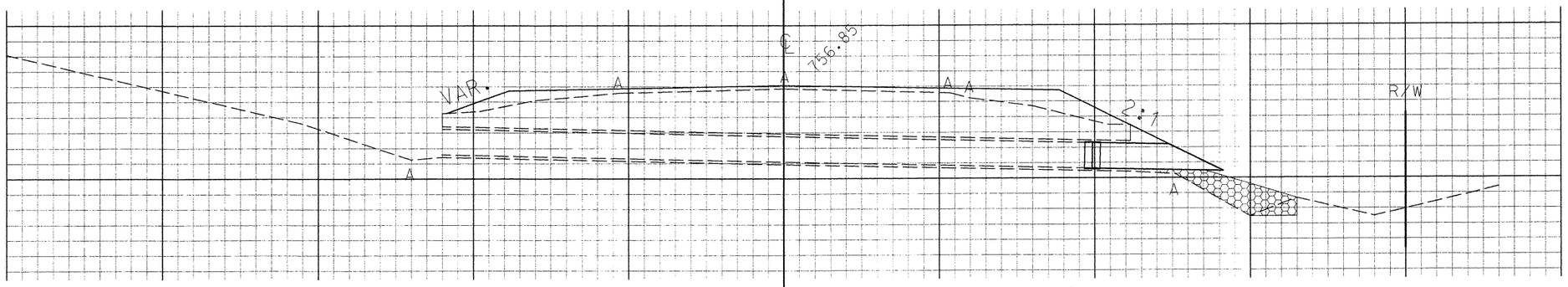
CONTRACT ID. 000721-X01



STA. 1014+00
EXIST. 18" C.M.P.

ROCK LINING - 0.9 C.Y.
U.I.P. HDWLL. LT.

15"X 60' PLASTIC PIPE LINER
2 - BEVELED ENDS
REMOVE HDWLL. RT.



STA. 998+40
EXIST. 24" C.M.P.
w/ PLASTIC LINER

R/W - 60'

21"X 2' PLASTIC PIPE EXT.
1 - BEVELED END
1 - COUPLING ADAPTER
CL. 3 EXC. - 1.9 C.Y.
ROCK LINING - 1.7 C.Y.
REMOVE HDWLL. RT.

FINAL PLANS

I certify that this plan sheet accurately depicts the configuration and location of the roadway and all its appurtenant features, to the best of my knowledge, as I and my staff have observed the contractor's construction of this project. I specifically disclaim any responsibility for the design of this project, except as I and my staff may have modified or authorized the modification of the project design during its construction; and I disclaim responsibility for the contractor's actual construction of the project, except as I and my staff may have directed or ordered the project to be constructed.

DALE A. [illegible]
REGISTERED PROFESSIONAL ENGINEER
NUMBER E-23513

Signature _____ Date 1-23-02

REV.

J:\JOP 0763\microstation\edited\11x17_SHEETS\CULVERT__1_CONV\jOp0763_cul003_d.dgn 09:46:09 AM 12/04/2001

ROUTE	STATE	DISTRICT	SHEET NO.
32	MO	10	17

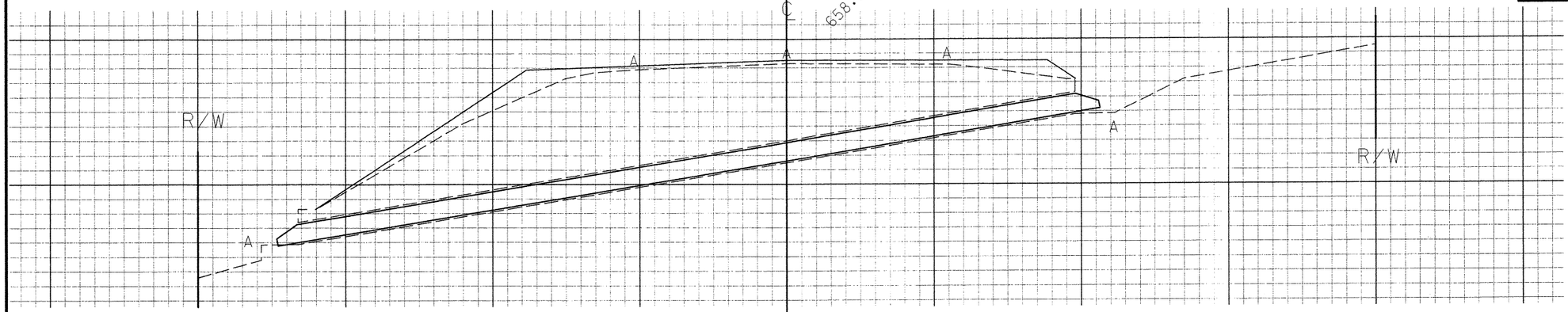
JOB NO. JOP0763

PROJECT NO. FAF-32-3 (15)

COUNTY STE. GENEVIEVE

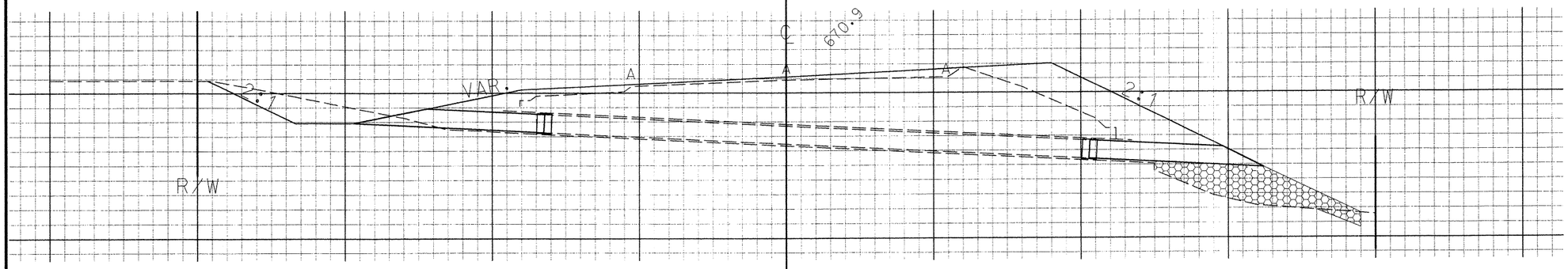
DATE_____

CONTRACT ID. 000721-X01



STA. 1035+24
EXIST. 18" C.M.P.

15"X 63' PLASTIC PIPE LINER
2 - BEVELED ENDS
U.I.P. HDWLLS. LT.& RT.



STA. 1026+00
EXIST. 18" C.M.P.
w/PLASTIC LINER

15"X 13' PLASTIC PIPE EXT.
1 - BEVELED END
1 - COUPLING ADAPTER
CL. 3 EXC. - 1.0 C.Y.
REMOVE HDWLL. LT.

15"X 14' PLASTIC PIPE EXT.
1 - BEVELED END
1 - COUPLING ADAPTER
CL. 3 EXC. - 1.3 C.Y.
ROCK LINING - 3.3 C.Y.
REMOVE HDWLL. RT.

FINAL PLANS

I certify that this plan sheet accurately depicts the configuration and location of the roadway and all its appurtenant features, to the best of my knowledge, as I and my staff have observed the contractor's construction of this project. I specifically disclaim any responsibility for the design of this project, except as I and my staff may have modified or authorized the modification of the project design during its construction; and I disclaim responsibility for the contractor's actual construction of the project, except as I and my staff may have directed or ordered the project to be constructed.

STATE OF MISSOURI
JULIE H. KINCAID
NUMBER E-23513
REGISTERED PROFESSIONAL ENGINEER

Signature _____ 1-23-02
Date

REV.

J:\JOP 0763\microstation\edited\11x17_SHEETS\CULVERT__1_CONV\jop0763_cul004_d.dgn 09:46:16 AM 12/04/2001

ROUTE	STATE	DISTRICT	SHEET NO.
32	MO	10	18

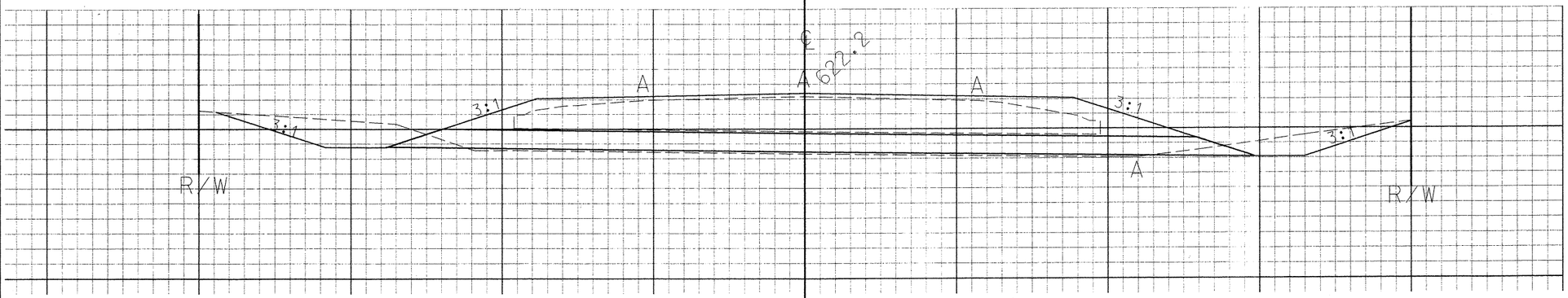
JOB NO. J0P0763

PROJECT NO. FAF-32-3 (15)

COUNTY STE. GENEVIEVE

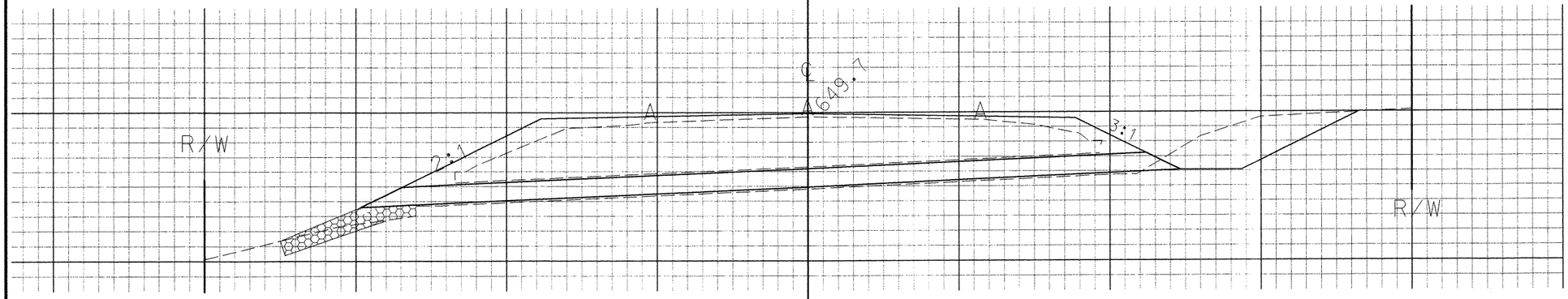
DATE_____

CONTRACT ID. 00721-X01



STA. 1047+00
EXIST. 18" C.M.P.

15"X 57' PLASTIC PIPE LINER
2 - BEVELED ENDS
REMOVE HDWLL. LT.
U.I.P. HDWLL. RT.



STA. 1039+66
EXIST. 18" C.M.P.

15"X 7' PLASTIC PIPE EXT.
1 - BEVELED END
ROCK LINING - 1.3 C.Y.
CL. 3 EXC. 1.5 C.Y.
U.I.P. HDWLLS. LT. & RT.

FINAL PLANS

I certify that this plan sheet accurately depicts the configuration and location of the roadway and all its appurtenant features, to the best of my knowledge, as I and my staff have observed the contractor's construction of this project. I specifically disclaim any responsibility for the design of this project, except as I and my staff may have modified or authorized the modification of the project design during its construction; and I disclaim responsibility for the contractor's actual construction of the project, except as I and my staff may have directed or ordered that the project be constructed.

STATE OF MISSOURI DALE H. WAGNER NUMBER E-23513 REGISTERED PROFESSIONAL ENGINEER

Signature

1-23-02
Date

REV.

J:\...\JOP0763\microstation\edited\11X17_SHEETS\CULVERT__1_CONV\j0p0763_cul005_d.dgn 09:46:22 AM 12/04/2001

ROUTE	STATE	DISTRICT	SHEET NO.
32	MO	10	19

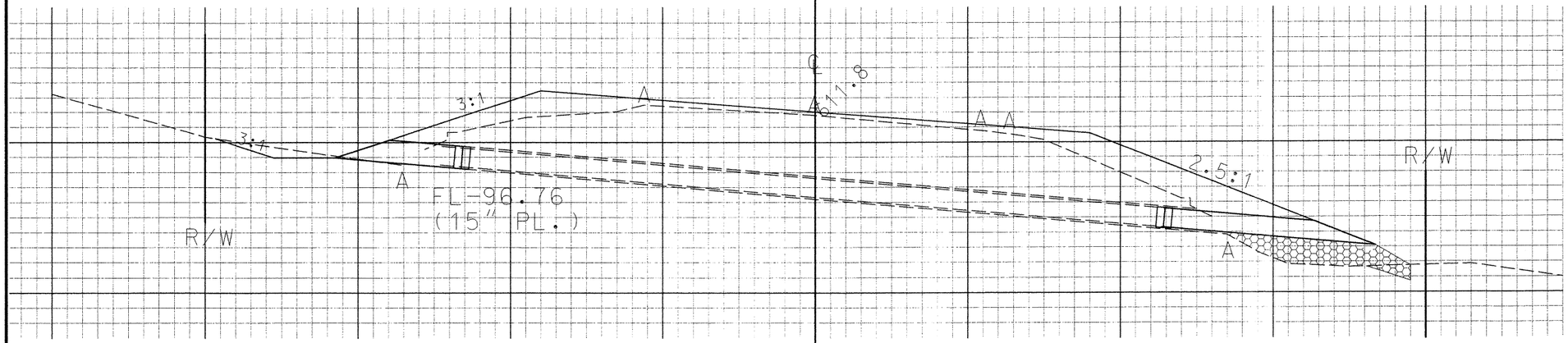
JOB NO. JOP0763

PROJECT NO. FAF-32-3 (15)

COUNTY STE. GENEVIEVE

DATE_____

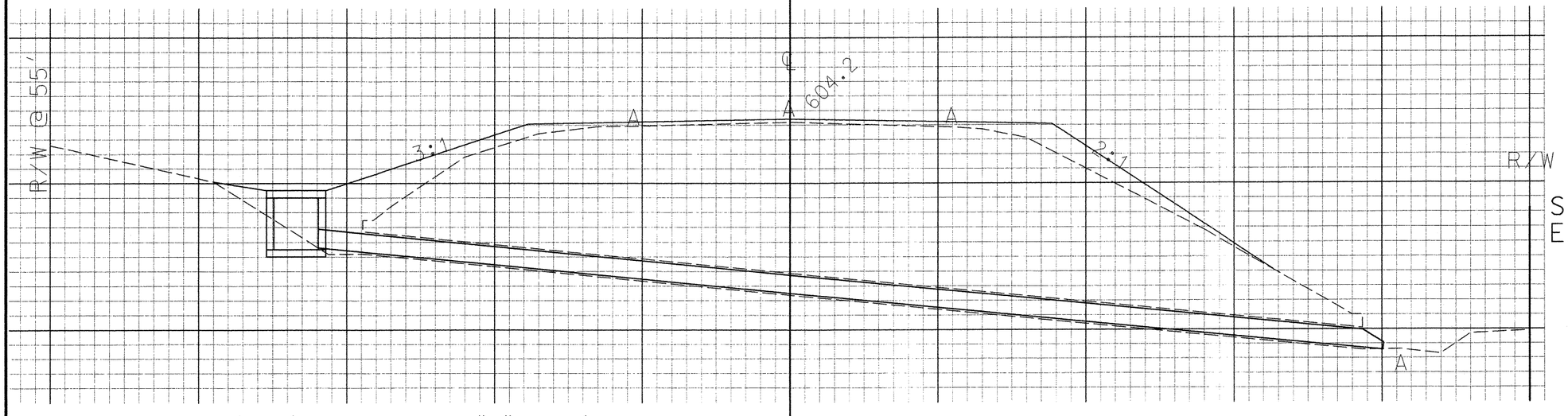
CONTRACT ID. 000721-X01



STA. 1093+18
EXIST. 18" C.M.P.
w/PLASTIC LINER

15"X 7' PLASTIC PIPE EXT.
1 - BEVELED END
1 - COUPLING ADAPTER
CL. 3 EXC. - 1.0 C.Y.
U.I.P. HDWLL. LT.

15"X 10' PLASTIC PIPE EXT.
1 - BEVELED END
1 - COUPLING ADAPTER
CL. 3 EXC. - 1.2 C.Y.
ROCK LINING - 2.1 C.Y.
U.I.P. HDWLL. RT.



STA. 1080+00
EXIST. 18" C.M.P.

3'X 2' TYPE S D.I. "D"= 3.5'
1-18" PIPE OPENING
CL.3 EXC. - 3.0 C.Y.
15"X 72' PLASTIC PIPE LINER
1 - BEVELED END

FINAL PLANS

I certify that this plan sheet accurately depicts the configuration and location of the roadway and all its appurtenant features, to the best of my knowledge, as I and my staff have observed the contractor's construction of this project. I specifically disclaim any responsibility for the design of this project, except as I and my staff may have modified or authorized the modification of the project design during its construction; and I disclaim responsibility for the contractor's actual construction of the project, except as I and my staff may have directed or ordered the contractor's actual construction.

DALE H. KINNEMAN NUMBER E-23513 REGISTERED PROFESSIONAL ENGINEER

1-23-02
Date

REV.

J:\JOP0763\microstation\edited\11X17_SHEETS\CULVERT_11_CONV\jOp0763_cul006_d.dgn 09:46:28 AM 12/04/2001

ROUTE	STATE	DISTRICT	SHEET NO.
32	MO	10	20

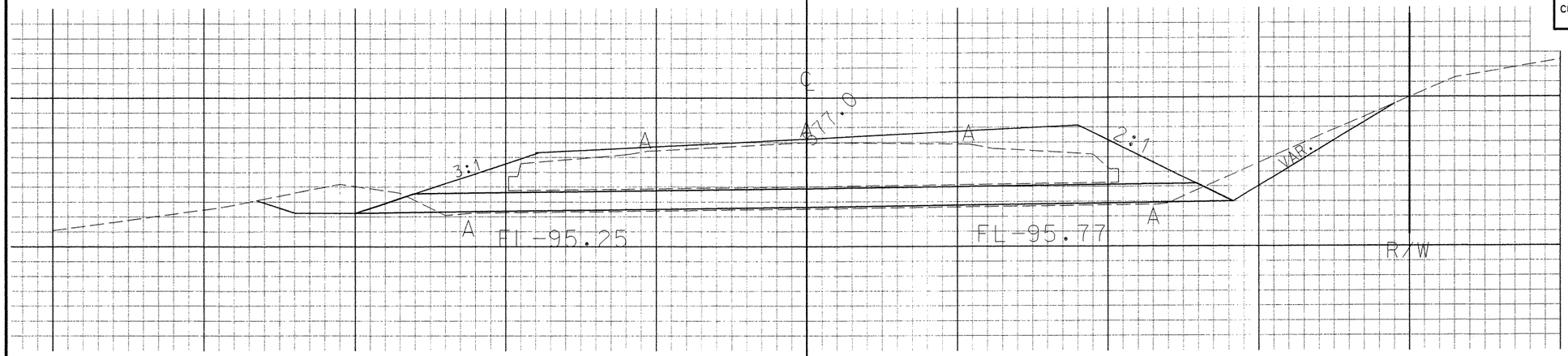
JOB NO. JOP0763

PROJECT NO. FAF-32-3 (15)

COUNTY STE. GENEVIEVE

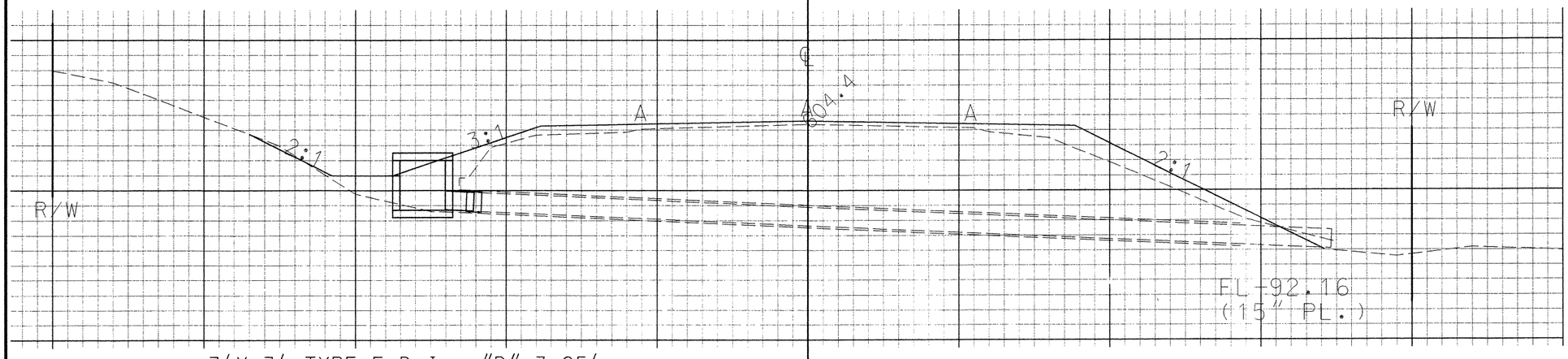
DATE_____

CONTRACT ID. 000721-X01



STA. 1111+10
EXIST. 18" C.M.P.

15"X 56' PLASTIC PIPE LINER
2 - BEVELED ENDS
REMOVE HDWLLS. LT. & RT.



STA. 1101+48
EXIST. 18" C.M.P.
w/PLASTIC LINER

3'X 3' TYPE E D.I. "D"=3.25'
TYPE A COVER
1 - WIER OPENING, 1-18" PIPE OPENING
CL. 3 EXC. - 1.7 C.Y.
REMOVE HDWLL. LT.

FINAL PLANS

I certify that this plan sheet accurately depicts the configuration and location of the roadway and all its appurtenant features, to the best of my knowledge, as I and my staff have observed the contractor's construction of this project. I specifically disclaim any responsibility for the design of this project, except as I and my staff may have modified or authorized the modification of the project design during its construction; and I disclaim responsibility for the contractor's actual construction of the project, except as I and my staff may have directed or ordered it to be constructed.

STATE OF MISSOURI
ROGER H. SKINNEMAN
NUMBER E-23513
REGISTERED PROFESSIONAL ENGINEER

Signature 1-23-02 Date

REV.

J:\...\OP 0763\microstation\edited\11X17_SHEETS\CULVERT_11_CONV\jop0763_cul007_d.dgn 09:46:35 AM 12/04/2001

ROUTE	STATE	DISTRICT	SHEET NO.
32	MO	10	21

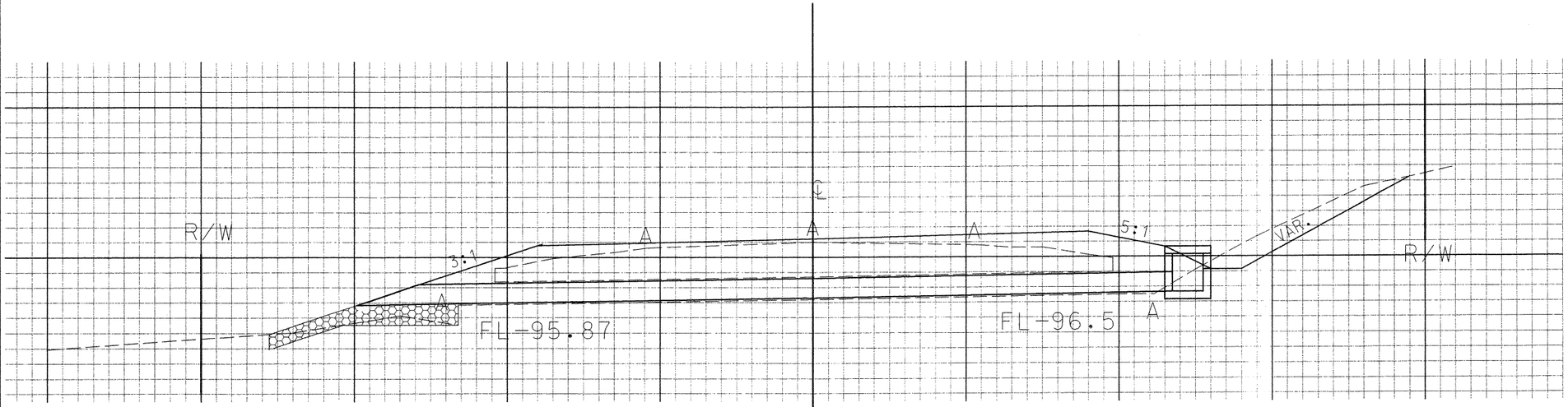
JOB NO. J0P0763

PROJECT NO. FAF-32-3 (15)

COUNTY STE. GENEVIEVE

DATE_____

CONTRACT ID. 000721-X01



STA. 1131+00
EXIST. 18" C.M.P.

15"X 54' PLASTIC PIPE LINER
1 - BEVELED END
ROCK LINING - 1.9 C.Y.
REMOVE HDWLL. LT.

3'x 3' TYPE E D.I. "D"=2.5'
TYPE A COVER
1 - WIER OPENING, 1-18" PIPE OPENING
CL. 3 EXC. - 2.1.C.Y.
REMOVE HDWLL. RT.

FINAL PLANS

I certify that this plan sheet accurately depicts the configuration and location of the roadway and all its appurtenant features, to the best of my knowledge, as I and my staff have observed the contractor's construction of this project. I specifically disclaim any responsibility for the design of this project, except as I and my staff may have modified or authorized the modification of the project design during its construction; and I disclaim responsibility for the contractor's actual construction of the project, except as I and my staff may have directed or ordered [illegible] constructed.

DALE A. KLEKAMP NUMBER E-23513 REGISTERED PROFESSIONAL ENGINEER

Signature

1-23-02
Date

REV.

J:\JOP0763\microstation\edited\11X17_SHEETS\CULVERT_&_CONV\jop0763_cul008_d.dgn 09:46:41 AM 12/04/2001

ROUTE	STATE	DISTRICT	SHEET NO.
32	MO	10	22

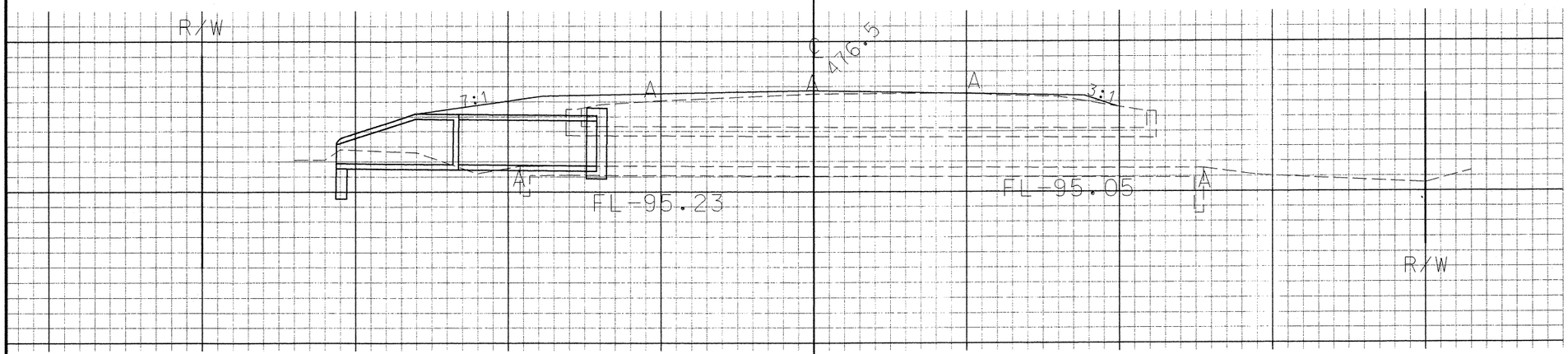
JOB NO. JOP0763

PROJECT NO. FAF-32-3 (15)

COUNTY STE. GENEVIEVE

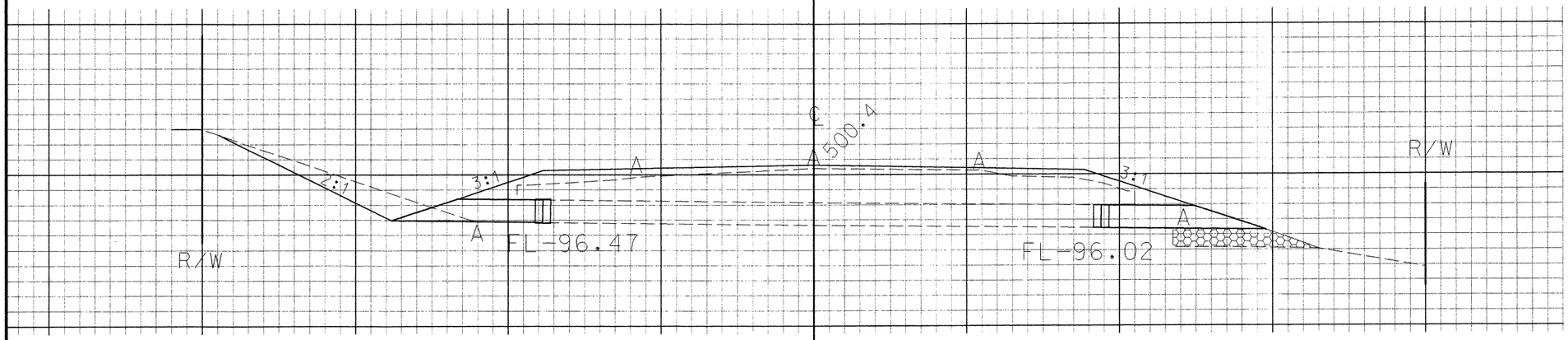
DATE_____

CONTRACT ID. 000721-X01



STA. 1143+30
EXIST. 3' X 2' BOX

36"X11' CL. III R.C.P.
1-FLARED END SECTION
1-TYPE C PIPE COLLAR
CL. 3 EXC. - 5.8 C.Y.
REMOVE HDWLL. LT.



STA. 1138+00
EXIST. 18" C.M.P.

18"X 8' C.M.P.
1 - BEVELED END
1 - COUPLING ADAPTER
CL. 3 EXC. - 1.1 C.Y.
REMOVE HDWLL. LT.

18"X 9' C.M.P.
1 - BEVELED END
1 - COUPLING ADAPTER
CL. 3 EXC. - 1.2 C.Y.
ROCK LINING - 2.0 C.Y.
REMOVE HDWLL. RT.

FINAL PLANS

I certify that this plan sheet accurately depicts the configuration and location of the roadway and all its appurtenant features, to the best of my knowledge, as I and my staff have observed the contractor's construction of this project. I specifically disclaim any responsibility for the design of this project, except as I and my staff may have modified or authorized the modification of the project design during its construction; and I disclaim responsibility for the contractor's actual construction of the project, except as I and my staff may have directed or ordered that it be constructed.

STATE OF MISSOURI DALE H. KINNEMAN NUMBER E-23513 REGISTERED PROFESSIONAL ENGINEER

Signature _____ 1-23-02 Date

REV.

J:\JOP0763\microstation\edited\11X17_SHEETS\CULVERT_11_CONV\jop0763_cul009_d.dgn 09:46:47 AM 12/04/2001

ROUTE	STATE	DISTRICT	SHEET NO.
32	MO	10	23

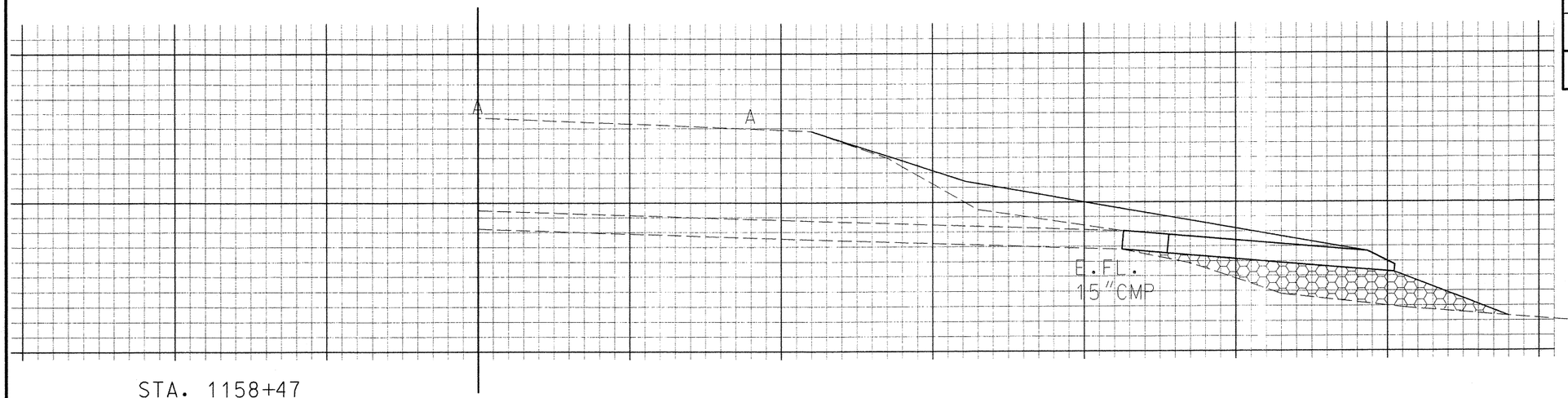
JOB NO. JOP0763

PROJECT NO. FAF-32-3 (15)

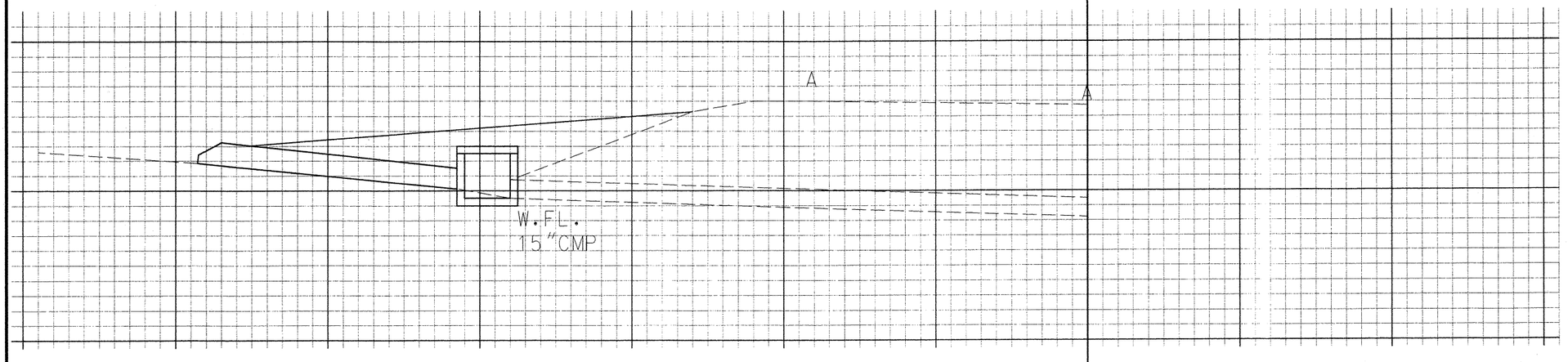
COUNTY STE. GENEVIEVE

DATE_____

CONTRACT ID. 000721-X01



STA. 1158+47
15"X 16' C.M.P.
1- 30° BEND
1 - PIPE COLLAR
1 - BEVELED END
ROCK LINING - 4.1 C.Y.



STA. 1157+65
3'X 3' TYPE E D.I. "D"=3.0'
18"X 16' C.M.P.
TYPE A COVER
1 - WIER OPENING, 1-15" PIPE OPENING
CL. 3 EXC. - 0.8 C.Y.

TERRACE DR.
EXIST. 15"C.M.P.

FINAL PLANS

I certify that this plan sheet accurately depicts the configuration and location of the roadway and all its appurtenant features, to the best of my knowledge, as I and my staff have observed the contractor's construction of this project. I specifically disclaim any responsibility for the design of this project, except as I and my staff may have modified or authorized the modification of the project design during its construction; and I disclaim responsibility for the contractor's actual construction of the project, except as I and my staff may have directed or ordered the manner in which it be constructed.

STATE OF MISSOURI
DALE H. KINNEMAN
NUMBER E-23513
REGISTERED PROFESSIONAL ENGINEER

Signature _____ 1-23-02
Date

REV.

