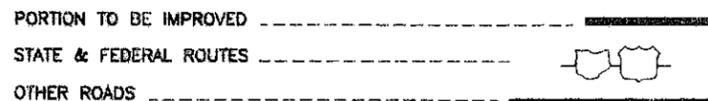


LOCATION MAP

LATITUDE: 41° 28' 20" N LONGITUDE: 81° 33' 50" W



DESIGN DESIGNATION

CURRENT ADT (2000)	19910
DESIGN YEAR ADT (2020)	20710
DESIGN HOURLY VOLUME	2071
DIRECTIONAL DISTRIBUTION	55%
TRUCKS (24 HOUR B&C)	4.0%
DESIGN SPEED	40 MPH
LEGAL SPEED	25/35 MPH

DESIGN FUNCTIONAL CLASSIFICATION:
URBAN ARTERIAL

DESIGN EXCEPTIONS

DESIGN FEATURE	APPROVAL DATE
LANE WIDTH	09-13-04
SHOULDER WIDTH	09-13-04

STATE OF OHIO CUYAHOGA COUNTY CITY OF SHAKER HEIGHTS

REHABILITATION OF LEE ROAD, PID 15396

LEE ROAD STREETScape IMPROVEMENTS, PID 75393

PROJECT DESCRIPTION

RESURFACE AND REPLACE CURBS AND DRIVE APRONS ON LEE ROAD WITHIN THE CITY LIMITS; RECONFIGURE LANE WIDTHS AND PROVIDE ON-STREET PARKING NEAR SHAKER TOWN CENTRE AND CITY HALL; REPLACE SANITARY SEWERS AT SELECT LOCATIONS.

2002 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

APPROVALS

APPROVED *Judith H. Rawson*
JUDITH H. RAWSON
MAYOR, CITY OF SHAKER HEIGHTS

DATE 11/30/04

APPROVED *William Boag*
WILLIAM BOAG
SERVICE DIRECTOR, CITY OF SHAKER HEIGHTS

DATE 11/30/04

INDEX OF SHEETS:

TITLE SHEET	1
SCHEMATIC PLAN	2
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STANDARD CONSTRUCTION DRAWINGS			
DRAWING NO.	DATE	DRAWING NO.	DATE
BP-2.1	07-16-04	TC-41.20	01-19-01
BP-2.2	07-16-04	TC-41.40	07-16-04
BP-2.5	07-28-00	TC-41.50	07-16-04
BP-3.1	07-16-04	TC-42.20	07-16-04
BP-4.1	07-16-04	TC-52.10	04-20-01
BP-5.1	07-28-00	TC-52.20	04-20-01
RM-1.1	04-18-03	TC-71.10	04-19-02
RM-4.2	04-18-03	TC-82.10	04-19-02
CB-1.1	07-19-02	MT-35.10	04-20-01
CB-2.2	07-19-02	MT-95.31	07-16-04
MH-1.2	07-19-02	MT-95.32	07-16-04
DM-1.1	07-18-03	MT-97.11	04-19-02
DM-1.2	07-19-02	MT-101.60	10-18-02
DM-1.4	07-19-02	MT-105.10	10-18-02
DM-4.4	07-19-02	MT-105.11	10-18-02

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
Call 800-362-2764 (Toll Free)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS MUST BE CALLED DIRECTLY



Roadway

POLYTECH INC.
1744 PAYNE AVENUE
CLEVELAND, OHIO 44114
(216) 696-3141
CONSULTING ENGINEERS



Streetscape

cityarchitecture
3634 Euclid Avenue
Suite 100
Cleveland, Ohio 44115
phone 216.881.2444
fax 216.881.8713
www.cityarch.com



Landscape

McKnight & Associates
LANDSCAPE ARCHITECTURE
The Orion Building #41
812 Huron Road
Cleveland, Ohio 44115
(216) 775-1881
Fax (216) 771-1881
jmk@cmvark.com



Electrical

ARCADIS FPS
ARCADIS FPS, Inc.
100 Courthouse Square
310 West Lakeside Avenue
Cleveland, Ohio 44113
Tel: 216-781-8177 Fax: 216-781-6243
www.arcadis-us.com

FEDERAL PROJECT NO.

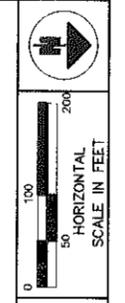
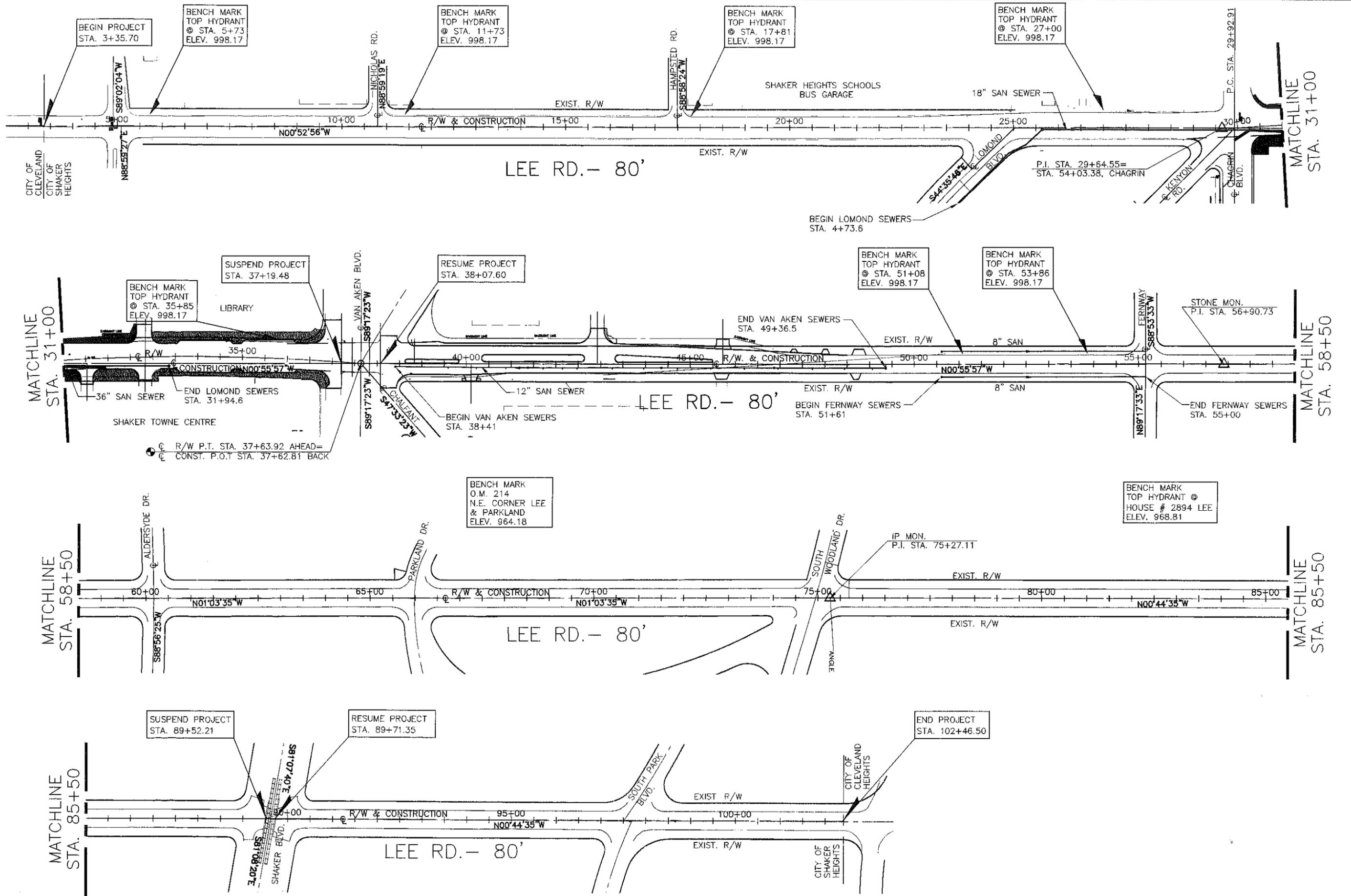
PID NO.
15396/75393

CONSTRUCTION PROJECT NO.

RAILROAD INVOLVEMENT

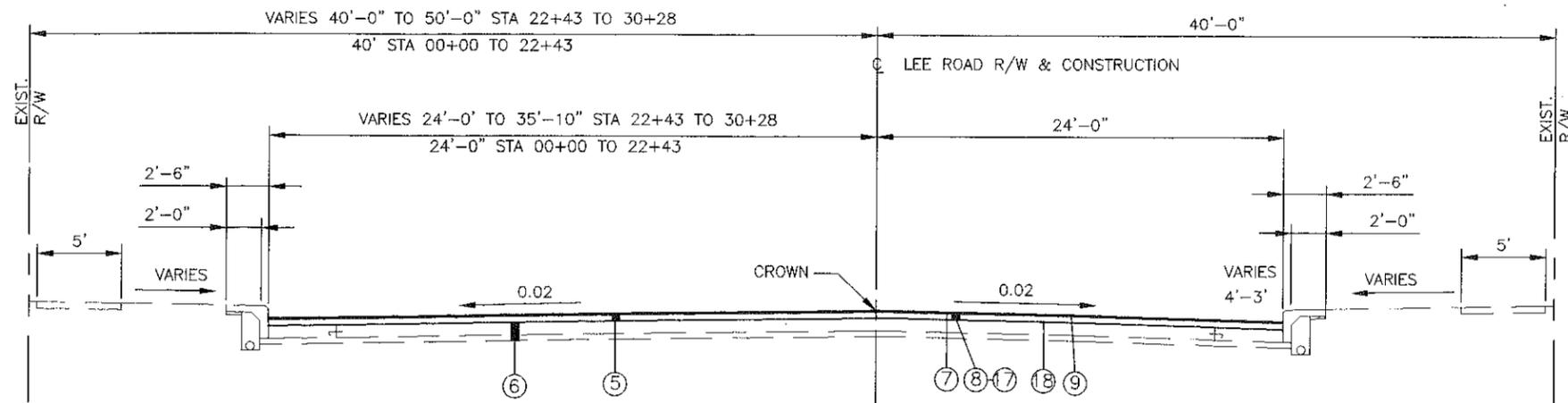
NONE

REHABILITATION OF
LEE ROAD



SCHEMATIC PLAN

REHABILITATION OF LEE ROAD

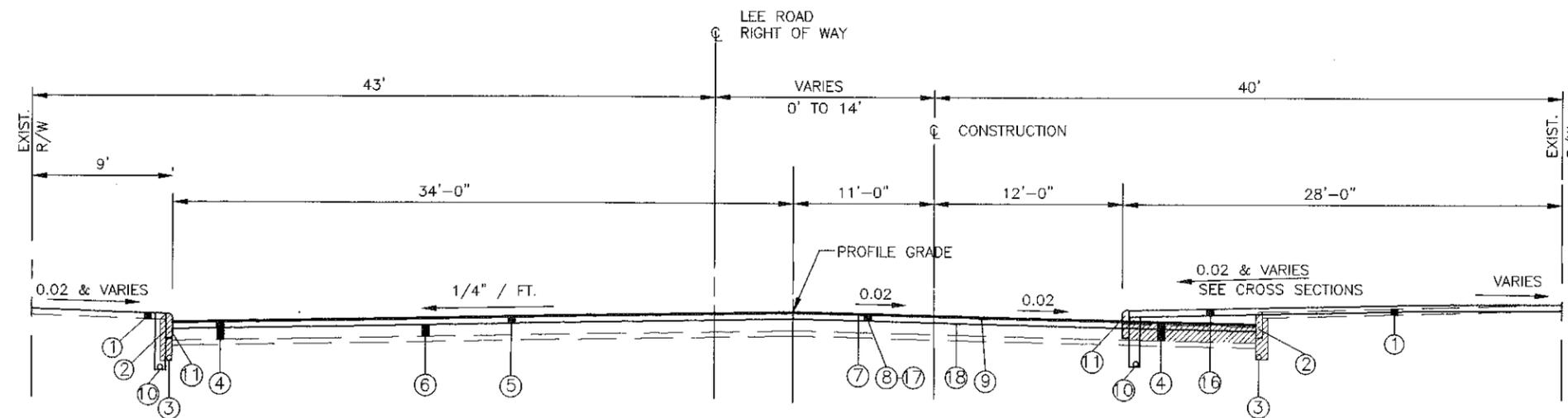


LEE ROAD-NORMAL SECTION

STA. 03+35 TO 30+31

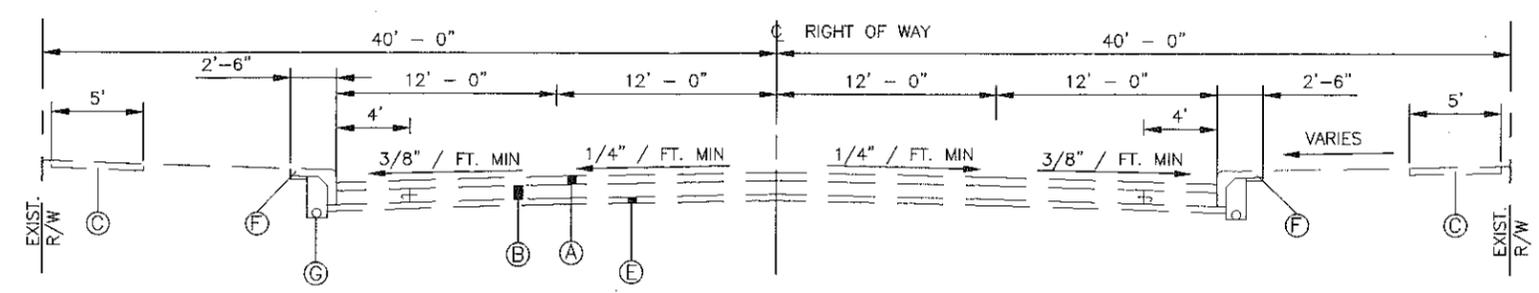
LEGEND:

- ① ITEM 202 - WALK REMOVED
- ② ITEM 202 - REMOVE STONE OR CONCRETE CURB
- ③ ITEM 202 - REMOVE 4" OR 6" UNDERDRAIN
- ④ ITEM 202 - PAVEMENT REMOVAL
- ⑤ ITEM 254 - PAVEMENT PLANING ASPHALT CONCRETE (3"- 6")
- ⑥ ITEM 255 - FULL DEPTH PAVEMENT REMOVAL & RIGID REPLACEMENT
- ⑦ ITEM 448 - 1-1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 64-22
- ⑧ ITEM 448 - 1-3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG 64-22
- ⑨ ITEM 407 - TACK COAT
- ⑩ ITEM 605 - 6" UNDERDRAIN
- ⑪ ITEM 609 - TYPE 6 CURB
- ⑫ ITEM 653 - NOT USED
- ⑬ ITEM 659 - NOT USED
- ⑭ ITEM 204 - SUBGRADE COMPACTION
- ⑮ ITEM 304 - AGGREGATE BASE, VARIABLE DEPTH MATCH EXISTING
- ⑯ ITEM 608 - 4" CONCRETE WALK
- ⑰ ITEM 448 - VARIABLE THICKNESS, TYPE 2, PG 64-22 (0"-3"±)
- ⑱ ITEM 407 - TACK FOR INTERMEDIATE COURSE

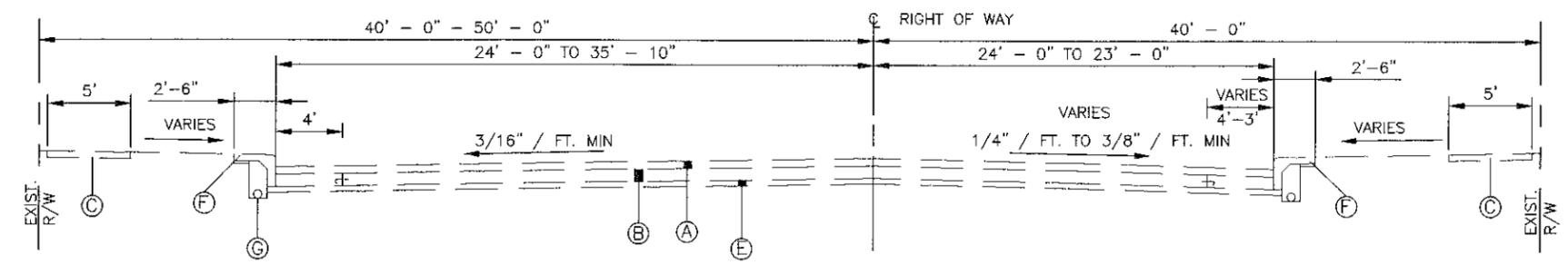


LEE ROAD-NORMAL SECTION

STA. 30+31 TO 36+93



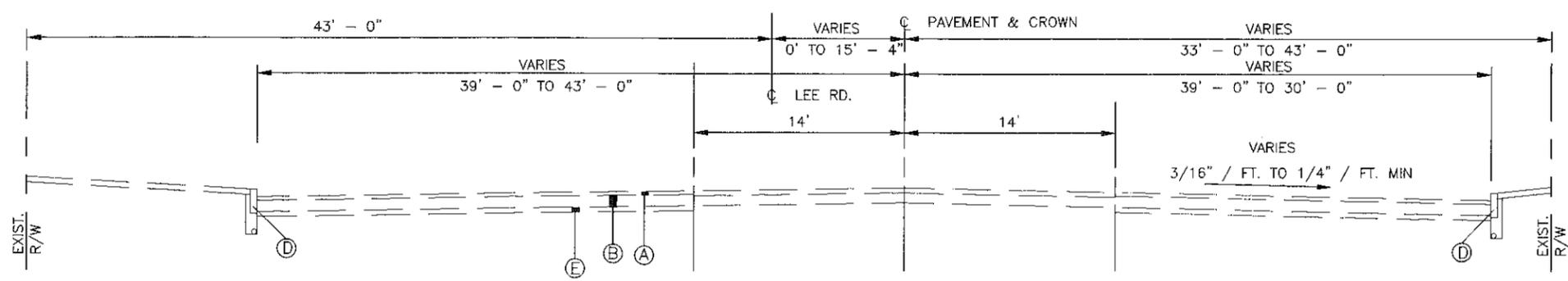
STA. 03+35 TO 22+53



STA. 22+53 TO 30+28

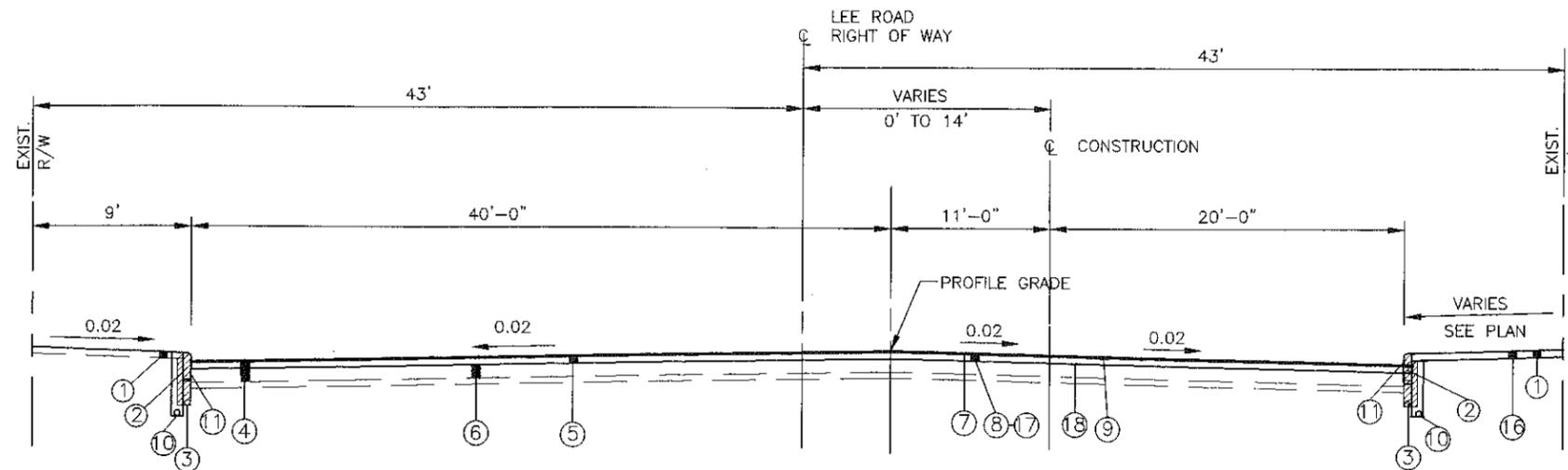
LEGEND:

- (A) ASPHALT CONCRETE (VARIES 3" TO 5")
- (B) REINFORCED CONCRETE PAVEMENT (VARIES 8" TO 12")
- (C) CONCRETE WALK
- (D) STONE OR CONCRETE CURB
- (E) AGGRAGATE BASE (VARIES 1" TO 4")
- (F) INTEGRAL CONCRETE WALK AND CURB
- (G) 4" OR 6" PIPE UNDERDRAIN



STA. 30+28 TO 37+20

EXISTING TYPICAL SECTION
LEE ROAD

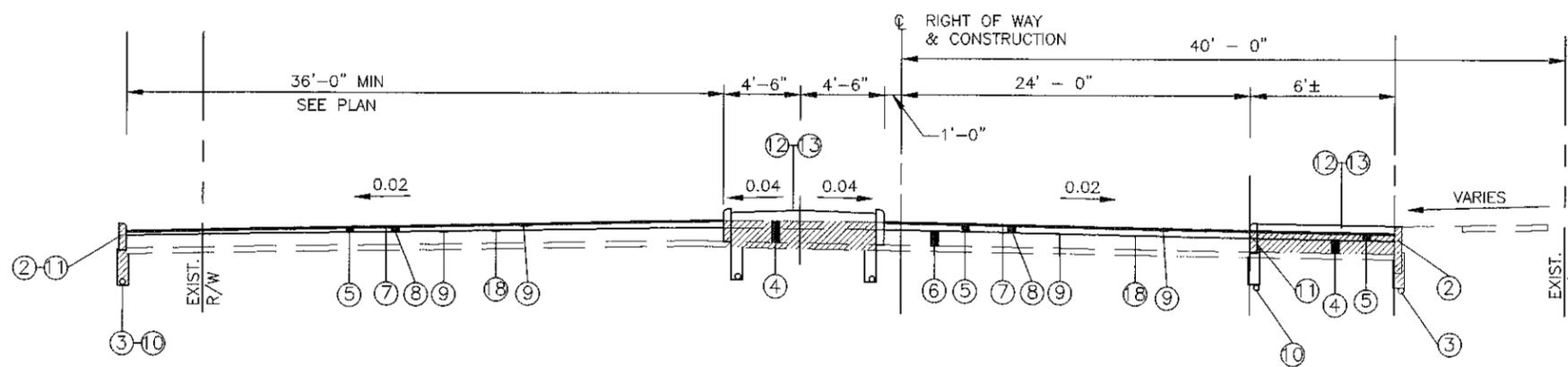


LEE ROAD-NORMAL SECTION

STA. 33+75 TO 36+93

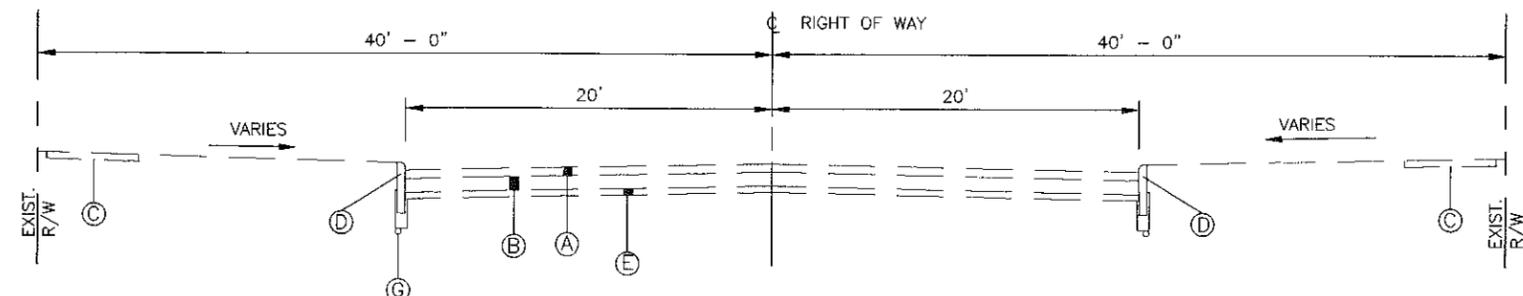
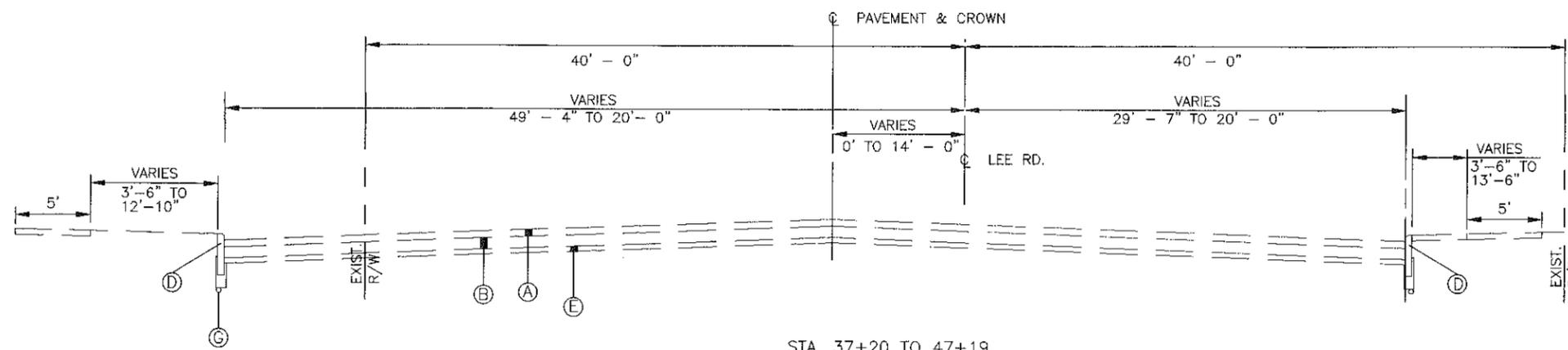
LEGEND:

- ① ITEM 202 - WALK REMOVED
- ② ITEM 202 - REMOVE STONE OR CONCRETE CURB
- ③ ITEM 202 - REMOVE 4" OR 6" UNDERDRAIN
- ④ ITEM 202 - PAVEMENT REMOVAL
- ⑤ ITEM 254 - PAVEMENT PLANING ASPHALT CONCRETE (3"- 6")
- ⑥ ITEM 255 - FULL DEPTH PAVEMENT REMOVAL & RIGID REPLACEMENT
- ⑦ ITEM 448 - 1-1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 64-22
- ⑧ ITEM 448 - 1-3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG 64-22
- ⑨ ITEM 407 - TACK COAT
- ⑩ ITEM 605 - 6" UNDERDRAIN
- ⑪ ITEM 609 - TYPE 6 CURB
- ⑫ ITEM 653 - NOT USED
- ⑬ ITEM 659 - NOT USED
- ⑭ ITEM 204 - SUBGRADE COMPACTION
- ⑮ ITEM 304 - AGGREGATE BASE, VARIABLE DEPTH MATCH EXISTING
- ⑯ ITEM 608 - 4" CONCRETE WALK
- ⑰ ITEM 448 - VARIABLE THICKNESS, TYPE 2, PG 64-22 (0"-3"±)
- ⑱ ITEM 407 - TACK FOR INTERMEDIATE COURSE