J:\...\JOP0763\microstation\edited\11X17_SHEETS\CULVERT_11_CONV\JOP0763_010_d.dgn 09:46:54 AM 12/04/2001

ROUTE	STATE	DISTRICT	SHEET NO.
32	MO	10	24

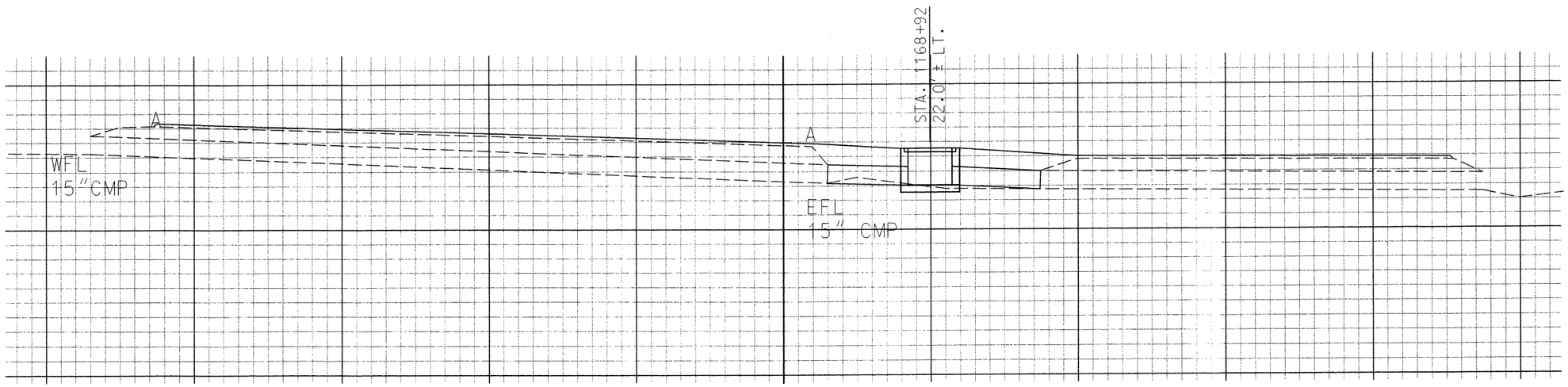
JOB NO. JOP0763

PROJECT NO. FAF-32-3 (15)

COUNTY STE. GENEVIEVE

DATE_____

CONTRACT ID. 000721-X01



STA. 1168+72

3'X 2' TYPE S D.I. "D"=2.5'
CL.3 EXC. - 0.4 C.Y.
2 - 15"X 6' C.M.P.
2 - PIPE COLLARS

FINAL PLANS

I certify that this plan sheet accurately depicts the configuration and location of the roadway and all its appurtenant features, to the best of my knowledge, as I and my staff have observed the contractor's construction of this project. I specifically disclaim any responsibility for the design of this project, except as I and my staff may have modified or authorized the modification of the project design during its construction; and I disclaim responsibility for the contractor's actual construction of the project, except as I and my staff may have directed or ordered the project to be constructed.

DALE H. KAMEMAN
NUMBER E-23513
REGISTERED PROFESSIONAL ENGINEER

Signature

1-23-02
Date

REV.

J:\JOP0763\microstation\edited\11X17_SHEETS\CULVERT_11_CONV\jop0763_cul011_d.dgn 09:47:00 AM 12/04/2001

ROUTE	STATE	DISTRICT	SHEET NO.
32	MO	10	25

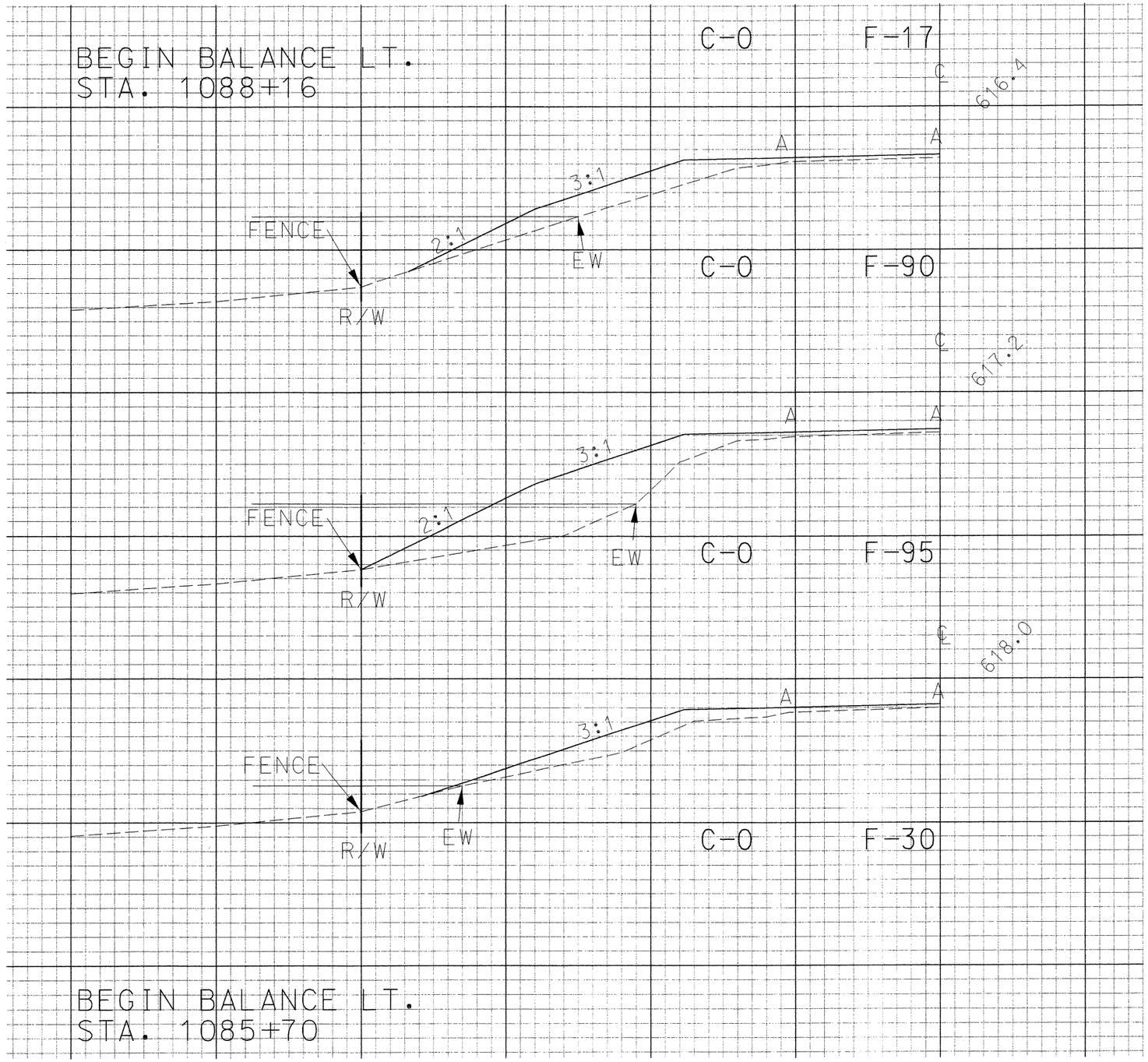
JOB NO. JOP0763

PROJECT NO. FAF-32-3 (15)

COUNTY STE. GENEVIEVE

DATE

CONTRACT ID. 000721-X01



STA. 1087+50

STA. 1086+85

STA. 1086+27

ROCK FILL

FINAL PLANS

I certify that this plan sheet accurately depicts the configuration and location of the roadway and all its appurtenant features, to the best of my knowledge, as I and my staff have observed the contractor's construction of this project. I specifically disclaim any responsibility for the design of this project, except as I and my staff may have modified or authorized the modification of the project design during its construction; and I disclaim responsibility for the contractor's actual construction of the project, except as I and my staff may have directed or ordered the same to be constructed.

Signature: DALE H. KONNEMAN NUMBER E-23513 REGISTERED PROFESSIONAL ENGINEER

1-23-02
Date

REV.

J:\...OP0763\microstation\edited\11X17_SHEETS\CULVERT__1_CONV...MII_d.dgn 09:47:06 AM 12/04/2001

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

STANDARD PLANS

EFFECTIVE 01-01-2000

FINAL PLANS

I certify that this plan sheet accurately depicts the configuration and location of the roadway and all its appurtenant features, to the best of my knowledge, as I and my staff have observed the contractor's construction of this project. I specifically disclaim any responsibility for the design of this project, except as I and my staff may have modified or authorized the modification of the project design during its construction; and I disclaim responsibility for the contractor's actual construction of the project, except as I and my staff may have directed or ordered that the project be constructed.

Signature _____ Date 1-23-02

STATE OF MISSOURI — DALE H. KINNEMAN NUMBER E-23513 — REGISTERED PROFESSIONAL ENGINEER

ROUTE	STATE	DISTRICT	SHEET NO.
32	MO	10	26

JOB NO. JOP0763

PROJECT NO. FAF-32-3(15)

COUNTY STE. GENEVIEVE

DATE_____

CONTRACT ID. 000721-X01

✓	NO.	DESCRIPTION
	203.00E	EXCAVATION & EMBANKMENT
	203.02D	UNDERGRADING
	203.10B	TABULATED EARTHWORK AND SECTION DATA
	203.20E	SUPERELEVATION SPIRALS AND WIDENING (UNDIVIDED HIGHWAY)
	203.21F	SUPERELEVATION SPIRALS AND WIDENING (DIVIDED HIGHWAY)
✓	203.35A	MAILBOX TURNOUTS
	203.40F	TYPICAL DETAILS-RAMPS FOR INTERCHANGES (OTHER THAN 6:1 FORESLOPE)
	203.41F	TYPICAL DETAILS-RAMPS FOR INTERCHANGES (6:1 FORESLOPE)
	203.50L	TYPICAL MEDIAN OPENINGS (DIVIDED HIGHWAYS)
✓	203.61	DRIVEWAY TYPE I
	203.62A	DRIVEWAY TYPE II
	203.63A	DRIVEWAY TYPE III
	203.64A	DRIVEWAY TYPE IV
✓	203.65A	DRIVEWAY TYPE V
	204.00D	EMBANKMENT CONTROL MEASURING DEVICES
	204.30	PORE PRESSURE MEASURING DEVICES
	502.00R	CONCRETE PAVEMENT AND BASE APPURTENANCES (2 SHEETS)
	502.05C	CONCRETE PAVEMENT AND BASE APPURTENANCES, 15 FT. JOINT SPACING (2 SHEETS)
	502.10F	DOWEL SUPPORTING UNITS
	504.00E	CONCRETE APPROACH PAVEMENT (2 SHEETS) *
	602.00A	RIGHT-OF-WAY & DRAIN MARKERS
	602.40	GEOGRAPHIC REFERENCE SYSTEM MONUMENT
	604.05C	PIPE CULVERT HEADWALLS - TYPE S
	604.10B	HEADWALL-WITH ENERGY DISSIPATER - 18"
	604.11B	HEADWALL-WITH ENERGY DISSIPATER - 24"
	604.12B	HEADWALL-WITH ENERGY DISSIPATER - 30"
	604.13B	HEADWALL-WITH ENERGY DISSIPATER - 36"
	604.14B	HEADWALL-WITH ENERGY DISSIPATER - 42"
	604.15B	HEADWALL-WITH ENERGY DISSIPATER - 48"
	604.20B	DROP INLET - TYPE B
	604.21B	DROP INLET - TYPE C
	604.22B	DROP INLET - TYPE D
✓	604.23B	DROP INLET - TYPE E
	604.24B	DROP INLET - TYPE EE
	604.25C	DROP INLET - TYPE F
	604.26D	DROP INLET - TYPE G
✓	604.27E	DROP INLET - TYPE S (3 SHEETS)
	604.28E	DROP INLET - TYPE T (ALSO INCLUDE 614.30)
	604.29C	DROP INLET - TYPE X
	604.30F	CONCRETE MANHOLES (ALSO INCLUDE 614.30)
✓	604.40E	PIPE COLLARS
	604.70	SLOTTED DRAIN (2 SHEETS)
	605.10C	PAVEMENT UNDERDRAINAGE (2 SHEETS) *
	606.00AH	GUARDRAIL (8 SHEETS)
	606.22P	BRIDGE ANCHOR SECTION (SAFETY BARRIER CURB ON BRIDGE) (ALSO INCLUDE 606.00) (2 SHEETS)
	606.23D	BRIDGE ANCHOR SECTION (THRIE BEAM RAIL ON BRIDGE) (ALSO INCLUDE 606.00)
	606.30E	TERMINAL SECTION (ALSO INCLUDE 606.00)
	606.40B	GUARD CABLE - ONE STRAND
	606.41B	GUARD CABLE - THREE STRAND (4 SHEETS) *
	607.10R	CHAIN LINK FENCE
	607.11C	CHAIN LINK FENCE FOR RETAINING WALLS

✓	NO.	DESCRIPTION
	607.20F	WOVEN WIRE FENCE (ALSO INCLUDE 607.10)
	608.00E	PAVED APPROACHES (2 SHEETS)
	608.10J	CONCRETE SIDEWALK AND CURB RAMPS (2 SHEETS)
	608.20D	CONCRETE STEPS
	609.00I	CONCRETE CURB - CURB AND GUTTER - GUTTER
	609.15C	PAVED DITCHES
	609.40H	DRAIN BASIN, SHOULDER PAVING AND FILL SLOPE AT BRIDGE ENDS (2 SHEETS)
	609.60C	ROCK DITCH LINER
✓	609.70C	ROCK LINING FOR CULVERT OUTLETS
	610.20E	BRICK MANHOLES (2 SHEETS) (ALSO INCLUDE 614.30)
	611.60L	CONCRETE SLOPE PROTECTION
	612.10L	BARRICADES
	612.20	SAND FILLED IMPACT ATTENUATORS
	613.00C	PAVEMENT REPAIR
✓	614.10S	CURB INLETS, GRATES AND BEARING PLATES
	614.11A	CURVED VANE GRATE AND FRAME
✓	614.30E	MANHOLE FRAMES AND COVERS
	615.00A	OFFICE FOR ENGINEER
✓	616.10W	TRAFFIC CONTROL DEVICES (4 SHEETS) (ALSO INCLUDE 903.01)
	617.00AB	CONCRETE TRAFFIC BARRIER (3 SHEETS)
✓	619.10B	PAVEMENT EDGE TREATMENT
✓	620.00A	PAVEMENT MARKING
	625.00	HOLE PATTERN FOR PAVEMENT SLAB STABILIZATION
✓	626.00	RUMBLE STRIPS
	702.01F	16" CONCRETE PILES (APPROVED TYPES)(2 SHEETS)
	702.02C	CAST-IN-PLACE CONCRETE PILES (APPROVED TYPES)
	703.21E	CONCRETE BOX CULVERTS, H20 LOADING (FLARED WINGS)(3 SHEETS) (INCLUDE 706.35)
	703.24F	CONCRETE BOX CULVERTS, SKEW DATA (703.30)(INCLUDE 706.35)
	703.25G	CONCRETE BOX CULVERTS, SKEW DATA (703.21) (FLARED WINGS) (3 SHEETS)(INCLUDE 706.35)
	703.30F	CONCRETE BOX CULVERTS, 4' SPANS AND LESS-ALL LOADING (INCLUDE 706.35)
	703.35C	CONCRETE BOX CULVERTS, CUTTING DETAILS (STRAIGHT WINGS)(INCLUDE 706.35)
	703.36B	CONCTRETE BOX CULVERTS, CUTTING DETAILS (FLARED WINGS)(INCLUDE 706.35)
	703.50H	CONCRETE DOUBLE BOX STRUCTURE-SQUARE (INCLUDE 706.35)
	703.51H	CONCRETE DOUBLE BOX STRUCTURE-SKEWED (INCLUDE 706.35)
	703.52D	CONCRETE DOUBLE BOX STRUCTURE-CUT SECTIONS (INCLUDE 706.35)
	703.54E	DOUBLE BOX STRUCTURE REINFORCEMENT-H20 OR HS20 LOADING (8 SHEETS)
	703.55E	CONCRETE DOUBLE BOX STRUCTURE-SQUARED (FLARED WINGS)(INCLUDE 706.35)
	703.56F	CONCRETE DOUBLE BOX STRUCTURE-SKEWED (FLARED WINGS)(INCLUDE 706.35)
	703.60C	CONCRETE BOX STRUCTURE-PIPE INLET
	703.70D	CONCRETE TRIPLE BOX STRUCTURE-SQUARE (2 SHEETS)(INCLUDE 706.35)
	703.71E	CONCRETE TRIPLE BOX STRUCTURE-SKEWED (2 SHEETS)(INCLUDE 706.35)
	703.72D	CONCRETE TRIPLE BOX STRUCTURE-SQUARE (FLARED WINGS)(2 SHEETS) (INCLUDE 706.35)
	703.73E	CONCRETE TRIPLE BOX STRUCTURE-SKEWED (FLARED WINGS)(2 SHEETS) (INCLUDE 706.35)
	703.74D	CONCRETE TRIPLE BOX STRUCTURE-CUT SECTIONS (INCLUDE 706.35)
	703.76B	CONCRETE TRIPLE BOX STRUCTURE REINFORCEMENT-H20 OR HS20 LOADING (5 SHEETS)
	706.30E	REINFORCING BAR SUPPORTS
	706.35E	BAR SUPPORTS FOR CONCRETE REINFORCEMENT
	712.40E	STEEL DAMS FOR BRIDGES (6" CHANNEL)
	725.31C	METAL CURTAIN WALL AND METAL INLETS
	726.30C	CULVERT INSTALLATION METHODS
✓	731.00T	PRECAST MANHOLES (ALSO INCLUDE 614.30)
✓	731.10N	PRECAST DROP INLETS (4 SHEETS)(ALSO INCLUDE 614.30 AND 614.10)

✓	NO.	DESCRIPTION
✓	732.00M	FLARED END SECTION (2 SHEETS)
	732.05A	BEVELED PIPE END TREATMENT
	732.10D	SAFTEY SLOPE END SECTIONS (2 SHEETS)
	806.02A	STAPLE PLACEMENT FOR PLASTIC NETTING
✓	806.10A	TEMPORARY EROSION CONTROL MEASURES (5 SHEETS)
		HIGHWAY LIGHTING
	901.00T	POLES AND APPURTENANCES-30' (2 SHEETS)
	901.01Y	POLES AND APPERTENANCES-45' (3 SHEETS)
	901.02A	CABLE, CONDUIT AND TRENCHING
	901.30C	BASE MOUNTED CONTROL STATION
	901.80B	POWER SUPPLY ASSEMBLY
		TRAFFIC SIGNALS
	902.00H	SIGNAL HEADS - LENSES- MOUNTING
	902.10L	CONTROLLERS AND CONDUIT LOCATION
	902.15G	POWER SUPPLY ASSEMBLY (2 SHEETS)
	902.20A	PULL BOXES
	902.21C	TELEPHONE INTERCONNECT
	902.30L	POST BASES (2 SHEETS)
	902.40L	TUBULAR STEEL POST (2 SHEETS)
	902.50I	DETECTORS
	902.70G	SPAN WIRE DETAILS (2 SHEETS)
	902.80C	TRAFFIC SIGNAL SYMBOLS
		HIGHWAY SIGNING
	903.01E	SPECIAL SIGNING CHARACTERS
	903.02AB	HIGHWAY SIGNING (9 SHEETS)
	903.03AR	SIGN MOUNTING DETAILS (5 SHEETS)
	903.04E	WEIGH STATION SIGNING
	903.05F	TUBULAR SPAN SUPPORT - TYPE S - ONE TUBE
	903.06F	TUBULAR SPAN SUPPORT - TYPE S - TWO TUBE
	903.07F	TUBULAR CANTILEVER SUPPORTS - TYPE C
	903.08E	TUBULAR BUTTERFLY SUPPORTS - TYPE B
	903.09D	LIGHTING SUPPORT BRACKET - SIGN LIGHTING
	903.10W	SIGN TRUSSES-OVERHEAD ALUMINUM (6 SHEETS)(INCLUDE 903.03)
	903.12R	SIGN TRUSSES-BUTTERFLY AND CANTILEVER-STEEL (5 SHEETS)(INCLUDE 903.03)
	903.60V	SIGN TRUSSES-OVERHEAD STEEL (5 SHEETS)(INCLUDE 903.03)

NOTES:

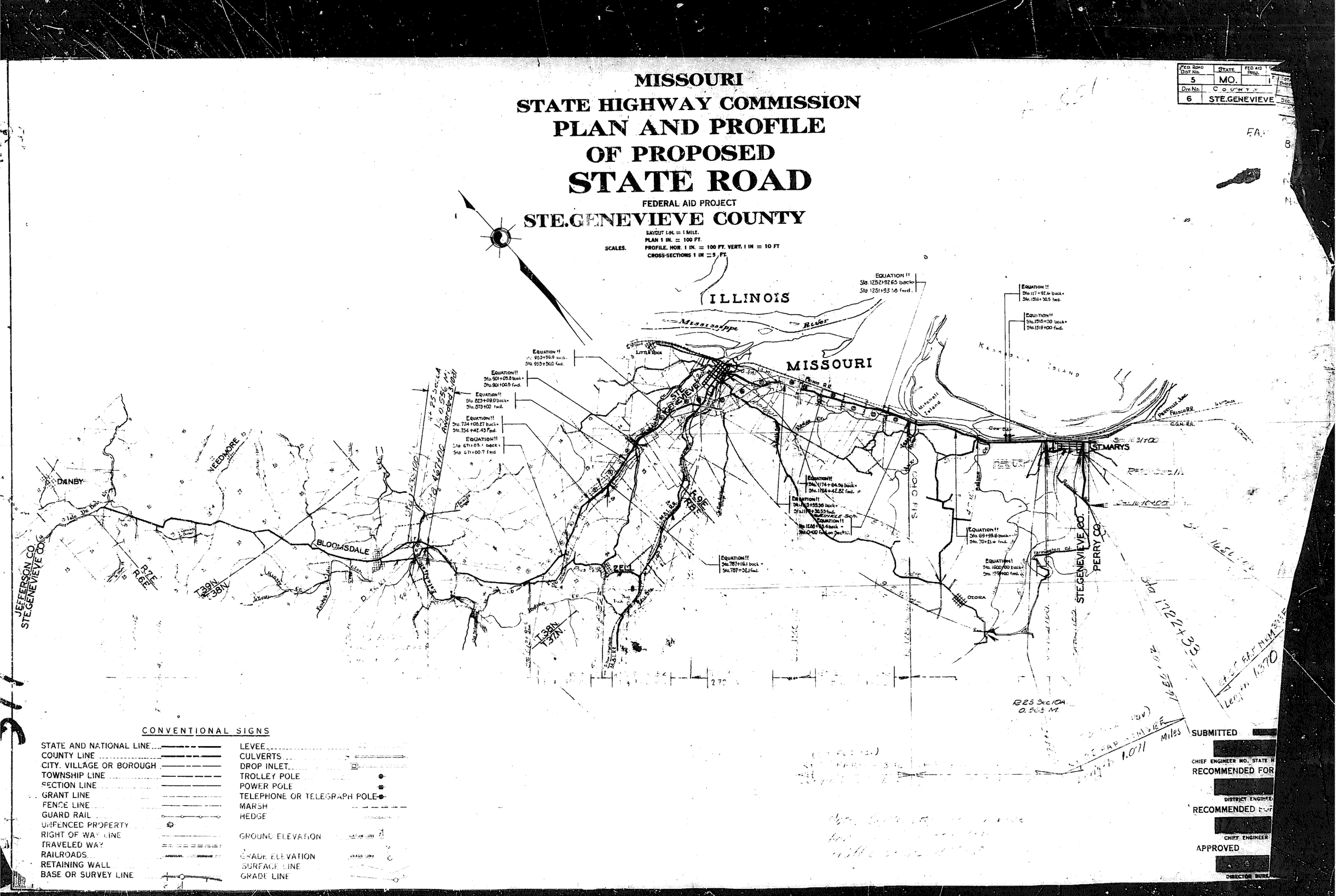
PLANS FOR THIS PROJECT WERE DEVELOPED USING DRAWINGS FROM THIS INDEX

* - REVISED -- SEE DRAWING FOR EFFECTIVE DATE

FED ROAD DIST. NO.	STATE	FED AID PROJ.
5	MO.	
DIV. NO.	COUNTY	
6	STE.GENEVIEVE	

MISSOURI
STATE HIGHWAY COMMISSION
PLAN AND PROFILE
OF PROPOSED
STATE ROAD
FEDERAL AID PROJECT
STE.GENEVIEVE COUNTY

SCALES. BAYCUT 1 IN. = 1 MILE.
PLAN 1 IN. = 100 FT.
PROFILE. HOR. 1 IN. = 100 FT. VERT. 1 IN = 10 FT
CROSS-SECTIONS 1 IN = 5 FT.



CONVENTIONAL SIGNS

STATE AND NATIONAL LINE	LEVEE
COUNTY LINE	CULVERTS
CITY, VILLAGE OR BOROUGH	DROP INLET
TOWNSHIP LINE	TROLLEY POLE
SECTION LINE	POWER POLE
GRANT LINE	TELEPHONE OR TELEGRAPH POLE
FENCE LINE	MARSH
GUARD RAIL	HEDGE
UNFENCED PROPERTY	
RIGHT OF WAY LINE	GROUND ELEVATION
TRAVELED WAY	
RAILROADS	GRADE ELEVATION
RETAINING WALL	SURFACE LINE
BASE OR SURVEY LINE	GRADE LINE

SUBMITTED

CHIEF ENGINEER NO. STATE H

RECOMMENDED FOR

DISTRICT ENGINEE

RECOMMENDED FOR

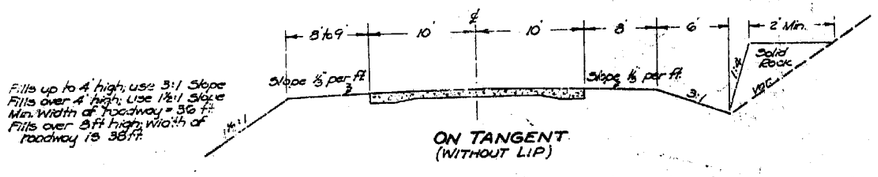
CHIEF ENGINEER

APPROVED

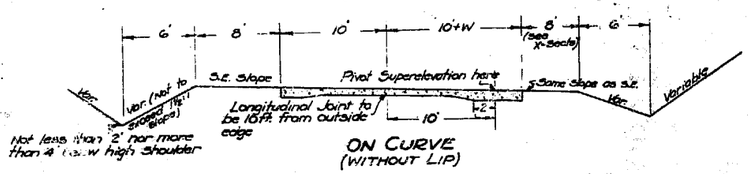
DIRECTOR BURE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.
5	MO.			1 OF 3

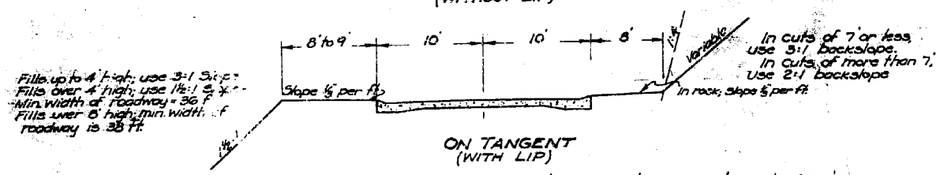
T.S. 20-36



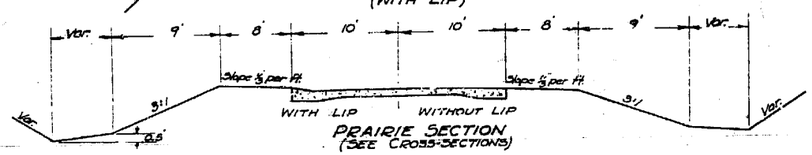
ON TANGENT
(WITHOUT LIP)



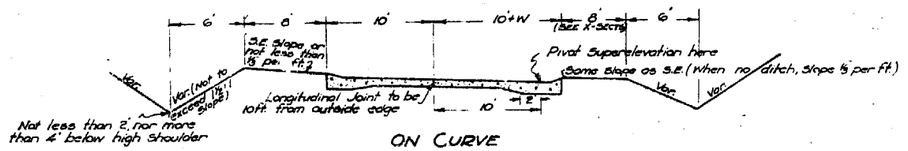
ON CURVE
(WITHOUT LIP)



ON TANGENT
(WITH LIP)

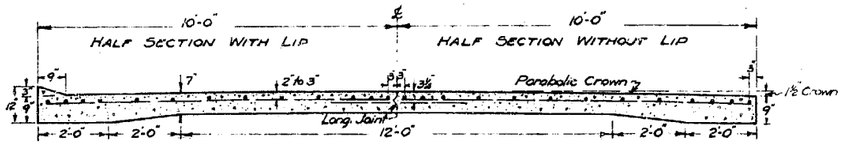


PRAIRIE SECTION
(SEE CROSS-SECTIONS)



ON CURVE
(WITH LIP)

DETAILS FOR SHOULDER WIDTHS, DITCHES, ETC.



Wire Mesh or Bar Mat Reinforcement. See T.S. 20-A for details.

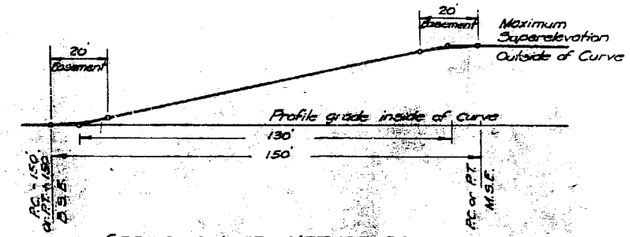
DETAILS OF TYPICAL SECTION OF 20 FT. SLAB

3/2

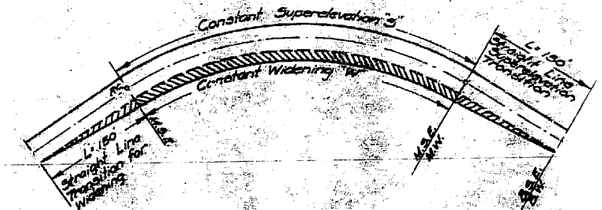
SUPERELEVATION PER FOOT OF WIDTH

$S = \frac{0.067V^2}{R}$ V = 35 M.P.H. R = RAD.

Degree	1	2	3	4	5	5°30' up
S in Ft.	0.0143	0.0286	0.0429	0.0573	0.0716	0.0833



STRAIGHT LINE METHOD OF ATTAINING SUPERELEVATION



SCHEME OF WIDENING AND SUPERELEVATION TRANSITION

Value of W for High Type Primary, Secondary and Supplementary Roads

DEGREE	0° to 5°29'	6° to 7°29'	8° to 9°29'	10° to 13°29'	14° to 17°29'	18° to 21°29'	22° to 25°29'	26° to 33°29'	34° to 45°29'	46° to 65°29'	66° up
W in Ft.	0.0	2.0	3.0	4.0	4.5	5.0	5.5	6.0	6.5		

GENERAL NOTES:-

Slab reinforcement shall be wire mesh or bar mat. For details see Sheet T.S. 20-A.

Longitudinal joint shall have deformed metal strip or premoulded bituminous strip. For details see Sheet T.S. 20-A.

Expansion joints shall be of the type specified in the Contract, Poured Rubber, Air or Premoulded Bituminous. For details of Air expansion joint see Sheet T.S. 20B. For details of other types, see Sheet T.S. 20A.

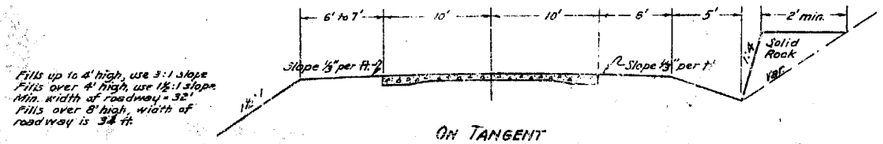
REINFORCED 20 FT PORTLAND CEMENT CONCRETE PAVEMENT 36-38 FT ROADWAY

APPROVED _____ CHIEF ENGINEER

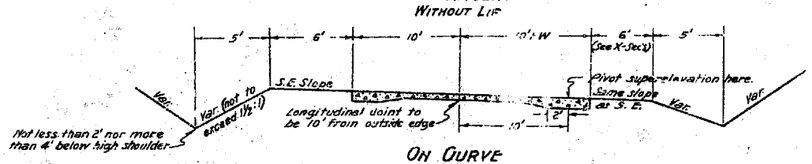
MISSOURI STATE HIGHWAY COMMISSION

Fed. Aid Proj. No.	State	Fed. Aid Proj. No.	Fiscal Year	Sheet No.	Total Sheets
-5	MO.			1 of 3	

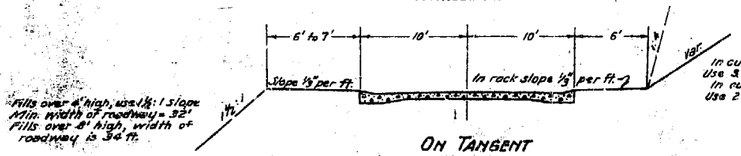
T. S. 20-30



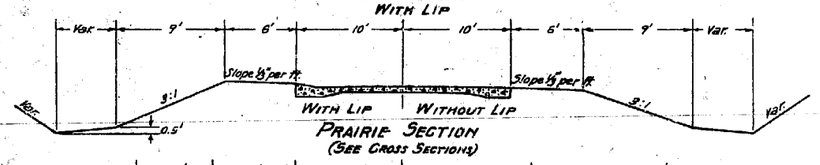
ON TANGENT
WITHOUT LIP



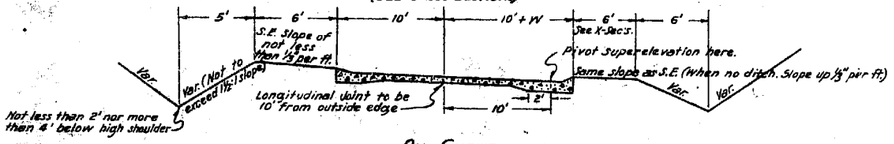
ON CURVE
WITHOUT LIP



ON TANGENT
WITH LIP

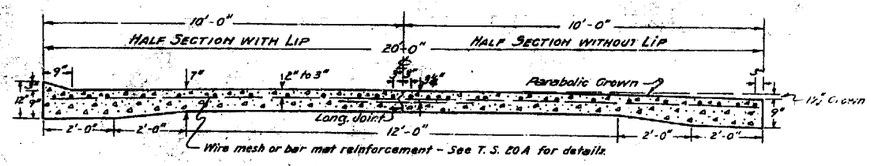


PRAIRIE SECTION
(SEE CROSS SECTIONS)



ON CURVE
WITH LIP

DETAIL FOR SHOULDER WIDTHS, DITCHES, ETC.



DETAILS OF TYPICAL SECTION OF 20 FT. SLAB

3/3

GENERAL NOTES:-

Slab reinforcement shall be wire mesh or bar mat. See Sheet T.S. 20-A for details.

Longitudinal joint shall have deformed metal strip or premoulded bituminous strip. For details See Sheet T.S. 20-A.

Expansion joints shall be of the type specified in the contract; Poured, Rubber, Air or Premoulded Bituminous.

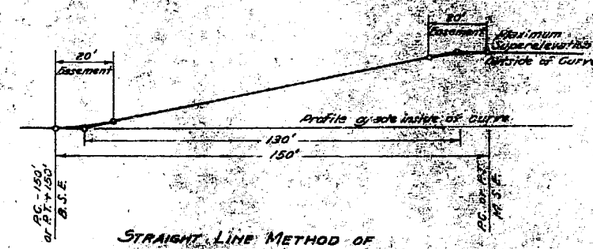
For details of Air expansion joint, See Sheet T.S. 20-B.

For details of other types, See Sheet T.S. 20-A

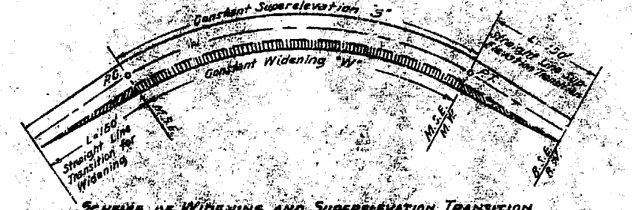
SUPERELEVATION PER FOOT OF WIDTH

$S = \frac{0.067\,V^2}{R}$ $V = 35$ M.P.H. 1° = R.AD.

DEGREE	1	2	3	4	5	5°-50' up
S. IN Ft.	0.0143	0.0286	0.0.429	0.0573	0.0.716	0.0833



STRAIGHT LINE METHOD OF ATTAINING SUPERELEVATION



SCHEME OF WIDENING AND SUPERELEVATION TRANSITION

VALUE OF W FOR HIGH TYPE PRIMARY, SECONDARY & SUPPLEMENTARY ROADS

DEGREE	0°to3°59'	4°to5°59'	6°to7°59'	8°to9°59'	10°to11°59'	12°to13°59'	14°to15°59'	16°to17°59'	18°to19°59'	19°30'
W. IN Ft.	0.0	1.0	3.0	4.0	4.5	5.0	5.5	6.0	6.5	

REINFORCED 20 FT. PORTLAND CEMENT CONCRETE PAVEMENT
32-34 FT. ROADWAY

APPROVED _____ CHIEF ENGINEER

MISSOURI STATE HIGHWAY COMMISSION

Name of Road STE. GENEVIEVE TO PERRYVILLE

Type of Improvement 20 FT R.C.C. PAVEMENT (WITH LIP)

MISSOURI STATE HIGHWAY COMMISSION

ESTIMATE SHEET

County of STE GENEVIEVE

Length 2.702 Miles

F.A. 11 2.647

FED. ROAD DIST. No.	STATE	FED. AID PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
5	MO.	S-[illegible]		2A	54
DIV. No.	COUNTY			MONTH	REC. No.
6	STE GENEVIEVE			25	

EXCAVATION

Station	Excav.	Ft. No. Mass Haul Rock	Ft. Mass Haul Rock	O.H.		
997+66						
1002+80	439	6				
1009+41	353	9				
		BRIDGE EXCEPTION				
1011+34						
1049+00	3280	38		3777		
1055+50	535	15				
1062+50	794	13				
1064+79	231	2				
1079+48	772	10		75		
1079+22	407	8				
1114+09	2786	54		1961		
1139+423	1595	3	146	3516		
1140+15	40	1				
Sub Tot	11234	156	46	22029		
Rdwy Exc.	218					
TOTAL	11452	156	46	22029		

REINFORCED CONCRETE BOX CULVERTS

Station	Standard	Size	Length	Concrete	Reinf.	Excav.	Remarks
	7' SURFACE DRAIN BASINS						
	Standard Drawing						
Station	No Barrels	Size	Lin. Ft.				
1004+40	1	7'	14.5'				
1006+40	1	7'	9.5'				
1008+42	1	7'	13.0'				
1008+42	1	7'	15.5'				
1011+34	1	7'	10.1'				LIP CURB
1139+00	1	7'	6.2'				END STR.
1139+23	1	7'	3.5'				BEG. STR.
1041+90	1	7'	5.2'				APP. LENGTH
1041+90	1	7'	5.2'				CORRECTIONS
1049+00	1	7'	21.0'				NET LENGTH
1049+00	1	7'	21.0'				CHAINED LENGTH
1055+55	1	7'	7.5'				CHAINED LENGTH =
1055+55	1	7'	8.0'				ADD FOR EXTRA
1058+65	1	7'	16.6'				LIP AT INTERSECTION
1062+58	1	7'	19.8'				WIDEN AT ST 32
1077+82	1	7'	10.0'				
1088+04	1	7'	8.0'				LIP OMITTED (BOTH SIDES)
1088+60	1	7'	10.4'				
TOTAL	18		219.5'				No. DE Barrels x Size x 20
See Special Sheet							NET LIP OMITTED
							NET LIP OMITTED PLANS
							ADDITIONAL LIP
							USE ORIGINAL SHEET

RELAID PIPE

Station	To	Station	Side	Lin. Ft.
1003+42	1/2	1009+42	Lt.	42'
1009+42	1/2	1009+42	Rt.	29
			Total	73'

BARRICADES

Station	Side	No
997+66	Lt.	1
1024+95	Lt.	1
1023+25	Rt.	1
1039+25	Rt.	1
1057+00	Lt.	1
1085+00	Lt.	1
	Total	6

RE-LOCATING BARRICADES

Station	Side	To	Station	Side	No
1139+423 (Sta.)	Rt.		1035+00	Rt.	1
1167+75	Rt.		1041+00	Rt.	1
1039+25	Rt.		1039+00	Rt.	1
1023+25	Rt.		1023+00	Rt.	1
			Total		4

SIDE ROADS & FARM ENT'S.

Station	Side	Type	Elev.	
997+66	Lt.	S.E.	12'	
1018+85	Lt.	F.E.	53'	
1029+10	Rt.	Type of Farm Ent.	23'	
1087+60	Lt.	Type of Farm Ent.	23'	
1105+40	Rt.	F.E.	21'	
1111+30	Rt.	F.E.	21'	
		Total	121'	

GRAVEL SURFACING (FARM ENT'S)

Station	Side	Width
1018+85	Lt.	8'
1029+10	Lt.	15.00
1028+00	Lt.	5.00
1085+00	Lt.	5.00
1086+85	Lt.	5.00
1087+53	Lt.	12.00
1035+85	Rt.	12.00
1087+40	Lt.	15.00
1088+85	Lt.	8.00
1092+85	Rt.	5.00
1095+10	Rt.	5.00
1088+90	Lt.	5.00
1099+00	Lt.	5.00
1106+40	Rt.	5.00
1111+80	Rt.	14.00
1084+50	Rt.	5.00
Total		112.00

EXPANSION JOINTS - SPACED 79' 4"

CHAINED LENGTH OF PAVEMENT = 13978.4' Lin. Ft.

13978.4 ÷ 79.3333 = 176 Tot. No. of Joints

BRIDGES 2

INTERSECTION 4

TOTAL 182

ACTUAL No. OF EXPANSION JOINTS = 186.0

EXTRA JOINTS AT INTERSECTION WITH RT 32 = 6.1

TOTAL = 192.1

LENGTH OF PROJECT

End of Project			Station	1140+15
Beginning of Project			Station	997+66
Apparent Length				14249.0 Feet
Equations and Exceptions:				
1072+13 Bk = 1072+01.5 Fwd.				+ 11.6
1103+30.4 Bk = 1103+22.3 Fwd.				+ 6.1
Total Corrections:				+ 17.7 Feet
Net Length of Project				Feet
		Feet ÷ 5280 =		14266.7 Miles

LIP CURB

End Sta.	1140+15	
Beg. Sta.	997+66	
App. Length	142.49.0	
Corrections	-271.9	
Net Length	13977.1	
Chained Length	13978.4	
Chained Length =	27956.8	
Add for Extra		
Lip at Intersection		
Widen at St 32	706.6	
	14,425.1	
	- 360.0	
	15,518.3	
	1,669.0	
	158.15.3	
	3.0'	

* EQUATIONS & CORRECTIONS

Sta. 1072+13.1 Bk = 1072+01.5 Fwd.	+ 11.6'	
Sta. 1103+30.4 Bk = 1103+22.3 Fwd.	+ 6.1	
Bridge Omission	1006+20	-107.6
Bridge Omission	1009+49	-182.0
Total Corrections		-271.9

* LIP CURB OMISSIONS

Station	Station	Side	Lin. Ft.
1022+27.7	1023+75.3	Rt.	148.6
1033+33.7	1035+62.7	Rt.	229.0
1033+50.4	1035+42	Lt.	191.6
1036+61	1037+11.7	Lt.	50.7
1046+35	1048+35	Rt.	782.0
1048+35	1049+35	Lt.	788.0
1088+20	1140+15	Rt.	5201.1
1088+20	1140+15	Lt.	5201.1
		Total	12,489.1

CHAINED LENGTH OF PVT. & 20-/9 =

(13978.4 x 20) ÷ 9 = 31063.1 Cu. Yds.

WIDENING AT INTERSECTION WITH RT. 32 = 1018.3

TOTAL = 32081.4

F.M. Jones Jr.

142.66.7 - Br. 29.4

2.89.6

139.77.1

REMOVING F.ENT. PIPE CULVERTS

Station	Side	Lin. Ft.	Remarks
1088+00	Lt.	20	15" C.M.P.
1088+40	Rt.	20	15" C.M.P.
	Total	40	

GRINDING DOWN HIGH JOINT AT BRIDGE STA 1011+80

Lump Sum $12.00

REMOVING SMALL AMOUNTS OF CONCRETE

Station	Location	Amount
1006+10	Rt. Ft. at Joint	1 Cu. Yd.
1006+30	Rt. Ft. at Joint	1 "
1008+15	Rt. Abut. 15' Lt. of Sta.	1 "
1088+35	Rt. Wing, 2' Lt. of Ex. Box	1 "
		4 Cu. Yds.

REMOVING & RELAYING F.E. PIPES (FARM ENT'S)

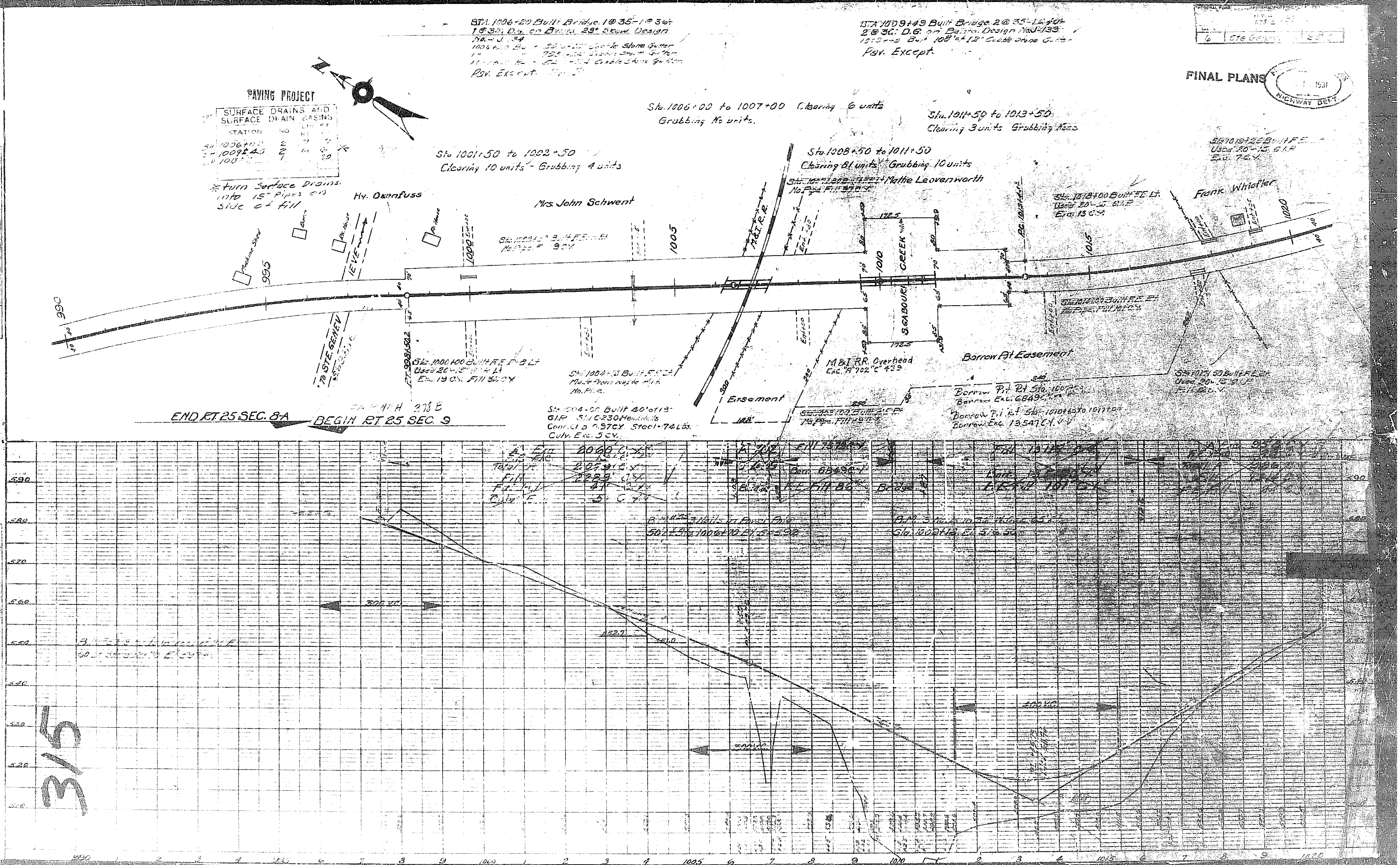
Station	Side	Length	Amount
1008+00	Lt.	20'	$12.00
1090+20	Rt.	20'	12.00
1088+10	Lt.	20'	12.00
1088+00	Rt.	20'	12.00
1086+40	Rt.	20'	12.00
1104+60	Rt.	5'	1.42
		125'	$61.42

DRAINAGE FOR LOW PLACES IN PAVEMENT AT LOWER END OF GRADE

Station	Location	Amount
1006+10	Rt. Ft. at Joint	1 Sq. Yd.
1006+30	Rt. Ft. at Joint	1 "
1008+15	Rt. Abut. 15' Lt. of Sta.	1 "
1088+35	Rt. Wing, 2' Lt. of Ex. Box	1 "
		4 Sq. Yds.

SUMMARY

Item No.	Description	Unit	Total Units	No. Units Per Mile Only
1	EXCAVATION	CU. YD	11432.2	
15-A	P.C.C. PAVEMENT	SQ. YD	32081.4	
15	EXPANSION JOINTS (20')	EACH	192.1	
30F	7' SURFACE DRAIN BASINS	EACH	18	
30G	SURFACE DRAINS	LIN. FT.	219.9	
32A	BARRICADES	EACH	6	
32B	RELOCATING BARRICADES	EACH	4	
	CONTINGENT ITEMS			
	RELAID PIPE	LIN. FT.	73	
	LIP CURB OVERRUN	LIN. FT.	[illegible]	P.O.
	REMOVING 15" C.M.P. CULVERTS (RE)	LIN. FT.	40	
	PICK UP ROCK (½ MI. HAUL)	CU. YD	156	
	PICK UP ROCK (2 MI. HAUL)	CU. YD	46	
	DEDUCTION FOR LOW PLACES ON PVT.	SQ. YD	4	
EQU 11	GRINDING DOWN HIGH JOINT AT BRIDGE STA 1011+80	LUMP SUM	$12.00	
	REMOVING F.ENT. PIPE CULVERTS & GRAVEL SURFACING F.ENTS & ROAD	LUMP SUM	$73.42	
	OVERHAUL	STD. YD	22029	



Ste Genev
FINAL PLANS
HIGHWAY DEPT.
1931
STA. 1006+20 Built Bridge. 1@35-1@36+1@30; D.G. on Beams 23° Skew Design No.-J.34
Psv. Except
STA 1009+49 Built Bridge 2@35-1@40+2@30; D.G. on Beams. Design No.J-133
Psv. Except
PAVING PROJECT
SURFACE DRAINS AND SURFACE DRAIN BASINS
STATION
NO
*turn Surface Drains into 15" Pipes on side of fill
Sta. 1006+00 to 1007+00 Clearing 6 units Grubbing No units.
Sta. 1011+50 to 1013+50 Clearing 3 units Grubbing None
Sta 1001+50 to 1002+50 Clearing 10 units - Grubbing 4 units
Sta. 1008+50 to 1011+50 Clearing 81 units Grubbing 10 units
Mattie Leavenworth
Hy. Oxenfuss
Mrs. John Schwent
Frank Whistler
Machine Shed
Barn
995
1000
1005
1010
1015
1020
990
M.&I. R.R.
CREEK
S.GABOURI
TO STE. GENEV
M&I RR. Overhead
Borrow Pit Easement
Easement
Sta. 1004+00 Built 40' of 18" G.I.P. Std. C-230 Headwalls Conc. Cl. B 0.97 C.Y. Steel - 74 Lbs. Culv. Exc. 5 C.Y.
Sta. 1004+13 Built F.E. Made from waste No. Pipe.
Sta. 1000+00 Built F.E.
Borrow Pit Rt Sta.
Borrow Exc. 6849
Borrow Exc. 13,547 C.Y.
END RT. 25 SEC. 8-A
BEGIN RT. 25 SEC. 9
590
580
570
560
550
540
530
520
510
300 V.C.
552.7
51.0

FINAL PLANS

PI 1026+00
Δ 47° 23' Lt
D 2°
L 2364.1
T. 1259.1
R 2864.9

Sta. 1034+50 to 1035+50
Clearing 19 units Grubbing 19 units

Frank Whitaker

H.L. Rozier

E.B Vessel

Sta 1039+34 Built 30ft C-4 7.6 to
Sta 5°1' Skew
Zone C-4 Sta 1039+34 Const. 2862

RT. 25 Sta 1039+50 Built R.E. on C-4
Used 40 units
At Contract

Sta 1049+50 to 1050+00
Clearing 3 units Grubbing 1 unit

S81°29E

Rd. Approach at Inter. from RT. 25 & RT 32
A" Exc. 476 C.Y.
" " 41 C.Y.
Fill 1000 C.Y.

Sta 1033+00 Built Std. C-24.2
2x18x53' Conc. Culv. 11.03 C.Y.
Steel 1712 Lbs. Culv. Exc. 42 C.Y.

PAVING PROJECT

7" SURFACE DRAINS
SURFACE DRAIN BASIN

STATION	NO	LIN RT
SH. 1031+53	1	
SH. 1033+42	1	
SH. 1041+00	2	
1042+30	2	

Rd Slope A Exc 476 C.Y.
Fill 1430 C.Y.
Rd Slope B Exc 78 C.Y.
Fill 1000 C.Y.
Rd App Fill 2000 C.Y.

A Exc 342 C.Y.
Fill 2400 C.Y.

A Exc 1955
Fill 1661

Cubic Contents
Exc A 2652 C.Y.
Fill A 1661 C.Y.
Exc B 342 C.Y.
Fill B 2400 C.Y.

Sheet Zip

2000 Yds.

1150

5/10

R.O.W. Markers	6

6	Sta Genesee	25	3		

FINAL PLANS

Sta. 1067+00 to 1069+50
Clearing 12 units Grubbing 2 units.

Sta. 1077+50 to 1082+50
Clearing 42 units Grubbing 38 units

Joe Gissi

J.O. Dunham

E.L. Vessel

Mrs. J. Huffman

1050 1055 1060 1065 1070 1075 1080

S 81°-29' E

Sta. 1072+00 Built F.E. & L.E.
No. Pipe. Exc. 29 C.Y.

Sta. 1055+54 Built Std. C-242
2-15"x39" C.S.C. Culv. Ex. 3 C.Y.
Conc. in B 7.90 C.Y. Steel 12.54

Sta. 1077+93 Built Std. C-233
5'x3.68' 30° Skew C.I. Inl. Ex. 5.7 C.Y.
Conc. in F 3.0, 2.7 C.Y. Steel 33.48

Sta. 1077+69 Built Std. C-242
2'x1.34' 70° Skew Culv. Ex. 10 C.Y.
Conc. in B 1.30 C.Y. Steel 20.28
Outlet Ex. 4.8 C.Y.

Equation P.C. 1072+50 = P.C. 1072+50

P.I. 1078+08.3
Δ 18°03' Rt.
D 2° 30'
T 606.8
L 1200

PAVING PROJECT

7' SURFACE DRAINS AND SURFACE DRAIN BASINS

STATION	NO	LIN FT RT	LT
S.A. 1053+54	2	7	8
L.P. 1068+05	2	41	25
L.P. 1076+	1	5	

300 V.C.

500 V.C.

1956 1980

5/7

Sta 1083+50 to 1085+00
Clearing 9 units Grubbing 9 units

Sta 1086+50 to 1087+50
Clearing 2 units Grubbing 2 units

Sta 1088+00 to 1088+50
Clearing 1 unit Grubbing None

Sta 1089+50 to 1090+00
Clearing 1 unit Grubbing None

Sta 1095+00 to 1098+00
Clearing 24 units Grubbing 10 units

Sta 1108+50 to 1121+00
Clearing 20 units Grubbing 13 units

FINAL PLANS

Built 3 R Lt Used
with 230 Hdwls
Steel No Quants

Sta 1089+35 Built F.E. Rt
Used 20 - 15" C.M.P.
No Quantities

Sta 1095+10 Built F.E. Rt & Lt Used
No Quantities

Sta 1095+07 Built Std. U-27S
Steel 13190 Lbs.
Conc C/B 152.8 C.Y. Culv. Exc. 690 C.Y.
Channel Change Exc. 2679 C.Y.

Sta 1099+19 Built F.E. Lt
Used 20 - 12" C.M.P.
Fill 9 C.Y.

Sta 1099+19 Built F.E. Rt
Used 20 - 12" C.M.P.
Fill 152 C.Y.

Sta 1105+50 Built F.E. Rt & Lt
Used 40 - 15" C.M.P.
No Quantities

Sta 1109+30 Built F.E. Rt & Lt
No Pipe No Quantities

P.I. 1109+62.11
Δ 36° 56' Rt
D 3°
T 637.86
L 1231.11
R 1910.08

Borrow Pit Lt Sta 1096+00 to 1098+00
Borrow Exc. 1475 C.Y.

Sta 1083+35 Built F.E. Rt
Used 20 - 15" C.M.P.
Fill 17 C.Y.

PAVING PROJECT
SURFACE DRAIN
SURFACE DRAIN

Sta 1089+50 Built F.E. Rt & Lt
Used 80 - 15" C.M.P.
Fill 17 C.Y.

PAVING PROJECT
Omit Lip

J.D. Donovan
John Mesic
Frank Basler
Ben Wilson
County Road
Jim Tedersmeit
Chas. Crither
Chas. Schweiss
Sam Schweiss
Catholic Church

P.I. 1083+04.8
P.C. 1103+30.1 Bk =
P.C. 1103+24.25 Ahd.

S63° 26E

A Exc 1355 C.Y.
B Exc 1325 C.Y.
Fill 1585 C.Y.
Sewer Exc. 41 C.Y.

A Exc 529 C.Y.
Channel Change 2679 C.Y.
Form 1/3 3208 C.Y.
Fill 1223 C.Y.
F.E. Fill 11 C.Y.
Borrow 1475 C.Y.
Conc. Exc. 69 C.Y.

A Exc 893 C.Y.
B Exc 102 C.Y.
Fill 1686 C.Y.
F.E. Fill 24 C.Y.

B.M.

520 510 500 490 480 470 460

1080 1085 1090 1095 1100 1105 1110

6 | Ste Genevieve 25 | 9

R.O.W. Markers | 28

FINAL PLANS

Sta. 1121+00 to 1126+00
Clearing 13 units Grubbing 10 units

Sta. 1126+50 to 1138+00
Clearing 36 units Grubbing 6 units

Sta. 1138+50 to 1140+15
Clearing 8 units Grubbing 2 units

Sta. 1139+45 Bu. 14" F.E. Lt.
No Pipe No Quantities

Antoine Steiger

Herman Kroenzlie

Henry Gissi

Mr. Joe Hoffman

Levi Rebsou

Ben Rattler

Hy. Rozier

Ferrea Laclede

S26°-30E

1110 | 1115 | 1120 | 1125 | 1130 | 1135 | 1140

Sta. 1111+50 Built F.E. Lt.
Culv. 22" 1.5 S.L.P. No Quantities

Equation P.T. 1115+53.54 = P.T. 1115+30.53 Ahead

Mrs. Joe Hoffman

Sta. 1116+00 Built Std. C-242
2x1.5x40 Culv. Exc. 19 C.Y.
Conc. Cl "B" 7.9 C.Y. Steel-164 #

Borrow Sta. 1113+50 to 1116+00
Borrow Exc. "A" 744 C.Y. "B" 149 C.Y.

Louis Zeigler

Sta. 1123+00 Built Std. C-242
2x1.5x35' Culv. Exc. 22 C.Y.
Conc. Cl "B" 7.0 C.Y. Steel-1120 Lbs.
Outlet Exc. 18 C.Y.
Channel Change Exc. 592 C.Y.

Sta. 1120+47 Built Std C-242
2x1.5x36' Culv. Exc. 20 C.Y.
Conc. Cl "B" 7.25 C.Y. Steel-1144 Lbs.

Sta. 1122+53 Reset 29 of 14 G.I. Pipe. Rem. Exc. 4 C.Y.

Sta. 1128+00 Built Std. C-242
2x1.5x35' Conc. Cl "B" 7.08 C.Y.
Steel-1120 Culv. Exc. 31 C.Y.
Outlet Exc. 4 C.Y.

Sta. 1130+25 Built F.E. Lt.
No Pipe. Fill 14 C.Y.

Sta. 1130+45 Reset 28 of 14 G.I. Pipe. Rem. Exc. 22 C.Y.

Sta. 1134+45 Built Std. C-242
2x1.5x35' Conc. Cl "B" 7.08 C.Y.
Steel-1120 Culv. Exc. 21 C.Y.

Sta. 1139+00 Built Std. C-242
2x1.5x38' Conc. Cl "B" 7.25 C.Y.
Steel-1144 Culv. Exc. 80 C.Y.
Outlet Exc. 4 C.Y.

A Exc. 1836 C.Y.
B Exc. 49 C.Y.
Fill 2195 C.Y.
Culv. Exc. 19 C.Y.
Earth A 845 C.Y.
Earth B 195 C.Y.

A Exc. 849 C.Y.
B Exc. 64 C.Y.
C Exc. 84 C.Y.
Fill 1129 C.Y.
Culv. Exc. 20 C.Y.
Earth 99 C.Y.
Rock 17 C.Y.

Channel Change Exc. 592 C.Y.
Outlet Exc. 18 C.Y.
Total 1820 C.Y.
B Exc. 49 C.Y.
D Exc. 1282 C.Y.
Fill 3223 C.Y.
F.E. Fill 10 C.Y.
Culv. Exc. 28 C.Y.
Earth A 128 C.Y.
Earth B 50 C.Y.
Pipe Rem. Exc. 26 C.Y.

Culv. Exc. 80 C.Y.
Earth 1100 C.Y.
Rock 1100 C.Y.
Total 2200 C.Y.
Fill 2200 C.Y.
Pipe Rem. Exc. 40 C.Y.

Omit Lip

Final Map Mar 27 '70

Sta. 1111+50 to 1140+15

N.H.N. 3788 43 55
5 — Dv. 40
6 STE GENEVIEVE Co.
FINAL PLANS

SPECIAL SHEET for CHANGE ORDER NO. 1
ROUTE 25 PROJECT N.R.H 318 B
STE. GENEVIEVE COUNTY

BARRICADES

Station	Side	No.
997+66	℄	1
1024+95	Lt.	1
1023+25	Rt.	1
1033+25	Rt.	1
1057+00	℄	1
1085+00	℄	1
TOTAL		6

RELOCATING BARRICADES

Station	Side	to Station	Side	No
1196+40 (3186)	Rt.	- 1055+00	℄	1
1167+75	Rt.	- 1099+40	℄	1
TOTAL				2

EXPANSION JOINTS

Spaced 79'-4"

CHAINED LENGTH of PAVEMENT = 13978.4 Ft.

13978.4 ÷ 79.3333 = 176 Theor. No. of Joints

BRIDGES	4
INTERSECTION	12
TOTAL	192

ACTUAL NUMBER OF EXPANSION JOINTS - 186

EXTRA for ADDITIONAL JOINTS (See Spc. AT INTERSECTION WITH RT. 32) Sheet 6.1

TOTAL 192.1

7' SURFACE DRAIN BASINS AND SURFACE DRAINS

Station	No. Basins	Side	Lin. Ft.
*1006+13	1	Rt.	6.5
*1006+[illegible]10	1	Lt.	13.0
*1009+42	1	Rt.	13.0
*1009+42	1	Lt.	13.1
1019+21	1	Lt.	16.1
1019+00	1	Lt.	6.2
1033+32	1	Lt.	3.5
1041+90	1	Rt.	3.4
1042+00	1	Lt.	5.2
1029+30	1	Rt.	21.0
1029+30	1	Lt.	21.0
1053+15	1	Rt.	7.5
1053+15	1	Lt.	8.0
1065+05	1	Lt.	16.6
1065+05	1	Rt.	19.8
1077+82	1	Rt.	10.0
1088+00	1	Rt.	8.0
1088+00	1	Lt.	10.0
TOTAL	18		219.9

* DRAIN BASINS VARIED FROM STD. 7' BASIN TO FIT FIELD CONDITIONS. PAYMENT ALLOWED FOR STD. 7' BASIN. ALL BASINS WERE SHORTENED

RELAID PIPE

Station	to Station	Side	Lin. Ft.	Size	Remarks
1009+42	- 1003+42	Lt.	44	30" C.I.P.	Half Pipe
1009+42	- 1009+42	Rt.	29	30" C.I.P.	Used as gutter
TOTAL			73		

LIP CURB

ORIGINAL PLANS		FINAL PLANS	
END STA. 1140+15		END STA. 1140+15	
BEG. STA. 997+66		BEG. STA. 997+66	
APP. LENGTH	14249.0 Ft.	APP. LENGTH	-14249.0 Ft.
CORRECTIONS	-251.07 Ft.	CORRECTIONS	-271.9
NET LENGTH	13997.93 Ft.	NET LENGTH	13977.1
		CHAINED LENGTH	13978.4
NET LENGTH x 2 = 13997.93 x 2 = 27995.86		CHAINED LENGTH x 2 = 13978.4 x 2 = 27956.8	
Add for Extra Lip at Intersection with Rt. 32	37.44	Add for extra Lip at Intersection with Rt. 32	706.6
Lip Omitted (both Sides)	11858.00	Lip Omitted (both Sides)	12472.9
No. Dr. Basins x 20 - 18 x 20 =	360.0	No. Dr. Basins x 20 = 18 x 20	360.0
NET LIP per PLANS =	15815.30	NET LIP BUILT	15830.5

OMISSIONS

Sta. to Sta.	Side	Lin. Ft.
1042+12 - 1049+38	Rt.	726
1042+12 - 1049+38	Lt.	726
1088+12 - 1140+15	Rt.	5203
1088+12 - 1140+15	Lt.	5203
TOTAL OMISSION -		11858

OMISSIONS

Sta. to Sta.	Side	Lin. Ft.
1022+[illegible]70 - 1023+153	Rt.	147.6
1033+33.7 - 1035+62.7	Rt.	229.0
1033+50.2 - 1035+42	Lt.	191.6
1036+61 - 1037+11.7	Lt.	50.7
1041+03 - 1049+35	Rt.	732
1041+09 - 1049+35	Lt.	732
1088+20 - 1140+15	Rt.	5195
1088+20 - 1140+15	Lt.	5195
TOTAL		12472.9

EQUATIONS & CORRECTIONS

Sta. 1072+08 Bk = 1072+01.4 Fwd.	+6.90
Sta. 1103+30.1 Bk = 1103+23.5 Fwd.	+6.45
Sta. 1115+55 Bk = 1115+30.3 Fwd.	+24.83
Bridge Sta. 1006+20	- 107.75
Bridge Sta. 1009+49	- 181.50
TOTAL CORRECTIONS =	-251.07 Ft.

EQUATIONS & CORRECTIONS

Sta. 1072+13.1 Bk = 1072+01.5 Fwd.	+ 11.6
Sta. 1103+30.4 Bk = 1103+24.3 Fwd.	+ 6.1
Bridge Sta. 1006+20	- 107.6
Bridge Sta. 1009+49	-182.0
TOTAL CORRECTIONS	-271.9

NET LIP PER ORIGINAL PLANS - NET LIP BUILT = +15.2 Lin Ft. Additional

20' P.C.C. PAVEMENT

CHAINED LENGTH of PAVEMENT x 20 ÷ 9 = (13978.4 x 20) ÷ 9 = 31063.1 Sq. Yds.

WIDENING at INTERSECTION WITH ROUTE J 1018.3

32081.4 Sq. Yds.

020

F.A.P. Route No.	State	Fed. Aid Project No.	Fiscal Year	Sheet No.	Total Sheets
5	Mo.	FAP 378 B		44	53
Div. No.	County				
6	Ste. Genevieve			25	

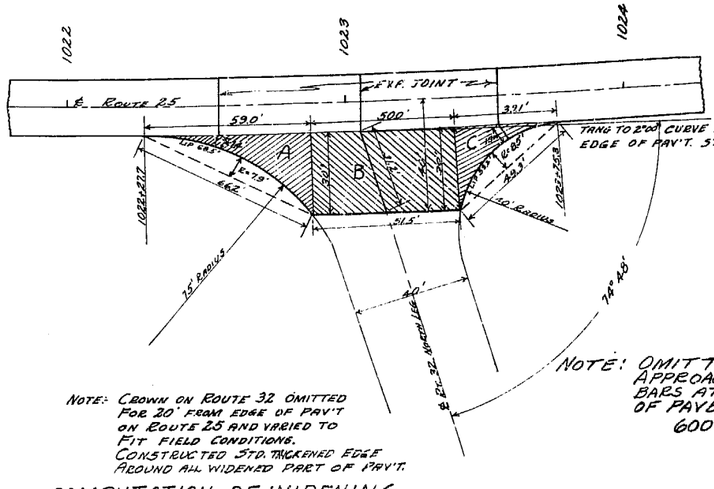
INTERSECTION ROUTE 25 AND ROUTE 32

STE. GENEVIEVE COUNTY

PROJECT 378 B

LEG No. 1

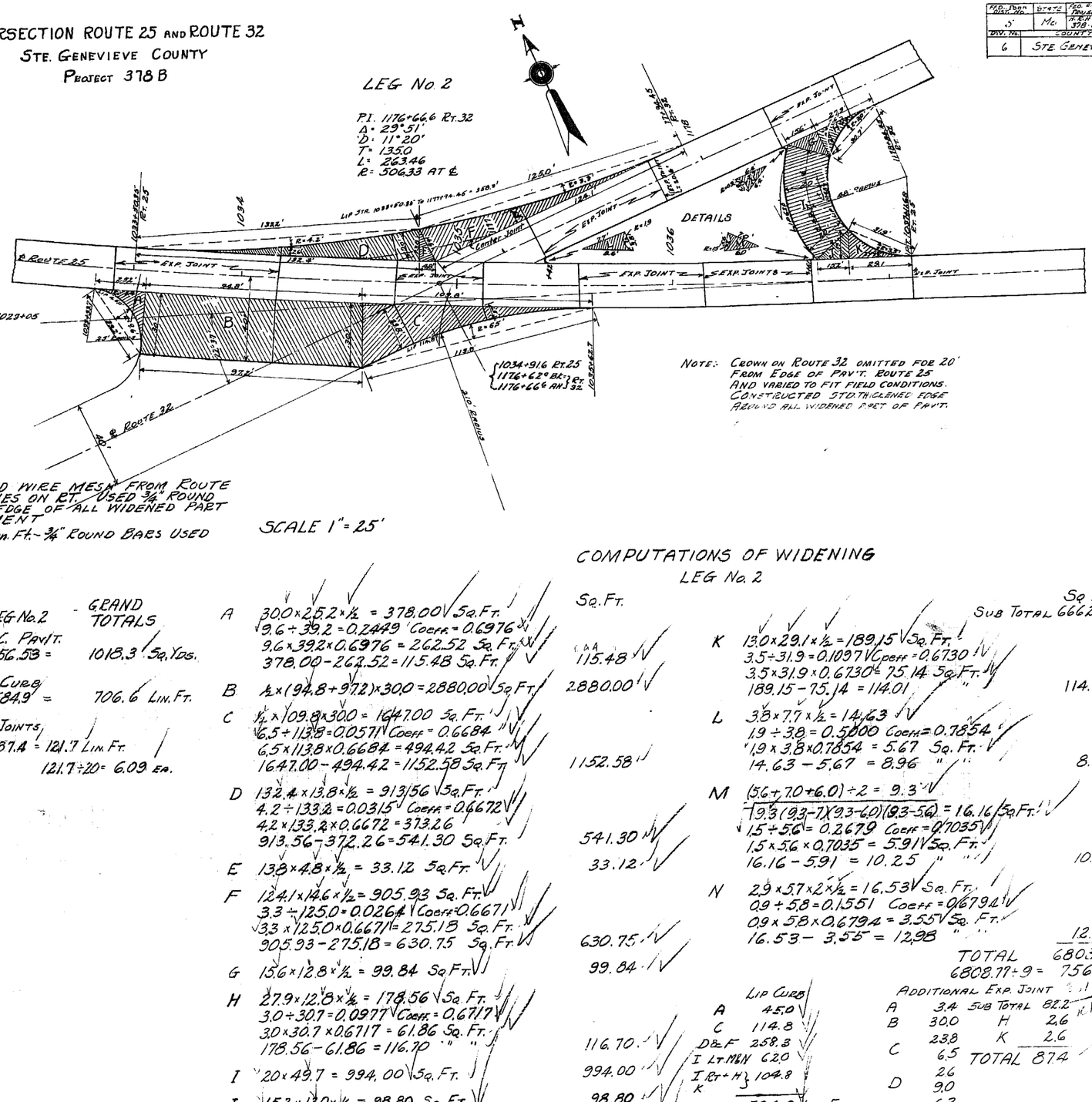
P.I. 1026+00
Δ = 47°22' LT.
D = 2°00'
L = 2368.33'



NOTE: CROWN ON ROUTE 32 OMITTED FOR 20' FROM EDGE OF PAV'T ON ROUTE 25 AND VARIED TO FIT FIELD CONDITIONS. CONSTRUCTED STD. THICKENED EDGE AROUND ALL WIDENED PART OF PAV'T.