LEE ROAD-NORMAL SECTION

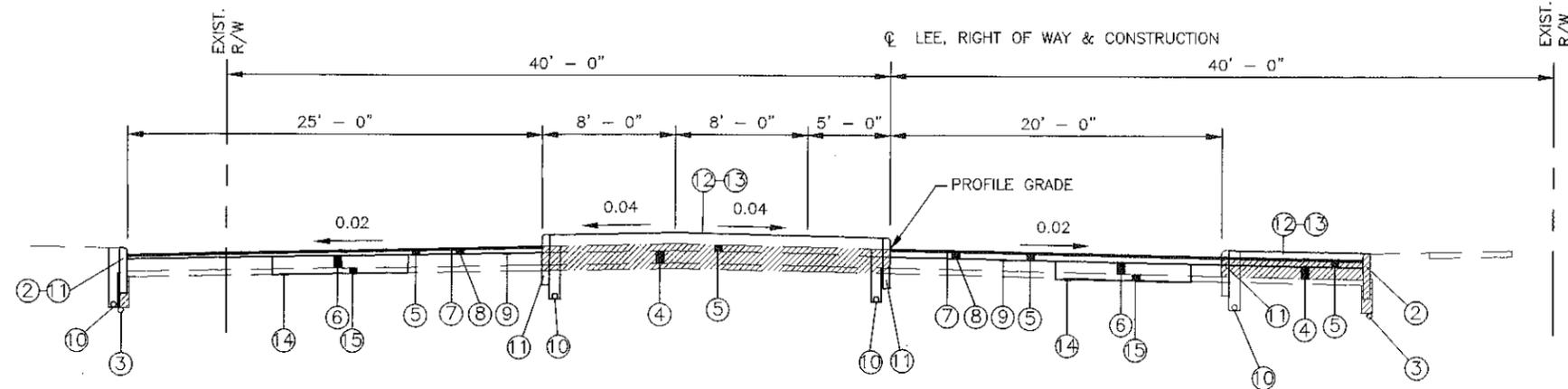
STA. 38+56 TO 40+00



EXISTING TYPICAL SECTION
LEE ROAD
STA. 47+19 TO 89+52
STA. 89+71 TO 102+46

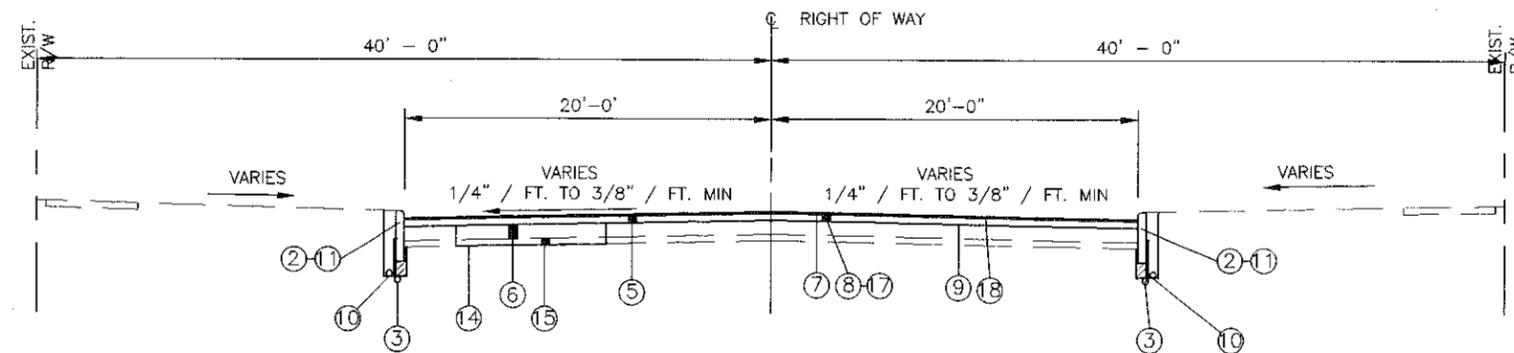
LEGEND:

- (A) ASPHALT CONCRETE (VARIES 3" TO 5")
- (B) REINFORCED CONCRETE PAVEMENT (VARIES 8" TO 12")
- (C) CONCRETE WALK
- (D) STONE OR CONCRETE CURB
- (E) AGGRAGATE BASE (VARIES 1" TO 4")
- (F) INTEGRAL CONCRETE CURB AND WALK
- (G) 4" OR 6" PIPE UNDERDRAIN



STA. 40+00 TO 45+70

NORMAL SECTION - LEE ROAD



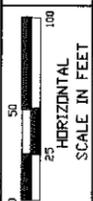
STA. 45+70 TO 89+52

STA. 89+71 TO 102+46

NORMAL SECTION - LEE ROAD

LEGEND:

- ① ITEM 202 - REMOVE INTEGRAL CONCRETE CURB AND WALK
- ② ITEM 202 - REMOVE STONE OR CONCRETE CURB
- ③ ITEM 202 - REMOVE 4" OR 6" UNDERDRAIN
- ④ ITEM 202 - FULL DEPTH PAVEMENT REMOVAL
- ⑤ ITEM 254 - PAVEMENT PLANING ASPHALT CONCRETE (3"- 6")
- ⑥ ITEM 255 - FULL DEPTH PAVEMENT REMOVAL & RIGID REPLACEMENT
- ⑦ ITEM 448 - 1-1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 64-22
- ⑧ ITEM 448 - 1-3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG 64-22
- ⑨ ITEM 407 - TACK COAT
- ⑩ ITEM 605 - 6" UNDERDRAIN
- ⑪ ITEM 609 - TYPE 6 CURB
- ⑫ ITEM 653 - TOPSOIL FURNISHED AND PLACED
- ⑬ ITEM 659 - SEEDING AND MULCHING
- ⑭ ITEM 204 - SUBGRADE COMPACTION
- ⑮ ITEM 304 - AGGREGATE BASE, VARIABLE DEPTH MATCH EXISTING
- ⑯ ITEM 608 - 4" CONCRETE WALK
- ⑰ ITEM 448 - VARIABLE THICKNESS, TYPE 2, PG 64-22 (0"-3"±)
- ⑱ ITEM 407 - TACK FOR INTERMEDIATE COURSE



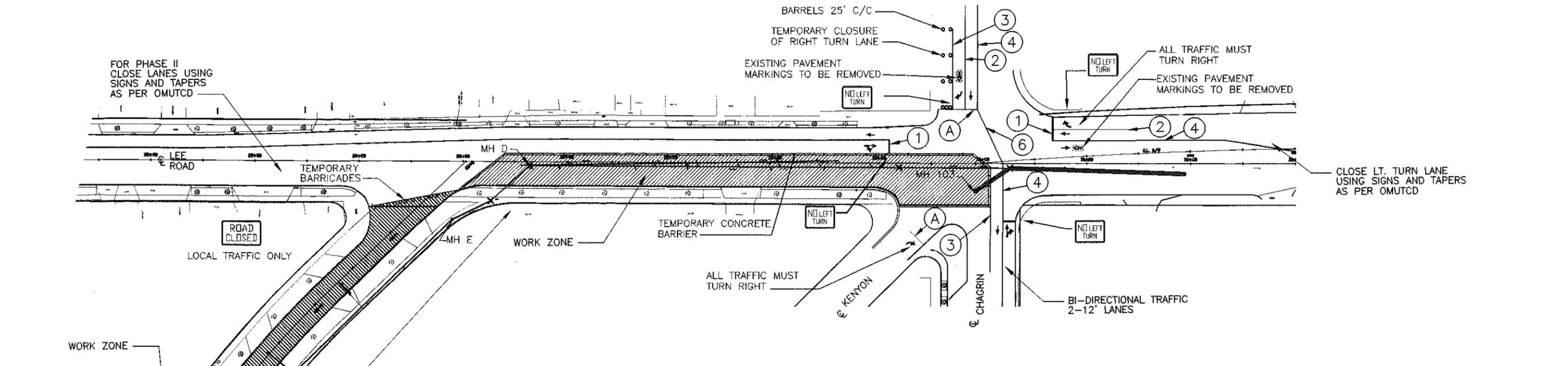
CALCULATED ASV
CHECKED EDV

**MAINTENANCE OF TRAFFIC
LOMOND BLVD. SEWER**

**REHABILITATION
OF LEE ROAD**

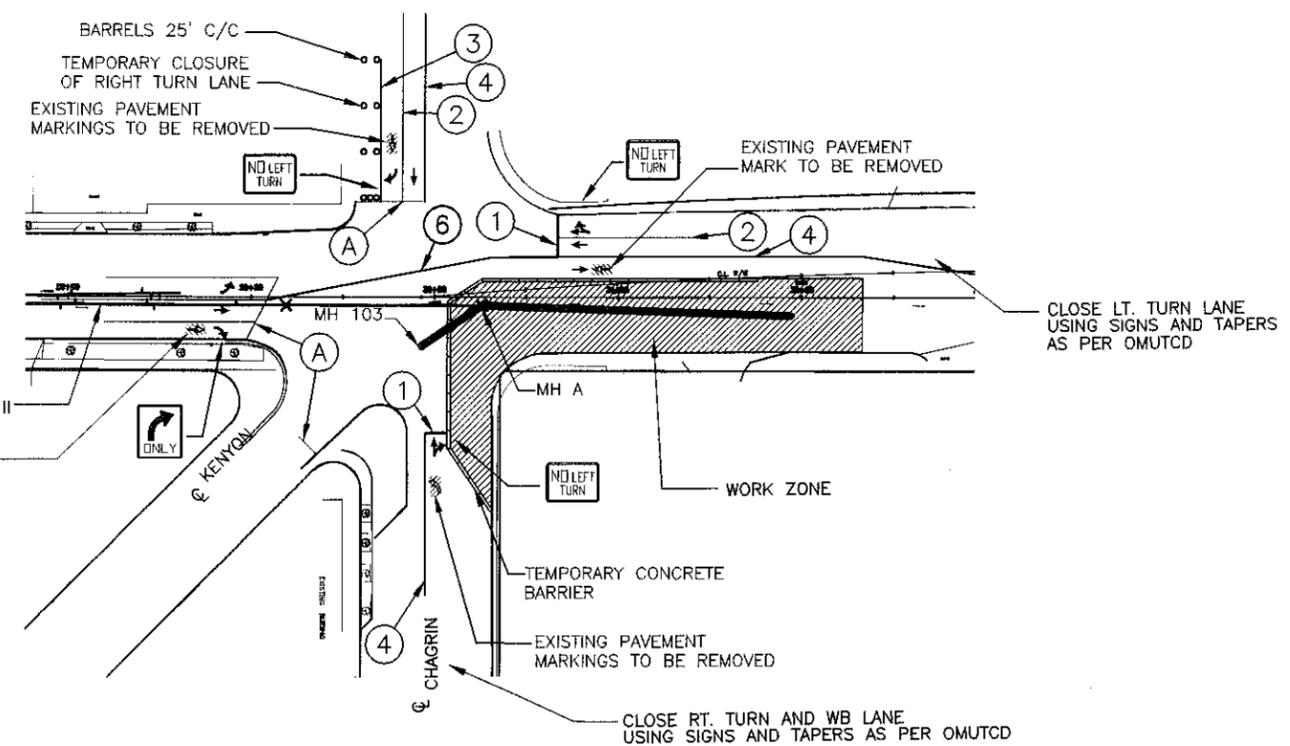
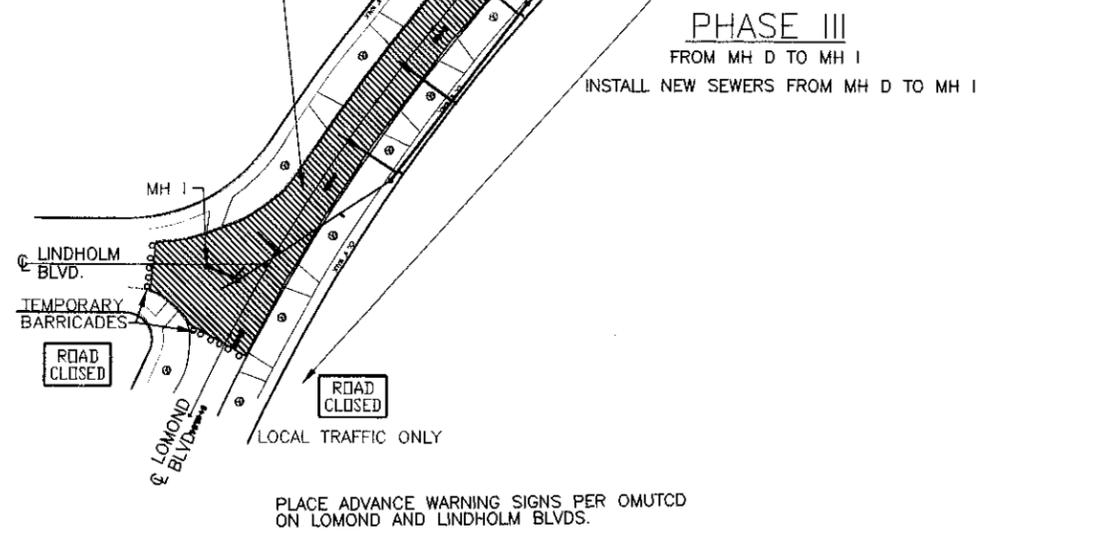
PHASE II

FROM MH A TO MH 103 AND MH D
INSTALL NEW SEWERS FROM MIDPOINT MH 103 AND MH A TO MH D



PHASE III

FROM MH D TO MH I
INSTALL NEW SEWERS FROM MH D TO MH I

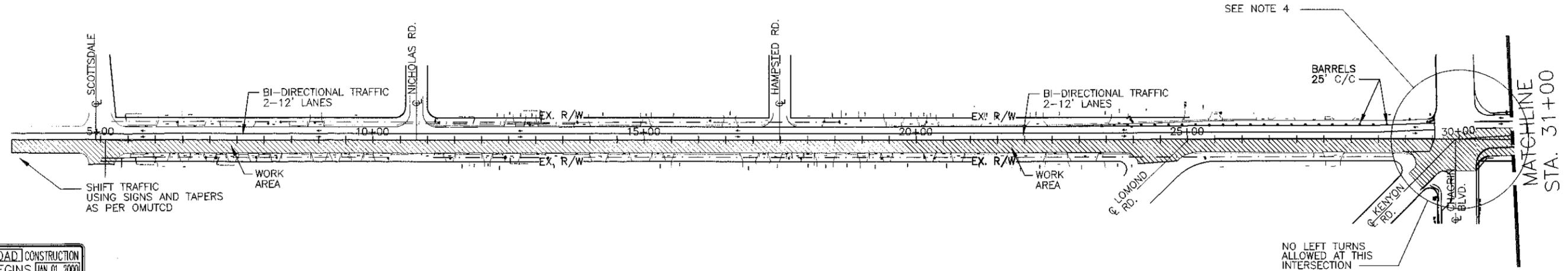


PHASE 1

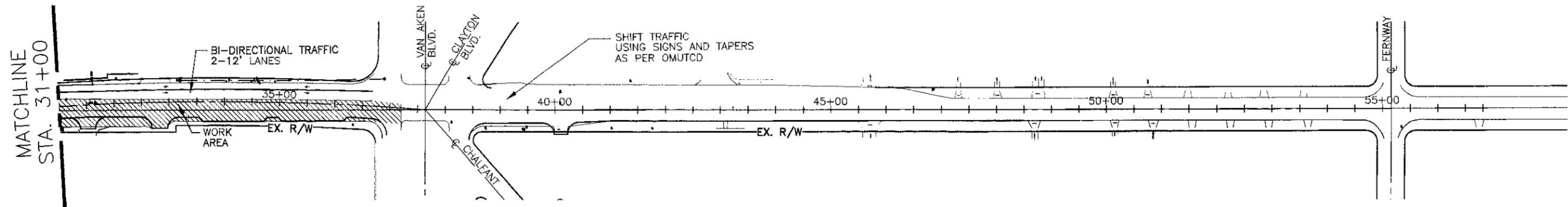
FROM N.E.O.R.S.D. MH 114 TO MH A.
INSTALL NEW SEWER FROM EXISTING N.E.O.R.S.D MH 114 TO MIDWAY BETWEEN MH 103 AND MH A. PROVIDE TEMPORARY PLUG.

- NOTE:**
1. TRAFFIC SIGNS, MARKINGS AND LANE CLOSURES SHALL BE PROVIDED AND MAINTAINED MEETING THE REQUIREMENTS OF THE OHIO MANUAL OF UNIFORM TRAFFIC DEVICES.
 2. LOCAL ACCESS TO ALL SIDE STREETS IS TO BE MAINTAINED.
 3. MINIMUM OF ONE 12' LANE IN EACH DIRECTION MUST BE MAINTAINED.
 4. CONSTRUCTION SEQUENCING SHALL BE DONE TO MINIMIZE THE DURATION OF THE LANE CLOSURE AT THE INTERSECTION OF LEE AND CHAGRIN.
 5. PLACE SIGNS PER OMTCD DIRECTING PEDESTRIANS TO PROPER CROSSWALKS.
 6. CONTRACTOR SHALL SECURE THE SITE NIGHTLY.
 7. EXISTING CONFLICTING MARKINGS SHALL BE REMOVED AND RESTORED WHEN PRECONSTRUCTION TRAFFIC PATTERNS ARE RE-ESTABLISHED.
 8. EXISTING CONFLICTING SIGNS AND LIGHTS SHALL BE COVERED AND RESTORED WHEN PRECONSTRUCTION TRAFFIC PATTERNS ARE RE-ESTABLISHED.
 8. CONTRACTOR TO MAINTAIN ACCESS FOR LOCAL AND EMERGENCY ACCESS

- LEGEND:**
- (A) - EXISTING STOP LINE
 - (1) - TEMPORARY STOP LINE
 - (2) - TEMPORARY CHANNELIZING LINE (WHITE)
 - (3) - TEMPORARY CHANNELIZING LINE (YELLOW)
 - (4) - TEMPORARY CENTERLINE
 - (5) - TEMPORARY CROSSWALK
 - (6) - TEMPORARY DASHED LINE (YELLOW)



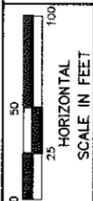
ROAD CONSTRUCTION
 BEGINS JAN 01, 2000
 FOR 1000 DAYS
 CITY OF CITY NAME



MAINTENANCE OF TRAFFIC PLAN - PHASE ONE-A

NOTE:

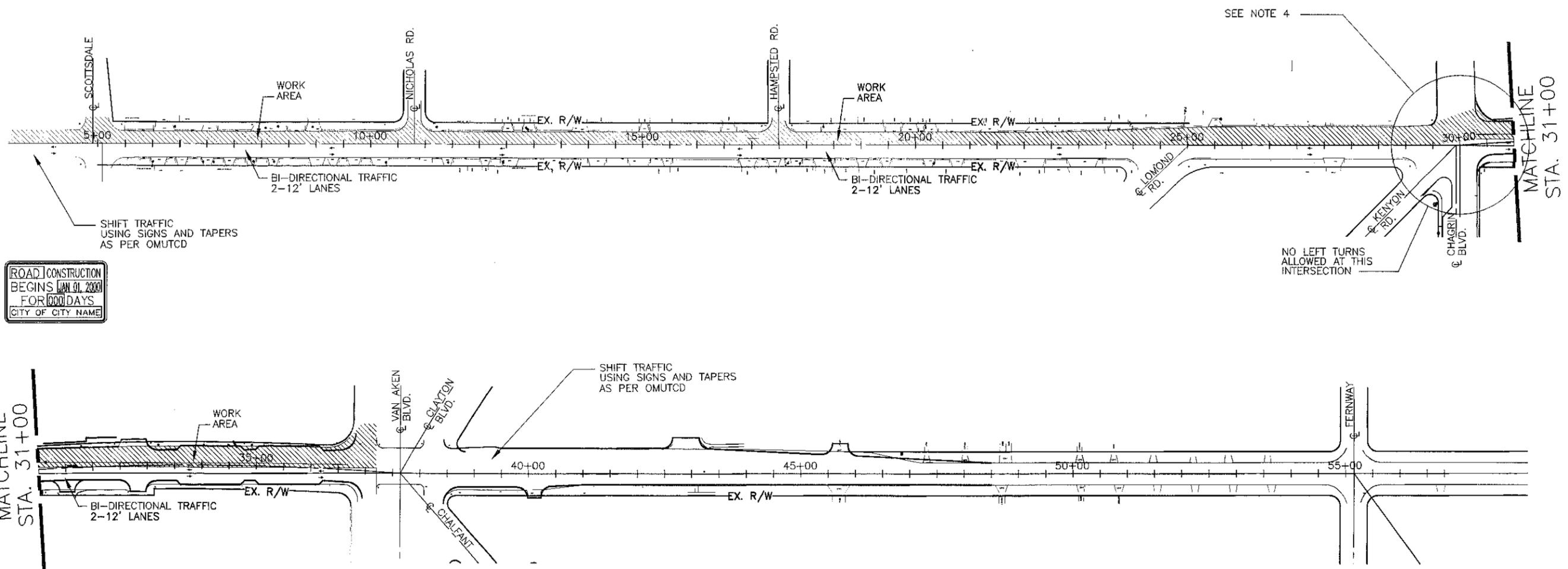
1. TRAFFIC SIGNS, MARKINGS AND LANE CLOSURES SHALL BE PROVIDED AND MAINTAINED MEETING THE REQUIREMENTS OF THE OHIO MANUAL OF UNIFORM TRAFFIC DEVICES.
2. CONTRACTOR TO MAINTAIN ACCESS FOR LOCAL AND EMERGENCY TRAFFIC.
3. CONTRACTOR TO MAINTAIN ACCESS TO ALL SIDE STREETS.
4. MINIMUM OF ONE 12' LANE IN EACH DIRECTION MUST BE MAINTAINED.
5. CONSTRUCTION SEQUENCING SHALL BE DONE TO MINIMIZE THE DURATION OF THE LANE CLOSURE AT THE INTERSECTION OF LEE AND CHAGRIN.
6. PLACE SIGNS PER OMUTCD DIRECTING PEDESTRIANS TO PROPER CROSSWALKS.
7. CONTRACTOR SHALL SECURE THE SITE NIGHTLY.
8. EXISTING CONFLICTING SIGNS AND LIGHTS SHALL BE COVERED. SEE TRAFFIC CONTROL PLAN FOR NEW PAVEMENT MARKINGS.
9. CONTRACTOR TO PERFORM PHASE I WORK FROM SCOTTSDALE TO CHAGRIN WHILE SCHOOL IS NOT IN SESSION.
10. FOR CONSTRUCTION WORK AND MAINTENANCE OF TRAFFIC AFFECTING STATES ROUTES, THE CONTRACTOR SHALL NOTIFY THE ODOT DISTRICT 12 PUBLIC INFORMATION OFFICER (FAX: 216-584-3524; e-mail: d12.publicinformation@dot.state.oh.us) AND THE CUYAHOGA COUNTY MANAGER (216-584-2264).
11. BARRELS SHALL BE PLACED 40' CENTER TO CENTER ALONG THE EDGE OF ALL WORK ZONE AREAS.



CALCULATED: NJ
 CHECKED: EDV

MAINTENANCE OF TRAFFIC
 PHASE ONE-A

REHABILITATION
 OF LEE ROAD



MAINTENANCE OF TRAFFIC PLAN - PHASE ONE-B
 CONTRACTOR SHALL PERFORM PHASE I WHILE SCHOOL IS NOT IN SESSION

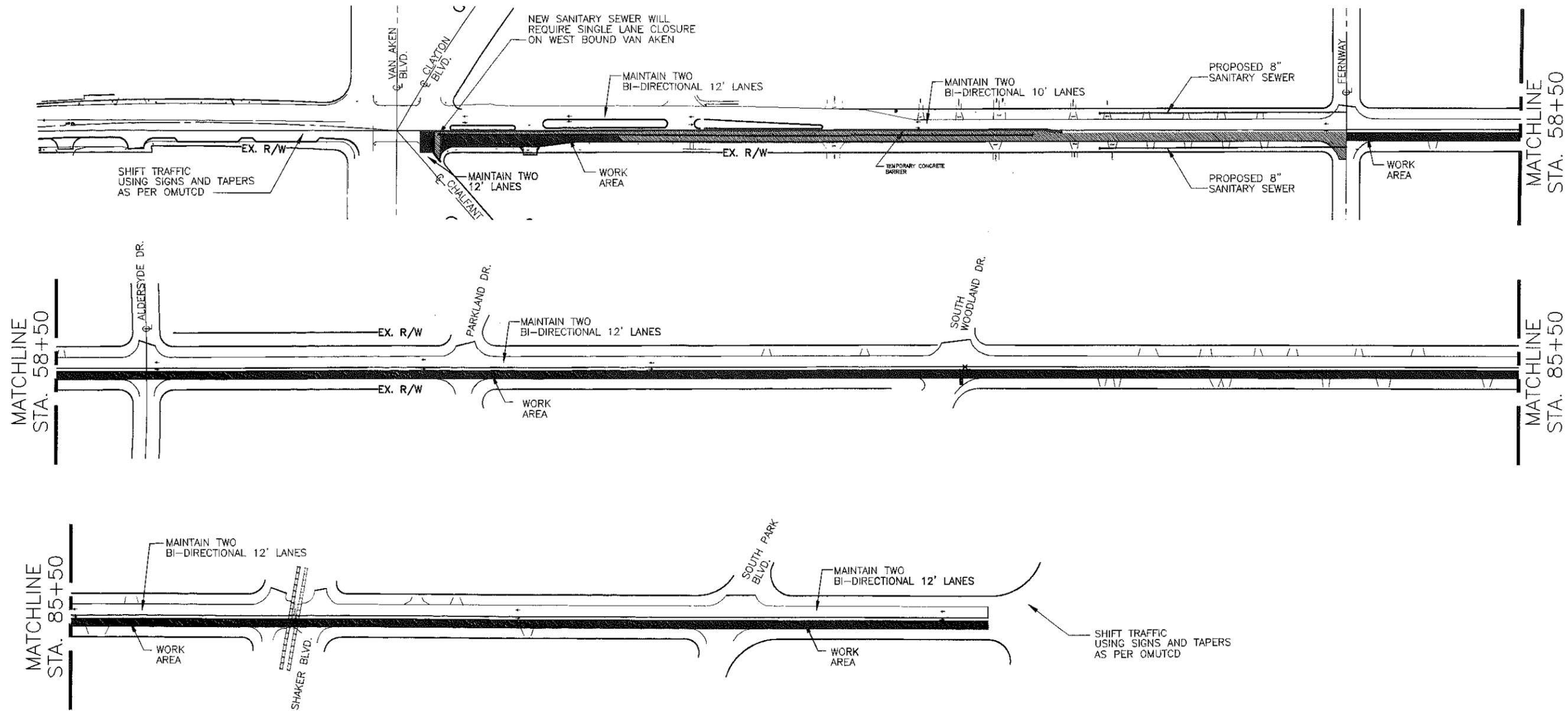
NOTE:

1. TRAFFIC SIGNS, MARKINGS AND LANE CLOSURES SHALL BE PROVIDED AND MAINTAINED MEETING THE REQUIREMENTS OF THE OHIO MANUAL OF UNIFORM TRAFFIC DEVICES.
2. CONTRACTOR TO MAINTAIN ACCESS FOR LOCAL AND EMERGENCY TRAFFIC.
3. CONTRACTOR TO MAINTAIN ACCESS TO ALL SIDE STREETS.
4. MINIMUM OF ONE 12' LANE IN EACH DIRECTION MUST BE MAINTAINED.
5. CONSTRUCTION SEQUENCING SHALL BE DONE TO MINIMIZE THE DURATION OF THE LANE CLOSURE AT THE INTERSECTION OF LEE AND CHAGRIN.
6. PLACE SIGNS PER OMUTCD DIRECTING PEDESTRIANS TO PROPER CROSSWALKS.
7. CONTRACTOR SHALL SECURE THE SITE NIGHTLY.
8. EXISTING CONFLICTING SIGNS AND LIGHTS SHALL BE COVERED. SEE TRAFFIC CONTROL PLAN FOR NEW PAVEMENT MARKINGS.
9. CONTRACTOR TO PERFORM PHASE I WORK FROM SCOTTSDALE TO CHAGRIN WHILE SCHOOL IS NOT IN SESSION.
10. FOR CONSTRUCTION WORK AND MAINTENANCE OF TRAFFIC AFFECTING STATES ROUTES, THE CONTRACTOR SHALL NOTIFY THE ODOT DISTRICT 12 PUBLIC INFORMATION OFFICER (FAX: 216-584-3524; e-mail: d12.publicinformation@dot.state.oh.us) AND THE CUYAHOGA COUNTY MANAGER (216-584-2264).
11. BARRELS SHALL BE PLACED 40' CENTER TO CENTER ALONG THE EDGE OF ALL WORK ZONE AREAS.


 0 25 50 100
 HORIZONTAL SCALE IN FEET
 CALCULATED NJ
 CHECKED EDV

**MAINTENANCE OF TRAFFIC
 PHASE ONE-B**

**REHABILITATION
 OF LEE ROAD**



MAINTENANCE OF TRAFFIC PLAN - PHASE TWO-A

NOTE:

1. TRAFFIC SIGNS, MARKINGS AND LANE CLOSURES SHALL BE PROVIDED AND MAINTAINED MEETING THE REQUIREMENTS OF THE OHIO MANUAL OF UNIFORM TRAFFIC DEVICES.
2. CONTRACTOR TO MAINTAIN ACCESS FOR LOCAL AND EMERGENCY TRAFFIC.
3. CONTRACTOR TO MAINTAIN ACCESS TO ALL SIDE STREETS.
4. MINIMUM OF ONE 12' LANE IN EACH DIRECTION MUST BE MAINTAINED.
5. CONSTRUCTION SEQUENCING SHALL BE DONE TO MINIMIZE THE DURATION OF THE LANE CLOSURE AT THE INTERSECTION OF LEE AND CHAGRIN.
6. PLACE SIGNS PER ODOT DIRECTING PEDESTRIANS TO PROPER CROSSWALKS.
7. CONTRACTOR SHALL SECURE THE SITE NIGHTLY.
8. EXISTING CONFLICTING SIGNS AND LIGHTS SHALL BE COVERED. SEE TRAFFIC CONTROL PLAN FOR NEW PAVEMENT MARKINGS.
9. CONTRACTOR TO PERFORM PHASE I WORK FROM SCOTTSDALE TO CHAGRIN WHILE SCHOOL IS NOT IN SESSION.
10. FOR CONSTRUCTION WORK AND MAINTENANCE OF TRAFFIC AFFECTING STATES ROUTES, THE CONTRACTOR SHALL NOTIFY THE ODOT DISTRICT 12 PUBLIC INFORMATION OFFICER (FAX: 216-584-3524; e-mail: d12.publicinformation@dot.state.oh.us) AND THE CUYAHOGA COUNTY MANAGER (216-584-2264).
11. BARRELS SHALL BE PLACED 40' CENTER TO CENTER ALONG THE EDGE OF ALL WORK ZONE AREAS.