LEG No. 2

P.I. 1176+66.6 Rt. 32
Δ = 29°51'
D = 11°20'
T = 135.0
L = 263.46
R = 506.33 AT ℄



NOTE: CROWN ON ROUTE 32 OMITTED FOR 20' FROM EDGE OF PAV'T. ROUTE 25 AND VARIED TO FIT FIELD CONDITIONS. CONSTRUCTED STD. THICKENED EDGE AROUND ALL WIDENED PART OF PAV'T.

NOTE: OMITTED WIRE MESH FROM ROUTE APPROACHES ON RT. USED ¾" ROUND BARS AT EDGE OF ALL WIDENED PART OF PAVEMENT
600 Lin. Ft. - ¾" Round Bars Used

SCALE 1" = 25'

COMPUTATION OF WIDENING
LEG No. 1

		Sq. Ft.	
A	½ × 59.0 × 30.0 = 885 Sq. Ft.		
	7.9 ÷ 66.2 = 0.1193 Coeff = 0.6742		
	7.9 × 66.2 × 0.6742 = 352.59 Sq. Ft.		
	885.00 − 352.59 = 532.41	532.41	
B	½ × (50.0 + 51.5) × 30.0 = 1522.50	1522.50	
C	30.0 × 39.1 × ½ = 586.50		
	8.5 ÷ 49.8 = 0.1724 Coeff = 0.6822		
	8.5 × 49.3 × 0.6822 = 285.88 Sq. Ft.		
	586.50 − 285.88 = 300.62	300.62	
	TOTAL	2355.53	Sq. Ft.

2355.53 ÷ 9 = 261.73 Sq. Yds.

	Lip Curb	Additional Exp. Joint
A	68.5 Ft.	1.4 Ft.
B	−	31.2 "
C	53.2 "	1.7 "
Totals	121.7 Lin. Ft.	34.3 Lin. Ft.

Leg No. 1 + Leg No. 2	Grand Totals
P.C.C. Pav't. 261.73 + 756.53 =	1018.3 Sq. Yds.
Lip Curb 121.7 + 584.9 =	706.6 Lin. Ft.
Exp. Joints 34.3 + 87.4 = 121.7 Lin. Ft.	
121.7 ÷ 20 = 6.09 ea.	

COMPUTATIONS OF WIDENING
LEG No. 2

		Sq. Ft.	
A	30.0 × 25.2 × ½ = 378.00 Sq. Ft.		
	9.6 ÷ 39.2 = 0.2449 Coeff = 0.6976		
	9.6 × 39.2 × 0.6976 = 262.52 Sq. Ft.		
	378.00 − 262.52 = 115.48 Sq. Ft.	115.48	
B	½ × (94.8 + 97.2) × 30.0 = 2880.00 Sq. Ft.	2880.00	
C	½ × 109.8 × 30.0 = 1647.00 Sq. Ft.		
	6.5 ÷ 113.8 = 0.0571 Coeff = 0.6684		
	6.5 × 113.8 × 0.6684 = 494.42 Sq. Ft.		
	1647.00 − 494.42 = 1152.58 Sq. Ft.	1152.58	
D	132.4 × 13.8 × ½ = 913.56 Sq. Ft.		
	4.2 ÷ 133.2 = 0.0315 Coeff = 0.6672		
	4.2 × 133.2 × 0.6672 = 373.26		
	913.56 − 372.26 = 541.30 Sq. Ft.	541.30	
E	13.8 × 4.8 × ½ = 33.12 Sq. Ft.	33.12	
F	124.1 × 14.6 × ½ = 905.93 Sq. Ft.		
	3.3 ÷ 125.0 = 0.0264 Coeff = 0.6671		
	3.3 × 125.0 × 0.6671 = 275.18 Sq. Ft.		
	905.93 − 275.18 = 630.75 Sq. Ft.	630.75	
G	15.6 × 12.8 × ½ = 99.84 Sq. Ft.	99.84	
H	27.9 × 12.8 × ½ = 178.56 Sq. Ft.		
	3.0 ÷ 30.7 = 0.0977 Coeff = 0.6717		
	3.0 × 30.7 × 0.6717 = 61.86 Sq. Ft.		
	178.56 − 61.86 = 116.70 " "	116.70	
I	20 × 49.7 = 994.00 Sq. Ft.	994.00	
J	15.2 × 13.0 × ½ = 98.80 Sq. Ft.	98.80	
	Sub Total	6662.57	

		Sq. Ft.	
	Sub Total	6662.57	
K	13.0 × 29.1 × ½ = 189.15 Sq. Ft.		
	3.5 ÷ 31.9 = 0.1097 Coeff = 0.6730		
	3.5 × 31.9 × 0.6730 = 75.14 Sq. Ft.		
	189.15 − 75.14 = 114.01 "	114.01	
L	3.8 × 7.7 × ½ = 14.63		
	1.9 ÷ 3.8 = 0.5000 Coeff = 0.7854		
	1.9 × 3.8 × 0.7854 = 5.67 Sq. Ft.		
	14.63 − 5.67 = 8.96 "	8.96	
M	(5.6 + 7.0 + 6.0) ÷ 2 = 9.3		
	√[9.3(9.3−7)(9.3−6.0)(9.3−5.6)] = 16.16 Sq. Ft.		
	1.5 ÷ 5.6 = 0.2679 Coeff = 0.7035		
	1.5 × 5.6 × 0.7035 = 5.91 Sq. Ft.		
	16.16 − 5.91 = 10.25 "	10.25	
N	2.9 × 5.7 × 2 × ½ = 16.53 Sq. Ft.		
	0.9 ÷ 5.8 = 0.1551 Coeff = 0.6794		
	0.9 × 5.8 × 0.6794 = 3.55 Sq. Ft.		
	16.53 − 3.55 = 12.98 "	12.98	
	TOTAL	6803.77	Sq. Ft.

6808.77 ÷ 9 = 756.53 Sq. Yds.

Lip Curb	
A	45.0
C	114.8
D & F	258.3
I Lt. Main	62.0
I Rt. + H	104.8
K	
	584.9 Lin. Ft.

Additional Exp. Joint			
A	3.4	Sub Total	82.2
B	30.0	H	2.6
	23.8	K	2.6
C	6.5	TOTAL	87.4
	26		
D	9.0		
	6.3		
F	0.6		
Sub Total	82.2		

121

GENERAL NOTES

PAVING PROJECTS

ALL NOTATIONS REFERRING TO PAVING CONTRACTS ARE SHOWN BOXED AND HEADED "PAVING PROJECT," EXCEPT, WHERE RELOCATIONS OF ALIGNMENT OCCUR, AND NEW PLANS HAVE BEEN PREPARED.

DRAINAGE STRUCTURES

ALL DRAINAGE STRUCTURES PREVIOUSLY CONSTRUCTED ARE TO BE USED IN PLACE UNLESS OTHERWISE NOTED ON THE PLANS.

GRADING QUANTITIES

GRADING QUANTITIES REQUIRED TO CHANGE OLD STANDARD SUPER-ELEVATION TO THE REVISED STANDARD AND QUANTITIES FOR SUBGRADE EXCAVATION HAVE BEEN INCLUDED IN THE ESTIMATES FOR EXCAVATION.

STATE FED. AID PROJECT NO. MD NHS 3108 COUNTY 23
6 STE GEN REVD 25
95
BUREAU OF CONSTRUCTION AUG 1 1957 HIGHWAY DEPT.
322

FED ROAD DIST NO	STATE
5	MO
F.A. NO.	SHEET NO.
6	Site Geometrics 25

46

1021
1022
1023
1024
1025
1032
1033
1034
1035
1178
1179
1176
1175
1171
1170
1169

S-8 117+04.5 Rec. 35
S-13 113+00 Rec. 25

11172

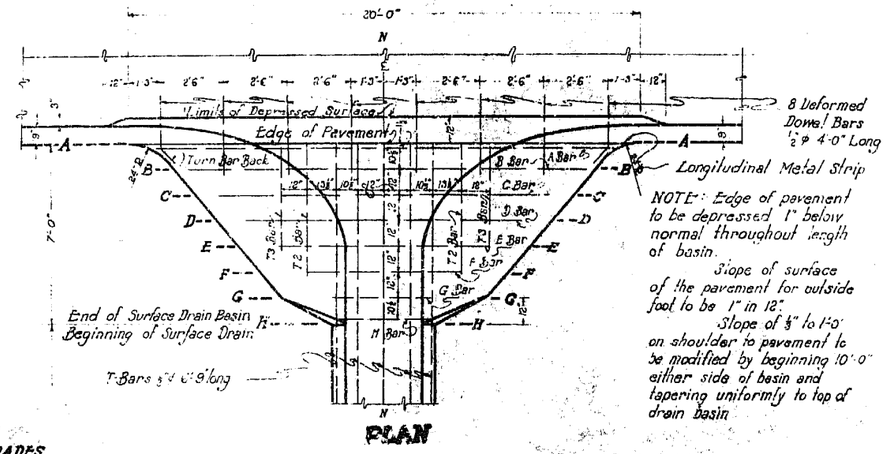
Pl. 1176+56 Rt 32
Δ 29° 00'
D 11° 20'
T 131.0
L 252.88'
& R 506.33'

Cur. Rt. Ln. Ls
PI 1156+
Δ 4°
D 2°
T 130.
L 236.
R 2864.1

Int. Angle of Rt. Ln. Rt 32
Int. Rt. Ln. Ls

20 Pave
30
Shoulder Line
R.O.W. Line
Rt. 32
Rt. 25
Sta 1034+86.0 Rt 25 =
Sta 1176+62.0 Rt 32
Sta 1176+40.47
22° 38'
124° 52'
Additional R/W = 530 Sq. Ft.

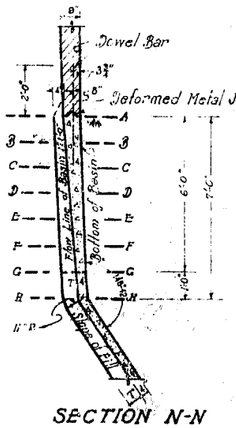
DRAIN BASIN AT BOTTOM OF GRADES



NOTE: Edge of pavement to be depressed 1" below normal throughout length of basin.

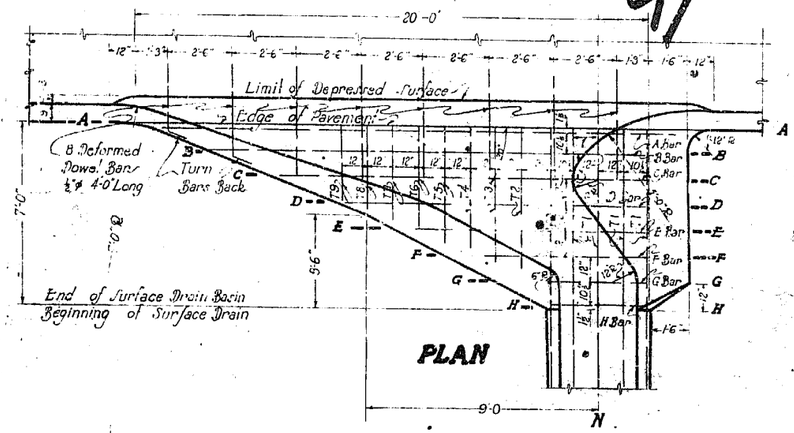
Slope of surface of the pavement for outside foot to be 1" in 12".

Slope of ¾" to 1'-0" on shoulder to pavement to be modified by beginning 10'-0" either side of basin and tapering uniformly to top of drain basin



DRAIN BASIN ON GRADES

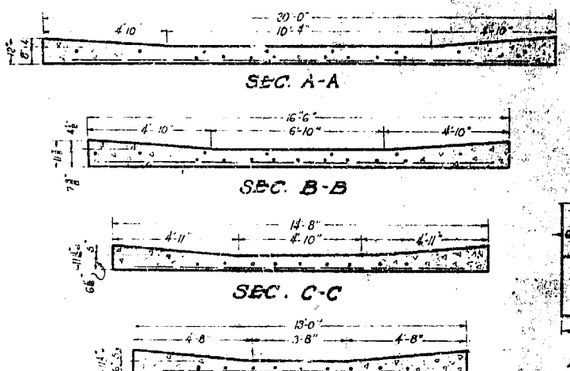
97

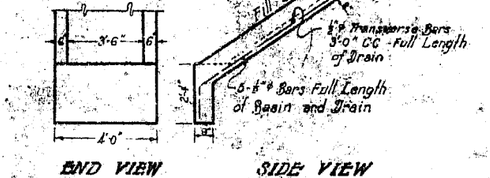


BASIN AT BOTTOM OF GRADES

SCHEDULE OF REINFORCING STEEL			
MARK	NO.	SIZE	LENGTH
Dowels	8	½" ϕ	2'-0"
A	1	"	18'-0"
B	1	"	15'-3"
C	1	"	13'-3"
D	1	"	10'-9"
E	1	"	8'-3"
F	1	"	6'-0"
G	1	"	3'-6"
H	1	"	3'-9"
T1	5	"	6'-9"
T2	2	"	4'-9"
T3	2	"	21'-0"
T4		"	
T5		"	
T6		"	

Total Steel 102 Lbs.
Total Conc. 208 Cu. Yds.
20¢ of Long. Metal Strip



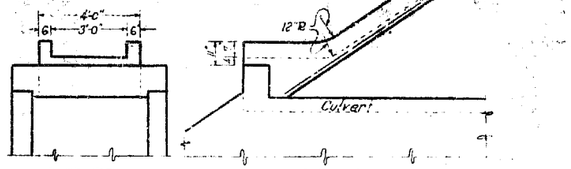


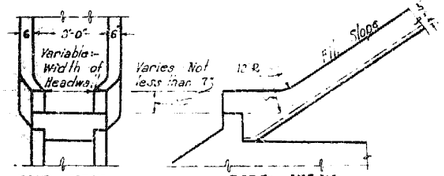
QUANTITIES PER LIN. FT OF SURFACE DRAIN	
Steel	5.845 Lbs.
Concrete	0.077 Cu. Yds.

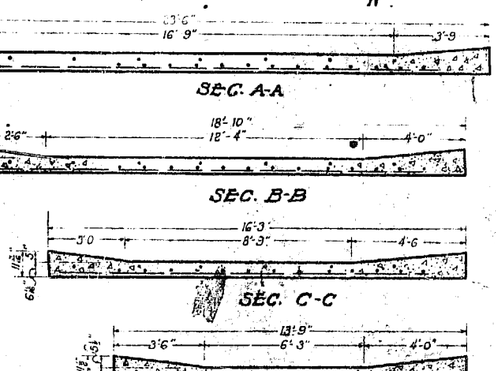
BASIN ON GRADE

SCHEDULE OF REINF. STEEL IN BASIN			
MARK	NO.	SIZE	LENGTH
Dowels	8	½" ϕ	4'-0"
A	1	"	20'-0"
B	1	"	17'-0"
C	1	"	14'-3"
D	1	"	11'-9"
E	1	"	9'-0"
F	1	"	6'-9"
G	1	"	3'-9"
H	1	"	3'-9"
T1	5	"	5'-3"
T2	1	"	5'-0"
T3	1	"	5'-0"
T4	1	"	2'-0"
T5	1	"	4'-3"
T6	1	"	3'-6"
T7	1	"	3'-6"
T8	1	"	2'-0"
T9	1	"	2'-9"

Total Steel 123 Lbs.
Total Conc. 2.12 Cu. Yds.
32 Lin. Ft. of Long. Metal Strip







GENERAL NOTES

All top surface edges of the basin and drain shall be finished of about the time the concrete takes its initial set with an edger having a radius of three eighths (⅜) of an inch.

All reinforcing and dowel bars shall be deformed and shall meet the requirements of section 41-38 of specifications.

All concrete in basins and drains shall be class X (2,000 lb.)

SEVEN FOOT SURFACE DRAIN BASINS AND SURFACE DRAINS ON GRADES AND AT THE LOW POINT OF GRADES

Scale:- ¾"-1'-0"

APPROVED _____
CHIEF ENGINEER

Standards

Typ Sec & Earthwork

St Genevieve

File 23
Secon Proj NRH-373(
County
Sheet # 48

Surf, Curb & Gutter + APP

Drainage

Bridges

Conc Reinf Apparts Finish etc

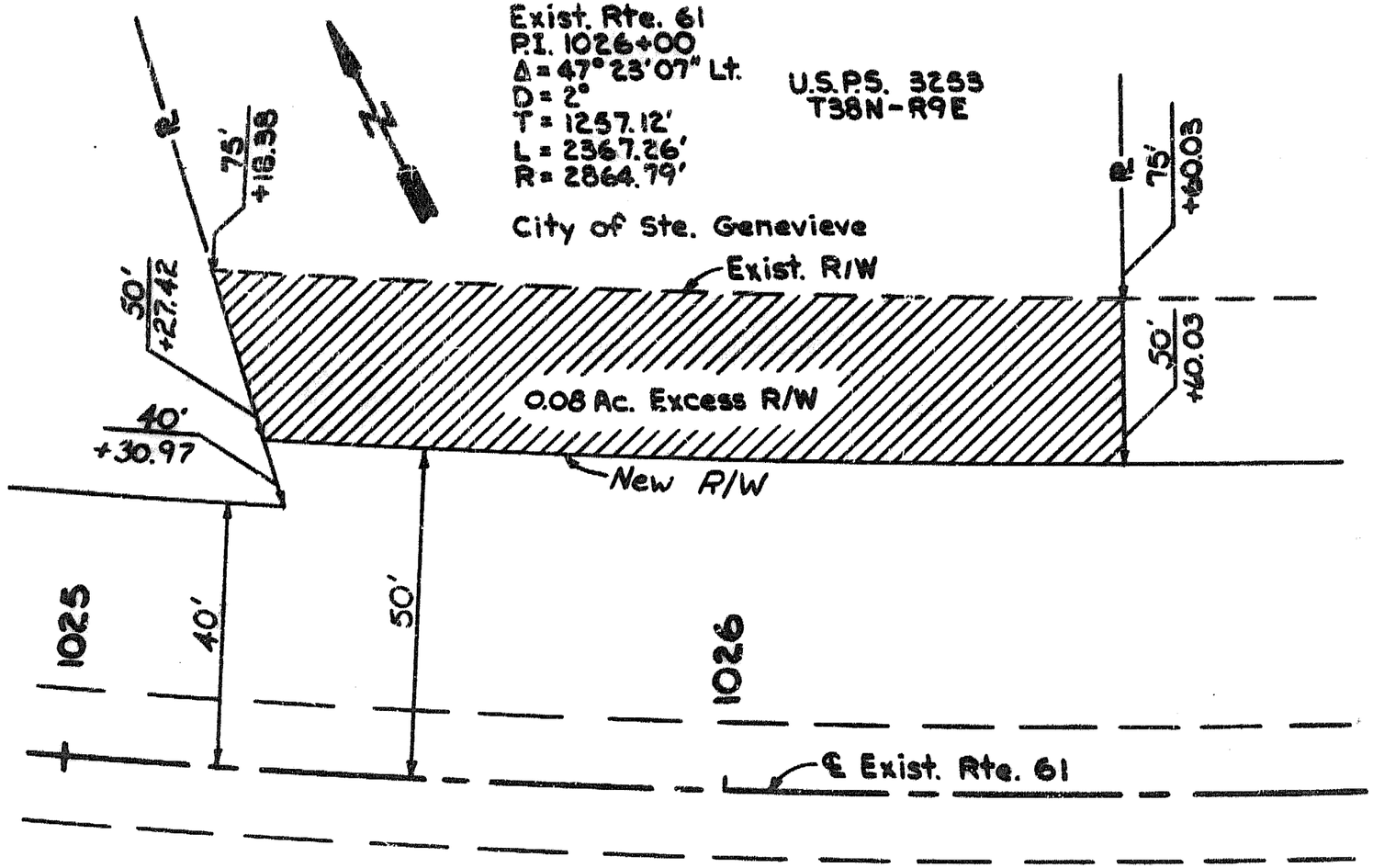
TS20A

TS20B

Misc.

PROJECT NRH-378(B) IS FOUND UNDER NRH-378 CE+F IN CONTRACT PLANS.

NRH- (B)
ST. GEN. LEVE
PP-4 ~ CON
PP-4 ~ FIN



Transferred To Alvin C. Donze & Lily M. Donze
By Quit Claim Deed
Dated: Feb. 2, 1990

ROUTE 61
STE. GENEVIEVE COUNTY
PROJ. NO. NRH-378(B)
SHEET 1 of 1

421

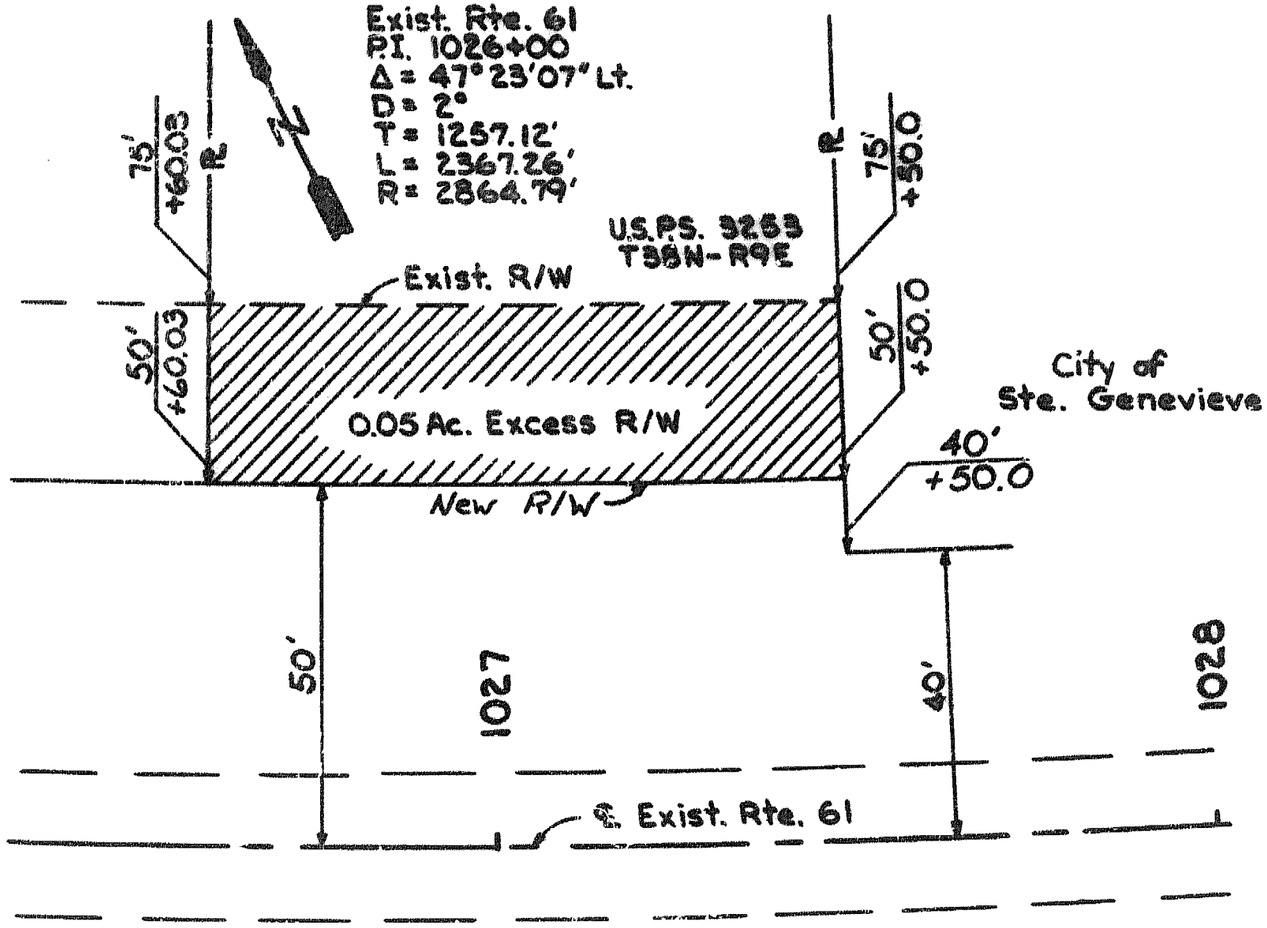
PROJECT NRH-378(B) IS FOUND UNDER NRH-378 E&F IN CONTRACT PLANS.

NRH-378(B) 10 ST. GENEVIEVE 25 773

PP-4 — [illegible] N

PP-4 — F, N

422



Transferred To Bill Ralston & Beverly Ralston
By Quit Claim Deed
Dated: Feb. 2, 1990

ROUTE 61
STE. GENEVIEVE COUNTY
PROJ. NO. NRH-378(B)
SHEET 1 of 1

SP-1

FINAL PLANS

DESIGN DESIGNATION

A.D.T. - 1990 = 7,600
A.D.T. - 2010 = 10,500

D.H.V. = 10 %
T = 8 %
V = 50 M.P.H.

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION PLANS FOR PROPOSED STATE HIGHWAY

FEDERAL AID PROJECT

AWARDED DEC 18 1989 Mo. Highway & Transportation Dept.

COUNTY STE. GENEVIEVE
ROUTE 61
PROJECT RS-785(5)
JOB NO. 6-P-61-888

INDEX OF SHEETS

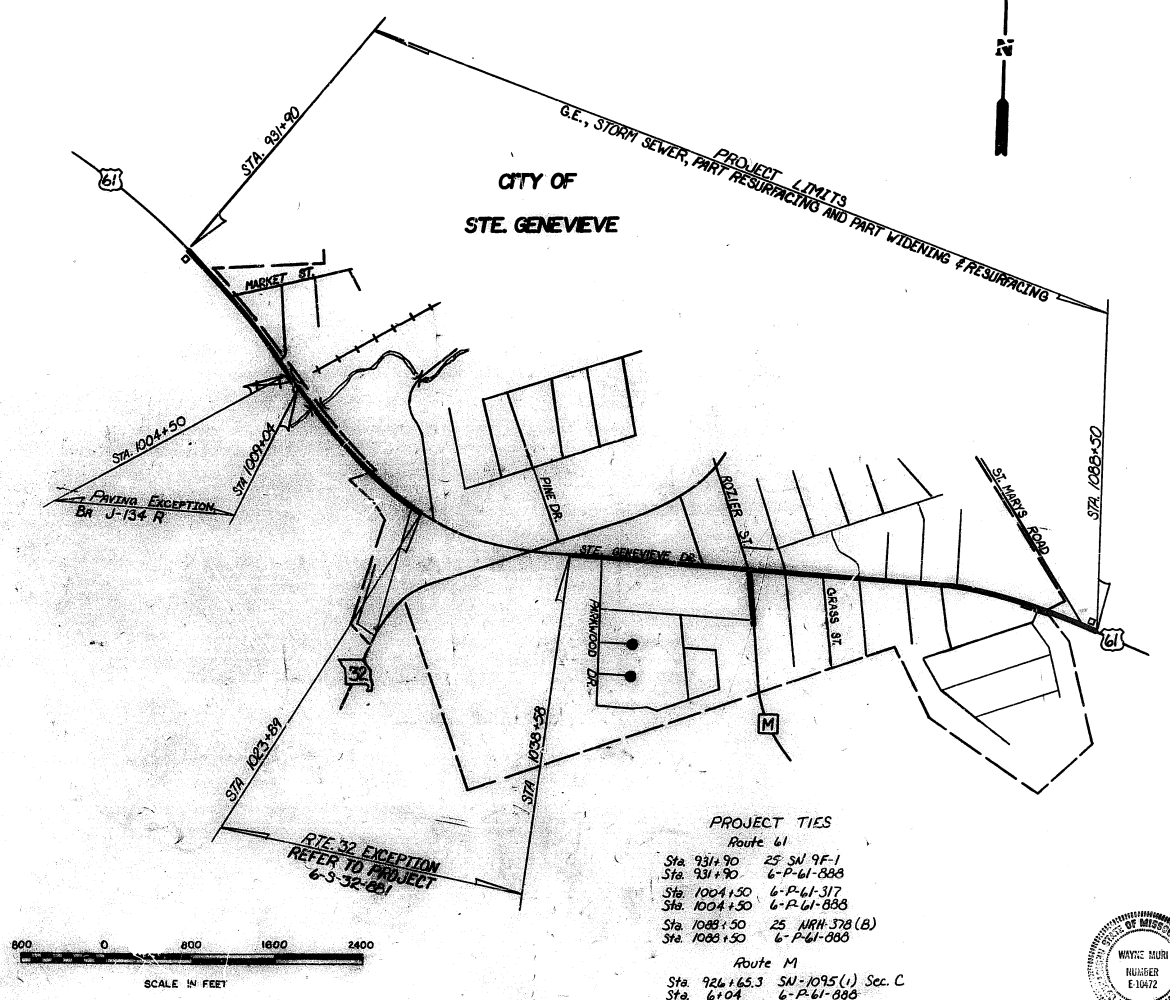
DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (3 SHEET)	2
SUMMARY (1 SHEET)	2-A
SUMMARY (4 SHEET)	2-B
PLAN-PROFILE	3-8
REFERENCE POINTS	9
SPECIAL SHEETS	10-18 *
LIGHTING	
SIGNALS	
SIGNING	
CULVERT SECTIONS	19-22
BRIDGE DRAWINGS	
STANDARD PLANS INDEX	23
CROSS SECTIONS	1-23
COMPUTER DATA	
* TRAFFIC CONTROL	17-18

NO RIGHT OF WAY ACQUIRED

CONVENTIONAL SIGNS
(USED IN PLANS)

- BUILDINGS AND STRUCTURES
- GUARD RAIL
- CONCRETE RIGHT-OF-WAY MARKER
- STEEL RIGHT-OF-WAY MARKER
- FENCE
  - CHAIN LINK
  - WOVEN WIRE
  - GATE
- UTILITIES
  - TELEPHONE
  - POWER
  - GAS
  - WATER

☐ Progress As Promised Identification Signs (2 Required)



PROJECT TIES

Route 61

Sta. 931+90	25 SN 9F-1
Sta. 931+90	6-P-61-888
Sta. 1004+50	6-P-61-317
Sta. 1004+50	6-P-61-888
Sta. 1088+50	25 NRH 378(B)
Sta. 1088+50	6-P-61-888

Route M

Sta. 926+65.3	SN-1095(1) Sec. C
Sta. 6+04	6-P-61-888

LENGTH OF PROJECT

END OF PROJECT	STA.	1088+50
BEGINNING OF PROJECT	STA.	931+90
APPARENT LENGTH		15,660.0 FEET
EQUATIONS AND EXCEPTIONS		
930+25.83 BK. = 998+38.37AHD.		-5,812.54
RTE. 32 EXCEPTION (INCLUDES +0.85 EQUA)		
1023+89 TO 1038+58		-1,469.85
1072+13.1 BK. = 1072+01.5 AHD.		+11.6
TOTAL CORRECTIONS		-7,270.79 FEET
NET LENGTH OF PROJECT		8,389.21 FEET
STATE LENGTH		1.589 MILES
FEDERAL LENGTH		1.589 MILES

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUBMITTED

Wayne Muri — 10-30-89
CHIEF ENGINEER — DATE

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION

APPROVED

DIVISION ADMINISTRATOR — DATE

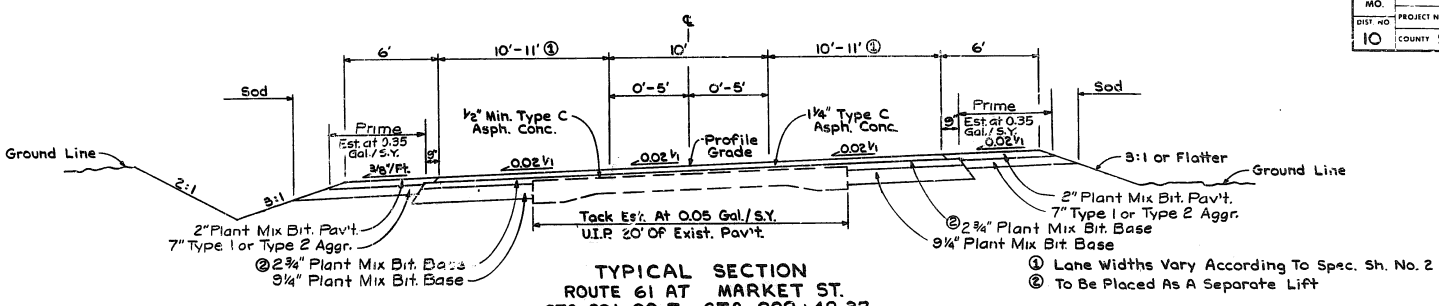
STATE OF MISSOURI WAYNE MURI NUMBER E-10472 PROFESSIONAL ENGINEER

NOTE: DASHED OR OPEN SYMBOL INDICATES EXISTING FEATURE

REV SEP 83

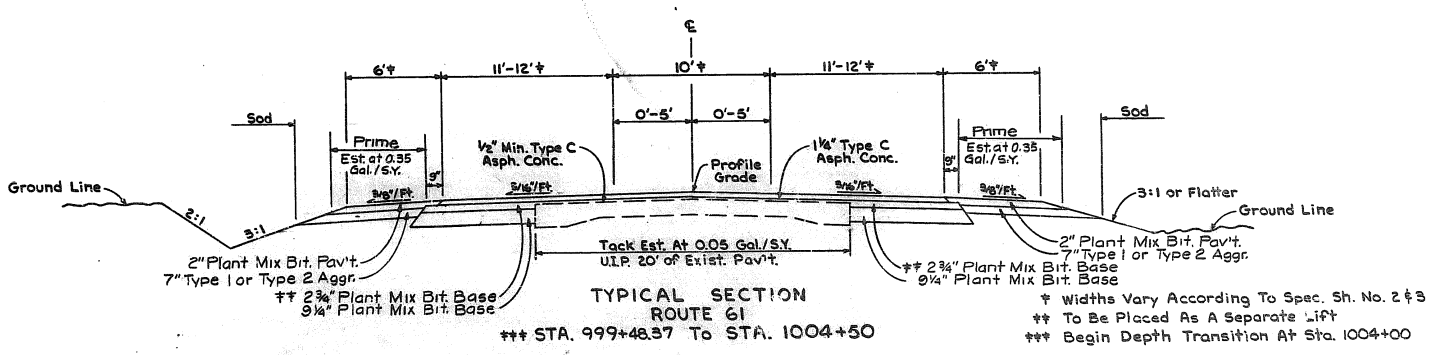
786 2

STATE MO.	JOB NO. 6-P-61-883	SHEET NO 2
DIST NO 10	PROJECT NO. RS-785(5)	ROUTE 61
	COUNTY STE. GENEVIEVE	



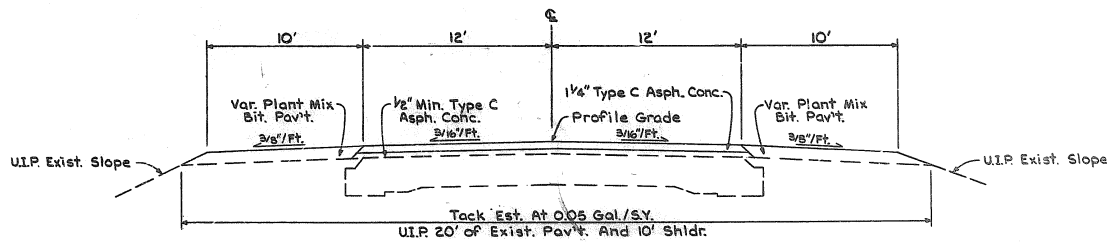
TYPICAL SECTION
ROUTE 61 AT MARKET ST.
STA. 931+90 To STA. 999+48.37

① Lane Widths Vary According To Spec. Sh. No. 2
② To Be Placed As A Separate Lift



TYPICAL SECTION
ROUTE 61
††† STA. 999+48.37 To STA. 1004+50

† Widths Vary According To Spec. Sh. No. 2 & 3
†† To Be Placed As A Separate Lift
††† Begin Depth Transition At Sta. 1004+00



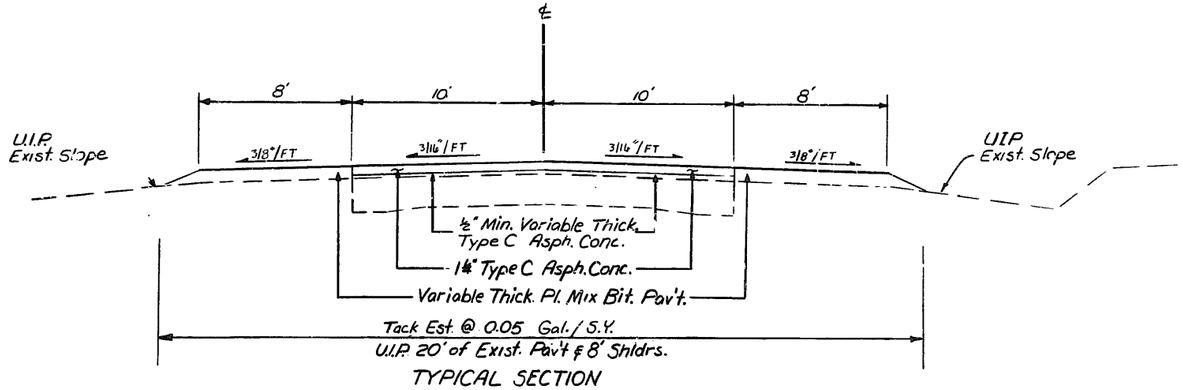
TYPICAL SECTION
ROUTE 61
STA. 1009+04 To STA. 1012+34.3

Drawing Not To Scale: Follow Dimensions

TYPICAL SECTIONS
RTE 61
SHEET 1 OF 3

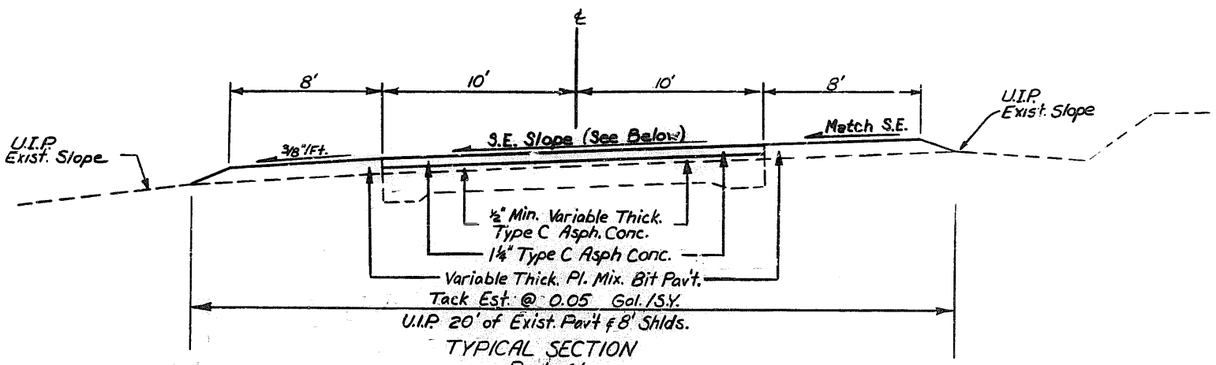
FINAL PLANS

STATE MO.	JOB NO. 6-P-61-888	SHEET NO. 2
DIST. NO. 10	PROJECT NO. RS-785(5)	ROUTE 61
	COUNTY STE. GENEVIEVE	



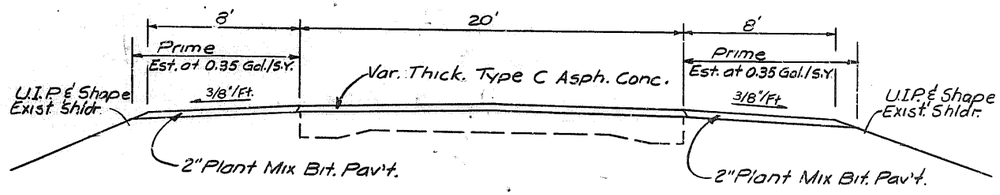
TYPICAL SECTION
Route 61

STA 1066+46 TO STA 1071+03.1
STA 1085+14.8 TO STA 1086+75.0



TYPICAL SECTION
Route 61

Sta. 1012+34.3 to Sta. 1023+89 S.E. = 0.03%
Sta. 1071+03.1 to Sta. 1085+14.8 S.E. = 0.02%



SHOULDER DETAIL AT DEPTH TRANSITION
Route 61
Sta. 1086+75 to Sta. 1088+50 Rt. Shldr.
Sta. 1087+50 to Sta. 1088+50 Lt. Shldr.