ROAD CONSTRUCTION
 BEGINS (MAY 01, 2000)
 FOR (000) DAYS
 CITY OF CITY NAME

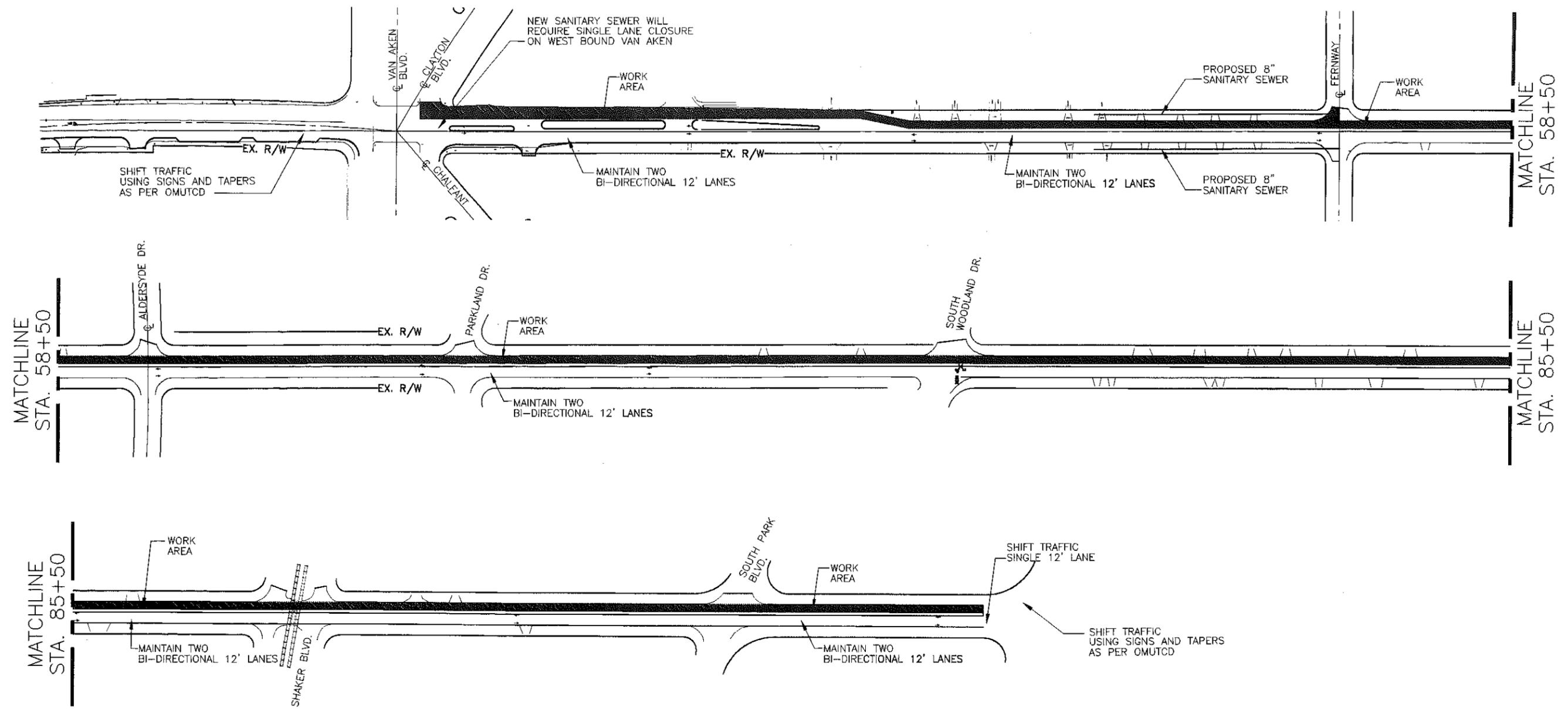
OC-61D
 60x36
 1500x900

CALCULATED: NJ
 CHECKED: EDV

0 50 100
 HORIZONTAL SCALE IN FEET

**MAINTENANCE OF TRAFFIC
 PHASE TWO-A**

**REHABILITATION
 OF LEE ROAD**



MAINTENANCE OF TRAFFIC PLAN - PHASE TWO-B

NOTE:

1. TRAFFIC SIGNS, MARKINGS AND LANE CLOSURES SHALL BE PROVIDED AND MAINTAINED MEETING THE REQUIREMENTS OF THE OHIO MANUAL OF UNIFORM TRAFFIC DEVICES.
2. CONTRACTOR TO MAINTAIN ACCESS FOR LOCAL AND EMERGENCY TRAFFIC.
3. CONTRACTOR TO MAINTAIN ACCESS TO ALL SIDE STREETS.
4. MINIMUM OF ONE 12' LANE IN EACH DIRECTION MUST BE MAINTAINED.
5. CONSTRUCTION SEQUENCING SHALL BE DONE TO MINIMIZE THE DURATION OF THE LANE CLOSURE AT THE INTERSECTION OF LEE AND CHAGRIN.
6. PLACE SIGNS PER ODOT DIRECTING PEDESTRIANS TO PROPER CROSSWALKS.
7. CONTRACTOR SHALL SECURE THE SITE NIGHTLY.
8. EXISTING CONFLICTING SIGNS AND LIGHTS SHALL BE COVERED. SEE TRAFFIC CONTROL PLAN FOR NEW PAVEMENT MARKINGS.
9. CONTRACTOR TO PERFORM PHASE I WORK FROM SCOTTSDALE TO CHAGRIN WHILE SCHOOL IS NOT IN SESSION.
10. FOR CONSTRUCTION WORK AND MAINTENANCE OF TRAFFIC AFFECTING STATES ROUTES, THE CONTRACTOR SHALL NOTIFY THE ODOT DISTRICT 12 PUBLIC INFORMATION OFFICER (FAX: 216-584-3524; e-mail: d12.publicinformation@dot.state.oh.us) AND THE CUYAHOGA COUNTY MANAGER (216-584-2264).
11. BARRELS SHALL BE PLACED 40' CENTER TO CENTER ALONG THE EDGE OF ALL WORK ZONE AREAS.

0 25 50 100
 HORIZONTAL SCALE IN FEET
 CALCULATED: NJ
 CHECKED: EDV

**MAINTENANCE OF TRAFFIC
PHASE TWO-B**

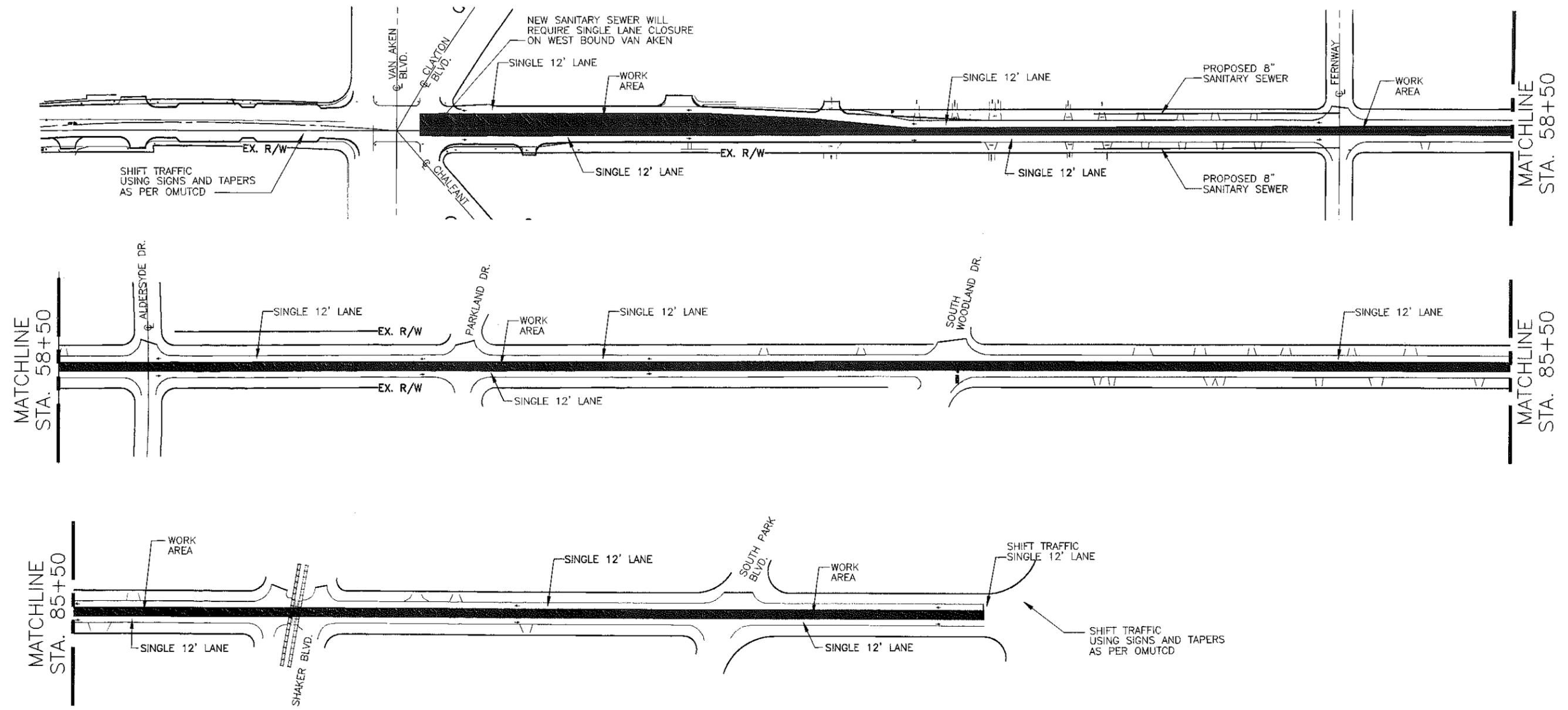
**REHABILITATION
OF LEE ROAD**



CALCULATED: NJJ
CHECKED: EDV

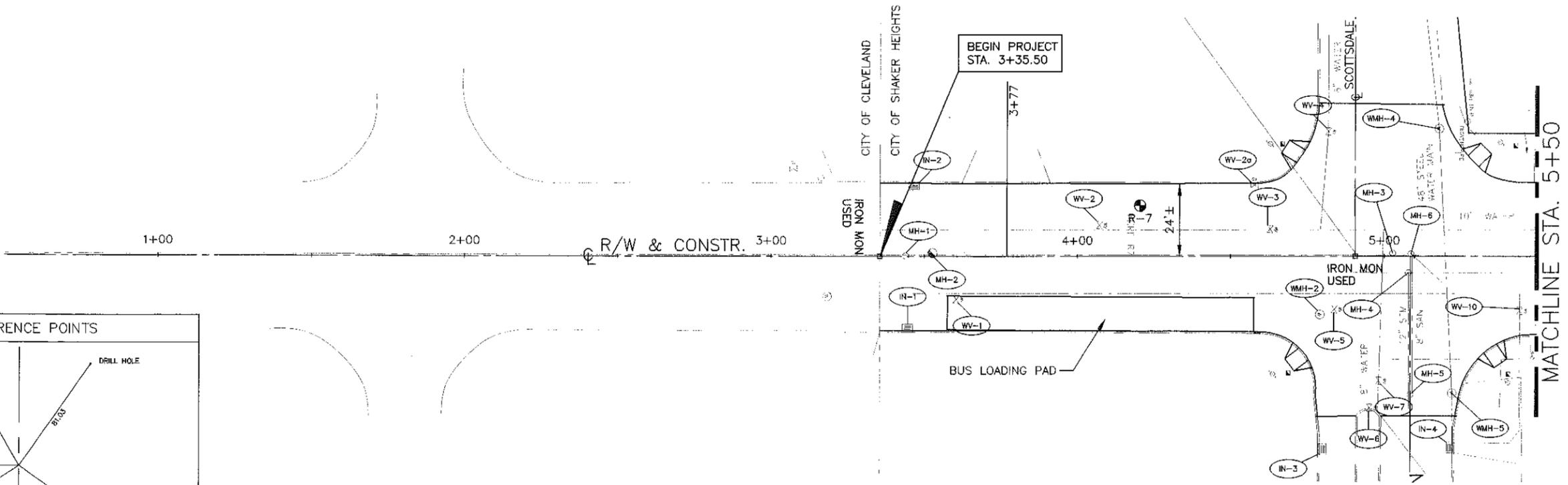
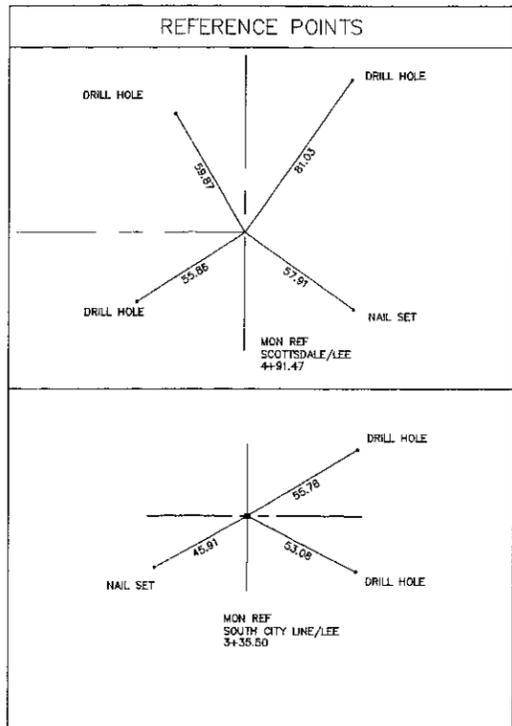
**MAINTENANCE OF TRAFFIC
PHASE TWO-C**

**REHABILITATION
OF LEE ROAD**



NOTE:

1. TRAFFIC SIGNS, MARKINGS AND LANE CLOSURES SHALL BE PROVIDED AND MAINTAINED MEETING THE REQUIREMENTS OF THE OHIO MANUAL OF UNIFORM TRAFFIC DEVICES.
2. CONTRACTOR TO MAINTAIN ACCESS FOR LOCAL AND EMERGENCY TRAFFIC.
3. CONTRACTOR TO MAINTAIN ACCESS TO ALL SIDE STREETS.
4. MINIMUM OF ONE 12' LANE IN EACH DIRECTION MUST BE MAINTAINED.
5. CONSTRUCTION SEQUENCING SHALL BE DONE TO MINIMIZE THE DURATION OF THE LANE CLOSURE AT THE INTERSECTION OF LEE AND CHAGRIN.
6. PLACE SIGNS PER ODOT DIRECTING PEDESTRIANS TO PROPER CROSSWALKS.
7. CONTRACTOR SHALL SECURE THE SITE NIGHTLY.
8. EXISTING CONFLICTING SIGNS AND LIGHTS SHALL BE COVERED. SEE TRAFFIC CONTROL PLAN FOR NEW PAVEMENT MARKINGS.
9. CONTRACTOR TO PERFORM PHASE I WORK FROM SCOTTSDALE TO CHAGRIN WHILE SCHOOL IS NOT IN SESSION.
10. FOR CONSTRUCTION WORK AND MAINTENANCE OF TRAFFIC AFFECTING STATES ROUTES, THE CONTRACTOR SHALL NOTIFY THE ODOT DISTRICT 12 PUBLIC INFORMATION OFFICER (FAX: 216-584-3524; e-mail: d12.publicinformation@dot.state.oh.us) AND THE CUYAHOGA COUNTY MANAGER (216-584-2264).
11. BARRELS SHALL BE PLACED 40' CENTER TO CENTER ALONG THE EDGE OF ALL WORK ZONE AREAS.

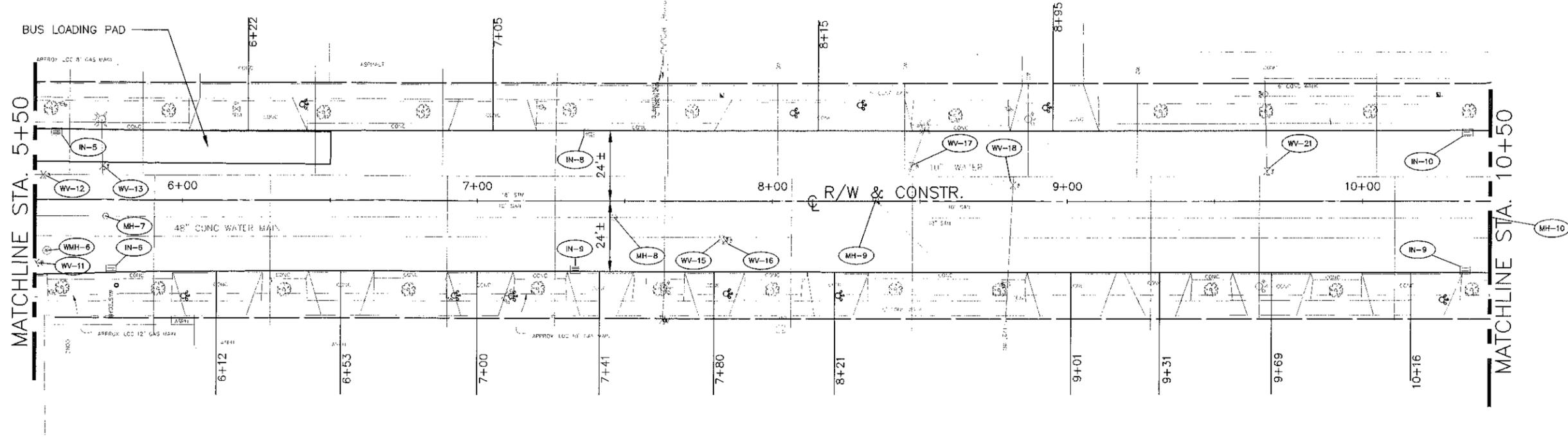
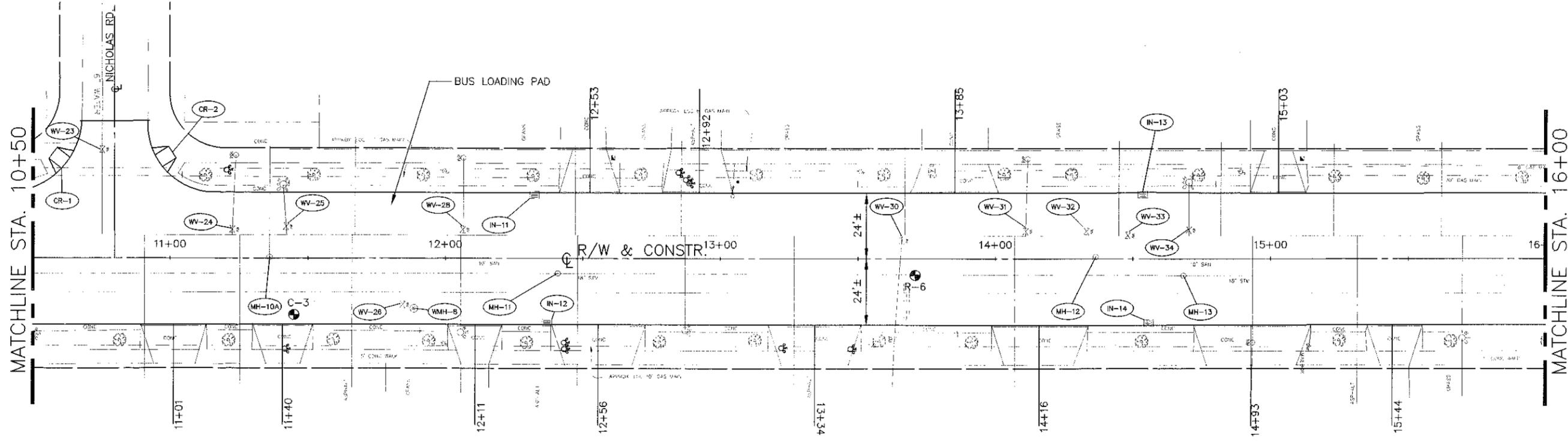


LEGEND:

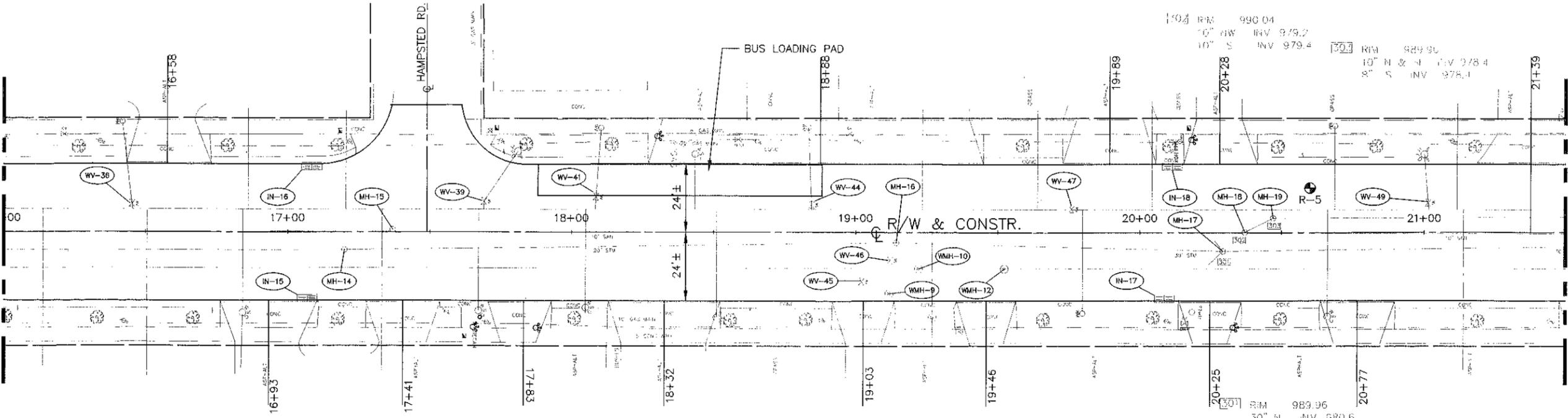
- | | | | | | |
|--|-----------------|--|--------------|--|------------------------------|
| | GAS SHUT-OFF | | BLK. MH | | EXISTING 6" SANITARY LATERAL |
| | CELL MH | | STEEL POLE | | EXISTING 6" STORM LATERAL |
| | ELEC. BOX | | SIGN | | NEW 6" LATERAL EXTENSION |
| | BENCH | | ROLL UP | | REMOVE MANHOLE |
| | PARKING METER | | STM. MH | | SAN - SANITARY SEWER |
| | GAS VALVE | | SAN. MH | | STM - STORM SEWER |
| | WOOD POLE | | EX. WATER MH | | TRAFFIC CONTROL BOX |
| | SIGNAL POLE | | POST | | WASTE RECEPTACLE |
| | LIGHT POLE | | INLET | | CURB INLET |
| | ANCHOR | | | | |
| | CROSS WALK POLE | | | | |
| | EX. HYD. | | | | |
| | EX. WATER METER | | | | |
| | EX. WATER VALVE | | | | |
| | EX. WSO | | | | |

PLAN AND PROFILE - LEE RD.
STA. 0+00 TO STA. 5+50

REHABILITATION
OF LEE ROAD



MATCHLINE STA. 16+00



MATCHLINE STA. 21+50

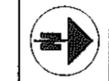
10' RIM 990.04
 10' NW INV 979.2
 10' S INV 979.4
 10' RIM 989.96
 10' N & 4 INV 978.4
 8' S INV 978.1

10' RIM 989.96
 10' N INV 980.6
 10' S INV 980.7

REHABILITATION OF LEE ROAD

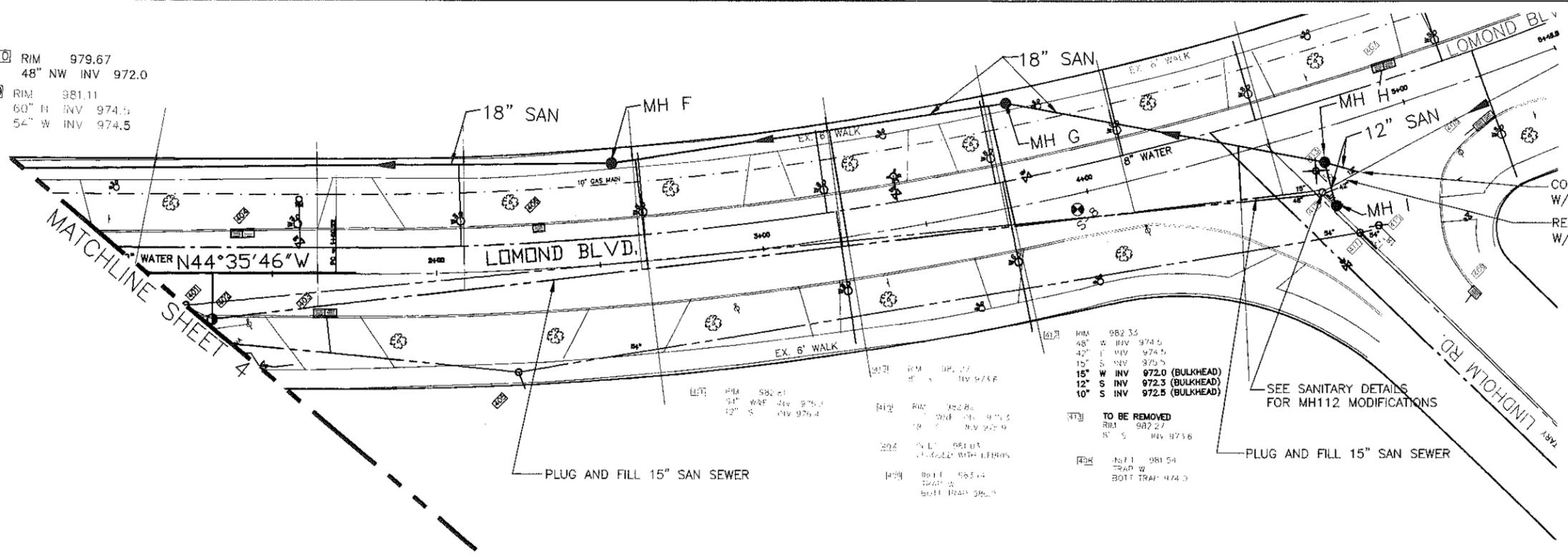
PLAN AND PROFILE - LEE RD. STA. 16+00 TO STA. 21+50

CALCULATED
 NJ
 CHECKED
 EDV



310 RIM 979.67
48" NW INV 972.0

309 RIM 981.11
60" H INV 974.5
54" W INV 974.5



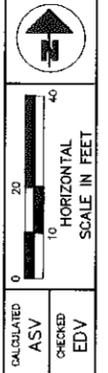
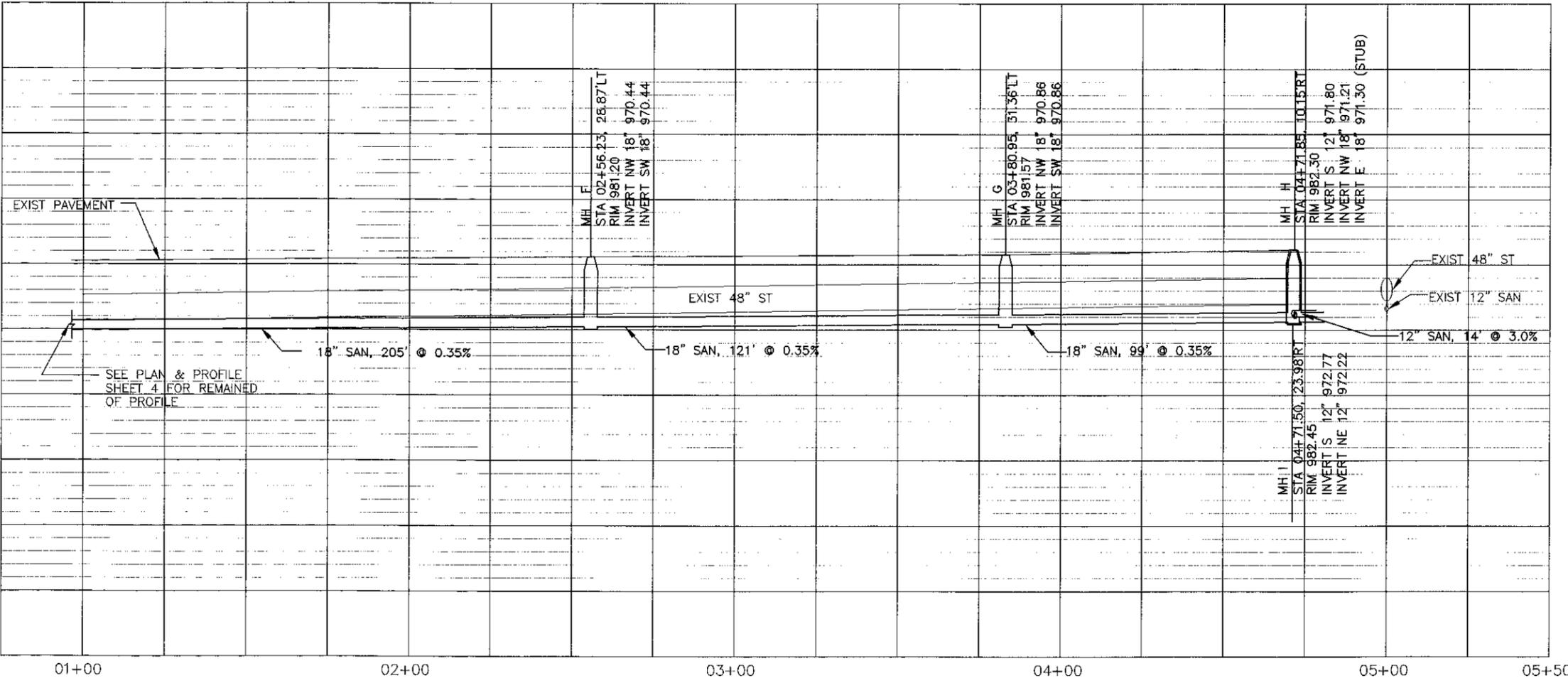
CONNECT TO EXIST 12" SAN
W/45' BEND.

REPLACE 25' OF 48" BRICK ST.
W/NEW 48" PIPE AT SAME LOCATION.

SEE SANITARY DETAILS
FOR MH112 MODIFICATIONS

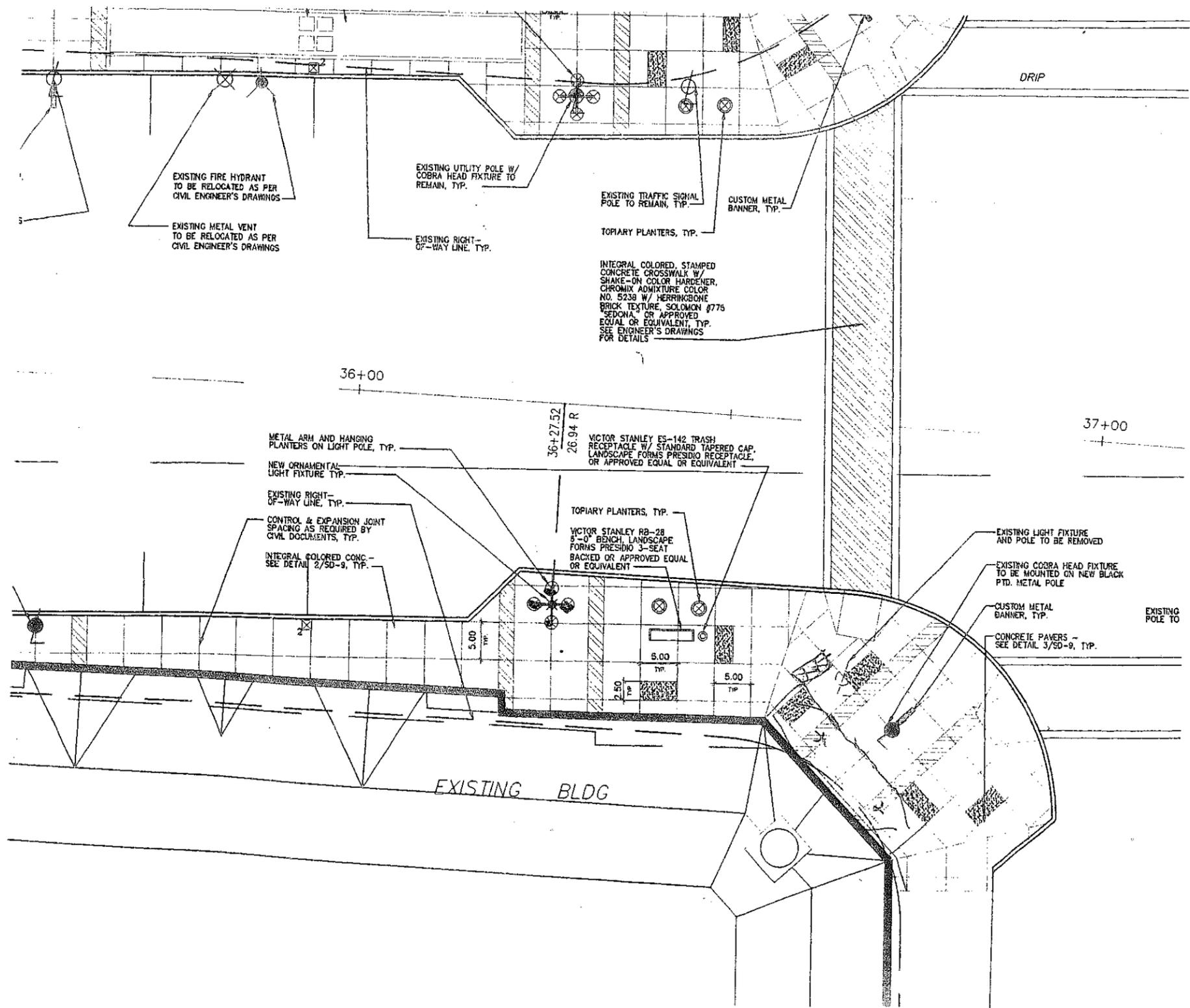
PLUG AND FILL 15" SAN SEWER

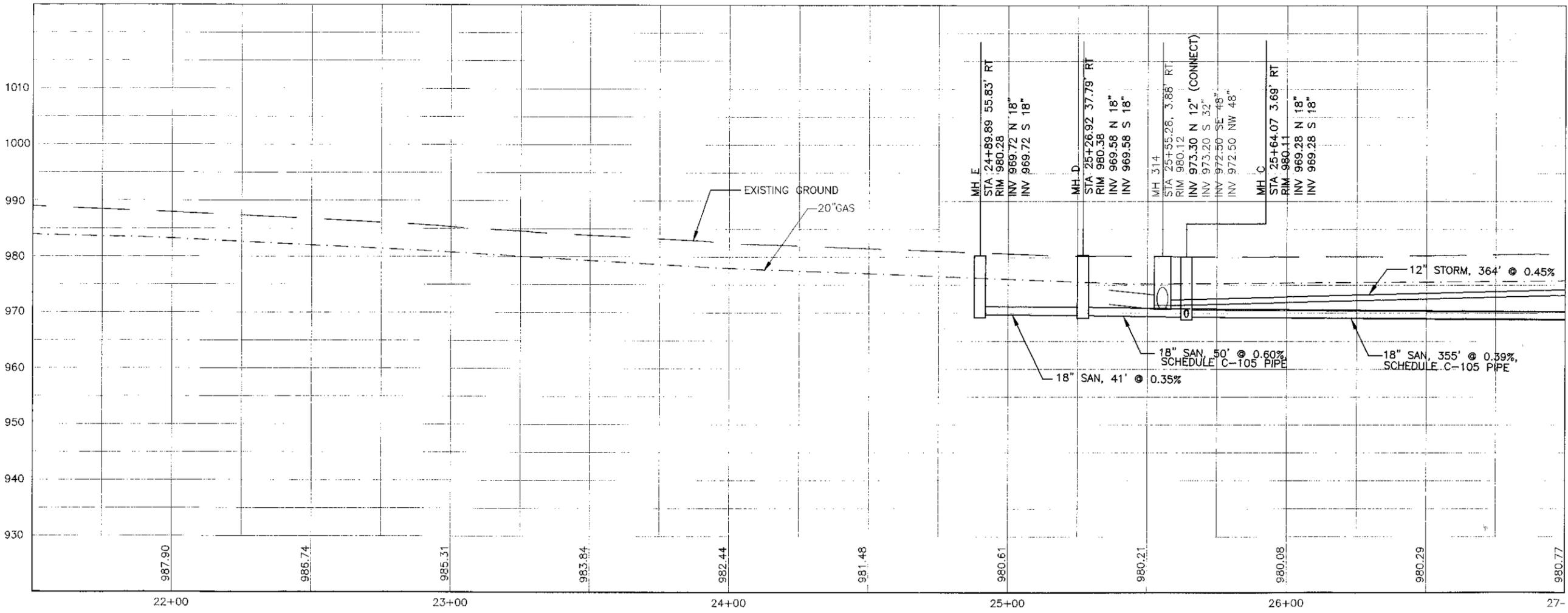
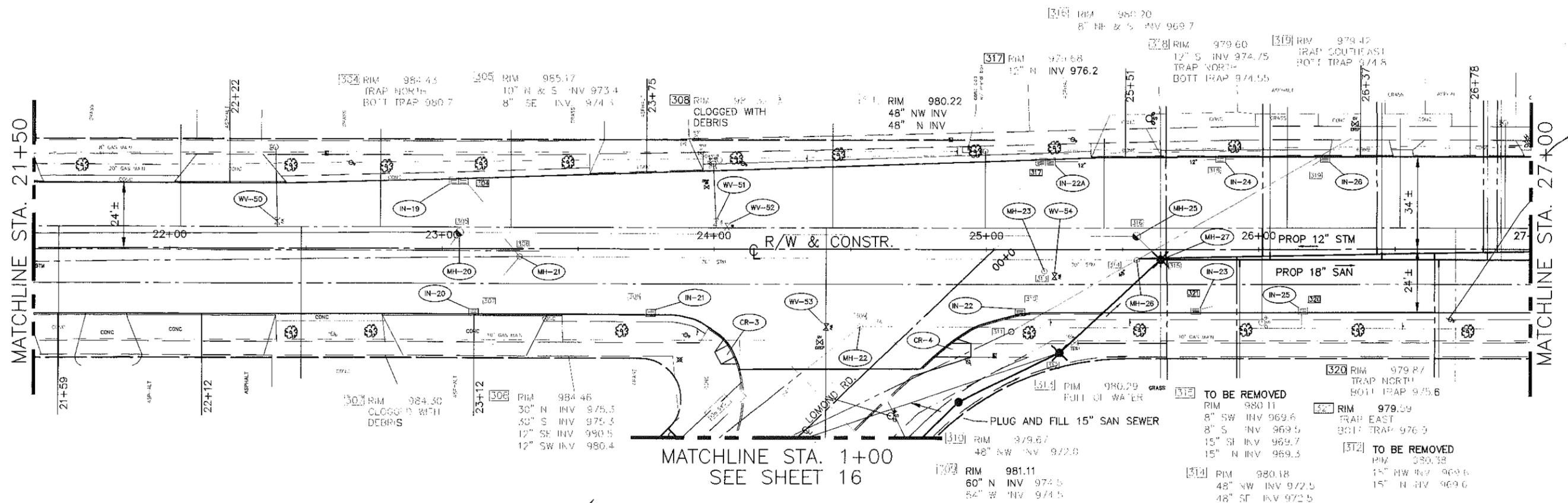
RM	982.35
48" W	INV 974.5
42" S	INV 974.5
15" W	INV 972.0 (BULKHEAD)
12" S	INV 972.3 (BULKHEAD)
10" S	INV 972.5 (BULKHEAD)
TO BE REMOVED	
RM	982.27
15" S	INV 973.6
TRAP	
RM	981.54
TRAP W	974.0
BOTT TRAP	974.0



CALCULATED ASV CHECKED EDV
PLAN AND PROFILE - LEE RD.
LOMOND BLVD. STA. 00+00 TO STA. 05+50

REHABILITATION OF LEE ROAD

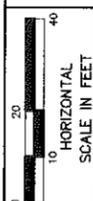
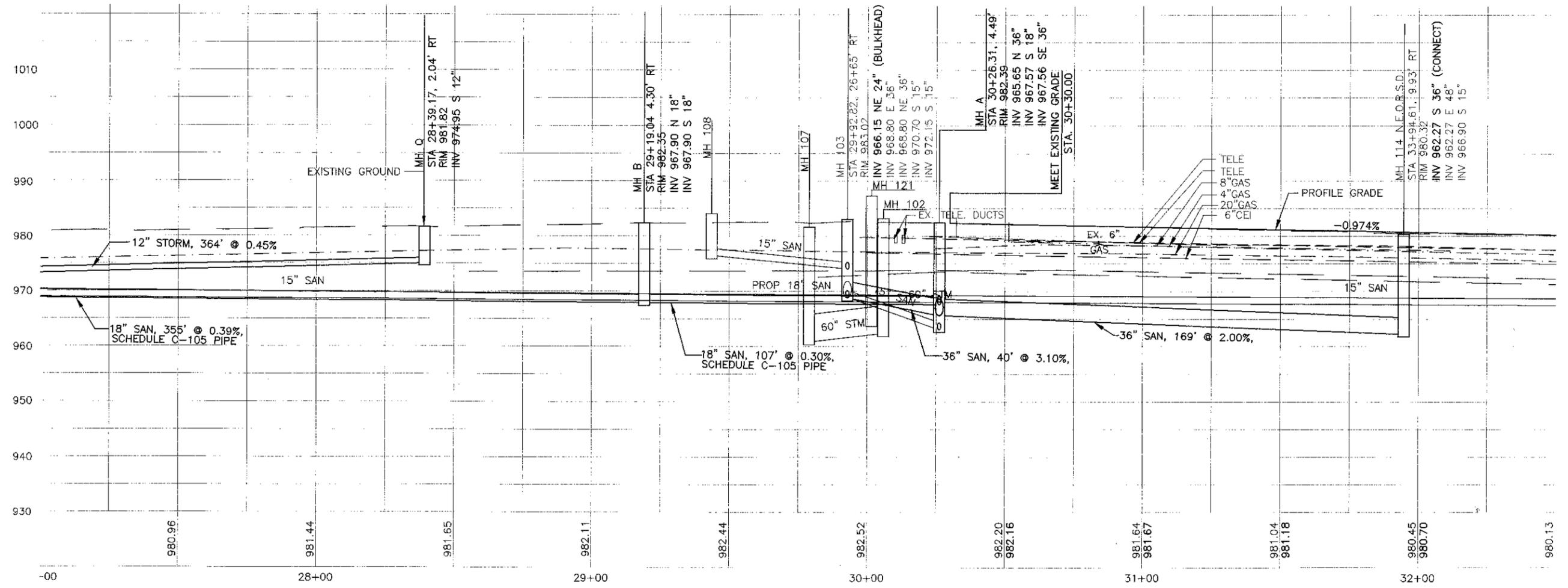
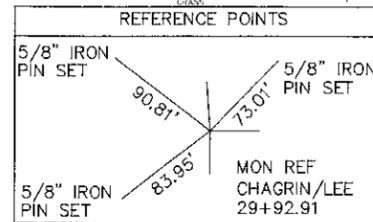
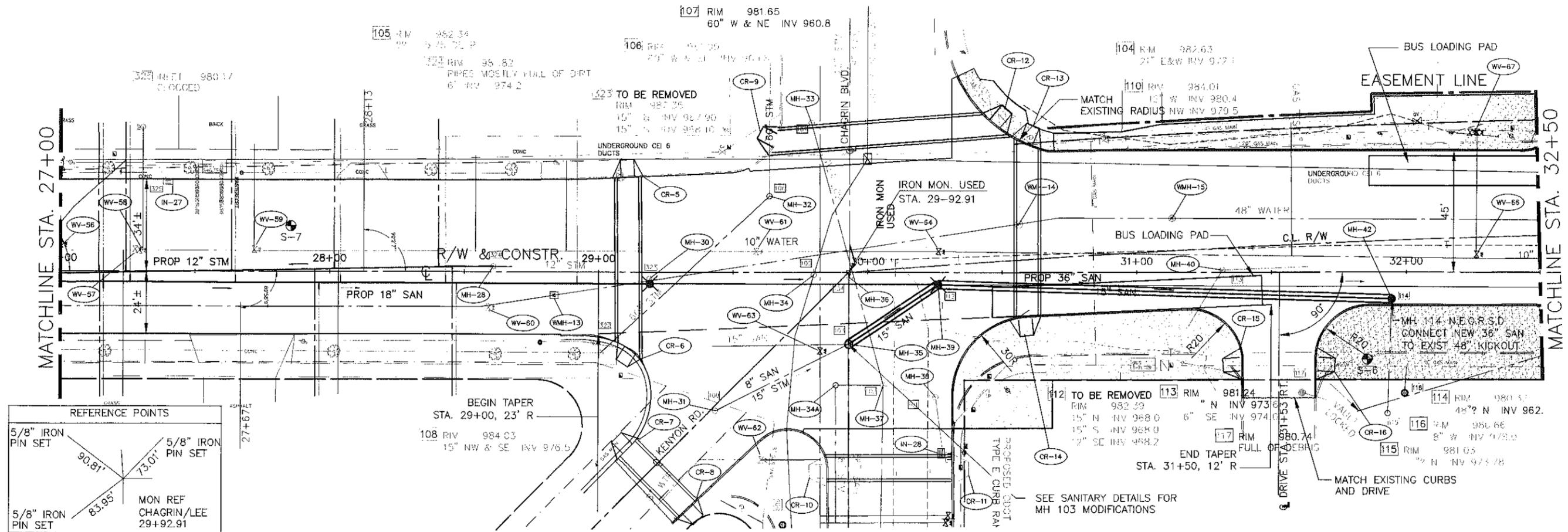




CALCULATED
NU
CHECKED
EDV

**PLAN AND PROFILE - LEE RD.
STA. 21+50 TO STA. 27+00**

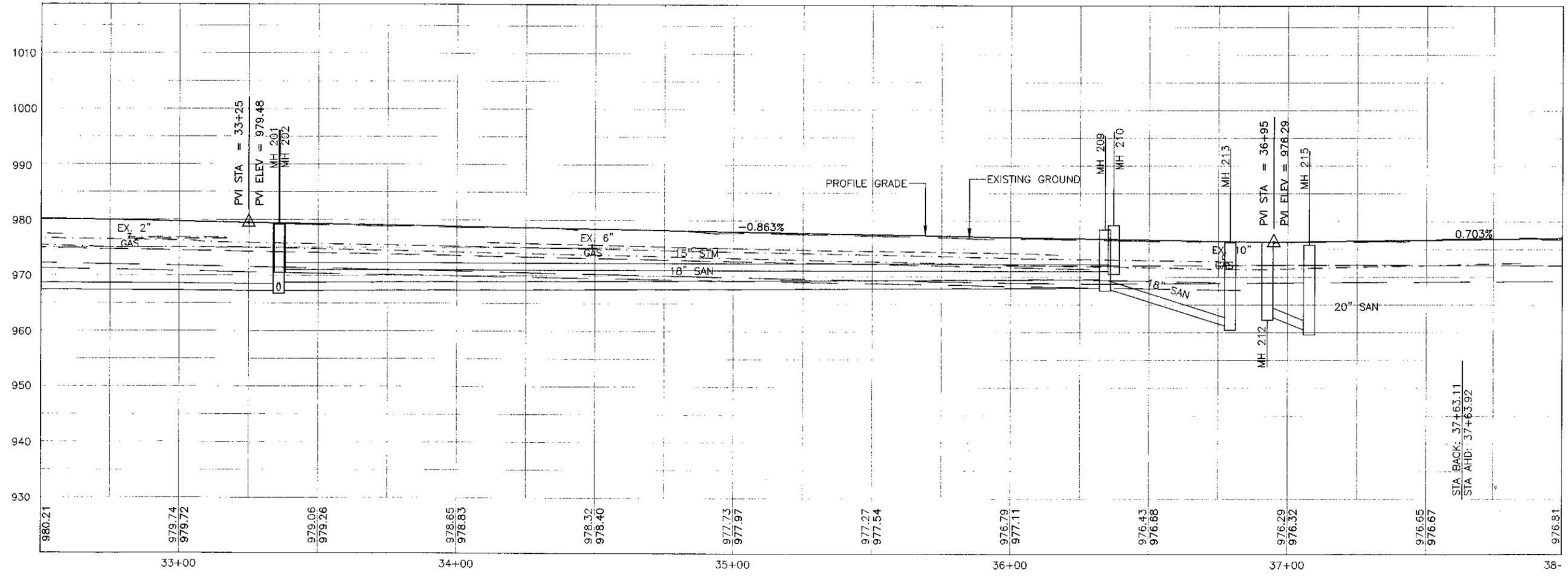
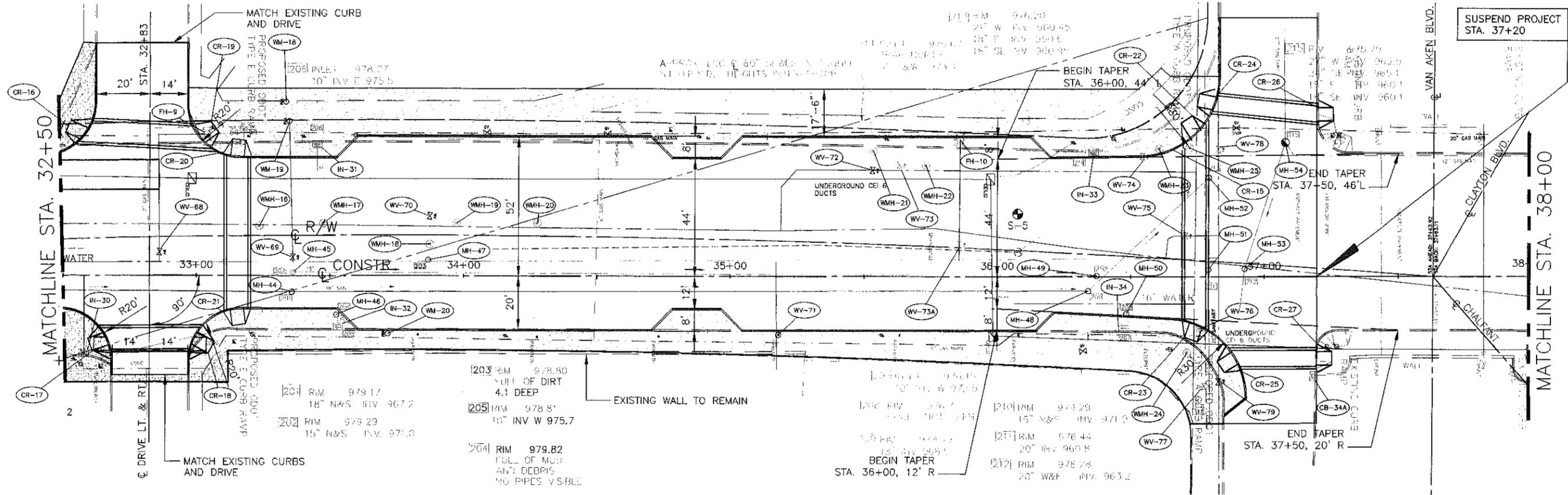
**REHABILITATION
OF LEE ROAD**



CALCULATED INJ
CHECKED EDV

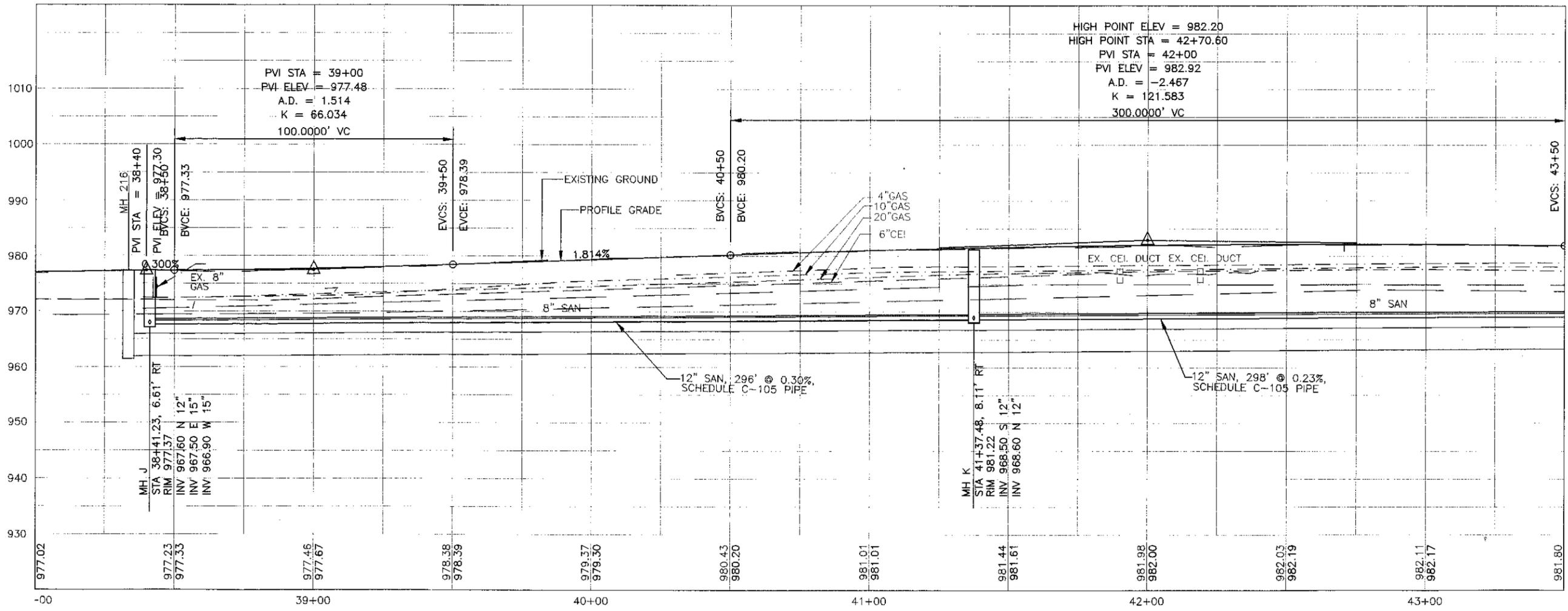
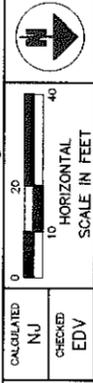
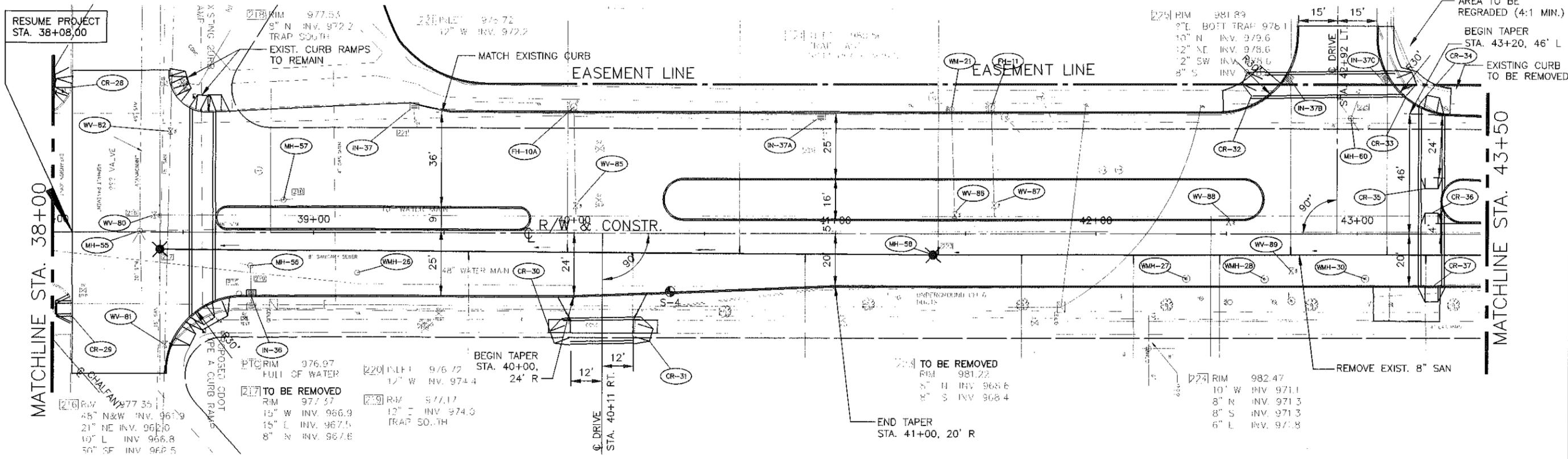
**PLAN AND PROFILE - LEE RD.
STA. 27+00 TO STA. 32+50**