Drawing Not To Scale, Follow Dimensions.

TYPICAL SECTIONS
RTE 61
SHEET 2 OF 3

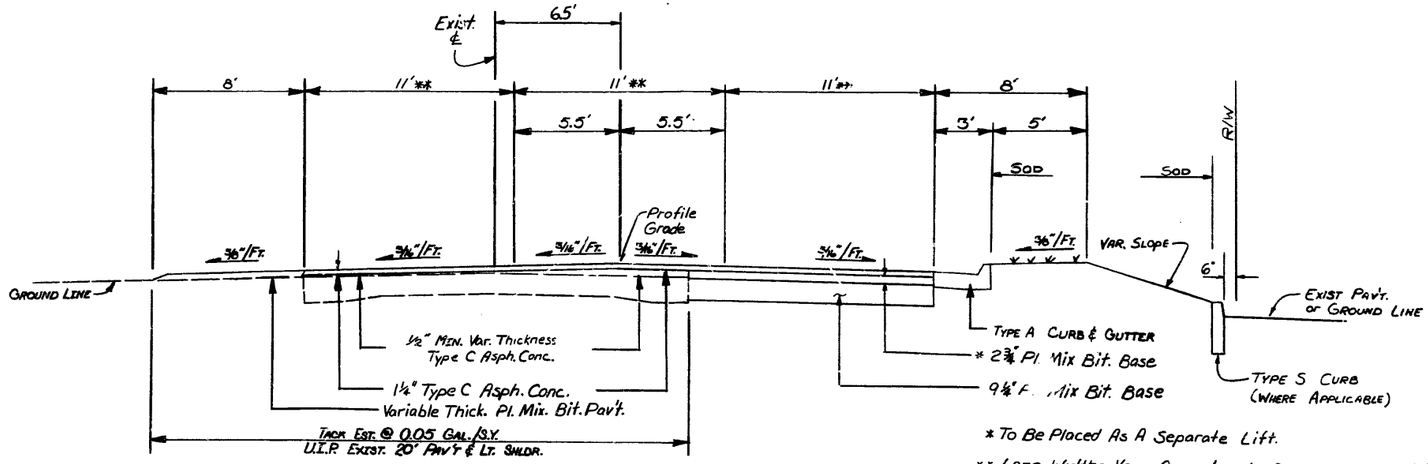
FINAL SURVEY — DATE — SURVEYED — PLOTTED — NOTE BOOK — TEMPLATE — AREAS — AREAS CHECKED — NO.

ORIGINAL SURVEY — DATE — SURVEYED — PLOTTED — NOTE BOOK — TEMPLATE — AREAS — AREAS CHECKED — NO.

4-25-88

60278

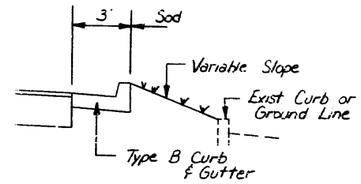
STATE MO.	JOB NO. 6-P-61-888	SHEET NO. 2
DIST NO. 10	PROJECT NO. RS-785(5)	ROUTE 61
	COUNTY STE. GENEVIEVE	



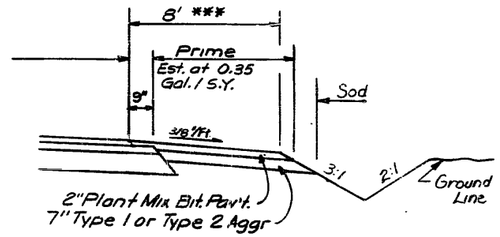
TYPICAL SECTION
ROUTE 61
STA. 1038+58 To STA. 1066+46

* To Be Placed As A Separate Lift.

** Lane Widths Vary According to Sp. Sheet nos. 4, 5 & 7

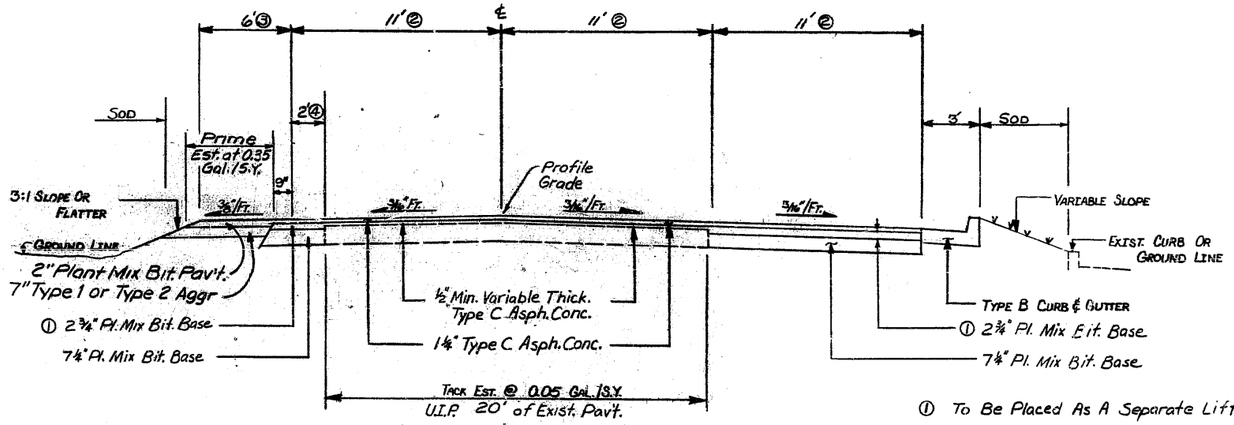


RIGHT SHOULDER - RTE 61
Sta 1053+87.7 to Sta. 1055+88.4



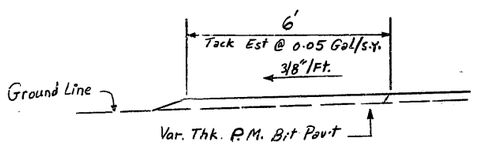
RIGHT SHLDR. & DITCH - RTE 61
Sta. 1060+78.7 to Sta. 1066+46

*** Varies 4' to 8' From Sta. 1060+78.7 to Sta. 1062+81



TYPICAL SECTION
RTE. M
STA 01+00.8 To STA. 6+04

① To Be Placed As A Separate Lift.
② Lane Widths Vary According to Sp. Sheet No. 6
③ Surfaced Shldr. Width Varies 6' to 0' Sta. 5+54 to Sta. 6+04
④ 2' (Avg. Width) Base Widening Extends from Sta 1+90 to Sta 6+04



LEFT SHOULDER - RTE M
Sta. 0+75 to Sta 1+90

Note: From Sta 0+33.4 to Sta. 1+00.8 RTE M
10" Base Extends Full Width From Curb to Curb.

DRAWINGS NOT TO SCALE, FOLLOW DIMENSIONS

TYPICAL SECTIONS
RTE 61 & RTE M
SHEET 3 OF 3

FINAL PLANS

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

STATE	JOB NO.	SHEET NO
MO	6-P-61-888	2A
DIST NO	PROJECT NO.	ROUTE
10	RS-785(5)	61
	COUNTY Ste. Genevieve	

SUMMARY OF QUANTITIES

ITEM	DESCRIPTION	UNIT	QUANTITY

ITEM	DESCRIPTION	UNIT	QUANTITY
201-20.10	REMOVAL OF IMPROVEMENTS	LUMP SUM	1
203-10.00	CLASS A EXCAVATION	CU YD	13,094
203-60.00	COMPACTING EMBANKMENT	CU YD	1,722
203-70.75	COMPACTING IN CUT	STATION	48.1
206-30.00	CLASS 3 EXCAVATION	CU YD	1,574
213-10.00	SHAPING SHOULDERS CLASS 1	MILE	.03
301-10.11	ASPHALT CEMENT (BITUMINOUS BASE) AC-20	TON	242.3
301-20.00	MINERAL AGGREGATE (BITUMINOUS BASE)	TON	3,045
304-00.73	TYPE 1 AGGREGATE FOR BASE (7 IN. THICK)	SQ YD	2,221
310-30.01	CHAT (C)	CU YD	0
390-90.00	TEMPORARY SURFACING	CU YD	228
401-10.12	ASPHALT CEMENT (BITUMINOUS PAVEMENT) AC-20	TON	668
401-20.10	MINERAL AGGREGATE (BITUMINOUS PAVEMENT) GRADE C	TON	1,386
403-10.11	ASPHALT CEMENT (ASPHALTIC CONCRETE) AC-20	TON	164.6
403-10.26	MINERAL AGGREGATE (ASPHALTIC CONCRETE) (TYPE C MIX)	TON	2,937
407-10.05	TACK COAT	GALLON	2,420
601-10.00	FIELD LABORATORIES	LUMP SUM	1
608-50.08	PAVED APPROACH, 8 IN.	SQ YD	1,404.2
609-10.10	CONCRETE CURB (6 IN. HEIGHT AND UNDER) TYPE S	LIN FT	390
609-10.41	CONCRETE GUTTER TYPE A	LIN FT	36
609-10.51	CURB AND GUTTER TYPE A	LIN FT	1,257
609-10.52	CURB AND GUTTER TYPE B	LIN FT	663
609-70.00	ROCK LINING	CU YD	2
612-90.10	INSTALLING GIVE EM A BRAKE 4 FT. X 8 FT. SIGNS (SEE SPECIAL PROVISIONS)	EACH	6
612-90.20	INSTALLING GIVE EM A BRAKE 4 FT. X 4 FT. SIGNS (SEE SPECIAL PROVISIONS)	EACH	3
614-10.10	GRATES AND BEARING PLATES	POUND	570
614-30.13	MANHOLE FRAME AND COVER, TYPE 3	EACH	10
614-30.20	CURB INLET	EACH	12
616-10.05	CONSTRUCTION SIGNS	SQ FT	750
616-10.20	CHANNELIZERS (DRUMS)	EACH	108
616-10.00	EDGE DROP-OFF TREATMENT	LIN FT	6,236
620-50.01	TYPE 1 PREFORMED MARKING TAPE 4 IN., SOLID WHITE	100 FT	2.3
620-50.03	TYPE 1 PREFORMED MARKING TAPE 4 IN., SOLID YELLOW	100 FT	111.2
620-50.04	TYPE 1 PREFORMED MARKING TAPE 4 IN., INTERMITTENT YELLOW	100 FT	12.0
620-54.04	PREFORMED SHORT TERM MARKING TAPE 4 IN., INTERMITTENT YELLOW	MILE	1.7
703-20.02	CLASS B CONCRETE (MISC)	CU YD	2.3
706-10.00	REINFORCING STEEL	POUND	190

ITEM	DESCRIPTION	UNIT	QUANTITY
725-10.15	15 IN. CORRUGATED METAL PIPE	LIN FT	76
725-10.18	18 IN. CORRUGATED METAL PIPE	LIN FT	90
726-13.12	12 IN. CLASS III REINFORCED CONCRETE PIPE CULVERT	LIN FT	75
726-13.15	15 IN. CLASS III REINFORCED CONCRETE PIPE CULVERT	LIN FT	1,241
726-13.18	18 IN. CLASS III REINFORCED CONCRETE PIPE CULVERT	LIN FT	1,018
726-13.24	24 IN. CLASS III REINFORCED CONCRETE PIPE CULVERT	LIN FT	214
731-10.22	PRECAST CONCRETE DROP INLET 2 FT X 2 FT	FT	10
731-10.30	PRECAST CONCRETE DROP INLET 3 FT X 2 FT-6 IN.	FT	49
731-10.32	PRECAST CONCRETE DROP INLET 3 FT X 2 FT	FT	40
732-00.15	15 IN. FLARED END SECTION	EACH	2
732-00.18	18 IN. FLARED END SECTION	EACH	1
802-50.00	TYPE 2 MULCH	ACRE	.6
803-10.00	SODDING	SQ YD	4243
805-10.00	SEEDING	ACRE	.6
500.	CONTINGENT ITEMS		
501.01	TYPE 1 AGG BASE 4"	SQ YD	1853
501.02	12" CORRUGATED METAL PIPE	LIN FT	24
501.03	DENSITY SAMPLES	EACH	13

RECEIVED

ACCEPTED : January 8, 1991

PREPARED BY:

RESIDENT ENG:

DIST'R OFFICE:

MAIN OFFICE:

STE. GENEVIEVE 61 RS-785(5)

SP-2B

FINAL PLANS

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

STATE	JOB NO	SHEET NO
MO	6-P-6[illegible]388	25
DIST NO	PROJECT NO	ROUTE
10	COUNTY STE GENEVIEVE	5

SHEET 1 OF 4

ENTRANCES AND SIDE ROADS
(STATIONED ENTRANCES & SIDE ROADS SHOWN ON SPECIAL SHEETS)

Plan Sheet No	Sp. Sheet No	Sta.	Type	Loc.	Exist. or New Width	%Grade	Paved Depth 7" Ft.	Appr. 8" S.Y.	Depth "1" Ft.	P.M. Bit. Pav't. C.Y.	P.M. Bit. Base C.Y.	Tack Gal.	Remarks
3	2	933+23.5	III	Lt.	23	6	5						
		934+39.3	III	Lt.	19	7	5						
		935+49.8	III	Lt.	39	2	15.5			10.7		4	
		937+21.3	I	Lt.	15	5	9						
		938+87.3	II	Lt.	33	2	18			6.7		6	
		938+87.3	III	Rt.	–	5-11	18			23.5		21	Incl. Taper 939+00 to 939+40
4		938+69.5	III	Lt.	25	4	8			0.8		1	
		999+97	III	Rt.	22	8	20						
		1002+04.5	III	Rt.	22	8	20						
		1002+23	III	Lt.	46	3	5			0.7		2	
		1004+23	II	Lt.	30	2	5			1.0		2	
5	4	1038+17.2	III	Rt.	56.5	4	17	135.8					
		1041+83.0	II	Rt.	35	6	22	104.3					
		1043+17.1	III	Rt.	34	3	17	71.2					
		1044+43.7	III	Rt.	41	3	17	84.4					
6		1045+74.8	III	Rt.	31	4	17	65.6					
		1047+66.2	III	Rt.	31	5	17	65.6					
		1048+45.0	III	Rt.	26	4	17	56.1					
		1049+72.8	III	Rt.	60	6	17	120.3					
	5	1053+45.0	III	Rt.	58	9	17	116.8					
		1056+74.6	III	Rt.	37	3	11.5	52.8					
		1057+60.0	III	Rt.	53	6	17	104.5					
8		1059+46.2	II	Rt.	58	4	17	128.2		1.0		2	Bit. Pav't. for Surface leveling beyond paved appr.
		1060+42.4	III	Rt.	58	2	17	122.6					
	7	1062+69.75	II	Rt.	30	4	14.5			1.9	9.1		
		1063+62.0	III	Rt.	24	5	16						
		1064+37.0	I	Rt.	20	6	17.5						
		1065+14.5	II	Rt.	24	6	29.7			3.5		4	
7	6	1+04.8	III	Lt.	39	2				4.4		3	Route M
		1+76.0	III	Lt.	32	3				5.6		3	
		2+20.0	I	Lt.	24	0							
		3+03.0	I	Lt.	14	2							
		3+44.0	III	Lt.	44	2							
		4+22.0	III	Lt.	25	4							
		4+59.0	I	Lt.	20	4							
		4+75.5	I	Rt.	28	5	30.1	138.2					
		5+03.5	I	Lt.	23	5	13	37.8					
		Totals						1404.2		59.8	9.1	48	

CAST-IN-PLACE DROP INLETS

Plan Sheet No.	Sp. Sheet No.	Sta.	Loc.	Type	3'x3' Ft.	Conc. Misc. C.Y.	Steel Lb.	Cl. 3 Exc. C.Y.	Remarks
6	4	1049+30.9	34' Rt.	E	7	2.3	190	9	1-18" & 1-24" Pipe Opening, 2 Spillways (1-Std. Open. & 1-Sq. Open.) Type A Cover
		Totals				2.3	190	9	

CONCRETE CURB TYPE S

Plan Sheet No.	Sp. Sheet No.	Sta.	Loc.	Sta.	Loc.	6" Ht. & Under L.F.	Remarks
3	2	939+63	Lt.	938+39	Lt.	63.5	Equa. (-58+12.5')
6	4	1046+28	Rt.	1047+06.3	Rt.	16.0	
		1048+58	Rt.	1048+66	Rt.	14.0	
		1049+31	Rt.	1049+42	Rt.	11.0	
	5	1050+03	Rt.	1050+15	Rt.	12.0	
		1056+56	Rt.	Rte M 64+77	Rt.	37.5	Rte. M
		1056+94.5	Rt.	1057+32	Rt.	37.5	
		1058+09.5	Rt.	1059+09	Rt.	122.5	
7		1059+17.5	Rt.	1059+25.5	Rt.	8.5	
		1060+07.5	Rt.	1060+15	Rt.	7.5	
7	6	Rte M 1+19	Lt.			60.0	Rte M, Incl 2-6 Rs
				Total		390.0	
				Use		390	

PRECAST CONCRETE DROP INLETS

Plan Sheet No	Sp. Sheet No	Sta.	Loc.	Type	"D" Ft.	Manhole Frame & Cover Type 3 Each	2'x2' Ft.	3'x2' Ft.	3'x2'-6" Ft.	Grates & Bearing Plates Lb.	Cl. 3 Exc. C.Y.	Remarks
5	4	1041+47.2	27.5' Rt.	T	4'-9"	1			5		8	1-15" & 1-18" Pipe Opening
		1042+08.0	35' Rt.	E	3'-3"			3			5	1-12" Pipe Opening & Square Spillway Opening (3'x1'-3")
		1043+00	24.5' Rt.	D	2'-6"		3			190	3	1-12" Pipe Opening
		1043+95.6	35' Rt.	T	4'-0"	1			4		7	1-12" Pipe Opening
		1044+75.2	24.5' Rt.	D	3'-0"		3			190	4	1-12" Pipe Opening
6		1045+25.0	35' Rt.	E	4'-3"			4			6	1-12" Pipe Opening
		1046+30.0	35' Rt.	E	4'-9"			5			7	1-12" Pipe Opening
		1046+48.3	24.5' Rt.	D	3'-6"		4			190	3	1-12" Pipe Opening
		1047+10.0	27.5' Rt.	T	6'-0"	1			6		8	1-12", 1-18" & 1-24" Pipe Opening
		1047+10.0	35' Rt.	E	2'-6"			3			3	1-12" Pipe Opening
		1047+83.2	35' Rt.	T	3'-9"	1			6		9	2-24" Pipe Openings
		1048+52.5	35' Rt.	T	6'-3"	1			6		10	2-24" Pipe Openings
	5	1050+20.0	27.5' Rt.	T	6'-0"	1			6		5	1-12" & 2-18" Pipe Openings
		1050+20.0	35' Rt.	E	2'-9"			3			1	1-12" Pipe Opening
		1053+20.5	35' Rt.	T	3'-3"	1			3		6	1-12" Pipe Opening
		1053+92.0	28.7' Rt.	T	4'-3"	1			4		3	1-15" & 1-18" Pipe Opening
		1056+27.2	58.9' Rt.	T	3'-6"	1			4		8	1-18" Pipe Opening
		1057+32.0	35' Rt.	T	4'-6"	1			5		7	2-15" Pipe Openings
8		1059+10.0	35' Rt.	E	3'-3"			3			5	1-15" Pipe Opening & Square Spillway Opening (3'x1'-3")
7	6	1+97.0	19.5' Lt.	E	3'-6"			4			5	1-15" Pipe Opening
		2+83.0	19.5' Lt.	E	4'-9"			5			6	2-15" Pipe Openings
		3+88.0	19.5' Lt.	E	5'-0"			5			6	2-15" Pipe Openings
		4+85.0	20' Lt.	E	4'-9"			5			6	2-15" Pipe Openings
		Totals				10	10	40	49	570	131	

REINFORCED CONCRETE PIPE CULVERT CLASS III

Plan Sheet No	Sp. Sheet No	Sta.	Loc.	Sta.	Loc.	← Cl. III RCP → 12" L.F.	15" L.F.	18" L.F.	24" L.F.	Flared End Sec. 15" Each	Cl. 3 Exc. C.Y.	Remarks
5	4	1037+75.0	37.5' Rt.	1041+46.95	27.5' Rt.		57			1	101	
		1041+48.45	27.5' Rt.	1047+08.75	27.5' Rt.			56			344	Incl. 7-18"x12" Tees
		1042+08.0	27.5' Rt.		34' Rt.	7					1	
		1043+00.0	26.5' Rt.		27.5' Rt.	2						
		1043+95.6	27.5' Rt.		33.8' Rt.	7					2	
		1044+75.2	25.5' Rt.		27.5' Rt.	2						
6		1045+25.0	27.5' Rt.		34' Rt.	7					1	
		1045+30.0	27.5' Rt.		34' Rt.	7					1	
		1046+48.3	25.5' Rt.		27.5' Rt.	2						
		1047+10.0	29' Rt.		34' Rt.	5					1	
		1047+11.25	27.5' Rt.	1047+91.7	35' Rt.				71		77	
		1047+84.7	35' Rt.	1048+58	35' Rt.				74		34	
		1048+61	35' Rt.	1049+29.4	34' Rt.				69		71	
		1049+32.4	34' Rt.	1050+18.75	27.5' Rt.			87			30	
	5	1050+20.0	29' Rt.		34' Rt.	5						
		1050+21.25	27.5' Rt.	1053+20.75	28.7' Rt.			370			127	Incl. 1-13"x12" Tee
		1053+20.5	28.5' Rt.		33.8' Rt.	6						
		1053+93.25	28.7' Rt.	1057+30.5	35' Rt.		338				157	Incl. 1-15"x12" Tee
		1055+28.9	33.1' Rt.	1055+27.9	57.8' Rt.	25					12	Incl. 1-30° Bend
		1057+33.5	35' Rt.	1059+08.5	35' Rt.		175				118	
7	6	1+98.5	19.5' Lt.	2+81.5	19.5' Lt.		83				46	
		2+84.5	19.5' Lt.	3+86.5	21.5' Lt.		102				70	
		3+89.5	19.5' Lt.	4+83.5	20' Lt.		94				67	
		4+86.5	20' Lt.	5+75.0	24' Lt.		78			1	63	
		Totals				75	1241	1018	214	2	1423	

QUALITY REPRO

FINAL PLANS

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

STATE MO	JOB NO. 6-P-8-888	SHEET NO 28
DIST NO 10	PROJECT NO P.S. 78E(5)	ROU 6
	COUNTY STE. GENEVIEVE	61

SHEET 2 OF 4

REMOVAL OF IMPROVEMENTS

Plan Sheet No.	Sp. Sheet No.	Sta.	Sta	Loc	Description	Remarks
4	3	1003+51	1003+60.7	28.3' Lt	6" Conc. Ret. Wall	Approx. 10 L.F.
		1004+02		21.7' Rt.	3'x1' Hdwl. w/ Apron	
5	4	1038+13.5		29.5' Rt.	15"x83' RCP & Flared End Sections	
		1038+33	1038+43.2	22' Rt.	6" Conc. Curb to 40' Rt.	Approx. 27 L.F.
		1039+00	1039+10	22' Rt.	6" Conc. Curb to 40' Rt.	Approx. 27 L.F.
		1041+10.7		27.8' Rt.	15" CMP & 18" RCP ~ 90'	
		1041+83		10' Rt.	Conc. Street to 45' Rt	Approx. 206 S.Y. or as directed by Engineer
		1042+02	1042+30	30' Rt.	2'x 28' Conc. Gutter	Approx. 7 S.Y.
		1042+31.5		24.8' Rt.	3'x2' D.I. & 18"x 15.7' RCP	
		1043+52	1043+60.1	21' Rt.	5" Conc. Curb to 40' Rt.	Approx. 22 L.F.
		1043+90.3		24.8' Rt.	3'x 2' D.I. & 18"x 73' RCP & CMP	
		1043+94.1	1044+23.2	21' Rt.	6" Conc. Curb to 40' Rt. @ 1043+94.1 & to 38' Rt. @ 1044+23.2	Approx. 61 L.F.
		1044+64.2	1044+75	20' Rt.	6" Conc. Curb to 38' Rt.	Approx. 27 L.F.
6		1046+48	1046+59	20' Rt.	6" Conc. Curb to 33' Rt.	Approx. 22 L.F.
		1046+55.5		28' Rt.	24" x 40' CMP & 2'x 2' D.I.	
		1046+90.3	1047+50.7	20' Rt.	6" Conc. Curb to 33' Rt. @ 1046+90.3 & to 40' Rt. @ 1047+50.7	Approx. 86 L.F.
		1047+13.3		29' Rt.	24"x 86' CMP & 2'x 2' D.I.	
		1047+75		30' Rt.	24"x 76' CMP & 3'x 3' D.I.	
		1047+8.7	1048+32	20' Rt.	6" Conc. Curb to 40' Rt. Both Entrances	Approx. 78 L.F.
		1048+55.5		30' Rt.	24"x 13.5' CMP & 2'x 2' D.I.	
		1048+58		20' Rt.	6" Conc. Curb to 40' Rt.	Approx. 22 L.F.
		1048+91		32.5' Rt.	27"x 39' RCP & 3'x 3' D.I.	
		1049+32	1049+43	20' Rt.	6" Conc. Curb to 33' Rt.	Approx. 26 L.F.
		1049+33		34' Rt.	18"x 5' CMP & 2.5'x 2' D.I.	
		1049+51		32' Rt.	18"x 61' CMP	
	5	1050+03	1050+13	20' Rt.	6" Conc. Curb to 38' Rt.	Approx. 27 L.F.
		1053+12		31.5' Rt.	15"x 5.5' RCP & 3'x 3' D.I.	
		1053+18	1053+22.5	22' Rt.	6" Conc. Curb	Approx. 20 L.F.
		1053+22.5		31.6' Rt.	15"x 61' RCP & Flared End Sections	
		1053+80	1053+90	22' Rt.	6" Conc. Curb to 40' Rt.	Approx. 22 L.F.
		1055+54.7		25' Rt.	15"x 49' CMP & 2'x 2' D.I.	
		1056+06		25.6' Rt.	15"x 49' CMP & 3'x 3' D.I.	
		1056+16	1056+59	20' Rt.	6" Conc. Curb (Entire Island)	Approx. 158 L.F.
		1056+58.6		26.6' Rt.	15"x 40' CMP	
		1056+94	1057+33	20' Rt.	6" Conc. Curb (Entire Island)	Approx. 107 L.F.
		1057+86	1057+97	21' Rt.	6" Conc. Curb (Entire Island)	Approx. 53 L.F.
8		1059+15.5		30' Rt.	15"x 80' CMP	
		1059+15.5	1059+81.3	30' Rt.	6" Conc. Curb	Approx. 10 L.F.
		1060+06.4	1060+16	30' Rt.	6" Conc. Curb	Approx. 12 L.F.
		1060+16		28' Rt.	15"x 61' CMP	
	7	1060+72	1060+75	30' Rt.	6" Conc. Curb to 40' Rt.	Approx. 14 L.F.
		1062+72.5		30.5' Rt.	15"x 47' CMP	
		1063+47		29' Rt.	15"x 25' CMP	
		1064+81.7		26.5' Rt.	15"x 59' CMP	
					Route M	
7	6	1+24	1+49	19' Lt.	6" Conc. Curb (Entire Island)	Approx. 61 L.F.
		2+02.8		18.5' Lt.	12"x 33' CMP	
		2+03		16' Lt.	6" Conc. Curb to 30' Lt.	Approx. 13 L.F.
		2+32		15' Lt.	6" Conc. Curb to 30' Lt.	Approx. 14 L.F.
		2+84		18.5' Lt.	12"x 90' CMP	
		3+15		19' Lt.	6" Conc. Curb to 30' Lt.	Approx. 15 L.F.
		3+66		19' Lt.	6" Conc. Curb to 30' Lt.	Approx. 13 L.F.
		4+06		19' Lt.	12"x 26' CMP	
		4+07		18' Lt.	6" Conc. Curb to 30' Lt.	Approx. 12 L.F.
		4+40		12' Rt.	6" Conc. Curb to 30' Rt.	Approx. 24 L.F.
		4+40		18' Rt.	18"x 60' CMP	
		4+41.5		18' Lt.	15"x 32' CMP	
		4+75.5		16' Rt.	Conc. Street to Approx. 50' Rt.	Approx. 63 S.Y.
		4+85		18' Rt.	6" Conc. Curb to 30' Rt.	Approx. 23 L.F.
		4+90.8		19' Lt.	15"x 84' CMP	
		5+03.5		14' Lt.	Conc. Entrance	Approx. 58 S.Y.
		5+53		14' Lt.	Conc. Hdwll.	
					LUMP SUM	

CONCRETE GUTTER AND CURB AND GUTTER

Plan Sheet No.	Sp. Sheet No.	Sta.	Loc.	Sta	Loc	Type A Curb & Gutter L.F	Type B Curb & Gutter L.F	Type A Gutter L.F	Type I AGG. BASE & MACK S.Y.	REMARKS
5	4	1039+07.5	40' Rt.	1041+51.5	23' Rt	244.0			108.4	
		1042+00.5	40' Rt.	1042+08.0	36' Rt			10.0		
		1042+14.5	23' Rt	1043+53.1	23' Rt	138.6			61.6	
		1044+01.1	23' Rt	1044+16.2	23' Rt	15.1			6.7	
		1044+71.3	23' Rt	1046+52.5	23' Rt	181.1			80.5	
6		1046+97.3	23' Rt	1047+43.7	23' Rt	46.4			20.6	
		1047+88.7	23' Rt	1048+25.0	23' Rt	36.3			16.1	
		1048+65.0	23' Rt	1049+35.8	23' Rt	70.8			31.5	
		1049+32.4	34' Rt	1049+42.8	35' Rt			10.4		EXTEND TO INSIDE EDGE OF D.I.
	5	1050+09.8	23' Rt	1053+16.0	23' Rt	305.2			135.6	
		1053+51.7	24' Rt	1055+23.7	33' Rt		136.4		60.6	15:1 TAPER
		1055+23.7	33' Rt	1055+45.1	22' Rt		77.7		34.5	60' R
		1055+45.1	16.7' Lt.	1056+25.5	32.8' Rt	50.2			22.3	60' R
		1057+02.3	26.8' Rt	1057+25.8	25.3' Rt	23.5			10.4	15:1 TAPER
		1057+93.5	23' Rt.	1059+03.2	23' Rt.	109.7			48.7	
		1059+10.0	36' Rt.		39' Rt.			4.0		EXTEND TO INSIDE EDGE OF D.I.
	8	1059+89.2	23' Rt.	1060+06.7	22.8' Rt.	17.5			7.8	
		1060+71.4	35' Rt.	1060+79.1	33' Rt.			8.0		
	7	6	0+77.6	16.7' Lt	0+81.6	26.7' Lt.	15.9			7.1	RTE M 10' R
			0+87.6	26.7' Lt	0+87.6	29.5' Lt.	2.8			1.2	RTE M
			0+81.4	22' Rt.	4+07	22' Rt.		325.4		144.7	RTE M
			4+07	22' Rt.	4+33.6	20.7' Rt.		26.6		11.8	RTE M 200' TAPER
			5+11	17.2' Rt.	5+91.5	13.6' Rt.		80.6		35.8	RTE M 200' TAPER
			5+91.5	13.6' Rt.	—	—		15.7		7.0	RTE M 30' R
			6+08	—	6+11.5	—			4.0		RTE M
			Totals				1257.1	662.6	36.4	852.9	
						Use	1257	663	36	853	

CORRUGATED METAL PIPE

Plan Sheet No.	Sp. Sheet No.	Sta.	Loc.	12" L.F	15" L.F	18" L.F	Flared End Sec. 18" Each	ROCK LINING C.Y.	CL 2 EXC. C.Y.	REMARKS
4	3	1001+66.3	Lt.		10'				2'	1-45° Bend INCL.
		1002+75	Lt.		10'				3'	1-45° Bend INCL.
		1003+48.6	Lt.		14'				3'	1-30° Bend INCL.
		1004+02	Rt.			18'	1'	2'	3'	
	6	4+59	Rt. Lt.	24'						
8	7	1062+54	Rt.		42'					
		1063+43	Rt.			38'				
		1064+20	Rt.			34'				
		Totals		24'	76'	90'	1'	2'	11'	

EDGE DROP-OFF TREATMENT

Plan Sheet No.	Sp. Sheet No.	Sta.	Sta.	Loc.	Length L.F
3	2	932+00	940+25	Lt	825
4		998+38	1004+50	Lt	612
3		932+00	940+25	Rt	825
		998+38	1004+50	Rt.	612
5, 6, 8	4, 5, 7	1038+58	1064+46	Rt	2788
			Route M		
7	6	0+31	6+04	Rt	573
		Total			6235

PREFORMED SHORT-TERM MARKING TAPE

Sta	Sta	4" Yellow Intermittent Mile	Remarks
931+00	940+25.83	0.18	℄ Rte. 61
998+38.37	1005+00	0.13	℄ Rte. 61
1007+29	1023+89	0.31	℄ Rte. 61
1038+58	1063+50	0.95	℄ Rte. 61
0+00	6+79	0.13	℄ Rte. M
Total		1.70	
Use		1.7	

SP-28

FINAL PLANS

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

SHEET 3 OF 4

STATE MO	JOB NO	B-P-61-838	SHEET NO 28
DIST NO 10	PROJECT NO	RS-765(5)	ROUTE 61
	COUNTY	STE GENEVIEVE	

SURVEY: SURVEYED / PLOTTED / NOTE BOOK / NO. — TEMPLATE: AREAS / AREAS CHECKED

TYPE 1 PREFORMED MARKING TAPE

Plan Sheet No	Sp Sheet No	Sta	Sta	Length Ft	4" Yellow Solid L.F	4" Yellow Intermittent L.F	4" White Solid L.F	Remarks
3	?	931+00	931+03	103	206			Solid Double Yellow
		932+30	934+90	287	1148			2- Double Solid Yellow
4	3	1001+00	1003+82	282	1128			2- Double Solid Yellow
		1003+82	1004+00	18	36			Double Solid Yellow
		1004+00	1005+00	100	100	30		Solid Yellow NBL. Intermittent Yellow SBL
		1007+31	1008+12	28.1		78		Intermittent Yellow SBL
		1010+12	1023+30	1318	1318	330		Single Solid Yellow, Intermittent Yellow NBL.
5&6	4	1023+00	1023+89	59	118			Double Solid Yellow
8	5&7	1038+56	1052+33	1378	2256	700		2-Single Solid Yellow 2-Intermittent Yellow NBL
		1059+95	1066+03	608	2432			2- Double Solid Yellow
		1066+28	1066+46	43	86			Double Solid Yellow
		1066+46	1068+46	200	200	50		Single Solid Yellow NBL Intermittent yellow SBL.
7	6	0+38	2+66	228			228	Single Solid White
		1+63	2+76	113	226			Double Solid Yellow
		2+76	5+93	317	1268			2 Double Solid Yellow
		5+93	6+04	11	22			Double Solid Yellow
		6+04	6+81	77	77	20		Single Solid Yellow Intermittent yellow SBL.
		Total			11121	1200	228	
		use/		ft	111.2	12.0	2.3	

SODDING (All Disturbed Areas Except Market St.)