**REHABILITATION
OF LEE ROAD**



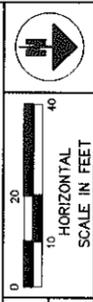
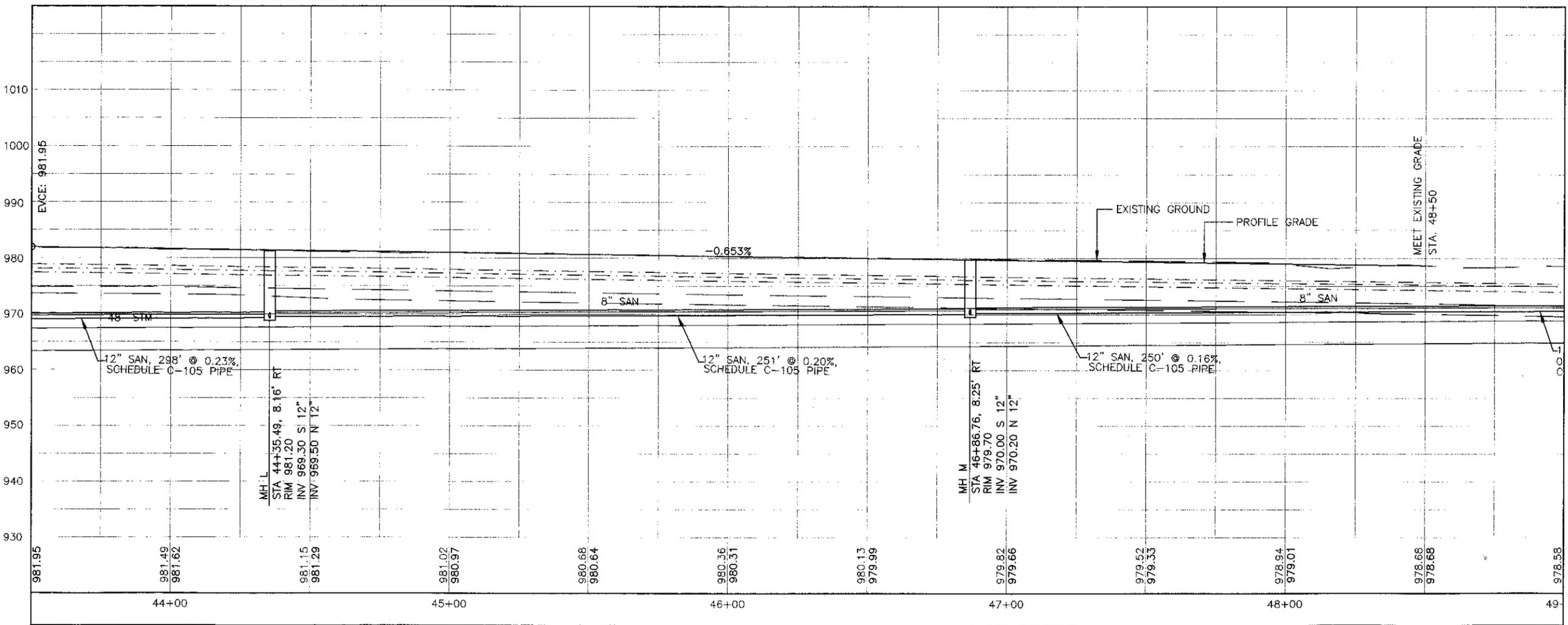
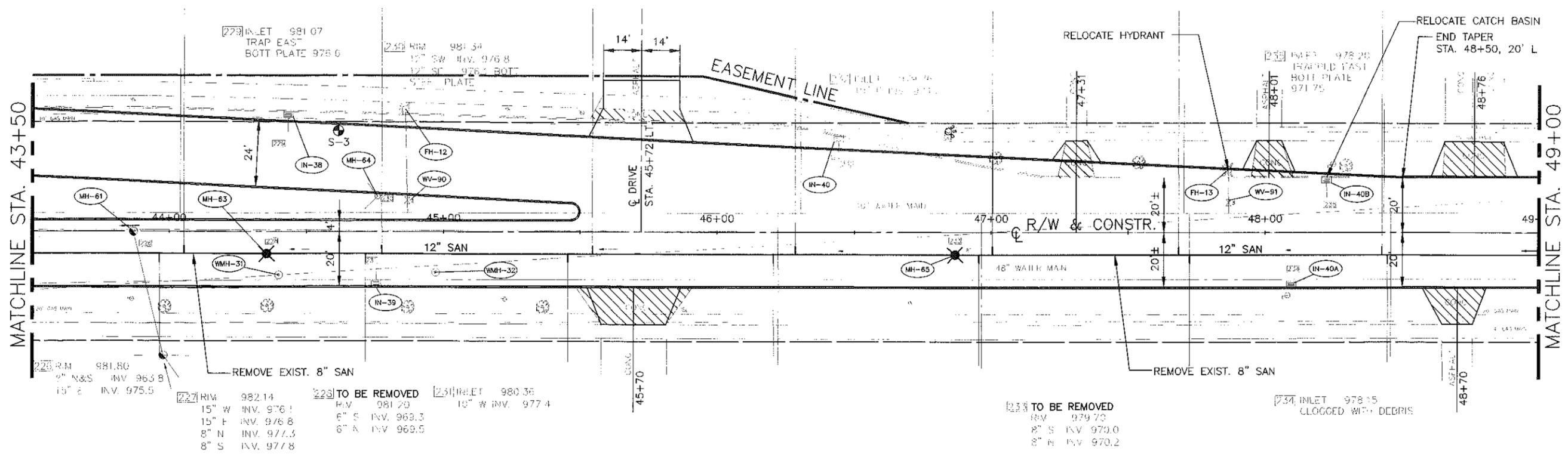
REHABILITATION OF LEE ROAD
PLAN AND PROFILE - LEE RD.
STA. 32+50 TO STA. 38+00

CALCULATED NJ
 CHECKED EDV



**PLAN AND PROFILE - LEE RD.
STA. 38+00 TO STA. 43+50**

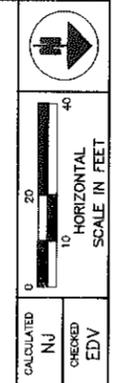
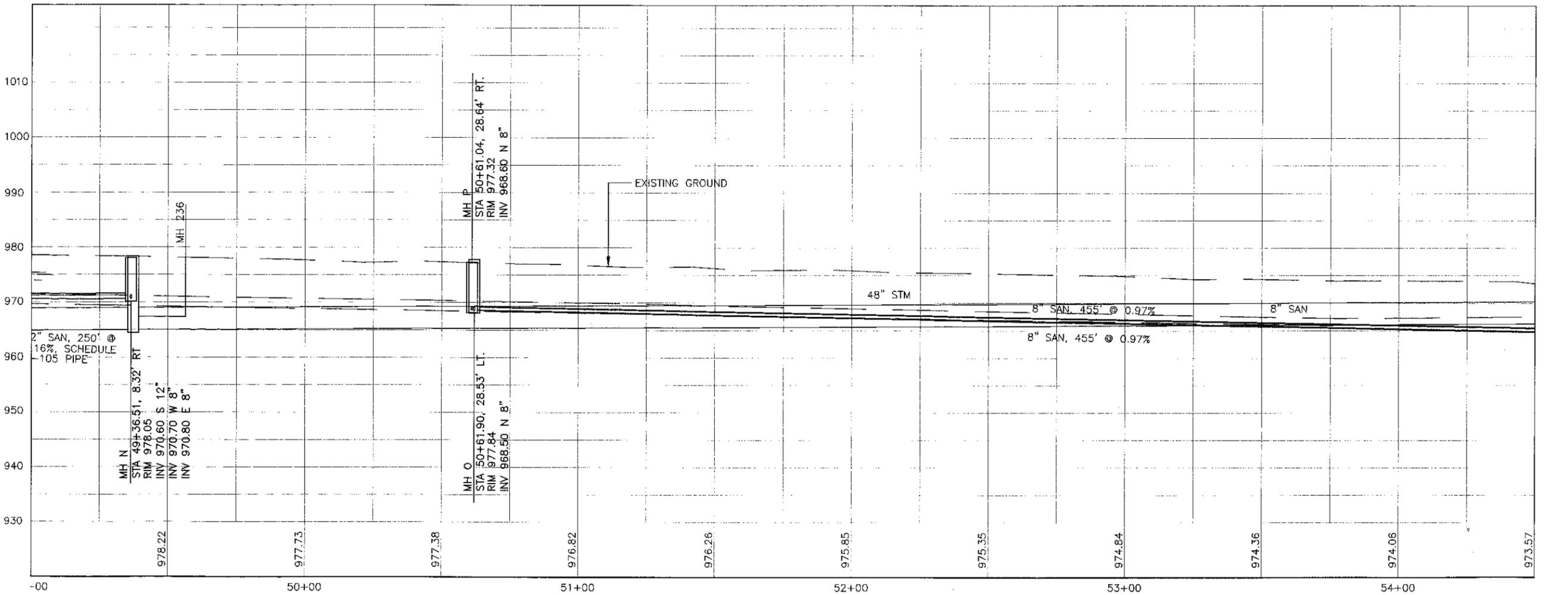
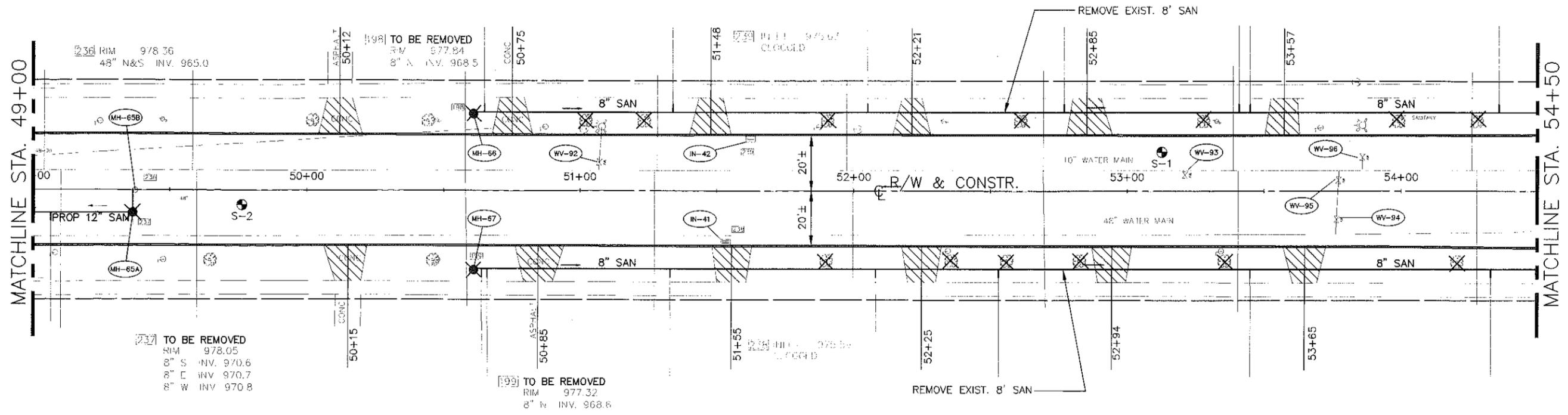
**REHABILITATION
OF LEE ROAD**



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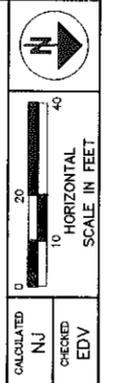
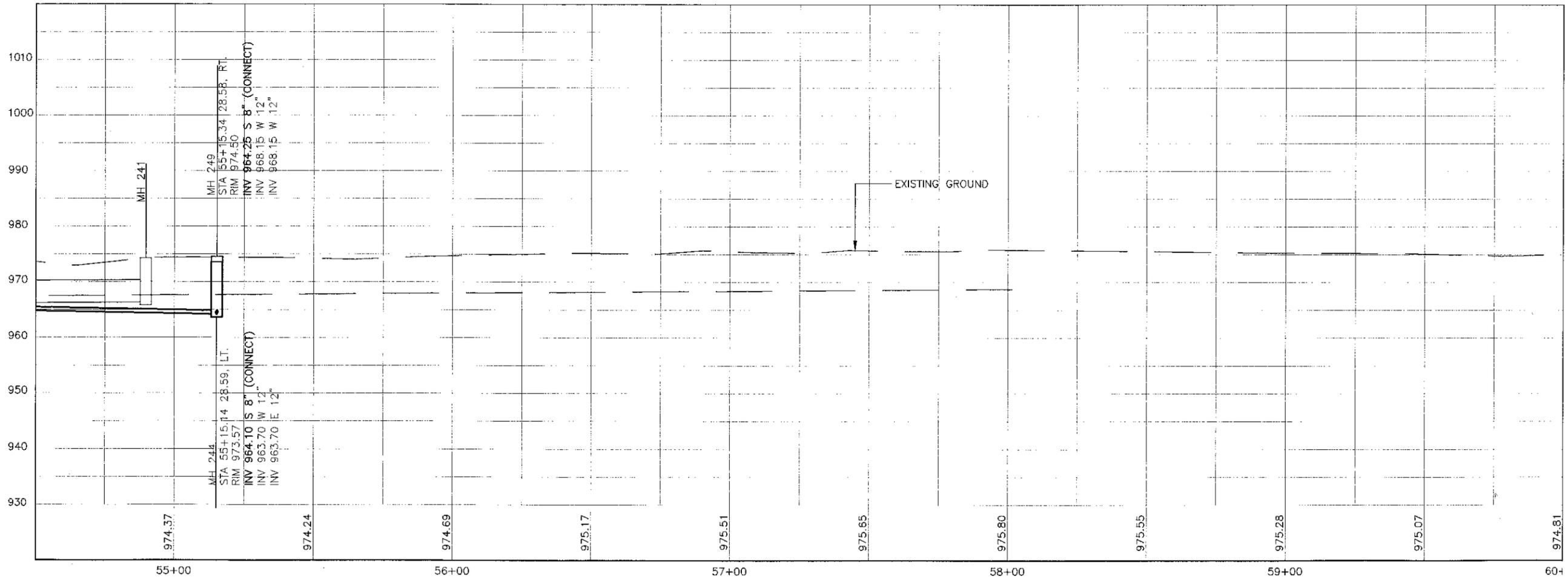
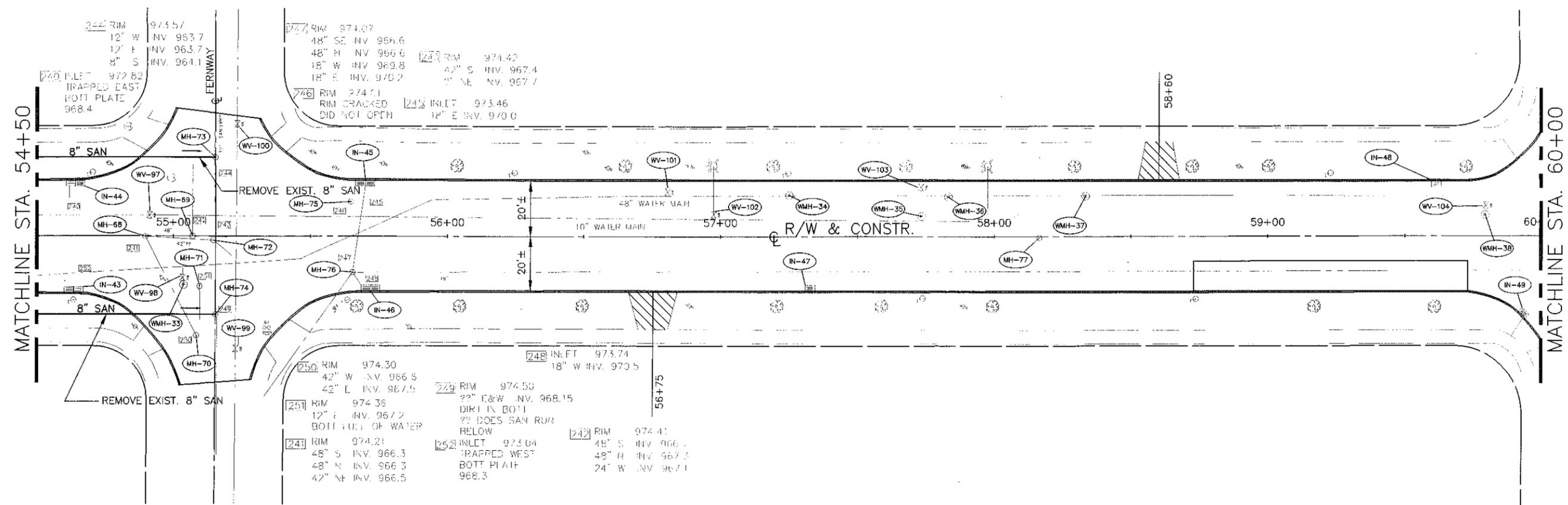
**PLAN AND PROFILE - LEE RD.
STA. 43+50 TO STA. 49+00**

**REHABILITATION
OF LEE ROAD**



**PLAN AND PROFILE - LEE RD.
STA. 49+00 TO STA. 54+50**

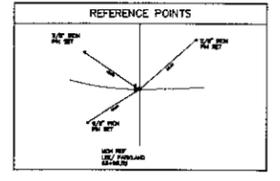
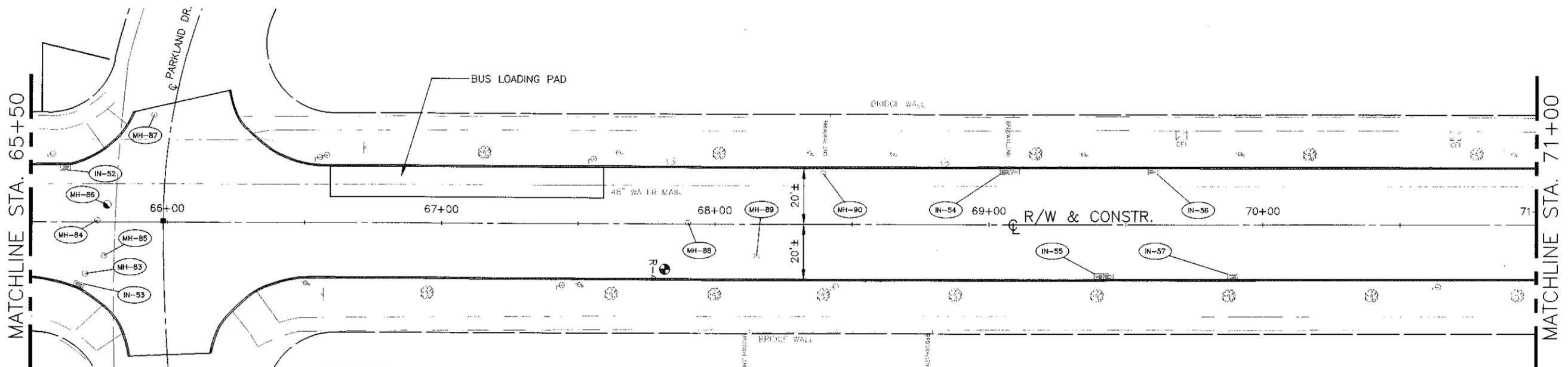
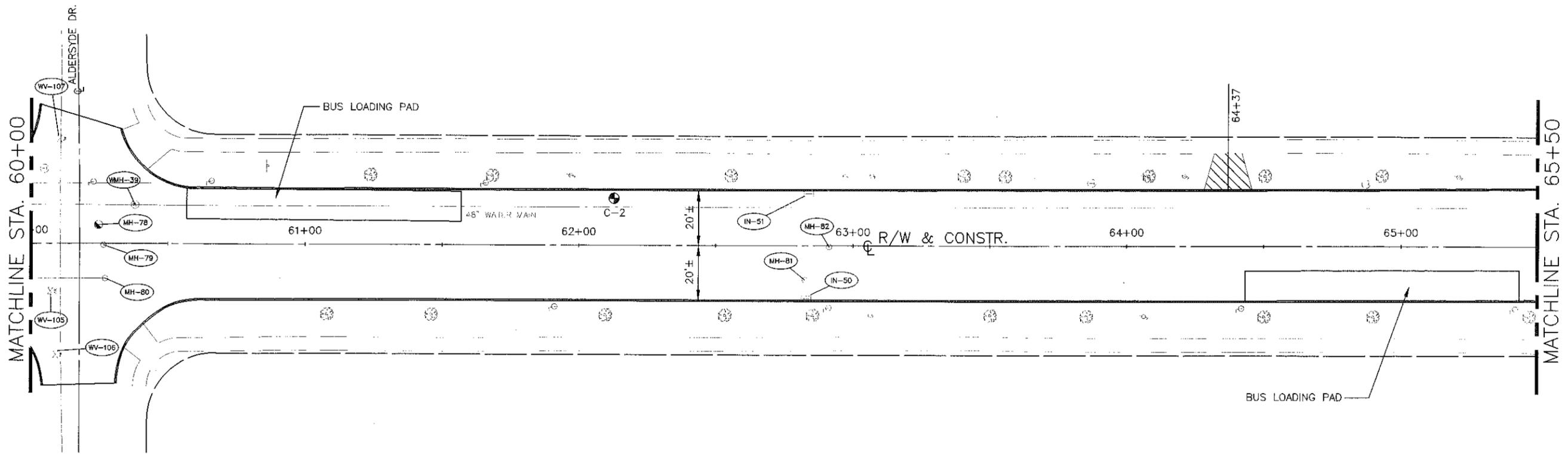
**REHABILITATION
OF LEE ROAD**



CALCULATED BY: NJ
 CHECKED BY: EDV

PLAN AND PROFILE - LEE RD.
 STA. 54+50 TO STA. 60+00

REHABILITATION OF LEE ROAD

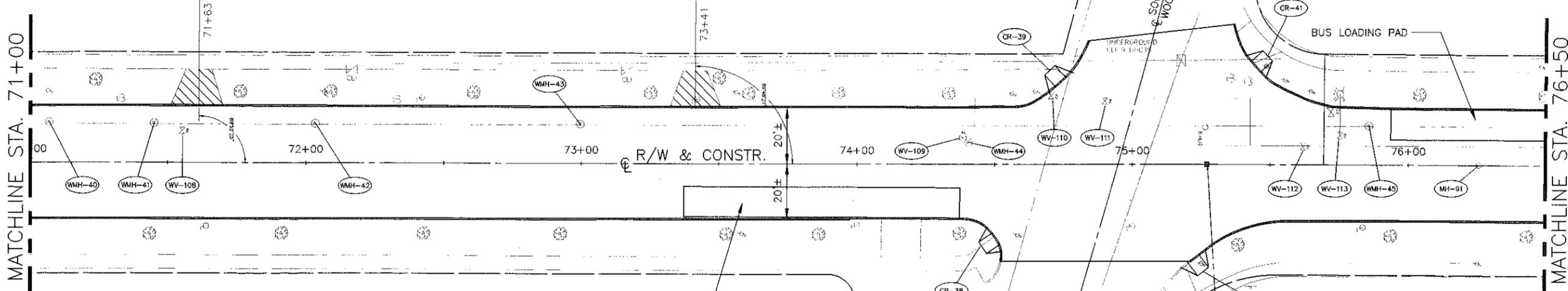
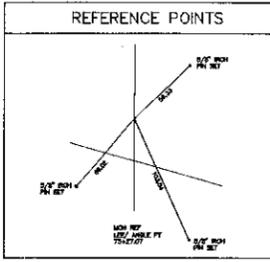
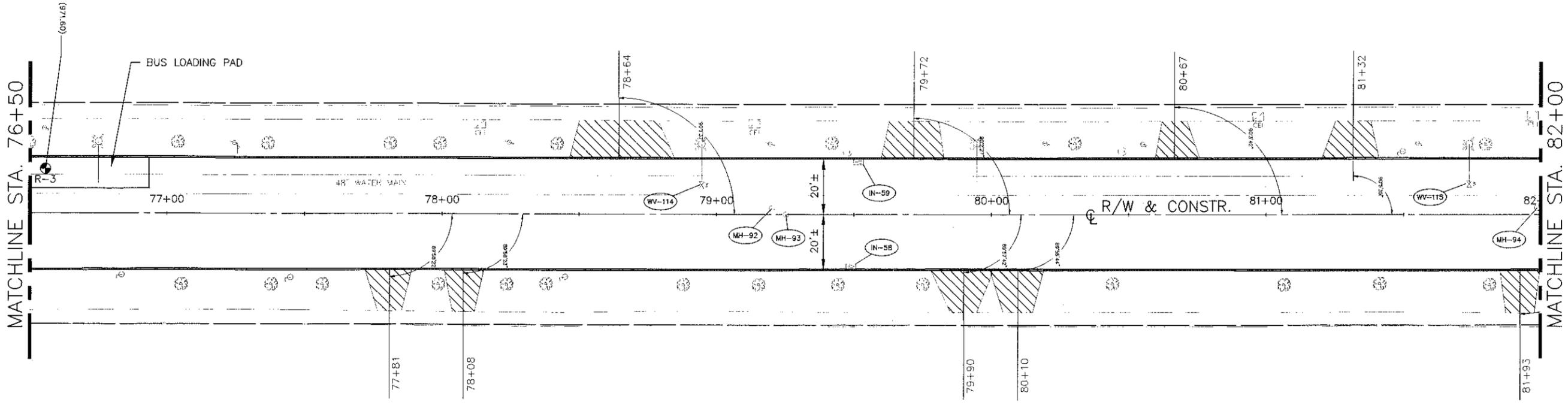


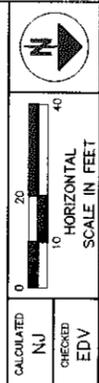
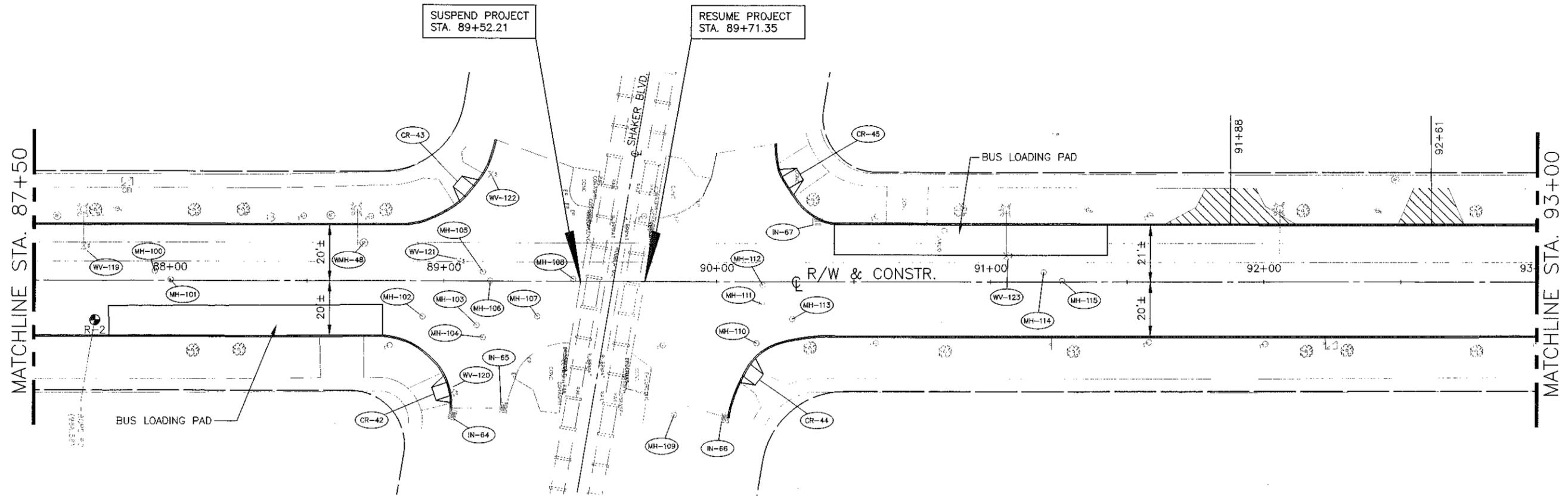
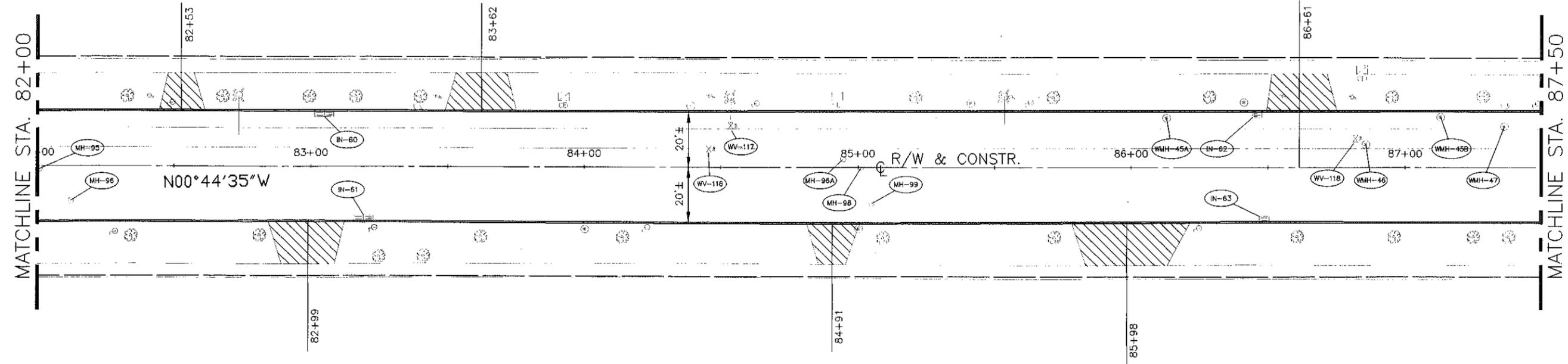
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HORIZONTAL
SCALE IN FEET