Plan Sheet No	Sp Sheet No	Station	Station	Loc.	S.Y.	Remarks
5	4	1038+92	1041+66	Rt.	348	
		1042+00	1043+60	Rt	284	
		1043+94	1044+23	Rt.	48	
5&6		1044+64	1046+59	Rt.	359	
6		1046+90	1047+51	Rt.	121	
		1047+92	1048+32	Rt.	83	
		1048+58	1049+43	Rt.	207	
	5	1050+03	1053+22	Rt.	602	
		1053+80	1055+00	Rt.	120	
		1057+00	Island	Rt.	41	
		1058+00	Island	Rt.	195	
8		1060+00	Island	Rt.	51	
	5&7	1060+72	1062+59	Rt.	208	
	7	1062+95	1063+45	Rt.	78	
		1063+75	1064+23	Rt.	85	
		1064+57	1066+00	Rt.	226	
		1066+50	Island	Rt.	55	
7	6	0+00	0+80	Rt.	142	
		0+50	Island	Lt.	82	
		0+80	1+00	Rt.	18	
		1+00	Island	Lt.	22	
		1+00	2+00	Rt.	58	
		1+50	Island	Lt.	9	
		2+00	4+40	Rt.	120	
		2+27	2+90	Lt.	77	
		3+00	Island	Lt.	17	
		4+00	Island	Lt.	36	
		4+40	Island	Lt.	16	
		4+50	Island	Rt.	20	
		4+90	Island	Rt.	11	
		4+90	6+28	Rt.	138	
		5+00	Island	Lt.	26	
		5+30	5+75	Lt.	110	
		5+75	6+00	Lt.	36	
				Total	4243	

SEED AND MULCH Type 3

Sheet	Seed Acres	Mulch Acres	Remarks
3	0.28	0.28	Market st U.c. N.Y.
4	0.32	0.32	Market st U.c. N.Y.
Totals	0.60	0.60	
use	0.6	0.6	

FINAL PLANS

STATE MO.	JOB NO. 6-P-91-888	SHEET NO 2B
DIST. NO. 10	PROJECT NO. FS-755(5)	ROUTE 61
	COUNTY STE. GENEVIEVE	

SHEET 4 OF 4

SUMMARY OF QUANTITIES

SIGN	SIZE (INS)	AREA (SQ FT)	QTY	TOTAL AREA (SQ FT)	QTY. RELOC.	TOTAL RELOC. AREA (SQ FT)	DESCRIPTION
WARNING SIGNS							
W01-1Lb	48x48	16.0					TURN (SYMBOL LEFT ARROW)
W01-1Rb	48x48	16.0					TURN (SYMBOL RIGHT ARROW)
W01-2Lb	48x48	16.0					CURVE (SYMBOL LEFT ARROW)
W01-2Rb	48x48	16.0					CURVE (SYMBOL RIGHT ARROW)
W01-3Lb	48x48	16.0					REVERSE TURN (SYMBOL LEFT ARROW)
W01-3Rb	48x48	16.0					REVERSE TURN (SYMBOL RIGHT ARROW)
W01-4Lb	48x48	16.0					REVERSE CURVE (SYMBOL LEFT ARROW)
W01-4L2	48x48	16.0					DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT ARROWS)
W01-4Rb	48x48	16.0					REVERSE CURVE (SYMBOL RIGHT ARROW)
W01-4Rb2	48x48	16.0					DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT ARROWS)
W01-6	48x24	8.0					HORIZONTAL ARROW (SYMBOL)
W01-6a	72x36	18.0					HORIZONTAL ARROW (SYMBOL)
W01-7	48x24	8.0					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
W01-7a	72x36	18.0					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
W01-8	18x24	3.0					CHEVRON (SYMBOL)
W03-1b	48x48	16.0					STOP AHEAD
W03-2b	48x48	16.0					YIELD AHEAD
W03-3b	48x48	16.0					SIGNAL AHEAD (SYMBOL)
W03-4b	48x48	16.0					BE PREPARED TO STOP
W04-1Lb	48x48	16.0					MERGE (SYMBOL FROM LEFT)
W04-1Rb	48x48	16.0					MERGE (SYMBOL FROM RIGHT)
W05-1a	48x48	16.0					ROAD NARROWS
W05-3a	48x48	16.0					ONE LANE BRIDGE
W06-1b	48x48	16.0					DIVIDED HIGHWAY
W06-2b	48x48	16.0					DIVIDED HIGHWAY ENDS
W06-3b	48x48	16.0					TWO WAY TRAFFIC (SYMBOL)
W06-3x	24x18	3.0					TWO WAY TRAFFIC (PLAQUE)
W08-1b	48x48	16.0					BUMP
W08-2b	48x48	16.0					DIP
W08-3	48x48	16.0					PAVEMENT ENDS
W08-4b	48x48	16.0					SOFT SHOULDER
W08-5b	48x48	16.0					SLIPPERY WHEN WET (SYMBOL)
W08-6b	48x48	16.0					TRUCK CROSSING
W08-6c	48x48	16.0					TRUCK ENT. (Includes 1000 FT./1500 FT. plate W025-1a)
W08-7a	36x36	9.0					LOOSE GRAVEL
W08-9	48x48	16.0	5	80			LOW SHOULDER
W08-9La	48x48	16.0					UNEVEN PAVEMENT (SYMBOL FOR LEFT DROPOFF)
W08-9Ra	48x48	16.0					UNEVEN PAVEMENT (SYMBOL FOR RIGHT DROPOFF)
W09-1R	48x48	16.0					RIGHT LANE ENDS (Includes LEFT/CENTER plate WO25-3c)
W09-2Ra	48x48	16.0					LANE ENDS MERGE RIGHT (Includes LEFT plate WO25-3b)
W10-1a	42 Dia.	9.6					RAILROAD CROSSING
W012-1	24x24	4.0					DOUBLE DOWN ARROW (SYMBOL)
W012-2a	48x48	16.0					LOW CLEARANCE (SYMBOL)
W012-2x	24x18	3.0					LOW CLEARANCE (PLAQUE)
W012-3a,b	144x24	24.0					OVERHEAD LOW CLEARANCE (FEET AND INCHES)
W013-1a	24x24	4.0					ADVISORY SPEED (PLAQUE)
WO20-1	48x48	16.0	20	320			ROAD CONST. AHEAD (Incl. RAMP/BRIDGE plate WO25-6)
WO20-2	48x48	16.0					DETOUR AHEAD (Includes 500 FT./1000 FT. plate WO25-1b)
WO20-3	48x48	16.0					RD. CLOSED AHEAD (Incl. 500 FT./1000 FT. plate WO25-1c)
WO20-4a	48x48	16.0	5	80			ONE LN. RD. AHD (Incl. 1000 FT./1500 FT. plate WO25-1a)
WO20-5	48x48	16.0					RT. LN. CLOSED AHEAD (Incl. LEFT/CENTER plate WO25-3d)
WO20-6a	48x48	16.0					RIGHT LANE CLOSED (Incl. LEFT/CENTER plate WO25-3c)
WO20-7a	48x48	16.0	5	80			FLAGMAN AHEAD (Incl. 500 FT./1000 FT. plate WO25-1b)
WO20-8	36x18	4.5					WORKERS AHEAD
WO20-9c	48x48	16.0	5	80			OPEN TRENCH
WO21-2b	48x48	16.0					FRESH OIL
WO21-5b	48x48	16.0	2	32			SHOULDER WORK AHEAD
WO21-7	36x36	9.0					SAND BLASTING
WO22-1	48x48	16.0					BLASTING ZONE 1000 FT.
WO22-2	42x36	10.5					TURN OFF 2-WAY RADIO
WO22-3	42x36	10.5					END BLASTING ZONE
WO25-1a	26x9						1000 FT./1500 FT. Plate
WO25-1b	38x9						500 FT./1000 FT. Plate
WO25-1c	34x9						500 FT./1000 FT. Plate
WO25-3b	30x9						LEFT Plate
WO25-3c	33x9						LEFT/CENTER Plate
WO25-3d	22x9						LEFT/CENTER Plate
WO25-5	30x12	2.5					1/2 MILE/1 MILE (PLAQUE)
WO25-6	28x9						RAMP/BRIDGE Plate
REGULATORY SIGNS							
R1-1b	48x48	13.25					STOP
R1-2a	48x48x48	6.93					YIELD
R1-3	20x9	1.25					4-WAY (PLAQUE)
R1-5	20x9	1.25					3-WAY (PLAQUE)
R2-1b	36x48	12.0	5	60			SPEED LIMIT XX @ 25 M.P.H.
R2-5	36x48	12.0	2	24			REDUCED SPEED AHEAD
R3-1b	36x48	12.0					NO RIGHT TURN
R3-2b	36x48	12.0					NO LEFT TURN
R3-3a	36x36	9.0					NO TURNS
R3-4b	36x48	12.0					NO U-TURN
R3-7L	30x30	6.25					LEFT LANE MUST TURN LEFT
R3-7R	30x30	6.25					RIGHT LANE MUST TURN RIGHT
R4-1b	36x48	12.0					DO NOT PASS
R4-2b	36x48	12.0					PASS WITH CARE
R4-7Lb	36x48	12.0					KEEP LEFT (HORIZONTAL ARROW)
R4-7Rb	36x48	12.0					KEEP RIGHT (HORIZONTAL ARROW)
R4-17L	36x36	9.0					KEEP LEFT
R4-17R	36x36	9.0					KEEP RIGHT
R5-1	30x30	6.25					DO NOT ENTER
R5-1a	36x24	6.0					WRONG WAY
R6-1La	48x18	6.0					ONE WAY ARROW (LEFT)
R6-1Ra	48x18	6.0					ONE WAY ARROW (RIGHT)
R6-2La	24x30	5.0					ONE WAY (LEFT)
R6-2Ra	24x30	5.0					ONE WAY (RIGHT)
R11-2	48x30	10.0					ROAD CLOSED
R11-3	60x30	12.5					ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60x30	12.5					ROAD CLOSED TO THRU TRAFFIC
R12-3b	36x36	9.0					TO ONCOMING TRAFFIC (PLAQUE)
R20-1	36x18	4.5					WHEN FLASHING
GUIDE SIGNS							
GO20-1	60x36	15.0					ROAD CONSTRUCTION NEXT XX MILES
GO20-2	60x24	10.0					END CONSTRUCTION
MO4-8a	30x15	3.13					DETOUR (PLAQUE)
MO4-9L	48x36	12.0					DETOUR (LEFT ARROW)
MO4-9R	48x36	12.0					DETOUR (RIGHT ARROW)
MO4-10L	48x18	6.0					DETOUR (ARROW LEFT)
MO4-10R	48x18	6.0					DETOUR (ARROW RIGHT)
MO4-11	24x18	3.0					DETOUR ENDS
M5-1L	21x15	2.19					ADVANCE LEFT TURN ARROW
M5-1R	21x15	2.19					ADVANCE RIGHT TURN ARROW
MISCELLANEOUS SIGNS							

FINAL PLANS

STATE MO.	JOB NO 6-P-61-888	SHEET NO 3
DIST NO 10	PROJECT NO RS-785(5)	ROUTE 61
	COUNTY STE GENEVIEVE	

~UTILITIES~

-POWER-
Citizen Electric
Ste Genevieve, Mo.

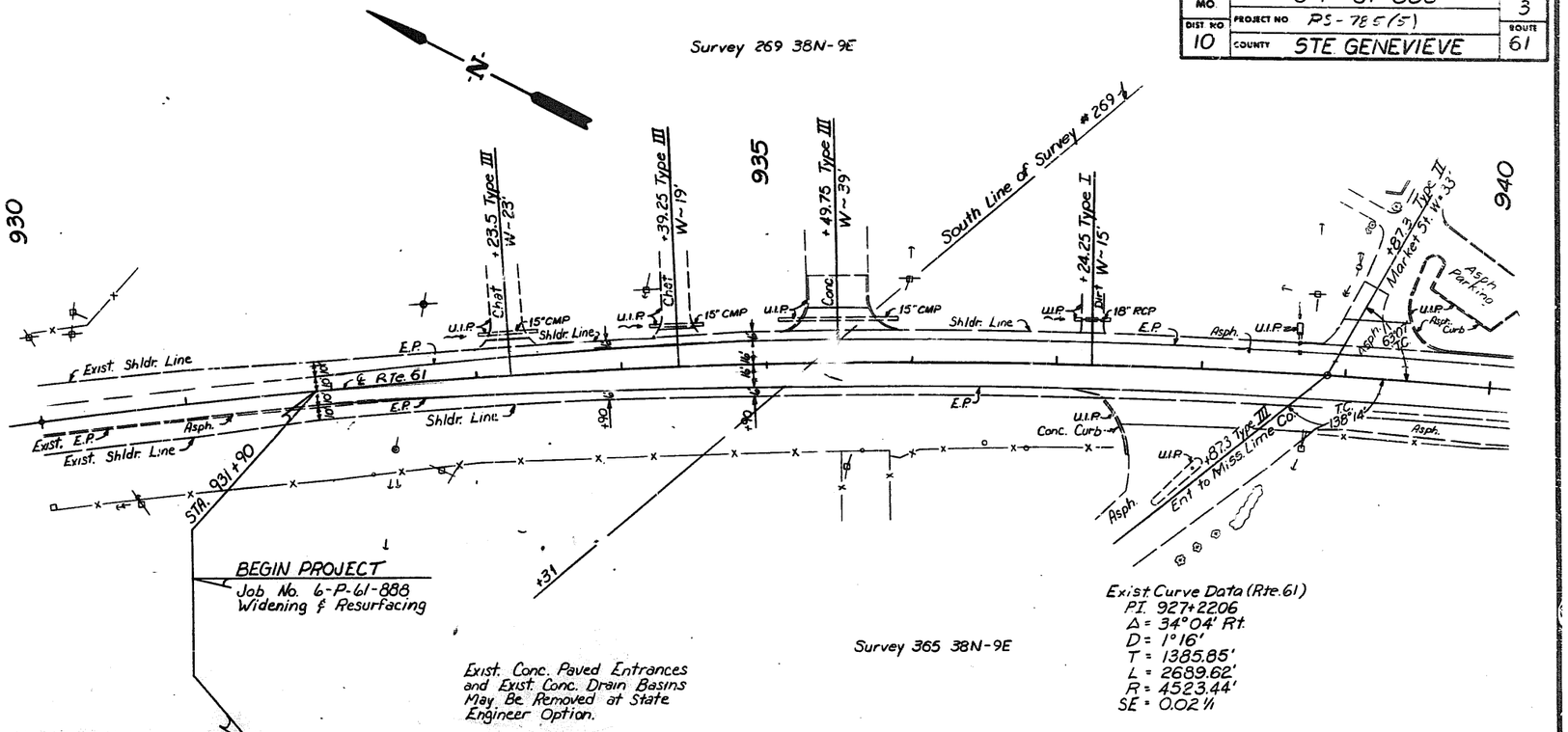
-GAS-
Missouri Natural Gas
Farmington, Mo.

-TELEPHONE-
Southwestern Bell
Festus, Mo.

-WATER-
City of Ste. Genevieve
Ste. Genevieve, Mo.

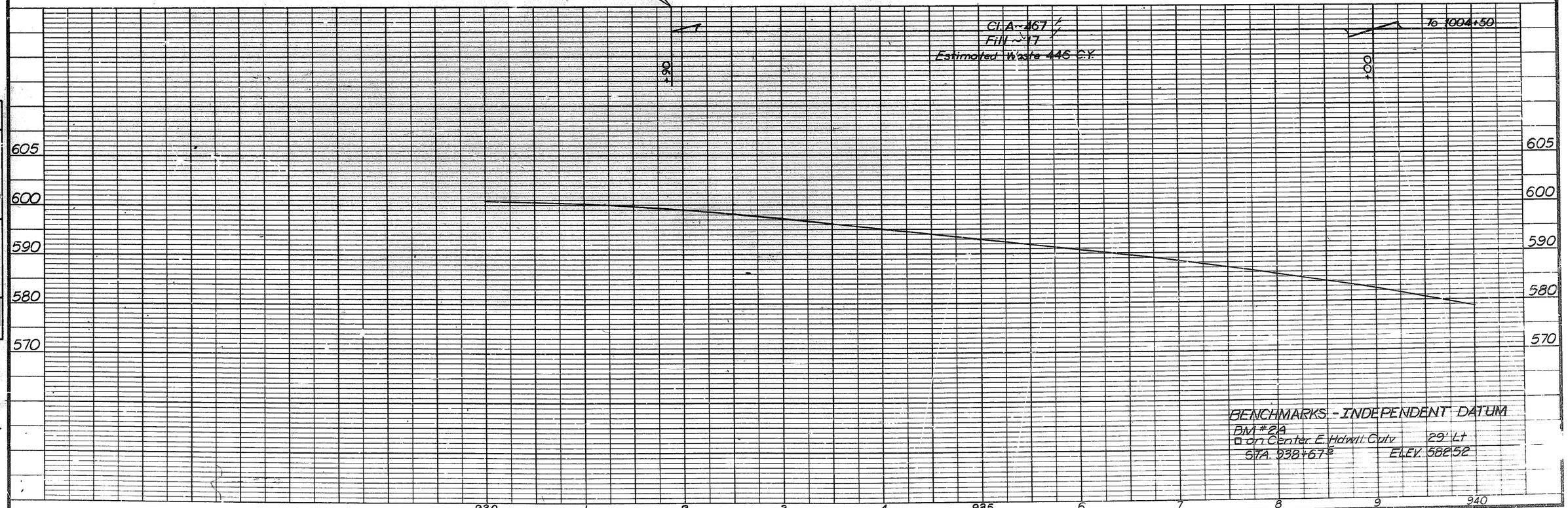
-WATER-
Ste. Genevieve County
Public Water Supply
District No. 1
Ste. Genevieve, Mo.

-VIDEO-
Falcon Cable of T.V.
Ste. Genevieve, Mo.



NOTES:
No Direct Payment Will Be Allowed For Clearing And Grubbing On This Project.

Any Work Indicated On the Plans that Extends Beyond The Project Limits Is Considered Incidental To And A Part of The Construction Of This Project



BENCHMARKS - INDEPENDENT DATUM
BM #2A
□ on Center E. Hdwll. Culv 29' Lt
STA. 938+67 ± ELEV. 582.52

FINAL SURVEY — DATE — BY — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — NOTE BOOK — NO.

4883

FINAL PLANS

STATE	JOB NO	SHEET NO
MO	6-P-61-888	4
DIST NO	PROJECT NO	ROUTE
10	RS-765(5)	61
	COUNTY STE. GENEVIEVE	

FINAL SURVEY — NOTE BOOK — DATE — BY — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — NO

940 1000 1005

+69.5 Type III W-25'

Asph Curb U.I.P. U.I.P. Shldr. Line S.L. E S.L. 15" CMP U.I.P. E.P. ℄ Rte. 61 Asph. E.P. Ditch

+97 Type III W-22'

+00

+83 Type III W-46'

U.S.P.S. 270

Conc. Pad Asph. U.I.P. 15" C.M.P. Conc. Wall U.I.P. 18" C.M.P. Asph. U.I.P. 15" CMP Exist E.P. Exist E.P. Shldr. Line S.L. Rock Lining

+24 Type II W-30'

STA 1004+50

End Widening & Resurfacing

Resume Resurfacing at Sta 1009+04

+045 Type III W-22'

+09

U.S.P.S. 270
T38N-R9E

(EQUA.) P.T. 940+25.83 Bk. = 998+38.37 Ahd.

from 939+00

Cl. A - 852
Fill - 162
Estimated Waste 650 C.Y.

+50

580 570 560 550 540

940 9 1000 1 2 3 4 1005

BENCHMARKS - INDEPENDENT DATUM

BM #2A

□ on Center E. Idwll. Cplv. 29' Lt. Sta. 938+67.5 Elev. 582.52

STATE MO.	JOB NO 6-P-61-888	SHEET NO 5
DIST NO 10	PROJECT NO RS-785(5)	ROUTE 61
	COUNTY STE. GENEVIEVE	

USPS 3253
T38N R9E

UTILITIES:

POWER ~
Citizen Electric
Ste. Genevieve, Mo.

GAS ~
Missouri Natural Gas
Farmington, Mo.

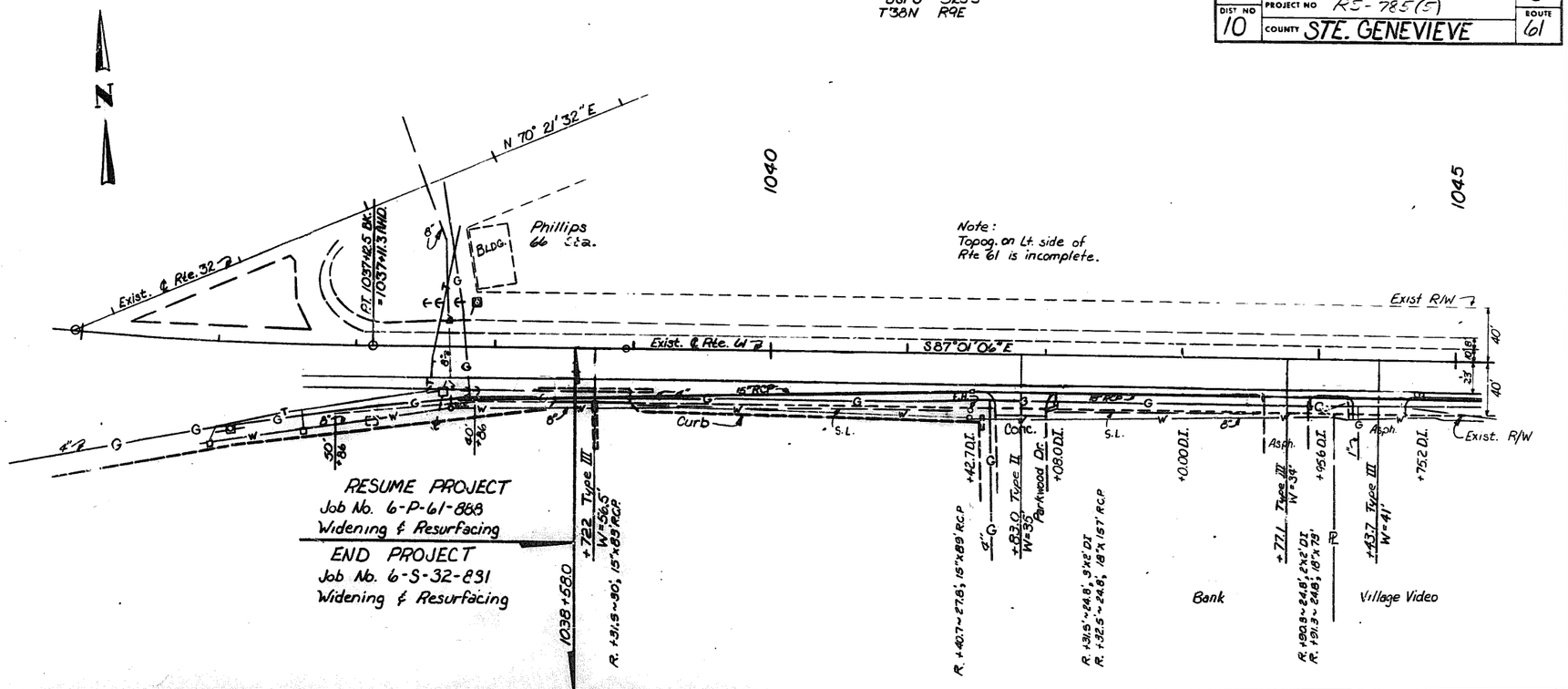
TELEPHONE ~
Southwestern Bell
Festus, Mo.

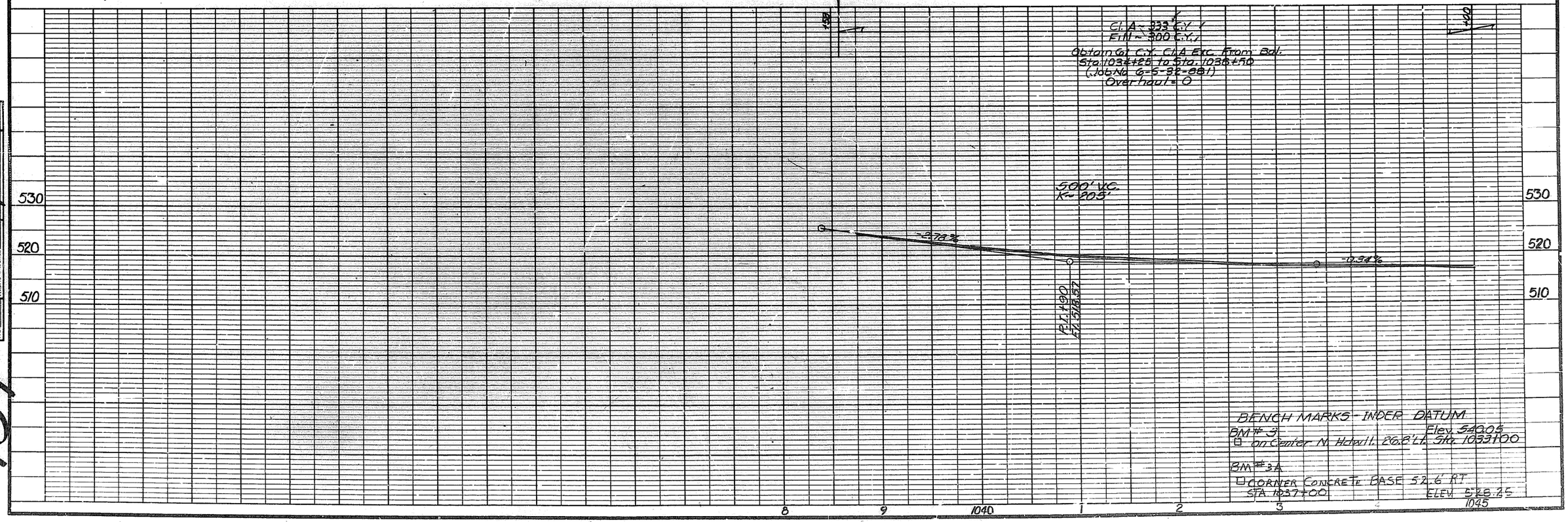
WATER ~
City of Ste. Genevieve
Ste. Genevieve, Mo.

VIDEO ~
Falcon Cable & T.V.
Ste. Genevieve, Mo.

NOTES:
No Direct Payment Will Be Allowed For Clearing And Grubbing On This Project.

Any Work Indicated On The Plans That Extends Beyond The Project Limits Is Considered Incidental To And A Part Of The Construction Of This Project.





FINAL SURVEY | NOTE BOOK | NO. | SURVEYED | PLOTTED | TYPICALS | AREAS | AREAS CHECKED | BY | DATE

USPS 3253
T38N R9E

STATE	JOB NO. 6-P-61-88C	SHEET NO.
MO		6
DIST NO.	PROJECT NO. R-[illegible]	ROUTE
10	COUNTY STE. GENEVIEVE	61

FINAL SURVEY	DATE	BY
NOTE BOOK	SURVEYED	
NO.	PLOTTED	
	FINAL PLATE	
	AREAS CHECKED	

N

1045 1050 1055

Exist R/W

Exist. Shldr.

E.P.

S 87°01'06" E

℄ Rte 61

1055+88.4 Rte. 61
0+00 Rte. M

98°44'

B611

40' R/W

Exist R/W

18" RCP

28" RCP

F.H.

W.V.

8"

6"

Asph.

S.L.

Curb

Sign

Service Sta.

C.V.

+75.2 O.I.
+25.0 O.I.
+30.0 O.I.
+48.3 O.I.
+74.8 Type III W=31'
+100.0 O.I.
+100.0 O.I.
+66.2 Type III W=31'
+183.2 O.I.
3-13" O.I.
+45.0 Type III W=26'
+59.5 O.I.
U/P +34.6'x6' Conc. Box Skew 5°13'25" L.A. +30.9 O.I.
+72.8 Type III W=60'
+20.0 O.I.
+20.0 O.I.
120.5 O.I.
+51.0 Type III W=58'
+92.0 O.I.
+27.2 O.I.
+74.6 Type III W=37'
+32.0 O.I.
-61.0 Type III W=53'
+100.0 O.I.

PIZZA HUT
Mc DONALD'S
O.B. TAVERN
VACANT LOTS
STEAK HOUSE

Cl. A ~ 298 C.Y.
Fill ~ 352 C.Y.
Obtain 156 C.Y. Cl. A Exc. From Bal. Sta. 1177+00 to Sta. 1185+00 (Job No. 6-5-32-881)
Overhaul = 0

Cl. A ~ 365 C.Y.
Fill ~ 427 C.Y.
Obtain 181 C.Y. Cl. A Exc. From Bal Sta. 1059+00 to Sta 1066+46
Overhaul = 0

100

530
520
510

200' V.C.
K = 121
-0.61%
+1.31%
150' V.C.
K = 135
SSD = 693
100' V.C.
K = 250'
SSD = 711
P.I. 1+10
515.78
P.I. 1+70
524.74
P.I. 1+75
526.15
-0.20%

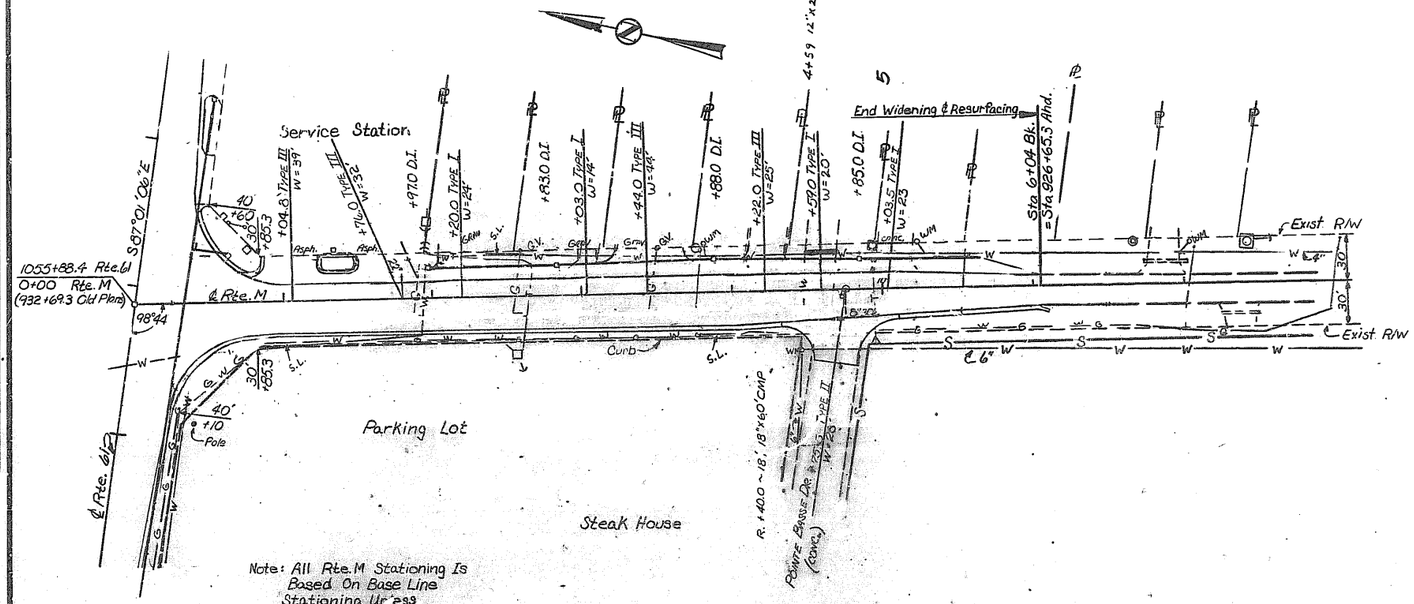
BENCH MARK - INDEX DATUM
BM #3 □ Cor. Conc. Base 48.3 Rt.
Sta. 1056+53 (Rte. 61) 524.97

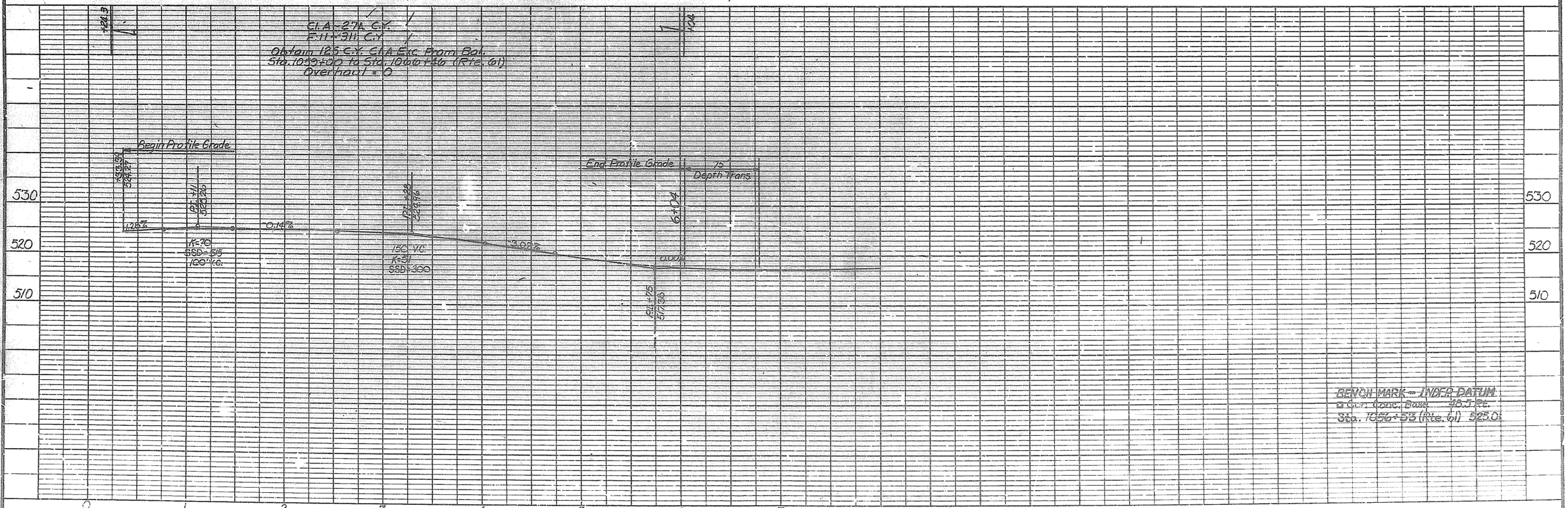
1045 6 7 8 9 1050 1 2 3 4 1055 6 7

USPS 3253
T38N R9E

STATE MO	JOB NO 6-P-61-888	SHEET NO 7
DIST NO 10	PROJECT NO RS-725(5)	ROUTE 61
	COUNTY STE GENEVIEVE	

ROUTE M



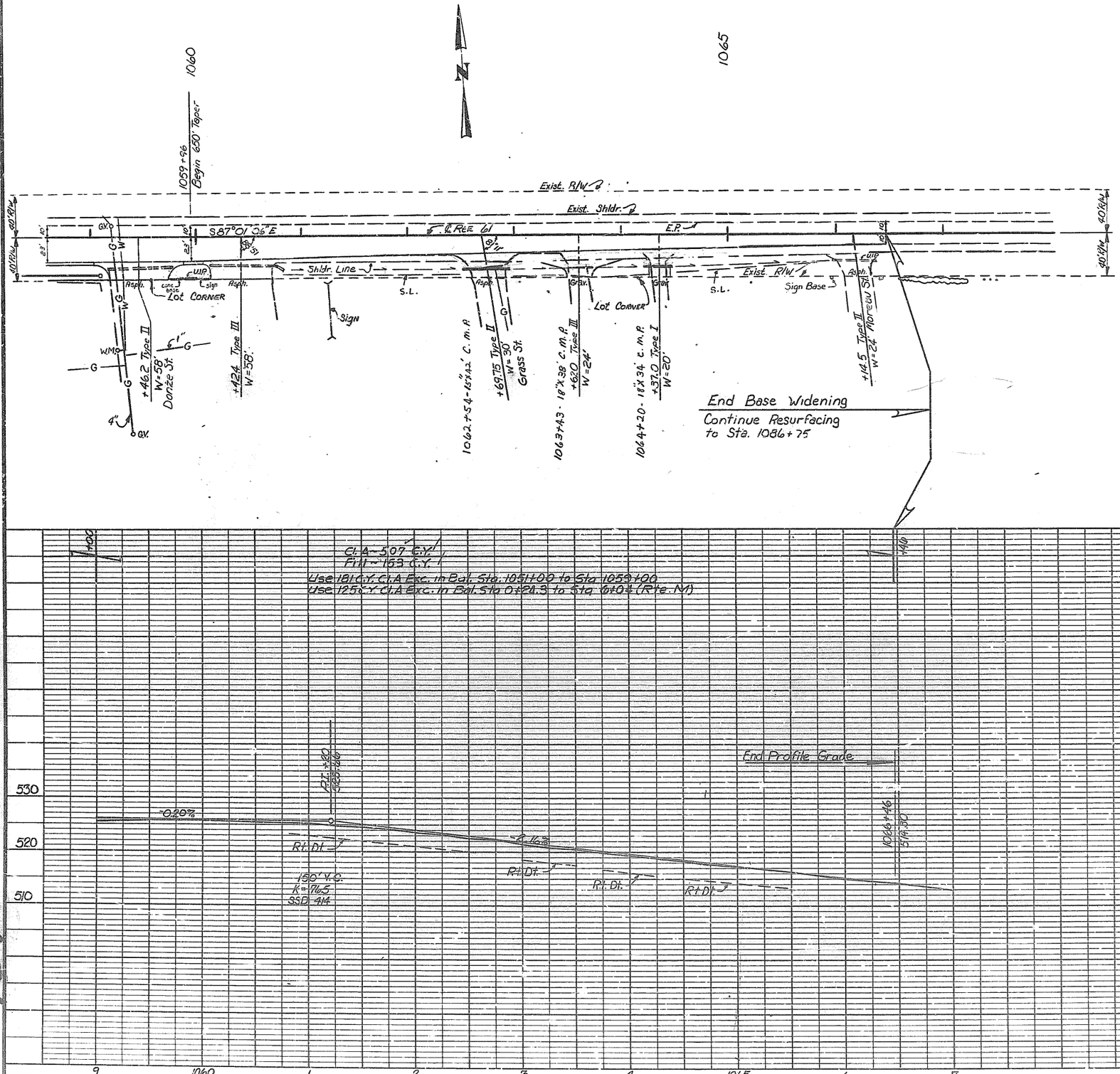


BENCH MARK - NGVD DATUM
℄ Conc. Base 425.3 Ft.
Sta. 1056+53 (Rte. 61) 525.0

FINAL SURVEY — SURVEYED — PLOTTED — TEMPLATE — AREAS CHECKED — BY — DATE — BOOK — NO.

STATE MO.	JOB NO 6-P-61-888	SHEET NO 8
DIST NO 10	PROJECT NO RS-725(5)	ROUTE 61
	COUNTY STE. GENEVIEVE	

USPS 3253
T38N R9E



BENCH MARKS - INDEX DATUM

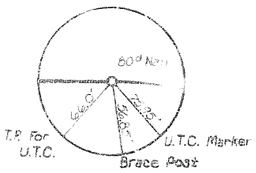
Bm 3-D	⊟ Cor. Conc. Base Sign	48.5' Rt.	
	Sta. 1056+55	Elev. 522.77	
	⊟ Cor. Conc. Base Sign	41.5' Lt.	
Bm 3-E	Sta. 1064+33	Elev. 516.62	

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	AREAS CHECKED		

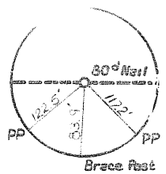
#30
#31

FINAL PLANS

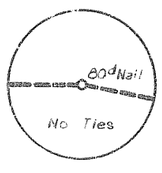
STATE MO.	JOB NO 6-P-61-88B	SHEET NO 4
DIST SEC.	PROJECT NO [illegible]	TOTAL SHEETS
10	COUNTY STE. GENEVIEVE	61



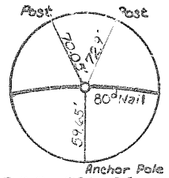
P.C. 913+36.21



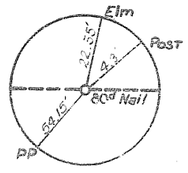
P.O.S.T. 924+83.19



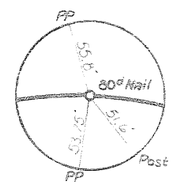
P.I. 927+22.06



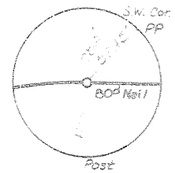
P.O.C. 930+00



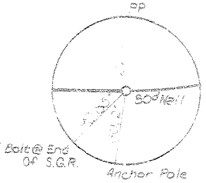
P.O.S.T. 922.16' AHD.
P.I. 927+22.06



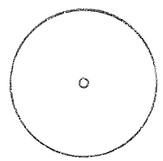
P.O.C. 938+87.3 Rte. 61 = 5+00 Market St. Lt.

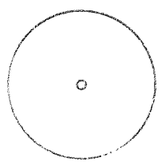


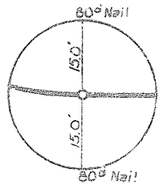
P.T. 940+25.83 BK. = 938+38.37 AHD.



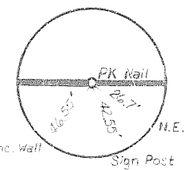
P.C. 1013+44.3



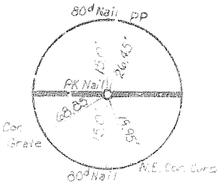




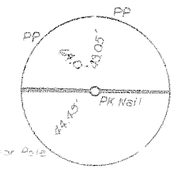
P.T. 1037+12.15 BK. = 1037+11.3 AHD.



P.O.T. 1038+94.78

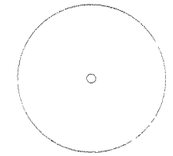


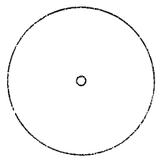
P.O.T. 1050+11.80

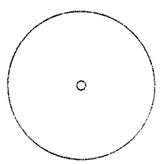


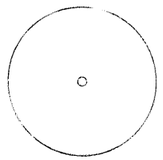
P.O.T. 1055+88.19 = @ Rte. M

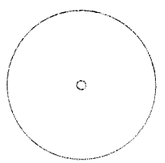


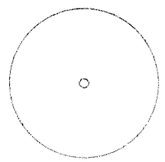


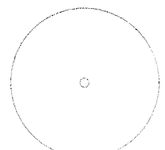






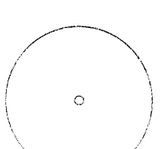


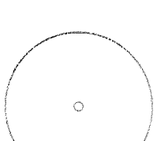


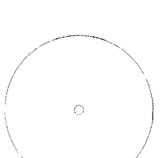


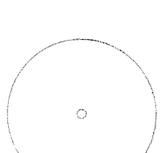


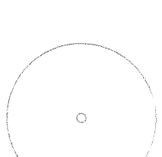






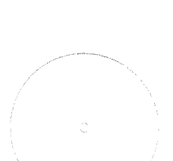


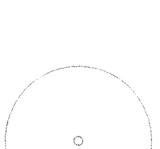


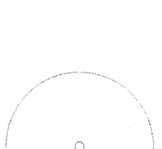


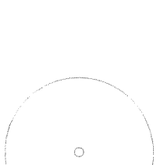


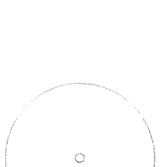








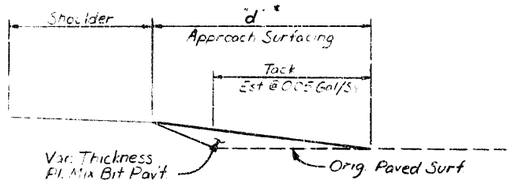






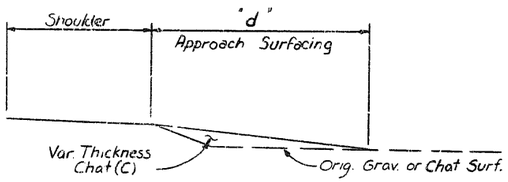
REFERENCED POINTS

STATE MO | JOB NO 6-F-61-585 | SHEET NO 10
DIST NO 10 | PROJECT NO RS-765(5) | ROUTE 61
COUNTY STE GENEVIEVE

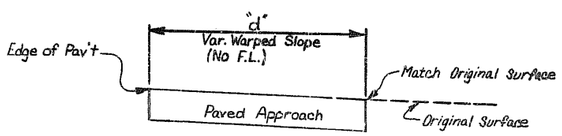


* Surface Depth "d" is to be 5 ft. for Commercial & Residential Entrances Unless Otherwise Noted. Side Roads will be Surfaced to the R/W (40' from ℄).

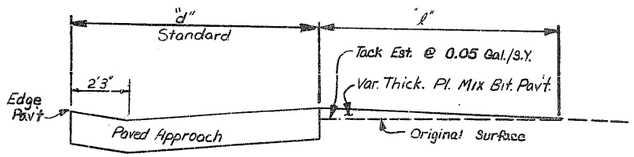
Surface Type AA



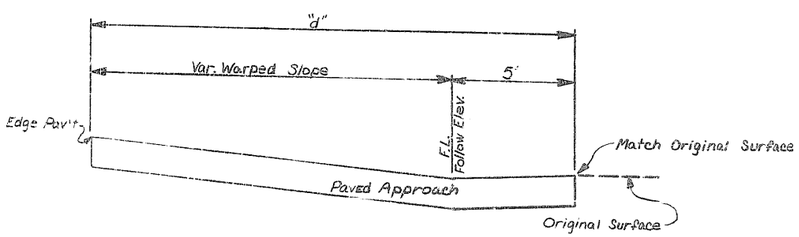
Surface Type BB



Surface Type CC

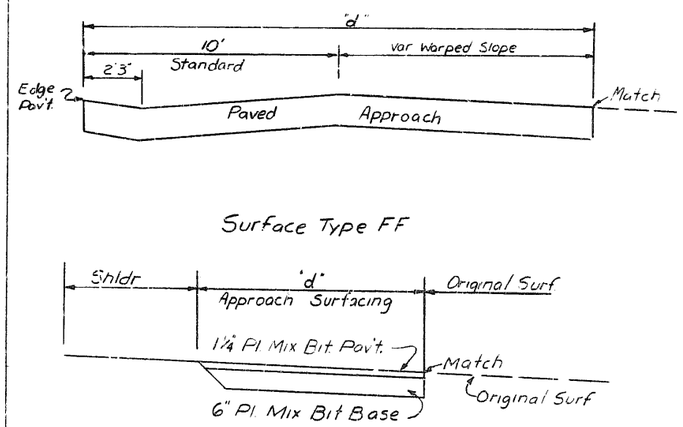


Surface Type DD



Surface Type EE

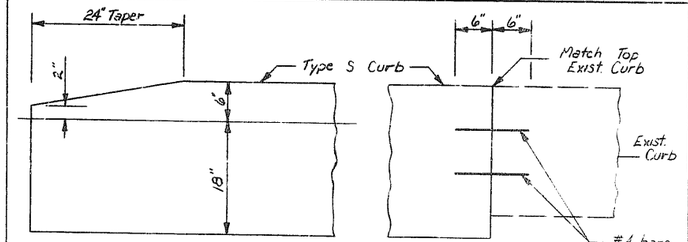
APPROACH SURFACING
(Not To Scale, Follow Dimensions)



Surface Type FF

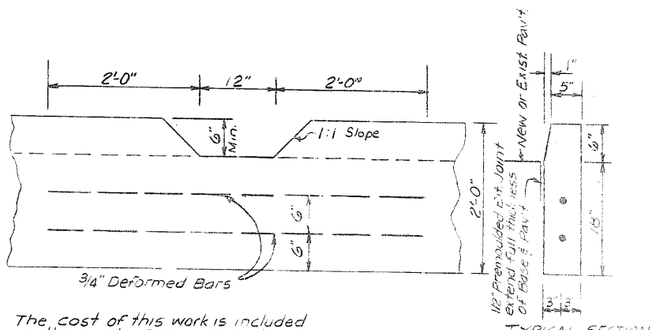
Surface Type GG

APPROACH SURFACING
(Not to Scale, Follow Dimensions)



END TAPER FOR TYPE S CONCRETE CURB

TIE CURB TO EXIST. CURB

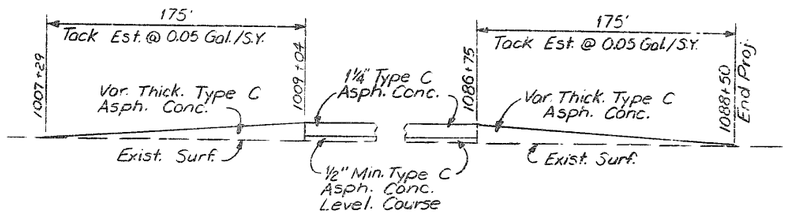


The cost of this work is included in the cost of Type S Curb per linear foot.

TYPICAL SECTION

Note: Drainage Notches are to be Constructed in Type S Curb as directed by the Engineer.

DRAINAGE NOTCH FOR TYPE S CONCRETE CURB



RESURFACING DEPTH TRANSITION
AT BR NO. J-134R AND END OF PROJECT



TYPICAL SECTION
for
Entrances and Side Roads Not Included in Curb & Gutter Sections

SPECIAL SEE

STATE MO | JOB NO. L-P-61-855 | SHEETS 11
DIST NO. 10 | PROJECT NO. RS-722(5) | COUNTY STE GENEVIEVE

Tack Est. At 0.05 Gal/S.Y.
Var. Type C Asph. Conc.
931+00
931+90
New Pav't.
Exist. Surf.

RESURFACING DEPTH TRANSITION
(Not To Scale)

Shoulder Width Transition Lt. & Rt.
931+00
Begin Base Widening
931+40
Exist. Shldr.
Exist. E.P.
Earth
Shldr.
E.P.
℄ Rte 61
Painted Median
Exist. E.P.
Earth
Exist. Shldr.
Begin Width Transition
End Width Transition
10'
11'
6'

932 933 934 935 936

+23.5 Type III W~23' Surf Type BB
+39.25 Type III W~19' Surf Type BB
+49.25 Type III W~39' Surf Type AA
U.I.P.
d=5'
15" C.M.P.
15" R.C.P.
Conc.

1¼" Type C Asph. Conc.
12" Plant Mix Bit. Base
APRON AREA AND SURFACE

ENTRANCE KEY

New Designation		Old Designation
Type I	~	P.E. (Private Ent.)
Type II	~	S.R. (Side Road)
Type III	~	C.E. (Commercial Ent.)

Surface Types
AA - GG Refer to S.P. SHEET No. 1

P.I. 927+22.06
Δ 34° 04' Rt.
D 1° 16'
T 1385.85'
L 2689.62'
R 4523.44
S.E. 0.02 ft

U.T.C. Marker
Ped.
G.V.

936 937 938 939 940 999 1000

Gas Line Marker
+24.25 Type I W~15' Surf Type BB
18" R.C.P.
+87.3 Type II W~33' Surf Type AA
Asph. Curb
Tyre S Curb
Conc.
Shldr.
E.P.
℄ Rte. 61
d~18'
d~4'
+53
+78
+63
+39
+272
139° 41' TC
6° 01'
Entrance to Mississippi Lime Co.
+87.3 Type III Surf Type AA
U.T.C.
Gas Line Marker
Pt. 940+25.89 B.K.
998+32.17 AHD

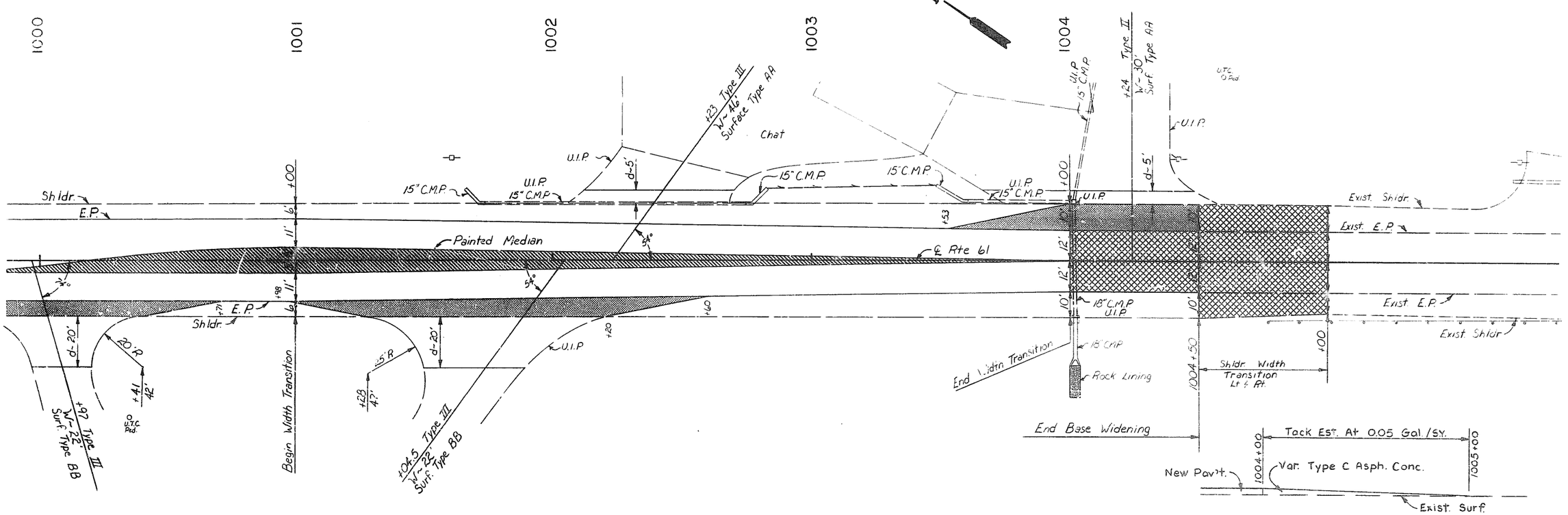
0 10 20 40
Graphic Scale

FINAL SURVEY — DATE — BY — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — NOTE BOOK — NO.

ORIGINAL SURVEY — DATE — BY — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — NOTE BOOK — NO.

FINAL PLANS

STATE MO.	JOB NO. 6-Ed-61-38.8	SHEET NO. 12
DIST NO. 10	PROJECT NO. F-[illegible] 1(5)	ROUTE 61
	COUNTY STE. GENEVIEVE	



1¼" Type C Asph. Conc.
12" Plant Mix. Bit. Base
APRON AREA AND SURFACE

RESURFACING DEPTH TRANSITION
(Not To Scale)

0 10 20 40
Graphic Scale

FINAL SURVEY — DATE — BY — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — NOTE BOOK — NO.

ORIGINAL SURVEY — DATE — BY — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — NOTE BOOK — NO.

FINAL PLANS

STATE MO.	JOB NO C-P-61-888	SHEET NO 13
DIST NO 10	PROJECT NO RS-725(5)	ROUTE 61
	COUNTY STE. GENEVIEVE	

FINAL SURVEY — NOTE BOOK — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

ORIGINAL SURVEY — NOTE BOOK — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

1038 1039 1040 1041 N 1042 1043 1044

Resume Widening & Resurfacing Job No 6-P-61-888
End Widening & Resurfacing Job No 6-S-32-881

1038+58.0

NOTE:
All approaches not shown on special sheets will receive surf. Type AA, if the existing surface is paved.
Existing unpaved approaches will receive additional chat.

Shldr. Line
℄ E.P.
℄ Rte. 61
S 87°01'06"E
Location of Profile Grade
Type A Curb & Gutter
15" R.C.P.
18" R.C.P.
12" R.C.P.
Included as Paved Appr.
24" Taper Approch Cur
Exist R/W
U.I.P.
Type A Gutter (Build to Suit)
City R/W
PARKWOOD DR.

1044 1045 1046 1047 N 1048 1049 1050

Shldr. Line
℄ Rte. 61
S 87°01'06"E
Location of Profile Grade
Type A Curb & Gutter
Type "S" Curb
18" R.C.P.
12" R.C.P.
24" R.C.P.
U.I.P.
Exist. R/W
U.I.P. Exist. 6'×6' Box
Type A Gutter

STORM SEWER & APPROACH DETAIL
SPECIAL SHEET NO. 4

0 50' 100'
Graphic Scale

ORIGINAL SURVEY — NOTE BOOK — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

30

FINAL PLANS

STATE	JOB NO	SHEET NO
MO.	C-P-61-888	14
DIST NO	PROJECT NO	ROUTE
10	COUNTY S.E. GENEVIEVE	61

FINAL SURVEY — SURVEYED, PLOTTED, HOLE BOOK, NO., BY, DATE, AREAS, AREAS CHECKED

ORIGINAL SURVEY — SURVEYED, PLOTTED, HOLE BOOK, NO., BY, DATE, AREAS, AREAS CHECKED

1050 1051 1052 1053 1054 1055 1056

1056 1057 1058 1059 1060 1061

S87°01'06"E — ℄ Rte. 61 — Shldr. Line — E.P. — Location of Profile Grade

Type A Curb & Gutter — 12" RCP — 18" RCP — Shldr. Line — Exist R/W — UIP — 7'R — 12"RCP — Type S Curb — 15:1 Taper — 15" RCP — Type B Curb & Gutter — J.I.P — 7'Rev — 14'Rev — 4'R — 10'R — 60'R — Type A Curb & Gutter — Type S Curb — 24' Taper on Hppr Curb — 50:1 Taper — Var. Width — Shldr. Line (25.3' Rt. Sta 1060+797 to Sta 1062+81) — Type A Gutter — Exist R/W

El. 516.05 — +20.0~27.5, 3'x25'DI Type T — +20.0~35.0, 3'x2'DI Type E — +12 — +20.5~35.0, 3'x2.5'DI Type T — El. 519.80 — +51.0 Type III W=58' Surf Type EE — El. 520.40 — +90 — +92.0~28.7', 3'x2.5'DI Type T — 40' +10 C — 98°44' — 1055+68.4 Rtc. 61 = 0+00 Rte. M — S5°45'06"E — +74.6 Type III W=37 Surf Type EE — El. 525.05 — +60.0 Type III W=53' Surf Type EE — El. 524.85 — El. 524.90 — +10~35.0, 3'x2'DI Type E — +46.2 Type III W=58' Surf Type FF — DONZE ST. — 1059+96.0 Begin Width Transition — +424 Type III W=58' Surf Type EE — El. 525.10 — 0 50' 100' Graphic Scale

STORM SEWER & APPROACH DETAIL
SPECIAL SHEET NO 5

ORIGINAL SURVEY — SURVEYED, PLOTTED, HOLE BOOK, NO., BY, DATE, AREAS, AREAS CHECKED

30

42

3-60-28

STATE MO. JOB NO 6-P-61-888 SHEET NO 15
DIST NO 10 PROJECT NO AS-225(5) ROUTE
COUNTY STE. GENEVIEVE

FINAL SURVEY — DATE — SURVEYED — DRAWN — TEMPLATE — AREAS — AREAS CHECKED — NOTE BOOK — NO.

ORIGINAL SURVEY — DATE — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — NOTE BOOK

1057

1056

1055

1054

℄ Rozier St.

Exist R/W

Shldr Line

℄ Exist U.S. Rte. 61

Location of Profile Grade

Exist. E.P.

℄ Rte. M

Exist. E.P.

Type S Curb

Type B Curb & Gutter

Type A Gutter

Type A Curb & gutter

15" RCP

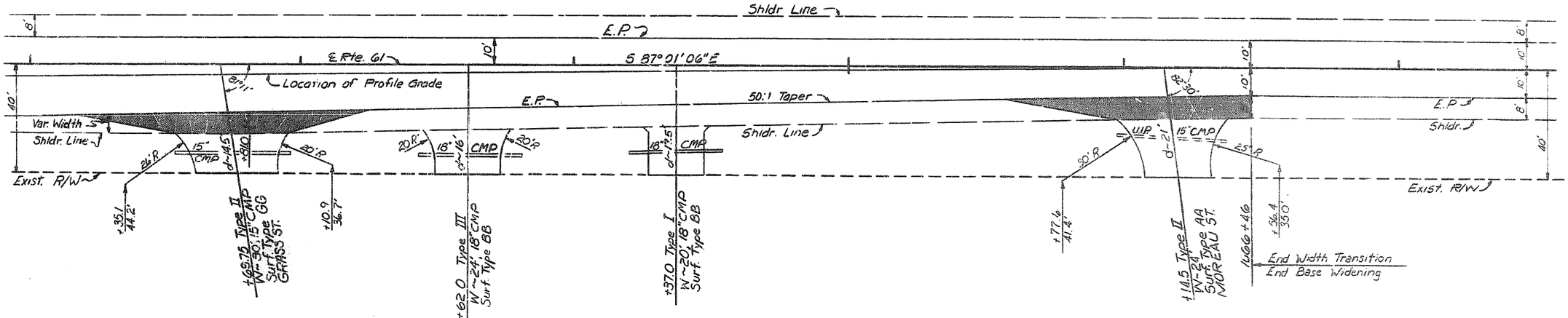
15" RCP

15" RCP

FINAL PLANS

STATE	JOB NO	SHEET NO
MO	6-P-51-888	16
DIST NO	PROJECT NO	ROUTE
10	COUNTY STE GENEVIEVE	61

1062 1063 1064 N 1065 1066 1067



1¼" Type C Asph. Conc.
12" Plant Mix. Bit. Base

APRON AREA AND SURFACE

0 50' 100'
Graphic Scale

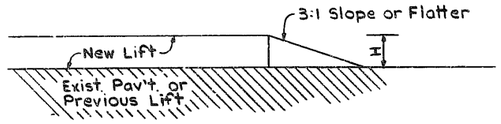
APPROACH DETAIL
SPECIAL SHEET NO 7

FINAL SURVEY — SHOWETED — PLOTTED — NOTE BOOK — NO. — DATE — BY

ORIGINAL SURVEY — SUBMITTED — FOR FIELD — NOTE BOOK — NO. — AREA CHIEF — DATE

FINAL PLANS

STATE	JOB NO.	SHEET NO.
MO.	6-P-61-888	17
DIST. NO.	PROJECT NO.	ROUTE
10	COUNTY STE. GENEVIEVE	61

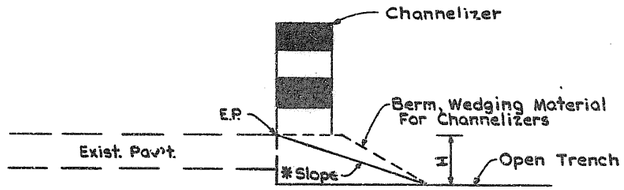


UNEVEN PAVEMENT TREATMENT

(Working Hours And Non-Working Hours)

For Use When Traffic Is Expected To Cross Uneven Pavement Where "H" Is Greater Than 2 Inches

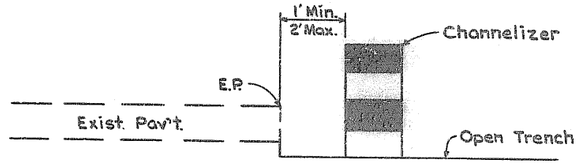
Wedge With Same Material As Used For Lift



SHOULDER DROP-OFF TREATMENT

(Non-Working Hours)

* Wedge Slope To 1:1 For H = 2" to 4" (Plant Mix Bituminous Pav't.)
* Wedge Slope To 3:1 For H > 4" (Type 1 or Type 2 Aggregate)



SHOULDER DROP-OFF TREATMENT

(Working Hours)

EDGE DROP-OFF TREATMENTS

NOTE: See Special Sheet No. 9 For Signing Details And Channelizer Spacing

PAVEMENT MARKING

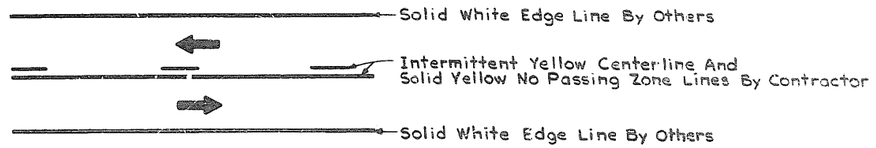
GENERAL NOTES:

All Intermittent Marking With Type I Preformed Marking Tape Shall Be 10 Ft. In Length With 30 Ft. Gaps Between Markings

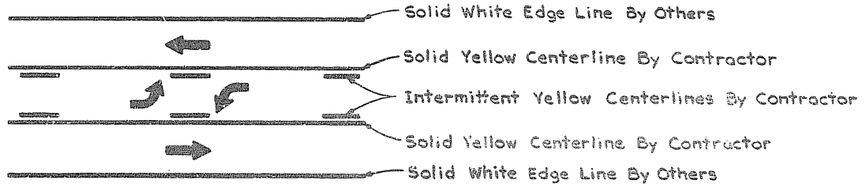
Edge Lines, Arrows, Stop Bars, And Cross Hatchings Are To Be Provided By Others Within 2 Weeks Of The Completion Of Resurfacing

Intermediate Lifts Are To Be Marked With Intermittent Pavement Marking Only, Using Short Term Pavement Marking Tape. Short Term Intermittent Marking Shall Be 4 Ft. In Length With 36 Ft. Gaps Between Markings.

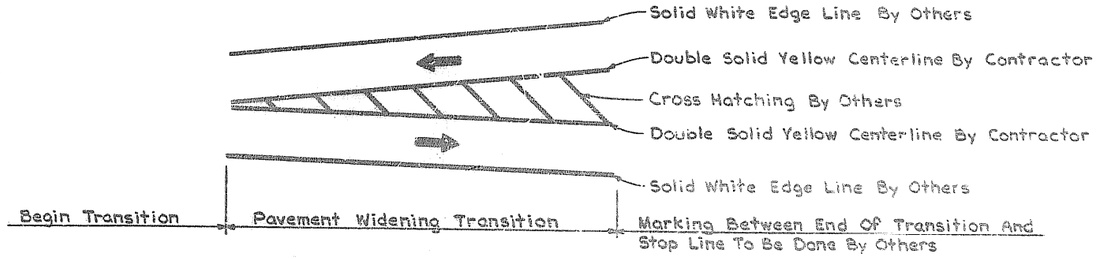
Pavement Marking Beyond The Limits Specified On The 2B Sheet Will Be Provided By Others Unless Directed By The Engineer.



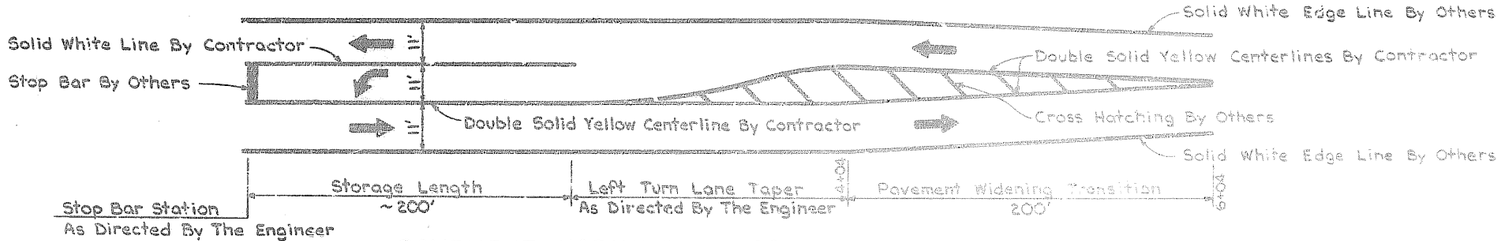
TWO LANE PAVEMENT MARKING



TWO WAY CENTER LEFT TURN LANE PAVEMENT MARKING



PAVEMENT MARKING FOR TAPERS ON ROUTE 61



PAVEMENT MARKING ON ROUTE M

PAVEMENT MARKING DETAILS

Type I Preformed Marking Tape

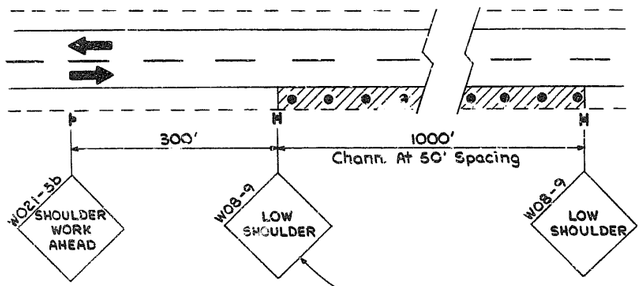
Drawings Not To Scale Follow Dimensions

TRAFFIC CONTROL AND PAVEMENT MARKING PLAN
SPECIAL SHEET NO. 8

FINAL PLAN

STATE MO.	JOB NO S-P-61-888	SHEET NO 18
DIST NO 10	PROJECT NO FS-995(9) COUNTY STE. GENEVIEVE	ROUTE 61

FINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

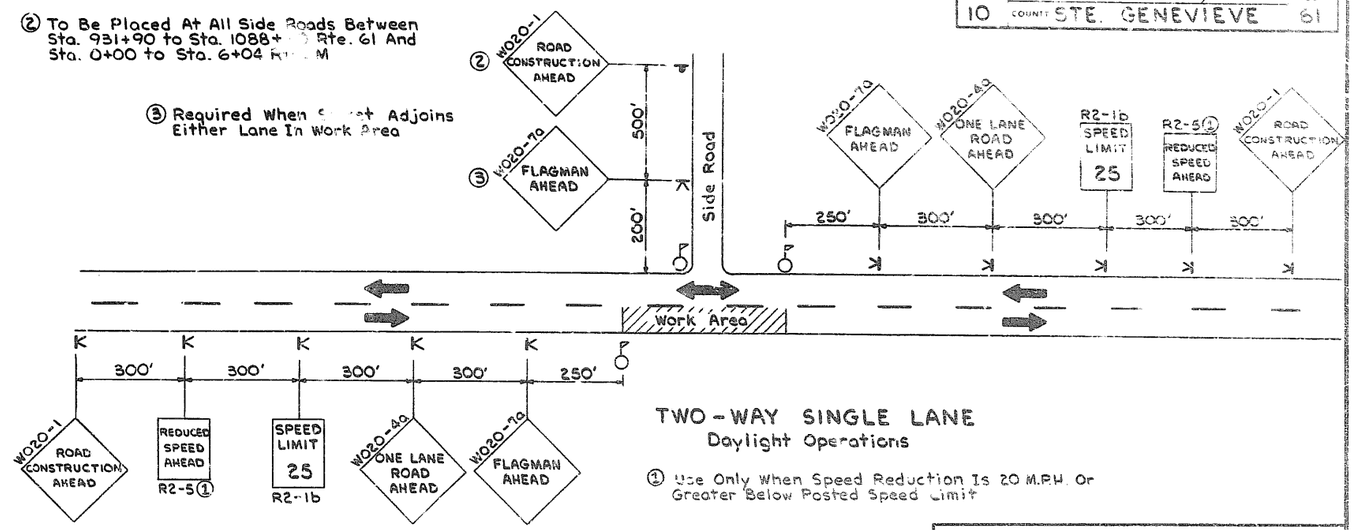


LOW SHOULDER
Two-Way Traffic

This Sign Is Used When The Elevation Between Pavement And Shoulder Is 2 To 4 Inches. Working Hours And Non-Working Hours.