**REHABILITATION
OF LEE ROAD**

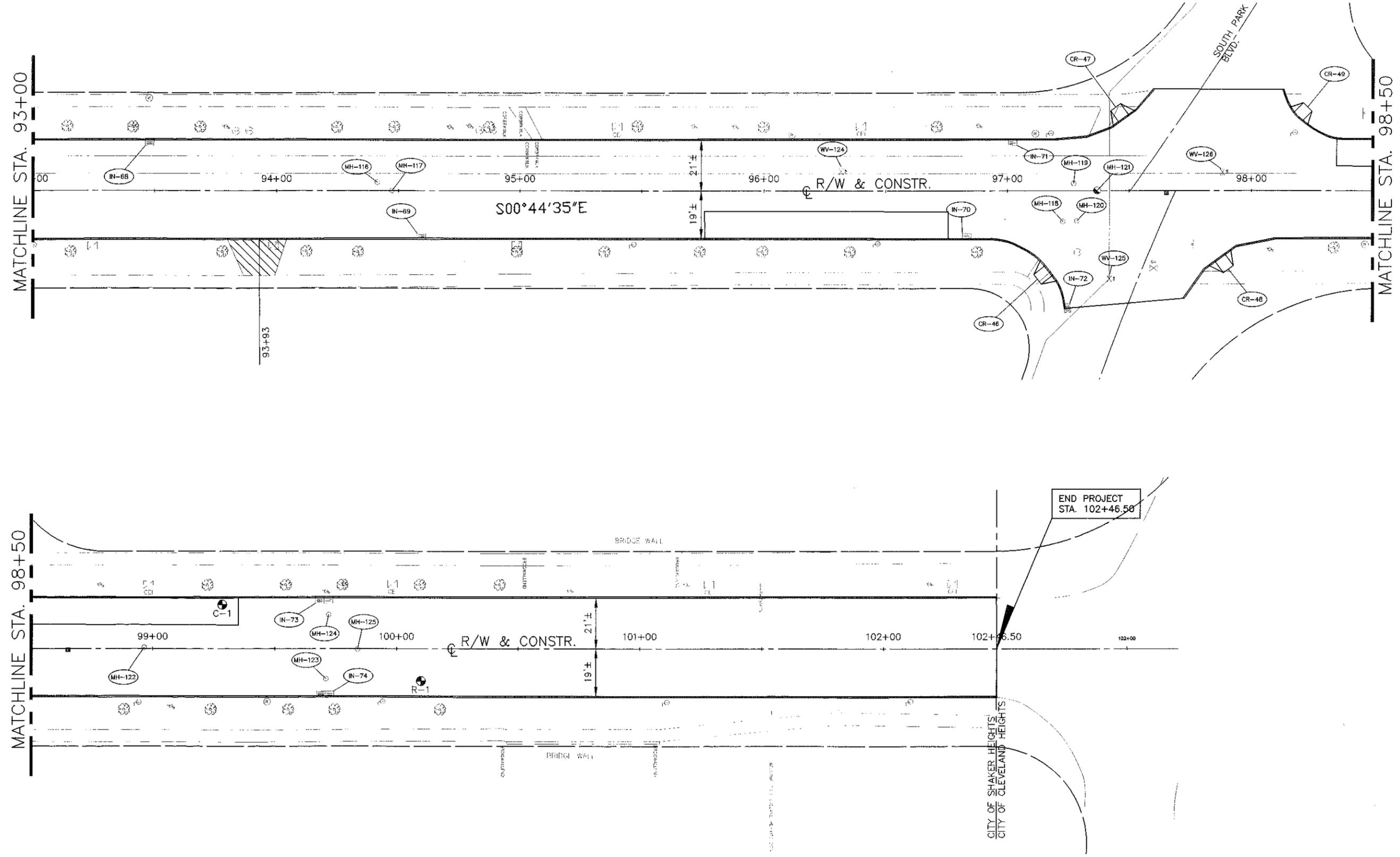
**PLAN AND PROFILE - LEE RD.
STA. 60+00 TO STA. 71+00**





CALCULATED
NJ
CHECKED
EDV

**REHABILITATION
OF LEE ROAD**
PLAN AND PROFILE - LEE RD.
STA. 82+00 TO STA. 93+00



CALCULATED
INJ
CHECKED
EDV

0 10 20 40
HORIZONTAL
SCALE IN FEET

N

REHABILITATION
OF LEE ROAD

PLAN AND PROFILE - LEE RD.
STA. 93+00 TO STA. 104+00

LEE ROAD REHABILITATION - DRAINAGE SUBSUMMARY

1 OF 10

STATION	ITEM 202			ITEM 603	ITEM 604				ITEM 638							
	ID #	SIDE	CATCH BASIN OR INLET REMOVED	MANHOLE REMOVED	PIPE CLEANING	PIPE REMOVED, 24" AND UNDER	12" CONDUIT TYPE B, 7+06.1 VCP-ES	CATCH BASIN NO. 1, CITY OF CLEVELAND CB-1	STORM MANHOLE	SANITARY MANHOLE	MANHOLE RECONST. TO GRADE	MANHOLE ADJUSTED TO GRADE	INLET ADJUSTED TO GRADE	HYDRANT ADJUSTED TO GRADE	VALVE BOX AND SERVICE AND ADJUSTED TO GRADE	METER AND CHAMBER REMOVED AND RESET
			EACH		EACH	LF	LF	EACH		EACH	EACH	EACH	EACH	EACH	EACH	EACH
3+18.00	WMH-1	13.1' RT									1					
3+44.00	MH-1	0.1' LT									1					
3+45.00	IN-1	24.6' RT										1				
3+47.00	IN-2	24.0' LT										1				
3+53.00	MH-2	1.0' LT									1					
3+60.00	WV-1	14.1' RT												1		
4+07.00	WV-2	10.0' LT												1		
4+63.00	WV-3	8.8' LT												1		
4+79.00	WMH-2	19.0' RT									1					
4+79.00	IN-3	62.6' RT										1				
4+82.00	WV-4	40.4' LT												1		
4+84.00	WV-5	17.2' RT												1		
4+95.00	WV-6	49.2' RT												1		
4+98.00	WV-7	40.5' RT												1		
5+00.00	WMH-3	88.3' LT									1					
5+03.00	MH-3	0.1' LT									1					
5+08.00	MH-4	7.9' RT									1					
5+08.00	MH-5	45.0' RT									1					
5+09.00	MH-6	0.7' LT									1					
5+11.00	WV-8	82.6' LT												1		
5+11.00	WV-9	91.6' LT												1		
5+18.00	WMH-4	41.4' LT									1					
5+22.00	WMH-5	44.5' RT									1					
5+22.00	IN-4	62.2' RT										1				
5+44.00	WV-10	17.7' RT												1		
5+50.00	WV-11	21.4' RT												1		
5+53.00	WV-12	8.4' LT												1		
5+54.00	WMH-6	17.3' RT									1					
5+57.00	IN-5	23.7' LT										1				
5+73.00	FH-1	27.3' LT											1			
5+73.00	WV-13	11.5' LT												1		
5+74.00	MH-7	5.5' RT									1					
5+76.00	IN-6	24.2' RT										1				
7+33.00	IN-7	24.1' RT										1				
7+38.00	IN-8	23.8' LT										1				
7+46.00	MH-8	5.6' RT									1					
7+63.00	WV-14	40.5' RT												1		
7+64.00	WMH-7	29.5' RT									1					
7+83.00	WV-15	12.9' RT												1		
7+84.00	WV-16	13.3' RT												1		
8+35.00	MH-9	0.5' LT									1					
8+47.00	WV-17	11.9' LT												1		
8+48.00	FH-2	25.4' LT											1			
8+80.00	WM-1	28.2' RT													1	
8+82.00	WV-18	5.5' LT												1		
8+87.00	WV-19	27.9' LT												1		

ESTIMATED QUANTITIES

REHABILITATION OF LEE ROAD

LEE ROAD REHABILITATION - DRAINAGE SUBSUMMARY

2 OF 10

STATION			ITEM 202				ITEM 603	ITEM 604					ITEM 638			
	ID #	SIDE	CATCH BASIN OR INLET REMOVED	MANHOLE REMOVED	PIPE CLEANING	PIPE REMOVED, 24" AND UNDER	12" CONDUIT TYPE B, 7+06.1 VCP-ES	CATCH BASIN NO. 1, CITY OF CLEVELAND CB-1	STORM MANHOLE	SANITARY MANHOLE	MANHOLE RECONST. TO GRADE	MANHOLE ADJUSTED TO GRADE	INLET ADJUSTED TO GRADE	HYDRANT ADJUSTED TO GRADE	VALVE BOX AND SERVICE AND ADJUSTED TO GRADE	METER AND CHAMBER REMOVED AND RESET
			EACH		EACH	LF	LF	EACH		EACH	EACH	EACH	EACH	EACH	EACH	EACH
9+65.00	WV-20	28.9' RT													1	
9+67.00	WM-2	36.3' LT														1
9+68.00	WV-21	10.1' LT													1	
10+35.00	IN-9	24.2' RT										1				
10+36.00	IN-10	24.0' LT										1				
10+45.00	MH-10	5.7' RT									1					
10+50.00	WV-22	27.8' RT													1	
10+75.00	WV-23	39.4' LT													1	
11+23.00	WV-24	10.5' LT													1	
11+24.00	WM-3	37.4' LT														1
11+41.00	FH-3	26.7' LT											1			
11+42.00	WV-25	11.5' LT													1	
11+84.00	WV-26	16.9' RT													1	
11+89.00	WMH-8	18.3' RT									1					
12+05.00	WV-27	26.9' RT													1	
12+06.00	WV-28	10.4' LT													1	
12+06.00	WM-4	36.5' LT														1
12+32.00	IN-11	23.8' LT										1				
12+37.00	IN-12	24.1' RT										1				
12+41.00	MH-11	5.4' RT									1					
12+87.00	WV-29	26.1' RT													1	
13+63.00	WM-5	29.2' RT														1
13+64.00	WV-30	6.6' LT													1	
14+11.00	WV-31	10.0' LT													1	
14+12.00	WM-6	36.2' LT														1
14+33.00	WV-32	10.0' LT													1	
14+36.00	MH-12	0.6' RT									1					
14+48.00	WV-33	8.2' LT													1	
14+54.00	IN-13	24.0' LT										1				
14+56.00	IN-14	24.2' RT										1				
14+68.00	MH-13	6.1' RT									1					
14+70.00	WV-34	10.4' LT													1	
14+70.00	FH-4	27.7' LT											1			
14+93.00	WM-7	30.5' RT														1
15+70.00	WV-35	28.8' RT													1	
16+42.00	WM-8	38.7' LT														1
16+45.00	WV-36	10.0' LT													1	
16+84.00	WV-37	28.3' RT													1	
17+07.00	IN-15	24.1' RT										1				
17+08.00	IN-16	23.9' LT										1				
17+20.00	MH-14	6.2' RT														
17+37.00	MH-15	0.8' LT									1					
17+67.00	WV-38	27.6' RT													1	
17+69.00	WV-39	10.9' LT													1	
17+81.00	FH-5	28.4' RT											1			
18+05.00	WV-40	34.6' RT													1	
18+09.00	WV-41	12.5' LT													1	

ESTIMATED QUANTITIES

REHABILITATION OF LEE ROAD

LEE ROAD REHABILITATION - DRAINAGE SUBSUMMARY

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STATION	ID #	SIDE	ITEM 202				ITEM 603	ITEM 604						ITEM 638			
			CATCH BASIN OR INLET REMOVED	MANHOLE REMOVED	PIPE CLEANING	PIPE REMOVED, 24" AND UNDER	12" CONDUIT TYPE B, 7+06.1 VCP-ES	CATCH BASIN NO. 1, CITY OF CLEVELAND CB-1	STORM MANHOLE	SANITARY MANHOLE	MANHOLE RECONST. TO GRADE	MANHOLE ADJUSTED TO GRADE	INLET ADJUSTED TO GRADE	HYDRANT ADJUSTED TO GRADE	VALVE BOX AND SERVICE AND ADJUSTED TO GRADE	METER AND CHAMBER REMOVED AND RESET	
			EACH		EACH	LF	LF	EACH		EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
18+10.00	WM-9	36.5' LT													1		
18+43.00	WV-42	27.4' LT												1			
18+51.00	WV-43	29.9' RT												1			
18+83.00	WM-10	36.8' LT													1		
18+84.00	WV-44	9.7' LT												1			
19+02.00	WV-45	17.3' RT												1			
19+12.00	WMH-9	21.5' RT									1			1			
19+12.00	WV-46	9.9' RT												1			
19+14.00	MH-16	3.6' RT									1						
19+22.00	WMH-10	12.8' RT									1						
19+27.00	WMH-11	29.9' RT									1						
19+52.00	WMH-12	12.9' RT									1						
19+76.00	WV-47	8.3' LT												1			
19+80.00	WM-11	28.4' RT													1		
20+09.00	IN-17	22.0' RT										1					
20+12.00	IN-18	21.9' LT										1					
20+29.00	MH-17	6.6' RT									1						
20+37.00	MH-18	0.1' LT									1						
20+47.00	MH-19	5.0' LT									1						
20+66.00	WV-48	29.5' RT												1			
20+69.00	WM-12	37.3' LT													1		
21+00.00	FH-6	27.4' LT											1				
21+01.00	WV-49	10.4' LT												1			
22+39.00	WM-13	36.9' LT													1		
22+39.00	WV-50	10.0' LT												1			
23+06.00	IN-19	23.6' LT										1					
23+06.00	MH-20	6.0' LT									1						
23+12.00	IN-20	24.0' RT										1					
23+29.00	MH-21	2.8' RT									1						
23+77.00	IN-21	24.1' RT										1					
24+00.00	FH-7	31.4' LT											1				
24+01.00	WV-51	9.7' LT												1			
24+02.00	WM-14	32.6' RT													1		
24+09.00	WV-52	8.3' LT												1			
24+41.00	WV-53	28.4' RT												1			
24+54.00	MH-22	28.3' RT									1						
24+89.00	MH-E	55.8' RT		1						1							
25+00.00	WM-15	36.0' LT													1		
25+09.00	MH-23	30.0' RT									1						
25+13.00	IN-22	23.7' RT										1					
25+25.00	WV-54	17.7' RT												1			
25+26.92	MH-D	37.8' RT		1						1							
25+27.00	MH-24	37.8' RT															
25+55.00	MH-25	4.8' LT									1						
25+55.00	MH-26	3.9' RT									1						
25+64.00	MH-27-MH-C	3.7' RT		1						1							
25+77.00	IN-23	23.2' RT										1					

ESTIMATED QUANTITIES

REHABILITATION OF LEE ROAD

LEE ROAD REHABILITATION - DRAINAGE SUBSUMMARY

STATION			ITEM 202				ITEM 603	ITEM 604						ITEM 638		
	ID #	SIDE	CATCH BASIN OR INLET REMOVED	MANHOLE REMOVED	PIPE CLEANING	PIPE REMOVED, 24" AND UNDER	12" CONDUIT TYPE B, 7+06.1 VCP-ES	CATCH BASIN NO. 1, CITY OF CLEVELAND CB-1	STORM MANHOLE	SANITARY MANHOLE	MANHOLE RECONST. TO GRADE	MANHOLE ADJUSTED TO GRADE	INLET ADJUSTED TO GRADE	HYDRANT ADJUSTED TO GRADE	VALVE BOX AND SERVICE AND ADJUSTED TO GRADE	METER AND CHAMBER REMOVED AND RESET
			EACH		EACH	LF	LF	EACH		EACH	EACH	EACH	EACH	EACH	EACH	EACH
25+86.00	IN-24	33.9' LT										1				
26+01.00	WV-55	26.7' RT													1	
26+16.00	IN-25	23.2' RT										1				
26+24.00	IN-26	33.9' LT										1				
26+91.00	WM-16	46.5' LT														1
27+00.00	FH-8	39.9' LT											1			
27+00.00	WV-56	10.1' LT													1	
27+28.00	WV-57	8.1' LT													1	
27+30.00	WV-58	7.7' LT													1	
27+31.00	WM-17	53.3' LT														1
27+37.00	IN-27	34.0' LT										1				
27+72.00	WV-59	8.2' LT													1	
28+39.00	MH-Q	2.04' RT						1								
28+59.00	WV-60	13.2' RT													1	
28+61.00	MH-28	2.0' LT									1					
28+84.00	WMH-13	8.6' RT									1					
29+01.00	MH-29	30.0' RT									1					
29+19.00	MH-30-MH-B	2.4' RT		1					1							
29+44.00	MH-31	51.4' RT									1					
29+59.00	WV-61	7.7' LT													1	
29+60.00	WV-62	69.6' RT													1	
29+63.00	MH-32	28.2' LT									1					
29+79.00	MH-33	55.4' LT									1					
29+80.00	MH-34	0.3' RT									1					
29+82.00	WV-63	29.1' RT													1	
29+88.2	MH-34A	41.9' RT									1					
29+93.00	MH-35	26.7' RT									1					
29+93.00	MH-36	2.0' RT									1					
30+06.00	MH-37	41.9' RT									1					
30+25.00	MH-38	46.4' RT									1					
30+26.00	MH-39-MH-A	4.5' RT		1					1							
30+26.00	WV-64	7.8' LT													1	
30+28.00	IN-28	67.1' RT										1				
31+32.00	MH-40	0.1' LT									1					
30+56.00	WMH-14	17.8' LT									1					
31+13.00	WMH-15	20.1' LT									1					
31+62.00	IN-29	44.7' RT										1				
31+93.00	MH-41 NEORS	52.3' RT									1					
31+95.00	MH-42	9.9' RT									1					
32+00.00	MH-IN-43	44.9' RT									1					
32+24.00	WV-65	51.9' LT													1	
32+26.00	WV-66	6.7' LT													1	
32+26.00	WV-67	52.0' LT													1	
32+86.00	WV-68	8.8' LT													1	
32+58.00	IN-30	29.7' RT	1													
33+04.00	FH-9	52.7' LT											1			
33+24.00	WMH-16	18.8' LT									1					

ESTIMATED QUANTITIES

REHABILITATION OF LEE ROAD

LEE ROAD REHABILITATION - DRAINAGE SUBSUMMARY

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STATION			ITEM 202				ITEM 603	ITEM 604					ITEM 638			
	ID #	SIDE	CATCH BASIN OR INLET REMOVED	MANHOLE REMOVED	PIPE CLEANING	PIPE REMOVED, 24" AND UNDER	12" CONDUIT TYPE B, 7+06.1 VCP-ES	CATCH BASIN NO. 1, CITY OF CLEVELAND CB-1	STORM MANHOLE	SANITARY MANHOLE	MANHOLE RECONST. TO GRADE	MANHOLE ADJUSTED TO GRADE	INLET ADJUSTED TO GRADE	HYDRANT ADJUSTED TO GRADE	VALVE BOX AND SERVICE AND ADJUSTED TO GRADE	METER AND CHAMBER REMOVED AND RESET
			EACH		EACH	LF	LF	EACH		EACH	EACH	EACH	EACH	EACH	EACH	EACH
33+34.00	WM-18	65.0' LT														1
33+35.00	WM-19	57.8' LT														1
33+36.00	MH-44	6.0' RT									1					
33+36.00	WV-69	7.1' LT												1		
33+36.00	MH-45	1.2' LT									1					
33+45.00	IN-31	49.8' LT										1				
33+48.00	WMH-17	18.8' LT									1					
33+52.00	MH-46	14.6' RT									1					
33+53.00	IN-32	17.9' RT										1				
33+72.00	WM-20	21.7' RT														1
33+87.00	MH-47	6.1' LT									1					
33+87.00	WV-70	22.4' LT												1		
33+87.00	WMH-18	11.8' LT									1					
33+97.00	WMH-19	19.8' LT									1					
34+28.00	WMH-20	20.0' LT									1					
35+18.00	WV-71	21.9' RT												1		
35+53.00	WV-72	39.8' LT												1		
35+54.00	WMH-21	46.9' LT									1					
35+63.00	WV-73	41.6' LT												1		
35+73.00	WMH-22	41.6' LT									1					
35+86.00	FH-10	51.2' LT											1			
35+86.00	WV-73A	12' LT												1		
36+34.00	MH-48	5.3' RT									1					
36+36.00	IN-33	47.3' LT	1													
36+37.00	MH-49	0.3' LT									1					
36+47.00	IN-34	20.2' RT	1													
36+48.00	MH-50	13.9' RT									1					
36+54.00	WV-74	44.9' LT												1		
36+61.00	WMH-23	47.8' LT									1					
36+71.00	WV-75	15.4' LT												1		
36+71.00	WMH-24	28.5' RT									1					
36+72.00	WMH-25	48.2' LT									1					
36+75.00	WV-76	19.6' RT												1		
36+77.00	WV-77	41.1' RT												1		
36+79.00	MH-51	2.7' LT									1					
36+79.00	MH-52	37.0' LT									1					
36+83.00	WV-78	47.6' LT												1		
36+83.00	WV-79	39.3' RT												1		
36+93.00	MH-53	3.0' LT									1					
37+08.00	MH-54	50.1' LT									1					
37+19.00	IN-35	37.3' RT										1				
37+50.00	CB-34A	35.5' RT						1								
38+34.00	MH-55	0.4' LT									1					
38+39.00	WV-80	6.4' LT												1		
38+41.00	MH-J	6.6' RT		1						1						
38+41.00		RT				1095										
38+43.00	WV-81	42.9' RT												1		

ESTIMATED QUANTITIES

REHABILITATION OF LEE ROAD

LEE ROAD REHABILITATION - DRAINAGE SUBSUMMARY

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STATION	ID #	SIDE	ITEM 202				ITEM 603	ITEM 604					ITEM 638				
			CATCH	MANHOLE	PIPE	PIPE	12"	CATCH BASIN	STORM	SANITARY	MANHOLE	MANHOLE	INLET	HYDRANT	VALVE BOX	METER AND	
			BASIN	REMOVED	CLEANING	REMOVED,	CONDUIT	NO. 1, CITY OF	MANHOLE	MANHOLE	MANHOLE	MANHOLE	ADJUSTED	ADJUSTED	ADJUSTED	AND SERVICE	CHAMBER
			OR INLET			24" AND	TYPE B,	CLEVELAND			TO GRADE	TO GRADE	TO GRADE	TO GRADE	AND ADJUSTED	AND RESET	
					UNDER	7+06.1	CB-1										
						VCP-ES											
			EACH		EACH	LF	LF	EACH		EACH	EACH	EACH	EACH	EACH	EACH		
38+45.00	WV-82	38.5' LT													1		
38+49.00	WV-83	56.8' LT													1		
38+76.00	MH-56	12.7' RT										1					
38+76.00	IN-36	29.1' RT	1														
38+89.00	MH-57	12.4' LT									1						
39+17.00	WMH-26	15.4' RT									1						
39+38.00	IN-37	49.0' LT	1														
40+00.00	FH-10A	48.2' LT											1				
40+00.00	WV-84	48.2' RT													1		
40+01.00	WV-85	10.4' LT													1		
40+94.00	IN-37A	43.5' LT											1				
41+37.00	MH-58-MH-K	8.1' RT		1						1							
41+44.00	WM-21	47.6' LT														1	
41+46.00	WV-86	7.2' LT													1		
41+60.00	FH-11	48.3' LT											1				
41+61.00	WV-87	10.9' LT													1		
42+20.00	MH-59	43.9' RT										1					
42+35.00	WMH-27	17.1' RT										1					
42+51.00	WV-88	4.5' LT													1		
42+41.00	WM-22	26.1' RT														1	
42+65.00	WMH-28	17.4' RT										1					
42+74.5	IN-37B	58.3' LT											1				
42+75.00	WV-89	14.1' RT													1		
42+75.00	WMH-29	25.7' RT										1					
42+97.00	MH-60	44.1' LT										1					
43+03.00	WMH-30	17.3' RT										1					
43+09.00	IN-37C	58.6' LT											1				
43+87.00	MH-61	0.1' RT											1				
43+98.00	MH-62	45.3' RT											1				
44+36.00	MH-63-MH-L	8.1' RT		1						1							
44+40.00	WMH-31	15.9' RT										1					
44+43.00	IN-38	43.7' RT											1				
44+75.00	IN-39	20.1' RT											1				
44+76.00	MH-64	12.8' LT									1						
44+86.00	FH-12	44.7' LT												1			
44+87.00	WV-90	11.4' LT													1		
44+97.00	WMH-32	14.9' RT										1					
46+44.00	IN-40	35.1' LT											1				
46+87.00	MH-65-MH-M	8.2' RT		1						1							
47+87.00	FH-13	23.0' LT												1			
47+87.00	WV-91	11.0' LT													1		
48+09.50	IN-40A	20.5' RT											1				
48+22.00	IN-40B	20.6' LT											1				
49+36.51	MH-65A-MH-N			1						1							
50+61.00	MH-66-MH-O	28.0' LT		1						1							
50+60.00		28.5' LT					454										
50+61.00	MH-67-MH-P	29.1' RT		1						1							

ESTIMATED QUANTITIES

REHABILITATION OF LEE ROAD

LEE ROAD REHABILITATION - DRAINAGE SUBSUMMARY

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STATION	ID #	SIDE	ITEM 202		ITEM 603		ITEM 604						ITEM 638				
			CATCH BASIN OR INLET REMOVED	MANHOLE REMOVED	PIPE CLEANING	PIPE REMOVED, 24" AND UNDER	12" CONDUIT TYPE B, 7+06.1 VCP-ES	CATCH BASIN NO. 1, CITY OF CLEVELAND CB-1	STORM MANHOLE	SANITARY MANHOLE	MANHOLE RECONST. TO GRADE	MANHOLE ADJUSTED TO GRADE	INLET ADJUSTED TO GRADE	HYDRANT ADJUSTED TO GRADE	VALVE BOX AND SERVICE AND ADJUSTED TO GRADE	METER AND CHAMBER REMOVED AND RESET	
			EACH		EACH	LF	LF	EACH		EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
50+61.00		28.6' RT				454											
51+07.00	WV-92	10.3' LT													1		
51+08.00	FH-14	23.4' LT											1				
51+53.00	IN-41	19.8' RT										1					
51+62.00	IN-42	20.1' RT										1					
53+21.00	WV-93	5.9' LT													1		
53+76.00	WV-94	10.3' RT													1		
53+77.00	WV-95	4.0' LT													1		
53+86.00	FH-15	24.1' LT											1				
53+86.00	WV-96	12.4' LT													1		
54+64.00	IN-43	20.7' RT											1				
54+64.00	IN-44	20.2' LT											1				
54+90.00	MH-68	0.2' LT										1					
54+91.00	WV-97	7.5' LT													1		
55+03.00	WV-98	15.2' RT													1		
55+04.00	WMH-33	17.8' RT										1					
55+07.00	MH-69	0.1' LT										1					
55+08.00	MH-70	36.2' RT										1					
55+10.00	MH-71	18.3' RT										1					
55+15.00	MH-72	1.6' RT										1					
55+15.00	MH-73	28.6' LT										1					
55+15.00	MH-74	28.6' RT										1					
55+23.00	WV-99	41.0' RT													1		
55+23.00	WV-100	40.8' LT													1		
55+65.00	MH-75	12.6' LT										1					
55+65.00	MH-76	13.2' RT										1					
55+70.00	IN-45	20.3' LT											1				
55+72.00	IN-46	20.0' RT											1				
56+81.00	WV-101	16.3' LT													1		
56+98.00	WV-102	8.0' LT													1		
57+25.00	WMH-34	15.1' LT										1					
57+33.00	IN-47	19.9' RT											1				
57+73.00	WV-103	17.9' LT													1		
57+73.00	WMH-35	7.3' LT										1					
57+83.00	WMH-36	14.5' LT										1					
58+17.00	MH-77	0.5' RT										1					
58+33.00	WMH-37	14.6' LT										1					
59+62.00	IN-48	19.7' RT											1				
59+80.00	WMH-38	7.6' LT										1					
59+80.00	WV-104	11.0' LT													1		
59+93.00	IN-49	29.0' RT											1				
60+07.00	WV-105	17.4' RT													1		
60+09.00	WV-106	40.6' RT													1		
60+10.00	WV-107	38.3' LT													1		
60+25.00	MH-78	6.8' LT										1					
60+27.00	MH-79	0.5' RT										1					
60+27.00	MH-80	12.7' RT										1					

ESTIMATED QUANTITIES

REHABILITATION OF LEE ROAD

LEE ROAD REHABILITATION - DRAINAGE SUBSUMMARY

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STATION	ID #	SIDE	ITEM 202			ITEM 603	ITEM 604						ITEM 638				
			CATCH BASIN OR INLET REMOVED	MANHOLE REMOVED	PIPE CLEANING	PIPE REMOVED, 24" AND UNDER	12" CONDUIT TYPE B, 7+06.1 VCP-ES	CATCH BASIN NO. 1, CITY OF CLEVELAND CB-1	STORM MANHOLE	SANITARY MANHOLE	MANHOLE RECONST. TO GRADE	MANHOLE ADJUSTED TO GRADE	INLET ADJUSTED TO GRADE	HYDRANT ADJUSTED TO GRADE	VALVE BOX AND SERVICE AND ADJUSTED TO GRADE	METER AND CHAMBER REMOVED AND RESET	
			EACH		EACH	LF	LF	EACH		EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
60+38.00	WMH-39	14.2' LT									1						
62+83.00	MH-81	12.5' RT									1						
62+83.00	IN-50	19.9' RT										1					
62+84.00	IN-51	20.0' LT										1					
62+91.00	MH-82	0.4' RT									1						
65+63.00	IN-52	20.8' LT										1					
65+67.00	IN-53	23.8' RT										1					
65+70.00	MH-83	18.8' RT									1						
65+74.00	MH-84	0.6' LT									1						
65+77.00	MH-85	12.3' RT									1						
65+78.00	MH-86	6.4' LT									1						
65+92.00	MH-87	39.0' LT									1						
67+90.00	MH-88	0.5' LT									1						
68+15.00	MH-89	11.6' RT									1						
68+39.00	MH-90	18.5' LT									1						
69+08.00	IN-54	20.4' LT										1					
69+42.00	IN-55	20.1' RT										1					
69+60.00	IN-56	20.4' LT										1					
69+89.00	IN-57	20.0' RT										1					
71+07.00	WMH-40	14.7' LT									1						
71+45.00	WMH-41	14.4' LT									1						
71+55.00	WV-108	11.6' LT												1			
72+03.00	WMH-42	14.4' LT									1						
73+00.00	WMH-43	14.4' LT									1						
74+38.00	WV-109	9.6' LT												1			
74+41.00	WMH-44	8.0' LT									1						
74+70.00	WV-110	24.9' LT												1			
74+90.00	WV-111	22.9' LT												1			
75+62.00	WV-112	6.6' LT												1			
75+75.00	WV-113	10.7' LT												1			
75+86.00	WMH-45	14.2' LT									1						
76+26.00	MH-91										1						
78+95.00	WV-114	10.7' LT												1			
79+20.00	MH-92	2.2' LT									1						
79+25.00	MH-93										1						
79+49.00	IN-58	19.9' RT										1					
79+52.00	IN-59	20.0' LT										1					
81+74.00	WV-115	11.1' LT												1			
81+99.00	MH-94	2.5' LT									1						
82+01.00	MH-95	1.0' RT									1						
82+12.00	MH-96	12.6' RT									1						
83+05.00	IN-60	20.1' LT										1					

ESTIMATED QUANTITIES

REHABILITATION OF LEE ROAD

LEE ROAD REHABILITATION - DRAINAGE SUBSUMMARY

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STATION			ITEM 202				ITEM 603	ITEM 604						ITEM 638		
	ID #	SIDE	CATCH BASIN OR INLET REMOVED	MANHOLE REMOVED	PIPE CLEANING	PIPE REMOVED, 24" AND UNDER	12" CONDUIT TYPE B, 7+06.1 VCP-ES	CATCH BASIN NO. 1, CITY OF CLEVELAND CB-1	STORM MANHOLE	SANITARY MANHOLE	MANHOLE RECONST. TO GRADE	MANHOLE ADJUSTED TO GRADE	INLET ADJUSTED TO GRADE	HYDRANT ADJUSTED TO GRADE	VALVE BOX AND SERVICE AND ADJUSTED TO GRADE	METER AND CHAMBER REMOVED AND RESET
			EACH		EACH	LF	LF	EACH		EACH	EACH	EACH	EACH	EACH	EACH	EACH
83+19.00	IN-61	19.8' RT										1				
84+46.00	WV-116	6.8' LT													1	
84+54.00	WV-117	15.2' LT													1	
84+95.00	MH-96A	3.0' LT									1					
85+01.00	MH-98										1					
85+05.00	MH-99	13.2' RT									1					
86+13.00	WMH-45A	18.1' LT									1					
86+46.00	IN-62	20.2' LT										1				
86+49.00	IN-63	19.7' RT										1				
86+82.00	WV-118	10.5' LT													1	
86+86.00	WMH-46	8.4' LT									1					
87+13.00	WMH-45B	18.4' LT									1					
87+36.00	WMH-47	14.9' LT									1					
87+68.00	WV-119	12.6' LT													1	
87+94.00	MH-100	3.5' LT									1					
88+00.00	MH-101	0.4' LT									1					
88+71.00	WMH-48	13.9' LT									1					
88+92.00	MH-102	13.0' RT									1					
89+02.00	IN-64	48.6' RT										1				
89+03.00	WV-120	40.7' RT													1	
89+05.00	WV-121	7.1' LT													1	
89+12.00	MH-103	16.0' RT									1					
89+14.00	MH-104	20.4' RT									1					
89+14.00	MH-105	3.4' LT									1					
89+17.00	WV-122	39.0' LT													1	
89+17.00	MH-106	0.2' LT									1					
89+23.00	IN-65	46.3' RT										1				
89+34.00	MH-107	12.7' RT									1					
89+47.00	MH-108	0.9' LT									1					
89+84.20	MH-109	48.6' RT									1					
89+95.00	MH-97	3.0' LT									1					
90+04.00	IN-66	49.6' RT										1				
90+14.00	MH-110	22.3' RT									1					
90+16.00	MH-111	8.1' RT									1					
90+17.00	MH-112	1.2' RT									1					
90+27.00	MH-113	13.5' RT									1					
90+37.00	IN-67	22.7' LT										1				
91+06.00	WV-123	9.6' LT													1	
91+19.00	MH-114	3.6' LT									1					
91+26.00	MH-115	0.3' LT									1					
93+48.00	IN-68	20.6' LT										1				
94+41.00	MH-116	3.6' LT									1					
94+47.00	MH-117	CL									1					
94+59.00	IN-69	19.6' RT										1				
96+32.00	WV-124	7.9' LT													1	
96+83.00	IN-70	19.6' RT										1				
97+02.00	IN-71	20.6' LT										1				

ESTIMATED QUANTITIES

REHABILITATION OF LEE ROAD

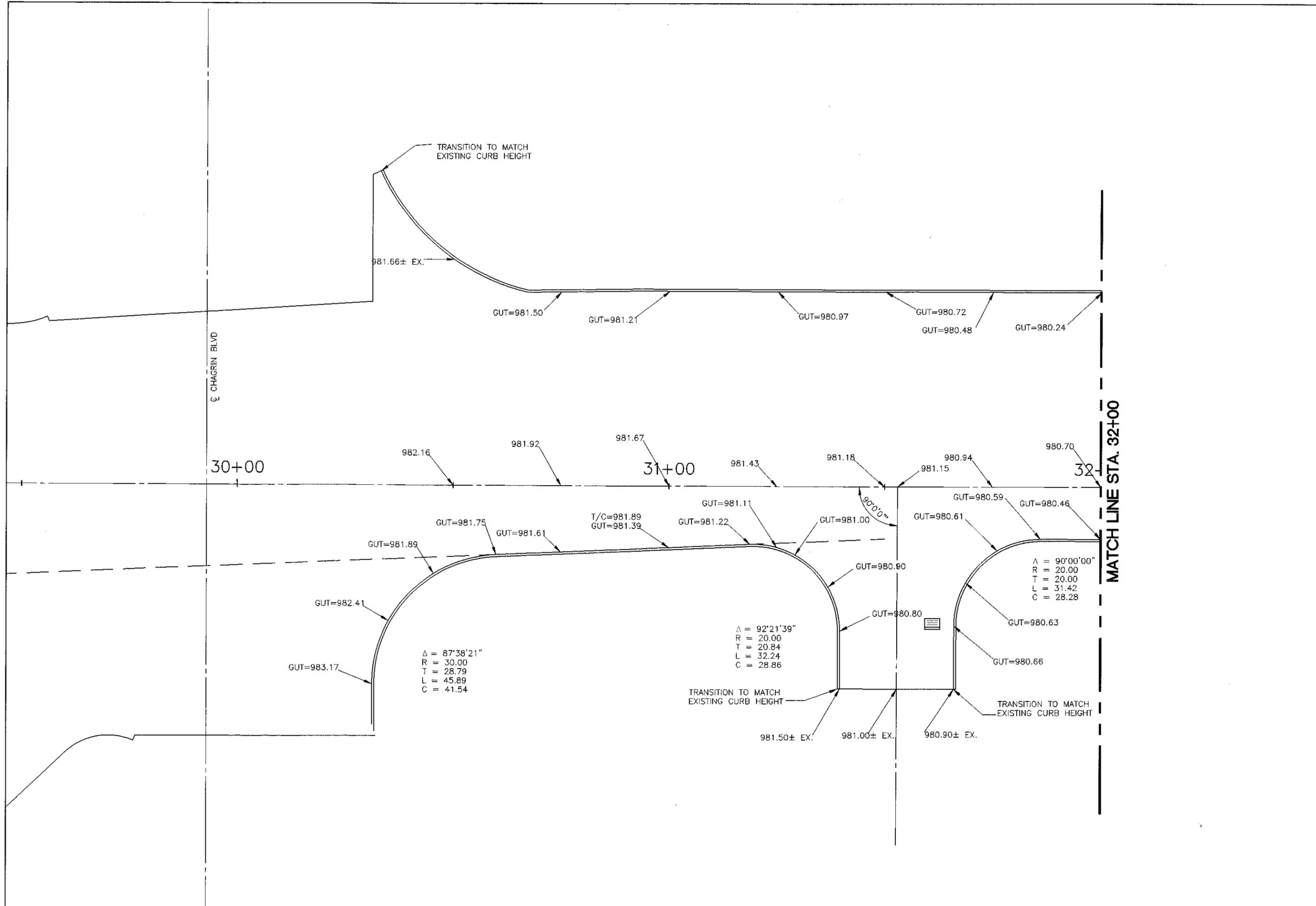
LEE ROAD REHABILITATION - DRAINAGE SUBSUMMARY

10 OF 10

STATION	ID #	SIDE	ITEM 202				ITEM 603	ITEM 604						ITEM 638			
			CATCH BASIN OR INLET REMOVED	MANHOLE REMOVED	PIPE CLEANING	PIPE REMOVED, 24" AND UNDER	12" CONDUIT TYPE B, 7+06.1 VCP-ES	CATCH BASIN NO. 1, CITY OF CLEVELAND CB-1	STORM MANHOLE	SANITARY MANHOLE	MANHOLE RECONST. TO GRADE	MANHOLE ADJUSTED TO GRADE	INLET ADJUSTED TO GRADE	HYDRANT ADJUSTED TO GRADE	VALVE BOX AND SERVICE AND ADJUSTED TO GRADE	METER AND CHAMBER REMOVED AND RESET	
			EACH		EACH	LF	LF	EACH		EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
97+23.00	MH-118	12.5' RT									1						
97+24.00	IN-72	48.1' RT										1					
97+27.00	MH-119	3.1' LT									1						
97+29.00	MH-120	12.3' RT									1						
97+37.00	MH-121	0.2' LT									1						
97+42.00	WV-125	36.1' RT												1			
97+88.00	WV-126	7.6' LT												1			
98+97.00	MH-122	0.5' LT									1						
99+70.00	IN-73	20.7' LT										1					
99+71.00	IN-74	19.4' RT										1					
99+71.00	MH-123	12.3' RT									1						
99+72.00	MH-124	13.9' LT									1						
99+84.00	MH-125	0.2' RT									1						
LOMOND BLVD																	
2+56.23	MH-F	28.87'LT									1						
3+80.95	MH-G	31.36'LT									1						
4+71.50	MH-I	23.9'RT									1						
4+71.85	MH-H	10.2'RT									1						
TOTALS			5	12		2003		1	1	16	2	167	74	16	127	+22.	

ESTIMATED QUANTITIES

REHABILITATION OF LEE ROAD

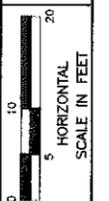


0 10 20
 HORIZONTAL SCALE IN FEET

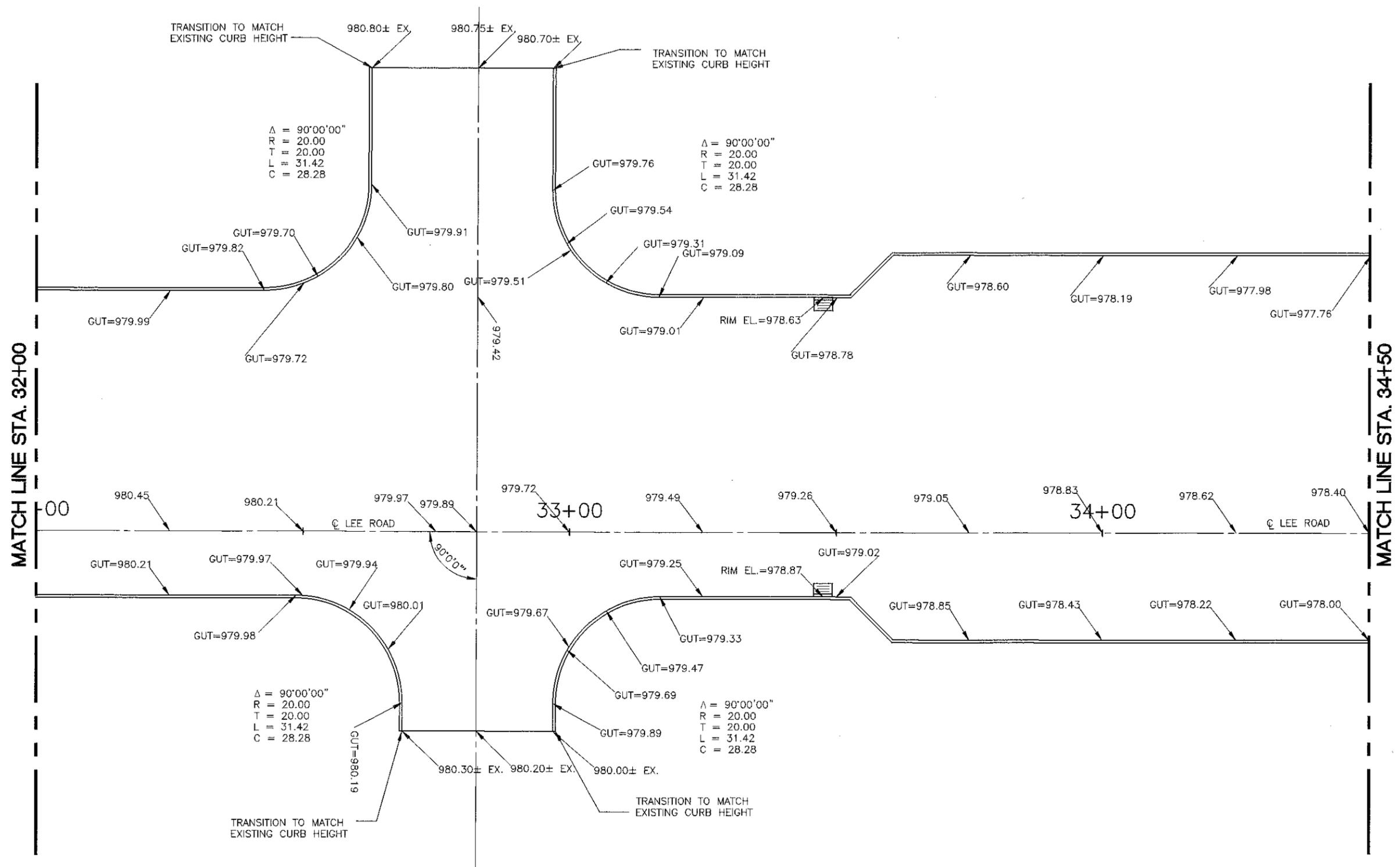
CALCULATED
 NU
 CHECKED
 EDV

INTERSECTION DETAILS
REHABILITATION OF LEE ROAD

LEE RD. REHAB.

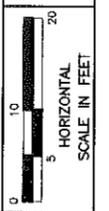


CALCULATED INJ CHECKED EDV



INTERSECTION DETAILS
REHABILITATION OF LEE ROAD

LEE RD. REHAB.



CALCULATED
INJ
CHECKED
EDV

MATCH LINE STA. 34+50

INTERSECTION DETAILS
REHABILITATION OF LEE ROAD

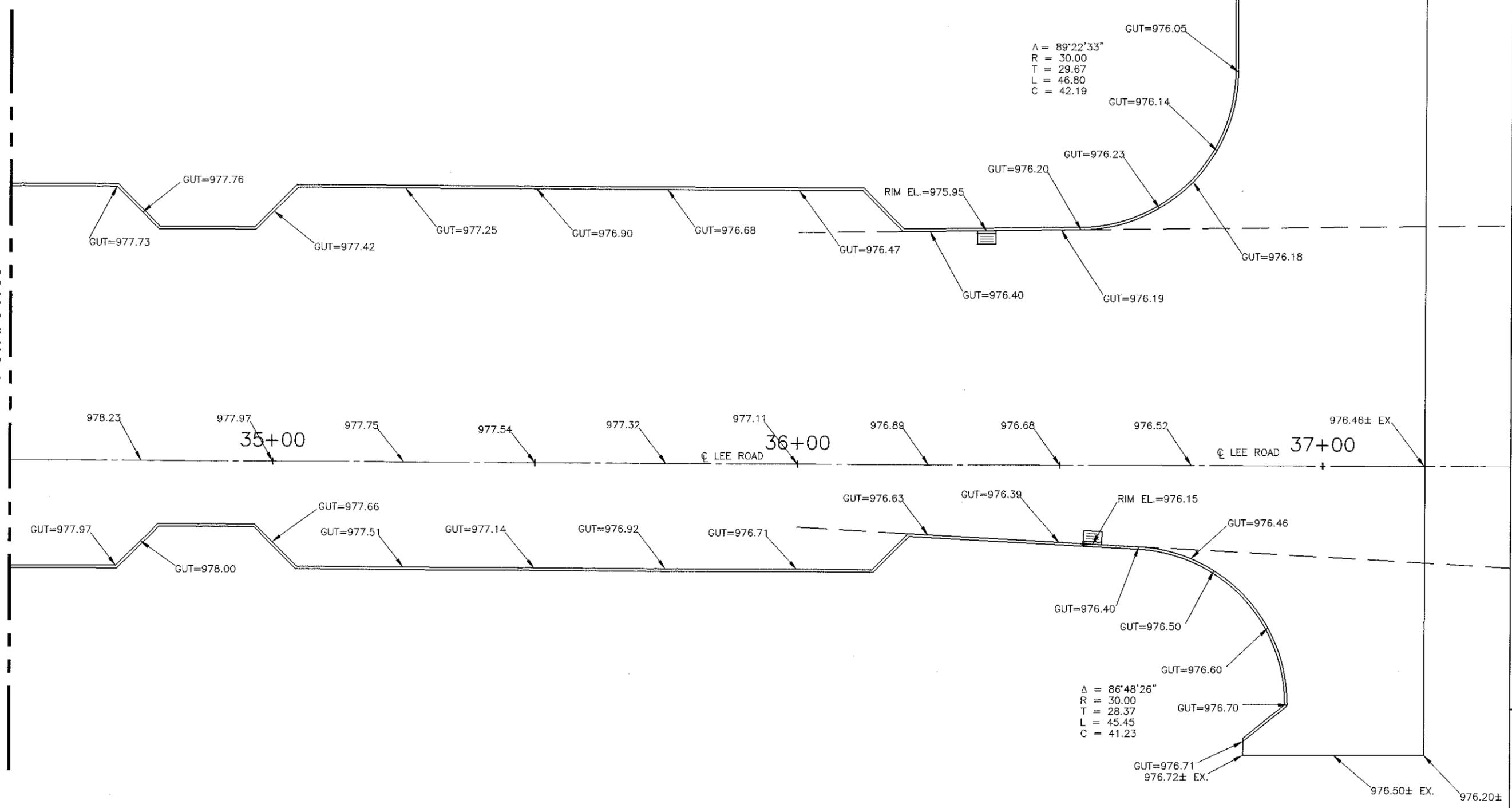
LEE RD. REHAB.

31
71

TRANSITION TO MATCH EXISTING CURB HEIGHT

$\Delta = 89^{\circ}22'33''$
 $R = 30.00$
 $T = 29.67$
 $L = 46.80$
 $C = 42.19$

$\Delta = 86^{\circ}48'26''$
 $R = 30.00$
 $T = 28.37$
 $L = 45.45$
 $C = 41.23$

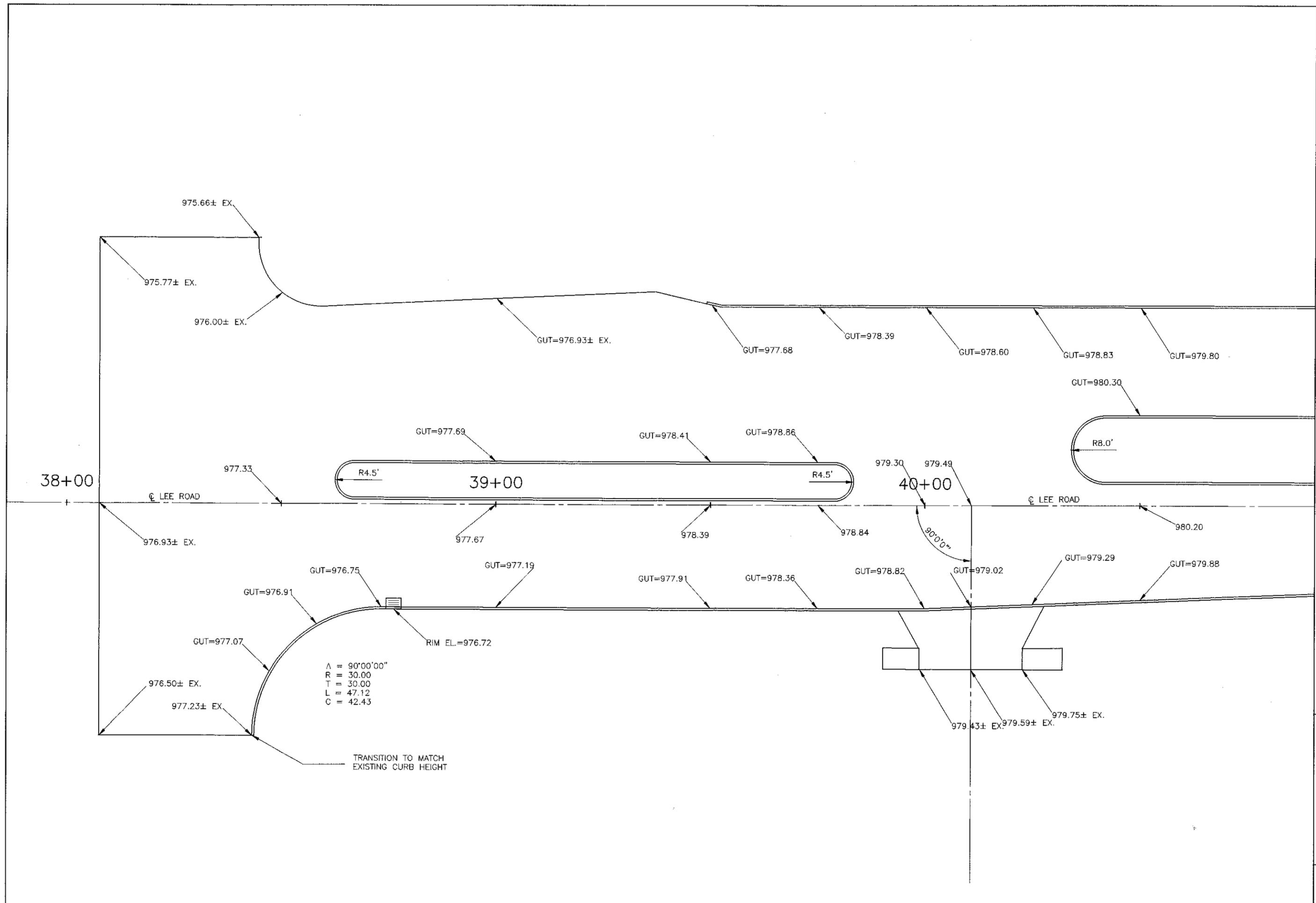


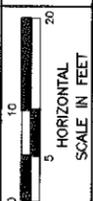


CALCULATED
NJ
CHECKED
EDV

INTERSECTION DETAILS
REHABILITATION OF LEE ROAD

LEE RD. REHAB.





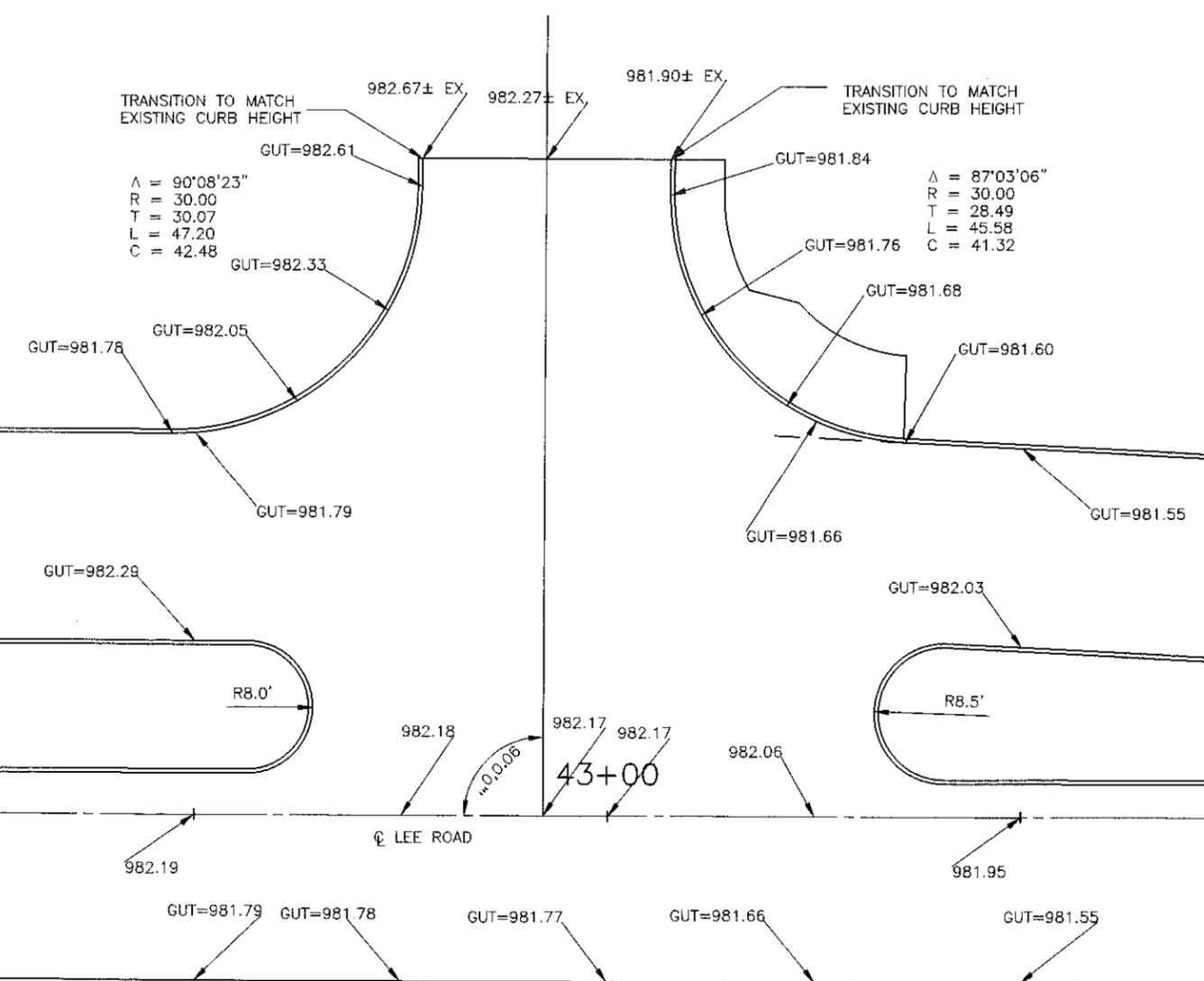
CALCULATED
BY
CHECKED
EDV

TRANSITION TO MATCH EXISTING CURB HEIGHT

$\Delta = 90^{\circ}08'23''$
 $R = 30.00$
 $T = 30.07$
 $L = 47.20$
 $C = 42.48$

TRANSITION TO MATCH EXISTING CURB HEIGHT

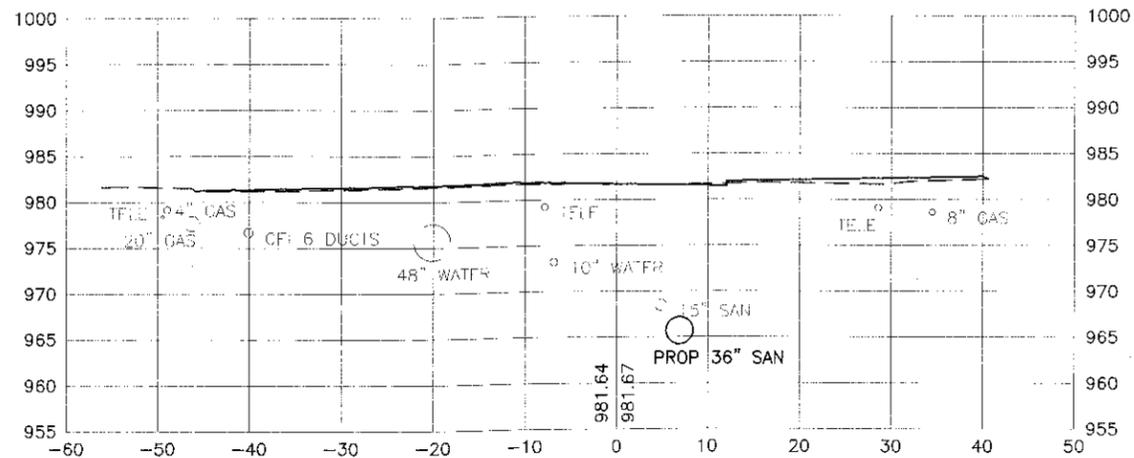
$\Delta = 87^{\circ}03'06''$
 $R = 30.00$
 $T = 28.49$
 $L = 45.58$
 $C = 41.32$



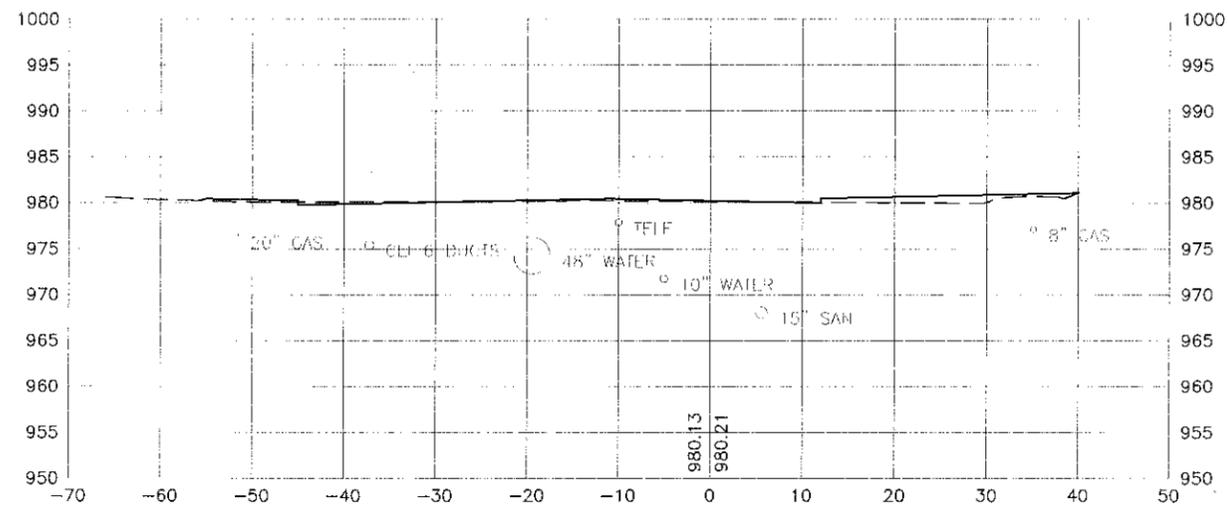
INTERSECTION DETAILS
REHABILITATION OF LEE ROAD

LEE RD. REHAB.