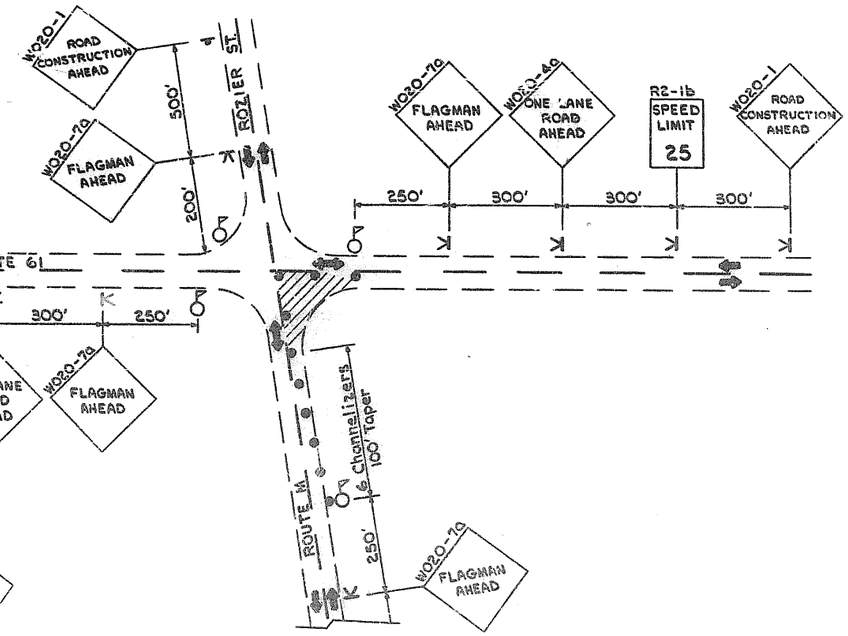
② To Be Placed At All Side Roads Between Sta. 931+90 to Sta. 1088+ Rte. 61 And Sta. 0+00 to Sta. 6+04 Rte. M

③ Required When Shoulder Adjoins Either Lane In Work Area

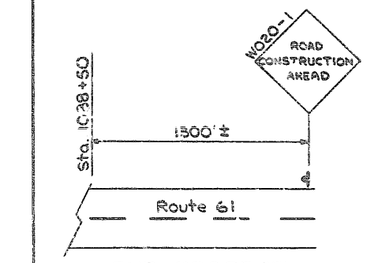


TWO-WAY SINGLE LANE
Daylight Operations

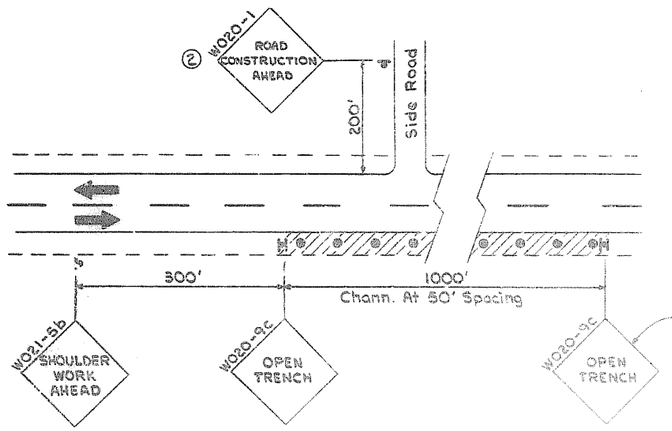
① Use Only When Speed Reduction Is 20 M.P.H. Or Greater Below Posted Speed Limit



PLAN FOR INTERSECTION RTE. 61 AND RTE. M

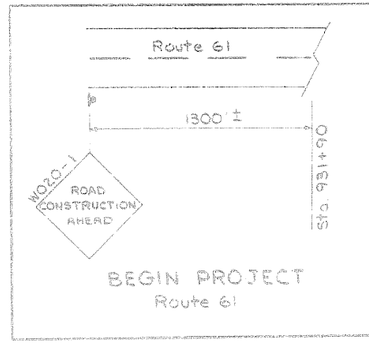


END PROJECT
Route 61



This Sign Is Used When The Elevation Between Pavement And Shoulder Is Greater Than 4 Inches. Working Hours And Non-Working Hours.

OPEN TRENCH
Two-Way Traffic



BEGIN PROJECT
Route 61

— LEGEND —
- Non-Portable Sign
- Portable Sign
- Flagman
- Channelizer, Spacing = Posted Speed Limit Unless Otherwise Noted

TRAFFIC CONTROL PLAN
SPECIAL SHEET NO. 2

ORIGINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

Drawing Not To Scale; Follow Dimensions

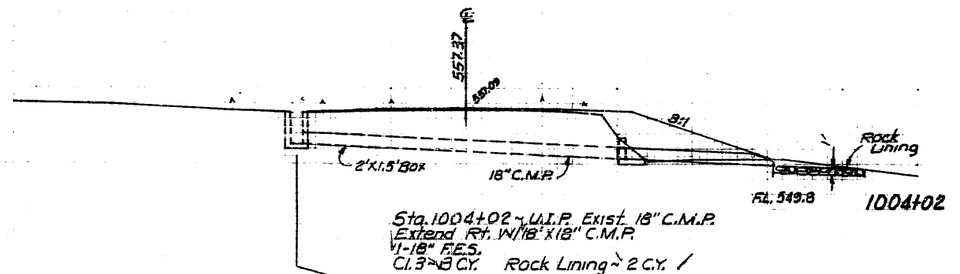
FINAL PLANS

STATE	JOB NO.	
MO	6-P-61-888	19
DIST NO	PROJECT NO.	
10	RS-785(5)	61
	COUNTY STE GENEVIEVE	

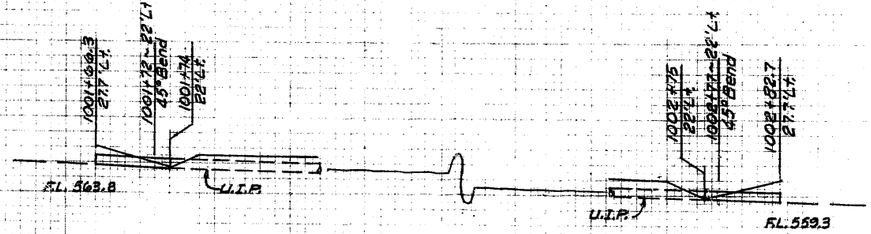
FINAL SURVEY — NOTE BOOK NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

ORIGINAL SURVEY — NOTE BOOK NO. 311 — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

10'

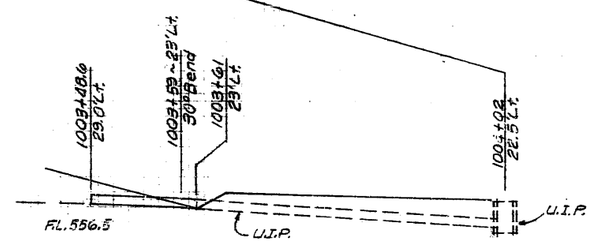


Sta. 1004+02 ~ U.I.P. Exist. 18" C.M.P.
Extend Rt. W/18' x 18" C.M.P.
1-18" F.E.S.
Cl. 3 ~ 8 C.Y. Rock Lining ~ 2 C.Y.



Sta. 1001+66.3 ~ 27.7' Lt. to Sta. 1001+74 ~ 22' Lt.
10' X 15" C.M.P., Incl. 1-45° Bend
Cl. 3 ~ 2 C.Y.

Sta. 1002+75 ~ 22' Lt. to Sta. 1002+82.7 ~ 27.7' Lt.
10' X 15" C.M.P., Incl. 1-45° Bend
Cl. 3 ~ 3 C.Y.



Sta. 1003+48.6 ~ 29.0' Lt. to Sta. 1003+61 ~ 23' Lt.
14' X 15" C.M.P., Incl. 1-30° Bend
Cl. 5 ~ 3 C.Y.

CULVERT SHEET
Sheet 1 of 4

FINAL PLANS

Survey ℄ 516.07 — 1046+48.3 24.5'Rt. — El. 515.38 — **1046+48.3**

Sta. 1046+48.3~24.5'Rt. Type D
2'x2' Precast D.I., D=3'-6"
Grates & Bearing Plates
1-12" Pipe Open.
Cl.3~3 C.Y.

Survey ℄ 516.73 — 1046+30.0 35.0'Rt. — F.L. 515.32 — **1046+30.0** — F.L. 511.90

Sta 1046+30.0~35.0'Rt. Type E
3'X2' Precast D.I., D=4'9"
1-12" Pipe Open.
Cl.3~7 C.Y.

Sta 1046+30.0~27.5'Rt. to 34.0'Rt
7'x12" Cl. III R.C.P.
Cl.3~1 C.Y.

1046+00 27.5'Rt. — +30.0 27.5'Rt. — +48.3 27.5'Rt.

Sta. 1046+48.3~25.5'Rt. to 27.5'Rt.
2'X12" Cl. III R.C.P.
Cl.3~0 C.Y.

Survey ℄ 516.45 — 1047+10.0 35.0'Rt. — F.L. 515.17 — F.L. 514.00 — F.L. 513.90 — **1047+10.0**

Sta. 1047+10.0~35.0'Rt. Type E
3'X2' Precast D.I., D=2'-6"
1-12" Pipe Open.
Cl.3~3 C.Y.

1047+10.0 27.5'Rt. — Top El. 516.54 — F.L. 511.04 — F.L. 510.54

Sta 1047+10.0~20.0'Rt. to 34.0'Rt
5'X12" Cl. III R.C.P.
Cl.3~1 C.Y.

18" R.C.P.

Sta. 1047+10.0~27.5'Rt., Type T
3'X2.5' Precast D.I., D=6'-0"
Type 3 Manhole Frame & Cover
1-12", 1-18" & 1-24" Pipe Open.
Cl.3~8 C.Y.

Sta. 1047+11.25~27.5'Rt. to Sta. 1047+81.7~35.0'Rt.
71'x24" Cl. III R.C.P.
Cl.3~77 C.Y.

24" R.C.P.

1047+83.2 35.0'Rt. — El. 515.75 — F.L. 510.00

Sta. 1047+83.2~35.0'Rt. Type E
3'x2'6" Precast D.I., D=5'-9"
Type 3 Manhole Frame & Cover
2-24" Pipe Open.
Cl.3~9 C.Y.

Sta. 1047+84.7~35.0'Rt. to Sta 1048+58 ~35.0'Rt
74'x24" Cl. III R.C.P.
Cl.3~84 C.Y.

24" R.C.P.

1048+59.5 35.0'Rt. — El. 515.70 — F.L. 509.45

Sta. 1048+59.5~35.0'Rt. Type T
3'x2'6" Precast D.I., D=6'-3"
Type 3 Manhole Frame & Cover
2-24" Pipe Open. Cl.3~10 C.Y.

24" R.C.P.

Survey ℄ 517.92 — 1043+00 24.5'Rt. — El. 516.55 — **1043+00.0** — F.L. 514.05

Sta. 1043+00~24.5'Rt. Type D
2'x2' Precast D.I., D=2'6"
Grates & Bearing Plates
1-12" Pipe Open.
Cl.3~3 C.Y.

Sta. 1043+00~25.5'Rt. to 27.5'Rt
2'X12" Cl. III R.C.P.
Cl.3~0 C.Y.

1043+00 27.5'Rt.

Survey ℄ 517.53 — 1043+95.6 35.0'Rt. — El. 517.30 — **1043+95.6** — F.L. 513.30

Sta. 1043+95.6~35.0'Rt. Type T
3'x2'6" Precast D.I., D=4'-0"
Type 3 Manhole Frame & Cover
1-12" Pipe Opening Cl.3~4.7 C.Y.

1043+95.6 27.5'Rt. — +95.6 27.5'Rt.

Sta 1043+95.6~27.5'Rt. to 33.75 Rt.
7'x12" Cl. III R.C.P.
Cl.3~2 C.Y.

Survey ℄ 517.24 — 1044+75.2 24.5'Rt. — El. 516.92 — **1044+75.2** — F.L. 512.92

Sta. 1044+75.2~24.5'Rt. Type D
2'x2' Precast D.I., D=3'-0"
Grates & Bearing Plates, Curb Inlet
1-12" Pipe Open.
Cl.3~4 C.Y.

Sta. 1044+75.2~25.5'Rt. to 27.5'Rt
2'x12" Cl. III R.C.P.
Cl.3~0 C.Y.

+75.2 27.5'Rt. — +25.0 24.5'Rt.

Survey ℄ 517.09 — 1045+25.0 35.0'Rt. — El. 515.47 — **1045+25.0** — F.L. 512.55

Sta 1045+25.0~35.0'Rt. Type E
3'x2' Precast D.I., D=4'-3"
1-12" Pipe Open.
Cl.3~6 C.Y.

Sta. 1045+25.0~27.5'Rt. to 34.0'Rt
7'x12" Cl. III R.C.P.
Cl.3~4 C.Y.

18" R.C.P.

Sta. 1041+48.45~27.5'Rt. to Sta. 1047+08.75~27.5'Rt
1501'X18" Cl. III R.C.P., Incl. 7-12" Tees
Cl.3~344 C.Y.

1040+00 27.5'Rt.

Survey ℄ 518.53 — 1042+08.0 35.0'Rt. — Gutter F.L. 516.75 — Type A Gutter — F.L. 514.58

Sta. 1042+05~35.0'Rt. Type E
3'x2' Precast D.I., D=3'-3"
1-12" Pipe Open. Square Spillway (3"x3")
Cl.3~5 C.Y.

Sta. 1042+08~27.5'Rt. to 34.0'Rt.
7'x12" Cl. III R.C.P.
Cl.3~4 C.Y.

1042+08 27.5'Rt.

1040+00 27.5'Rt. — 1041+42.2 27.5'Rt. — El. 519.36 — 15" R.C.P. — F.L. 514.86 — F.L. 514.61 — 18" R.C.P.

Sta. 1041+47.2~27.5'Rt. Type T
3'X2.5' Precast D.I., D=4'-9"
Type 3 Manhole Frame & Cover
1-12" & 1-18" Pipe Open.
Cl.3~8 C.Y.

1037+75 37.5'Rt. — F.L. 524.10 — 15" R.C.P.

Sta 1037+75~37.5'Rt. to Sta. 1041+45.95~27.5'Rt
311'X15" Cl. III R.C.P., 4-15" F.E.S
Cl.3~101 C.Y.

Lid — 1'-3" — 3" — Lid — 3" — Type A Gutter — Gutter F.L. — ½" Expansion Mat'l. — Match End of Gutter with Inside wall.

View on Opening Side of Type E Inlet with Square Spillway Modification.

Side View of Type E Inlet with Square Opening & Placement of Gutter There-in.

SPECIAL INLET DETAILS

Type E Inlet with Square Opening & Insertion Details for Type A Gutter.
(No Direct Payment)

FINAL PLANS
6-P-64-5
P.I. 705(5)
Sta Gene. 6+6

10

Survey ℄ 526.08
1059+10.0 35.0' Rt. Type A Gutter
1059+10.0

1058+00 35.0' Rt.
1059+10.0 35.0' Rt.
F.L. 524.12
15" R.C.P.
F.L. 522.45
Sta 1057+33.5 ~ 35.0' Rt. to Sta. 1059+08.5 ~ 35.0' Rt.
175' x 15" Cl. III R.C.P.
Cl. B ~ 41.8 C.Y.

Survey ℄ 525.16 Constr. ℄
Sta. 1059+10.0 ~ 35.0' Rt. Type E
3' x 2' Precast D.I., D=3'-3"
1-15" Pipe Open, Square Spillway (3' x 1'3")
Cl. B ~ 5 C.Y.

+28.9 ~ 56.1' 30° Bend
1056+27.2 58.9' Rt.
Top El. 524.16
1056+28.9
F.L. 520.66
Sta. 1056+28.9 ~ 33.1' Rt. to Sta. 1056+27.9 ~ 57.8' Rt.
25' x 12" Cl. III R.C.P., Incl. 1-30° Bend
Cl. B ~ 12 C.Y.

Sta. 1056+27.2 ~ 58.9' Rt. Type T
3' x 2.5' Precast D.I., D=3'-6"
Type 3 Manhole Frame & Cover
1-12" Pipe Open.
Cl. B ~ 8 C.Y.

1055+00 30.7' Rt.
+28.9 33.1' Rt.
1057+32.0 35.0' Rt.
El. 525.40
F.L. 520.90
15" R.C.P.
1058+00 35.0' Rt.
15" R.C.P.

Sta. 1053+93.25 ~ 28.7' Rt. to Sta 1057+30.5 ~ 35.0' Rt.
338' x 15" Cl. III R.C.P., Incl. 1-12" Tee
Cl. B ~ 157 C.Y.

Sta 1057+32.0 ~ 35.0' Rt. Type E
3' x 2'6" Precast D.I., D=3'-6"
Type 3 Manhole Frame & Cover
2-15" Pipe Openings
Cl. B ~ 7 C.Y.

Survey ℄ 521.16
1053+20.5 35.0' Rt.
El. 520.30
1053+20.5
F.L. 517.05
Sta 1053+20.5 ~ 28.7' Rt. to 33.75' Rt.
6' x 12" Cl. III R.C.P.
Cl. B ~ 0 C.Y.

Sta. 1053+20.5 ~ 35.0' Rt. Type E
3' x 2'6" Precast D.I., D=3'-3"
Type 3 Manhole Frame & Cover
1-12" Pipe Open.
Cl. B ~ 6 C.Y.

1054+00 28.1' Rt.
+20.5 28.5' Rt.
1053+92.0 28.7' Rt.
Top El. 522.14
18" R.C.P.
F.L. 517.89
F.L. 518.14
15" R.C.P.
1055+00 30.7' Rt.

Sta. 1053+92.0 ~ 28.7' Rt. Type T
3' x 2.5' Precast D.I., D=2'-3"
Type 3 Manhole Frame & Cover
1-18" & 1-15" Pipe Open.
Cl. B ~ 3 C.Y.

Survey ℄ 517.22
1050+20.0 27.5' Rt.
F.L. 515.17
1050+20.0
F.L. 513.85
F.L. 514.00
Sta 1050+20.0 ~ 35.0' Rt. Type E
3' x 2' Precast D.I., D=2'-9"
1-18" Pipe Open.
Cl. B ~ 1 C.Y.

1049+30.9 34.0' Rt.
1049+60 34.4' Rt.
F.L. 514.20 Std Spillway
F.L. 513.95 Sq. Spillway
F.L. 509.03
F.L. 508.53 Type A Gutter
24" R.C.P.
Top of Box El. 508.78
18" R.C.P.
Sta 1050+20.0 ~ 2½.0' Rt. to 34.0' Rt.
5' x 12" Cl. III R.C.P.
Cl. B ~ 0 C.Y.

1050+20.0 27.5' Rt.
Top El. 517.29
F.L. 511.29
Sta. 1048+60 ~ 35.0' Rt. to Sta. 1049+29.4 ~ 34.0' Rt.
69' x 24" Cl. III R.C.P.
Cl. B ~ 71 C.Y.

Sta. 1049+32.4 ~ 34.0' Rt. to Sta. 1050+18.75 ~ 27.5' Rt.
87' x 18" Cl. III R.C.P.
Cl. B ~ 80 C.Y.

Sta. 1050+20.0 ~ 27.5' Rt., Type T
3' x 2.5' Precast D.I., D='6'-0"
Type 3 Manhole Frame & Cover
2-18", 1-12" Pipe Open.
Cl. B ~ 5 C.Y.

1054+00 28.1' Rt.
1053+92.0 28.7' Rt.
1055+00 30.7' Rt.
Top El. 522.14
18" R.C.P.
F.L. 517.89
F.L. 518.14
15" R.C.P.

Sta. 1053+92.0 ~ 28.7' Rt. Type T
3' x 2.5' Precast D.I., D='4'-3"
Type 3 Manhole Frame & Cover
1-18" & 1-15" Pipe Open.
Cl. B ~ 3 C.Y.

1049+60 34.4' Rt.
1049+30.9 34.0' Rt.
1050+20.0 27.5' Rt.
Top El. 517.29
F.L. 511.29
15" R.C.P.
Sta. 1050+[illegible]
370' x 18" [illegible] R.C.P.
Cl. B ~ 127 C.Y.

Exist. 6'x6' Box Culv.
24" R.C.P.
18" R.C.P.
3'x3' D.I.
Sta. 1049+30.9 ~ 34' Rt.
U.I.P. 3'x3' Hole in top of Exist. Box Culv.
PLAN

Sta. 1049+30.9 ~ 34.0' Rt. Type E
3'x3' Cast-in-Place D.I. D='6'-9"
1-Standard Spillway & 1-Square Spillway (3' x 1'3")
1-24" & 1-18" Pipe Open., Type A Cover
Cl. B ~ 9 C.Y.

FINAL SURVEY
ORIGINAL SURVEY
DATE
BY

FINAL PLANS

0-F-S-882
RS 785(5)
10 STE. GENEVIEVE 61
ROUTE M

10'

FINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
MEAN CHECKED
BY
DATE

ORIGINAL SURVEY NOTE BOOK
SURVEYED
PLOTTED
TEMPLATE
AREAS
MEAN CHECKED
BY
DATE

4+85
20.0 Lt.

5+44.5
24 Lt.

F.L. 514.50

15" R.C.P.

F.L. 513.7

Sta 4+86.5-20.0' Lt. to Sta 5+44.5-24' Lt.
98' 15" Cl. III R.C.P. Y-15" F.E.S.
Cl. B-163 C.Y.

1+97
19.5' Lt.

2.54'

0.80'

F.L. 522.17

F.L. 521.00

1+97

Sta. 1+97-19.5' Lt. Type E
3'X2' Precast D.I., D=5'-6"
1-15" Pipe Open.
Cl. B-5 C.Y.

2+83
19.5' Lt.

F.L. 522.92

F.L. 519.50

2+83

2.24'

1.15'

5'-6"

Sta. 2+83-19.5' Lt. Type E
3'X2' Precast D.I., D=4'-9"
2-15" Pipe Open.
Cl. B-6 C.Y.

3+88
19.5' Lt.

F.L. 520.75

F.L. 517.08

522.92

1.38'

3+88

Sta 3+88-19.5' Lt. Type E
3'X2' Precast D.I., D=5'-0"
2-15" Pipe Open.
Cl. B-6 C.Y.

4+85
20.0 Lt.

F.L. 517.92

F.L. 514.50

520.15

1.27'

56.5°

4+85

Sta. 4+85-20.0' Lt., Type E
3'X2' Precast D.I., D=4'-9"
2-15" Pipe Open.
Cl. B-6 C.Y.

15" R.C.P.

F.L. 519.50

F.L. 517.08

F.L. 514.50

Sta. 1+98.5-19.5' Lt. to Sta. 2+81.5-19.5' Lt.
83' X 15" Cl. III R.C.P.
Cl. B-46 C.Y.

Sta. 2+84.5-19.5' Lt. to Sta. 3+86.5-19.5' Lt.
102' X 15" Cl. III R.C.P.
Cl. B-70 C.Y.

Sta. 3+89.5-19.5' Lt. to Sta. 4+83.5-20.0' Lt.
94' X 15" Cl. III R.C.P.
Cl. B-67 C.Y.

FINAL PLANS

REV SEPT. 1, 1989

STATE	JOB NO. 6-P-61-888	SHEET NO.
MO		23
DIST NO.	PROJECT NO. RS-785(5)	ROUTE
10	COUNTY Ste Genevieve	61

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

STANDARD PLANS

✓	NO.	DESCRIPTION
✓	203.00E	EXCAVATION & EMBANKMENT
	203.02C	UNDERGRADING
	203.10A	TABULATED EARTHWORK & SECTION DATA
✓	203.20B	SUPERELEVATION SPIRALS & WIDENING (UNDIVIDED)
	203.21B	SUPERELEVATION SPIRALS & WIDENING (DIVIDED)
✓	203.30A	ENTRANCES & APPROACHES (LESS THAN 400 ADT)
	203.31B	ENTRANCES & APPROACHES (GREATER THAN 400 ADT - NO SAFETY ZONE)
	203.32D	ENTRANCES & APPROACHES (GREATER THAN 400 ADT - SAFETY ZONE)
	203.35A	MAILBOX TURNOUTS
	203.40E	TYPICAL DETAILS-RAMPS FOR INTERCHANGES (OTHER THAN 6:1 FORESLOPE)
	203.41E	TYPICAL DETAILS-RAMPS FOR INTERCHANGES (6:1 FORESLOPE)
	203.50J	TYPICAL CROSS-OVERS (DIVIDED HIGHWAYS)
	203.61	DRIVEWAY-TYPE I *
	203.62	DRIVEWAY-TYPE II *
	203.63	DRIVEWAY-TYPE III *
	203.64	DRIVEWAY-TYPE IV *
	203.65	DRIVEWAY-TYPE V *
	204.00D	EMBANKMENT CONTROL MEASURING DEVICES
	502.00M	CONCRETE PAVEMENT & BASE APPURTENANCES
	502.10E	DOWEL SUPPORTING UNITS
	503.00J	CONCRETE APPROACH SLABS TO BRIDGES.(ALSO INCLUDE 502.00)
	•	
	602.00A	RIGHT-OF-WAY & DRAIN MARKERS
	•	
	604.05B	PIPE CULVERT HEADWALLS - TYPE S *
	•	
	604.10B	HEADWALL-WITH ENERGY DISSIPATOR - 18"
	604.11B	HEADWALL-WITH ENERGY DISSIPATOR - 24"
	604.12B	HEADWALL-WITH ENERGY DISSIPATOR - 30"
	604.13B	HEADWALL-WITH ENERGY DISSIPATOR - 36"
	604.14B	HEADWALL-WITH ENERGY DISSIPATOR - 42"
	604.15B	HEADWALL-WITH ENERGY DISSIPATOR - 48"
	•	
	604.20B	DROP INLET - TYPE B
	604.21B	DROP INLET - TYPE C
	604.22B	DROP INLET - TYPE D
✓	604.23B	DROP INLET - TYPE E
	604.24B	DROP INLET - TYPE EE
	604.25C	DROP INLET - TYPE F *
	604.26D	DROP INLET - TYPE G *
	604.27C	DROP INLET - TYPE S (3 SHEETS)
	604.28E	DROP INLET - TYPE T (ALSO INCLUDE 614.30) *
	604.29C	DROP INLET - TYPE X
	604.30F	CONCRETE MANHOLES (ALSO INCLUDE 614.30)
	604.40E	PIPE COLLARS
	•	
	605.10A	CLASS A UNDERDRAINS
	606.00T	GUARD RAIL (2 SHEETS)
	606.20H	BRIDGE ANCHOR SECTION (BRUSH CUR3)(ALSO INCLUDE 606.00) *
	606.21G	BRIDGE ANCHOR SECTION-CURB TYPE (ALSO INCLUDE 606.00) *
	606.22E	BRIDGE ANCHOR SECTION (SAFETY BARRIER CURB)(ALSO INCLUDE 606.00) *
	606.30E	TERMINAL SECTION (ALSO INCLUDE 606.00)
	606.40A	GUARD CABLE
	607.10R	CHAIN LINK FENCE *
	607.11B	CHAIN LINK FENCE FOR RETAINING WALLS
	607.20F	WOVEN WIRE FENCE (ALSO INCLUDE 607.10)

✓	NO.	DESCRIPTION
✓	608.00C	PAVED APPROACHES
	608.10G	CONCRETE SIDEWALK & WHEELCHAIR RAMPS
	608.20C	CONCRETE STEPS
✓	609.00G	CONCRETE CURB - CURB & GUTTER - GUTTER
	609.15A	PAVED DITCHES
	609.40D	DRAIN BASIN, SHOULDER PAVING & FILL SLOPE AT BRIDGE ENDS
✓	609.60A	DITCH LINER
✓	609.70C	ROCK LINING FOR CULVERT OUTLETS
	610.20E	BRICK MANHOLES (ALSO INCLUDE 614.30)
	611.60L	CONCRETE SLOPE PROTECTION
	612.10K	BARRICADES AND FLASHER SIGNS
	613.00A	PAVEMENT REPAIR *
✓	614.10N	CURB INLETS, GRATES & BEARING PLATES
✓	614.30D	MANHOLE FRAMES & COVERS
	615.00A	OFFICE FOR ENGINEER
✓	616.10K	TRAFFIC CONTROL DEVICES (3 SHEETS)(ALSO INCLUDE 903.01) *
	617.00V	CONCRETE TRAFFIC BARRIER (3 SHEETS)
	702.01F	16" CONCRETE PILES (APPROVED TYPES)(2 SHEETS) *
	702.02B	CAST-IN-PLACE CONCRETE PILES (APPROVED TYPES)
	703.20D	CONCRETE BOX CULVERTS, H20 LOADING (3 SHTS)(INCL 706.35)
	703.21D	CONCRETE BOX CULVERTS, H20 LOADING (3 SHEETS)(FLARED WINGS)(INCL 706.35)
	703.24E	CONCRETE BOX CULVERTS, SKEW DATA (703.20 & 703.30)(INCL 706.35) *
	703.25E	CONCRETE BOX CULVERTS, SKEW DATA (703.21)(3 SHTS)(FLRD WINGS)(INCL 706.35) *
	703.30E	CONCRETE BOX CULVERTS, 4' SPANS & LESS-ALL LOADING (INCL 706.35) *
	703.35B	CONCRETE BOX CULVERTS, CUTTING DETAILS (STRAIGHT WINGS) (INCL 706.35)
	703.36A	CONCRETE BOX CULVERTS, CUTTING DETAILS (FLARED WINGS) (INCL 706.35)
	703.50G	CONCRETE DOUBLE BOX STRUCTURE-SQUARE (INCL 706.35) *
	703.51F	CONCRETE DOUBLE BOX STRUCTURE-SKEWED (INCL 706.35) *
	703.52C	CONCRETE DOUBLE BOX STRUCTURE-CUT SECTIONS (INCL 706.35)*
	703.54D	DOUBLE BOX STRUCTURE REINFORCEMENT-H20 OR HS20 LOADING (8 SHEETS)
	703.55D	CONCRETE DOUBLE BOX STRUCTURE (FLARED WINGS) SQUARE (INCL 706.35) *
	703.56D	CONCRETE DOUBLE BOX STRUCTURE (FLARED WINGS) SKEWED (INCL 706.35) *
	703.60C	CONCRETE BOX STRUCTURE-PIPE INLET
	703.70C	CONCRETE TRIPLE BOX STRUCTURE-SQUARE (2 SHEETS) (INCL 706.35) *
	703.71C	CONCRETE TRIPLE BOX STRUCTURE-SKEWED (2 SHEETS) (INCL 706.35) *
	703.72C	CONCRETE TRIPLE BOX STRUCTURE-(FLARED WINGS)(SQUARE) • (2 SHEETS)(INCL 706.35) *
	703.73C	CONCRETE TRIPLE BOX STRUCTURE-(FLARED WINGS)(SKEWED) (2 SHEETS)(INCL 706.35) *
	703.74C	CONCRETE TRIPLE BOX STRUCTURE-CUT SECTIONS (INCL 706.35) *
	703.76B	CONCRETE TRIPLE BOX STRUCTURE REINFORCEMENT-H20 OR HS20 LOADING (5 SHEETS)
	706.30E	REINFORCING BAR SUPPORTS
	706.35E	BAR SUPPORTS FOR CONCRETE REINFORCEMENT
	712.40E	STEEL DAMS FOR BRIDGES (6" CHANNEL)
	725.31C	METAL CURTAIN WALL AND METAL INLETS
✓	726.30C	CULVERT INSTALLATION METHODS
	731.00S	PRECAST MANHOLES (ALSO INCL 614.30) *
✓	731.10H	PRECAST DROP INLETS (4 SHTS)(ALSO INCL 614.30 & 614.10) *

✓	NO.	DESCRIPTION
✓	732.00L	FLARED END SECTION (2 SHEETS)
	806.02A	STAPLE PLACEMENT FOR PLASTIC NETTING
		HIGHWAY LIGHTING
	901.00P	POLES & APPURTENANCES-30' (3 SHEETS) *
	901.01U	POLES & APPURTENANCES-45' (3 SHEETS) *
	901.05A	CONTROL PANEL CABINET DETAILS (2 SHEETS)(SEE NOTE)
	901.12C	POLE MOUNT CONT STA-SECONDARY SERV-480 V MULTI CIR (NOT METERED)
	901.15E	POLE MOUNT CONT STA-SEC SERV-120,240, & 480 V MULTI CIR
	901.16D	POLE MOUNT CONT STA-SEC SERV-480 V MULTI CIR (METERED)
	901.18D	POLE MOUNT CONT STA-SEC SERV-120/240 V MULTI CIR
	901.19D	POLE MOUNT CONT STA-SEC SERV-240 V MULTI CIR (NOT METERED)
	901.20D	POLE MOUNT CONT STA-SEC SERV-120/240 V MULTI CIR (SIG METERED)
	901.22E	POLE MOUNT CONT STA-SEC SERV-120/240 & 480 V MULTI CIR (BOTH METERED)
	901.23E	POLE MOUNT CONT STA-SEC SERV-240 V MULTI CIR (METERED)
	901.24D	POLE MOUNT CONT STA-SEC SERV-240 V MULTI CIR (LIGHTS & SIGNALS-BOTH METERED)
	901.25D	BASE MOUNT CONT STA-SEC SERV-120/240 V MULTI CIR
		NOTE: ALSO INCLUDE 901.05 WITH 901.12 THROUGH 901.25 EXCEPT 901.18
		TRAFFIC SIGNALS
	902.00E	SIGNAL HEADS, LENSES AND MOUNTING
	902.10J	PULL BOXES, CONTROLLERS, COND LOCATION
	902.15D	POWER SUPPLY ASSEMBLY
	902.21B	TELEPHONE INTERCONNECT
	902.30G	CONCRETE BASES
	902.40H	TUBULAR STEEL POST *
	902.50E	DETECTORS
	902.60E	SPAN WIRE DETAILS-STEEL POST
	902.70B	SPAN WIRE DETAILS-WOOD POLE
	902.80A	TRAFFIC SIGNAL SYMBOLS
		HIGHWAY SIGNING
✓	903.01C	ALPHABETS (2 SHEETS)
	903.02W	HIGHWAY SIGNING (7 SHEETS)
	903.03AK	SIGN MOUNTING DETAILS (5 SHEETS) *
	903.04D	WEIGH STATION SIGNING
	903.05C	TUBULAR SPAN SUPPORT-ONE TUBE, TYPE S
	903.06C	TUBULAR SPAN SUPPORT-TWO TUBE, TYPE S
	903.07C	TUBULAR CANTILEVER SUPPORTS, TYPE C
	903.08C	TUBULAR BUTTERFLY SUPPORTS, TYPE B
	903.09C	LIGHTING SUPPORT BRACKET
	903.10T	SIGN TRUSSES-OVERHEAD ALUMINUM (8 SHEETS)(INCL 903.03)
	903.12N	SIGN TRUSSES-BUTTERFLY & CANTILEVER-STEEL (7 SHEETS) (INCL 903.03)
	903.60S	SIGN TRUSSES-OVERHEAD STEEL (7 SHEETS)(INCL 903.03)

NOTES:
PLANS FOR THIS PROJECT WERE DEVELOPED USING DRAWINGS FROM THIS INDEX

* REVISED SINCE JANUARY 1988