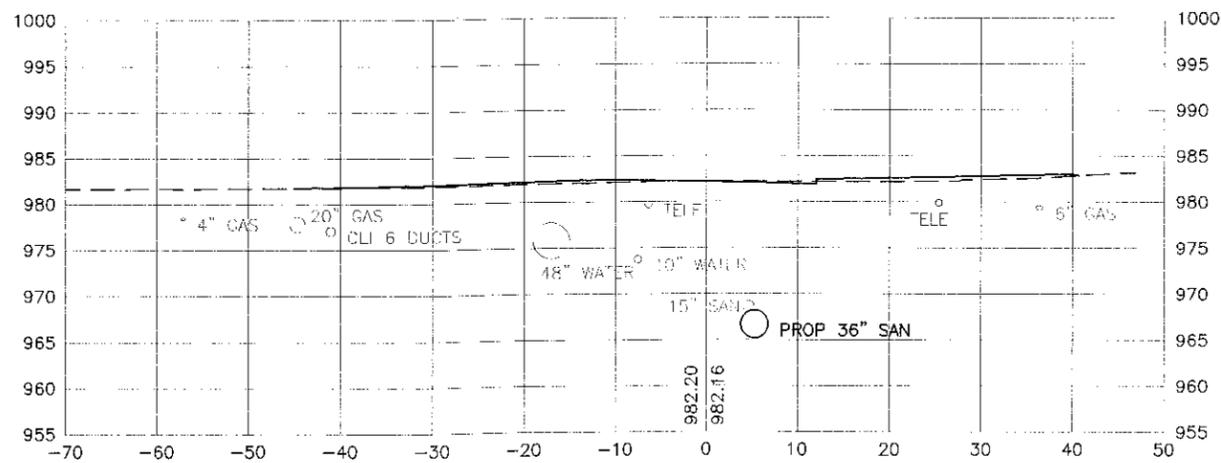
31+00



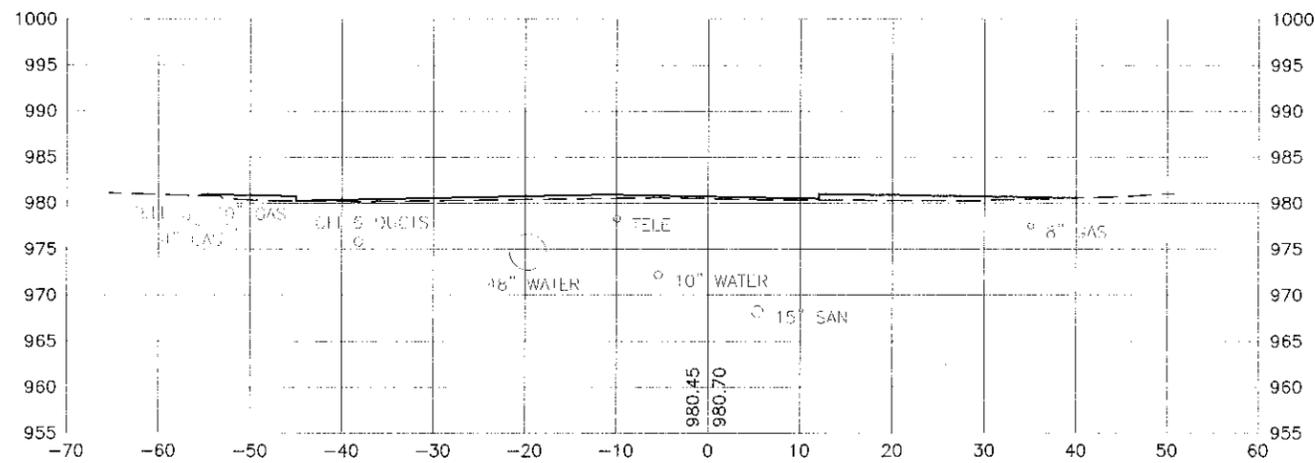
32+50



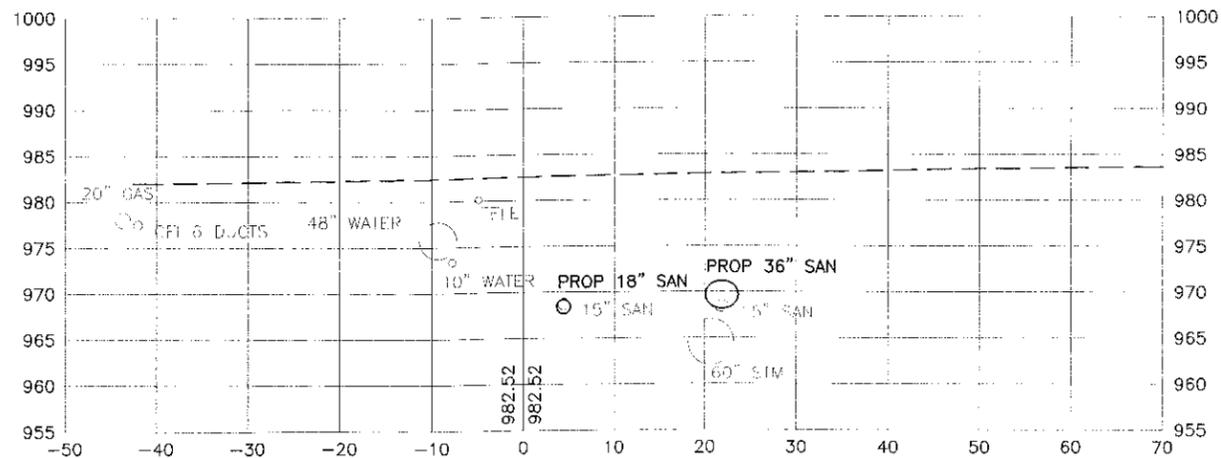
30+50



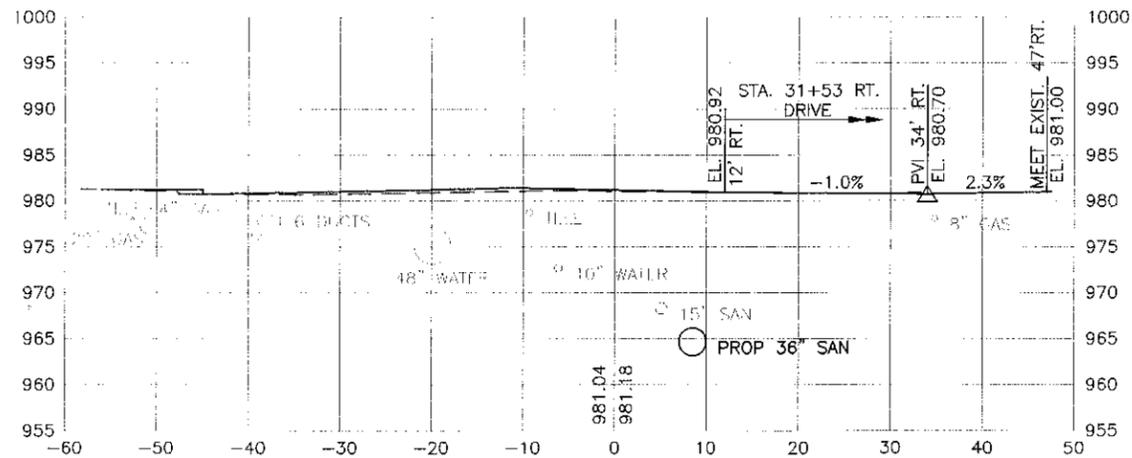
32+00



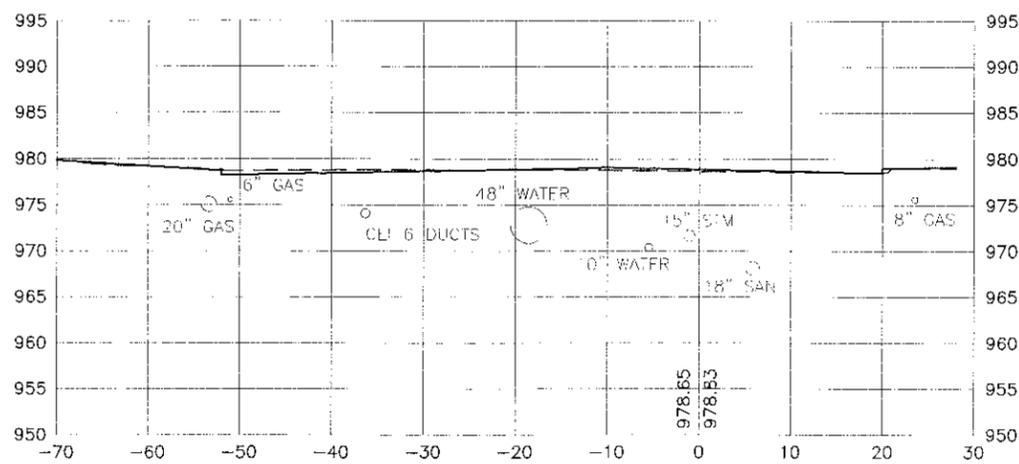
30+00



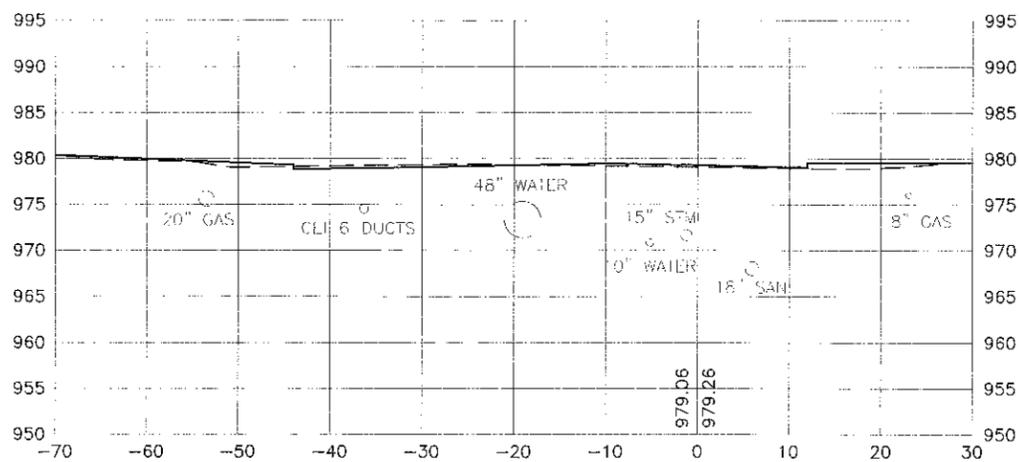
31+50



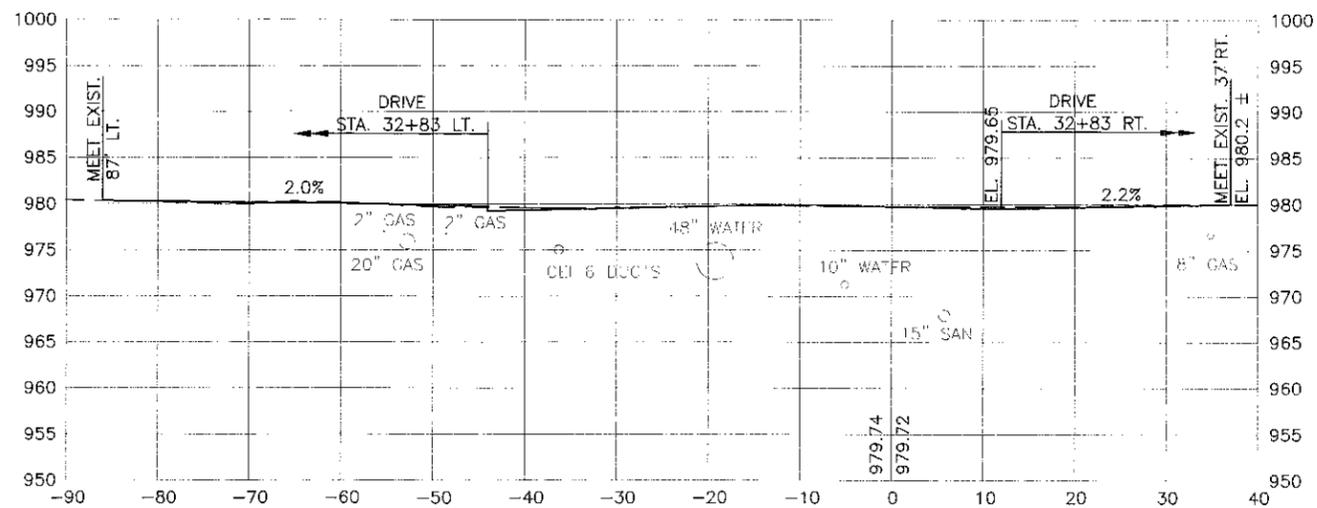
34+00



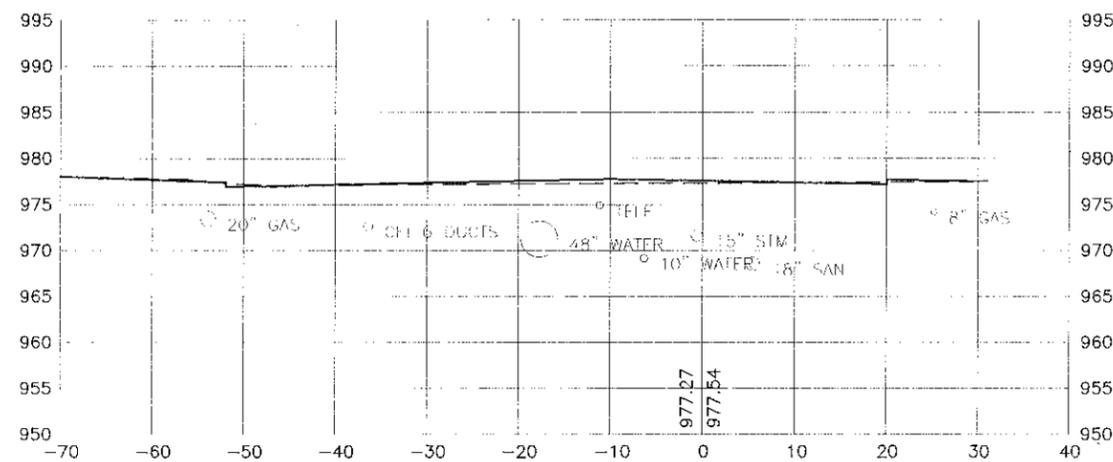
33+50



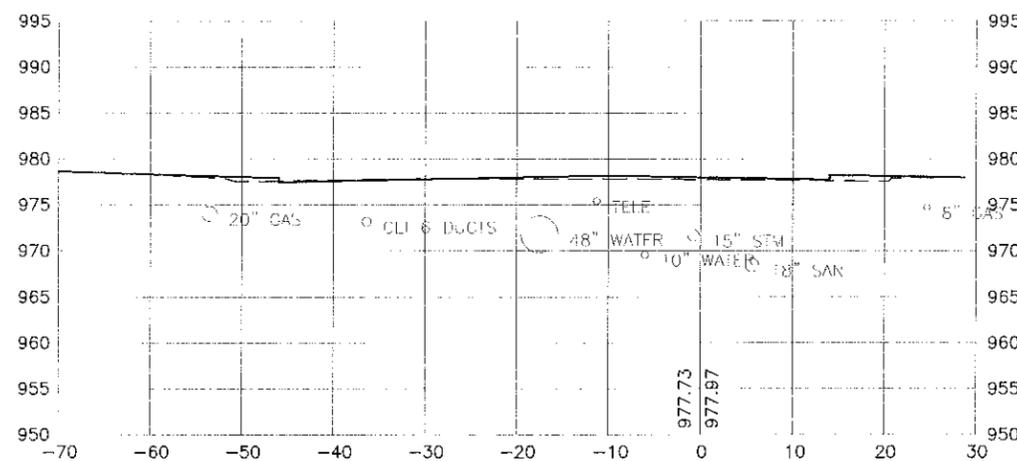
33+00



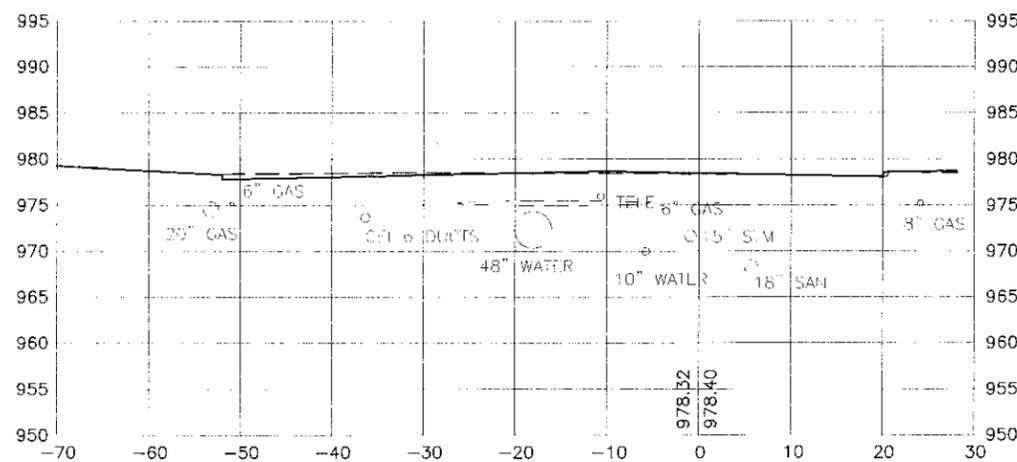
35+50



35+00

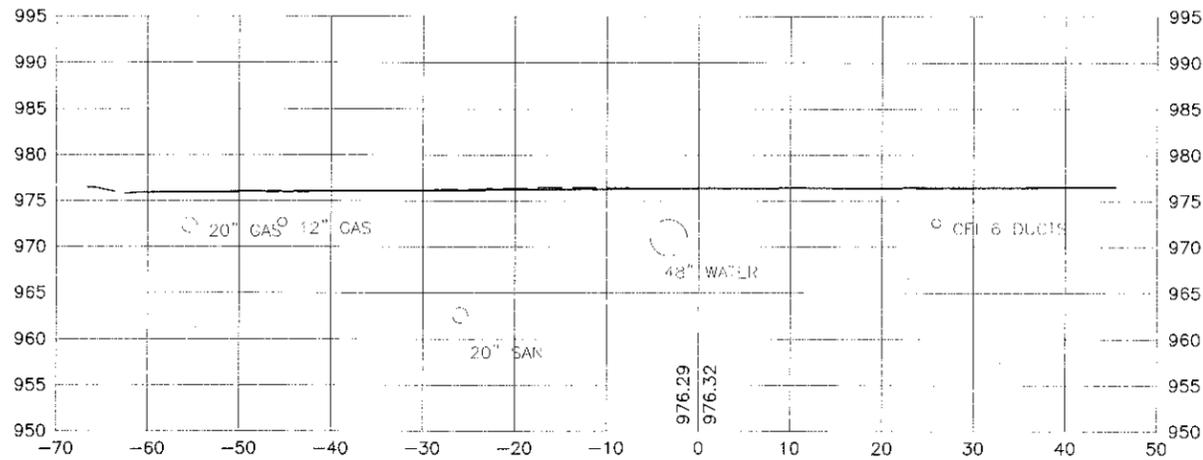


34+50

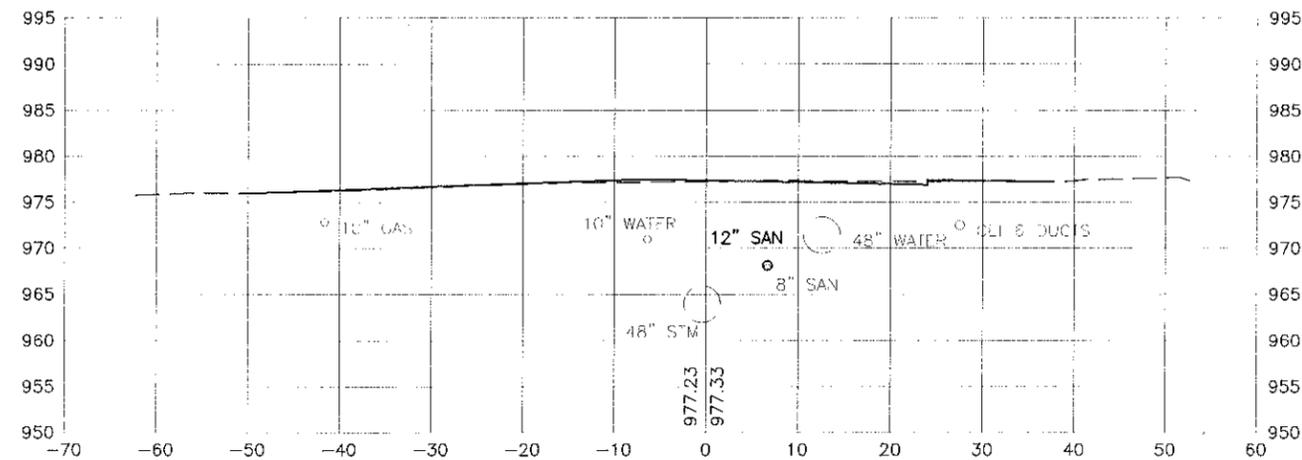


SUSPEND PROJECT STA. 37+20

37+00

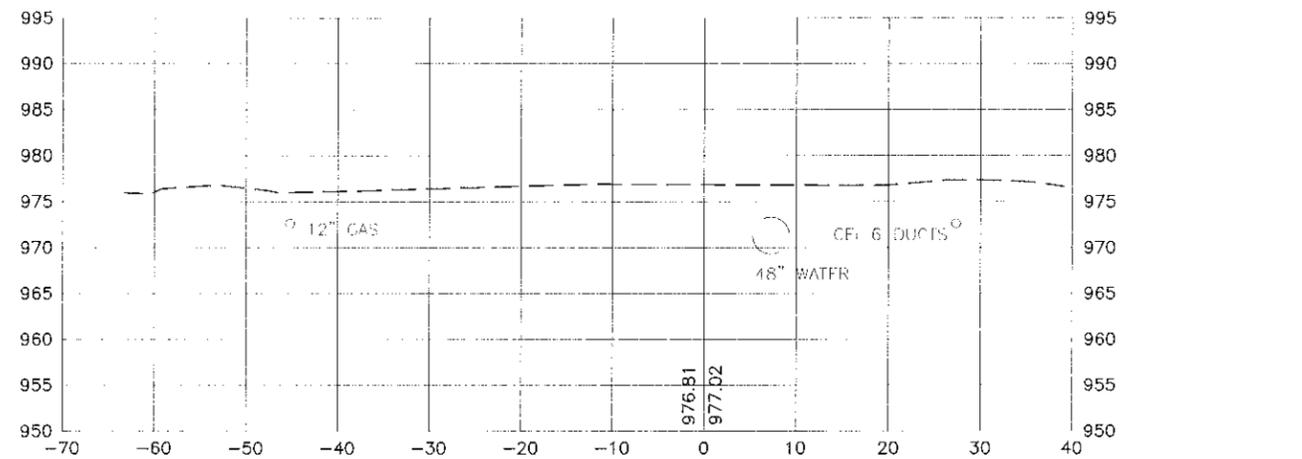


38+50

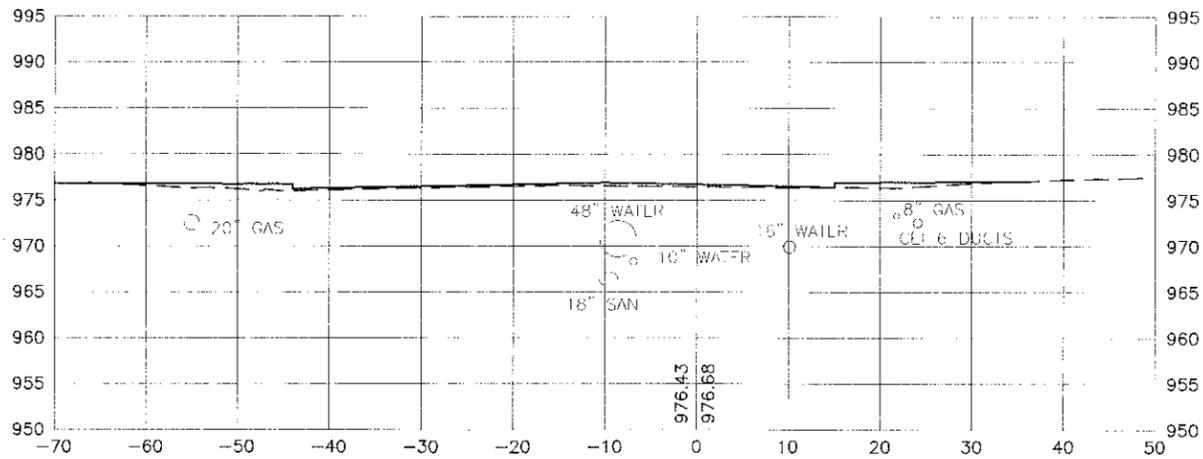


RESUME PROJECT STA. 38+08

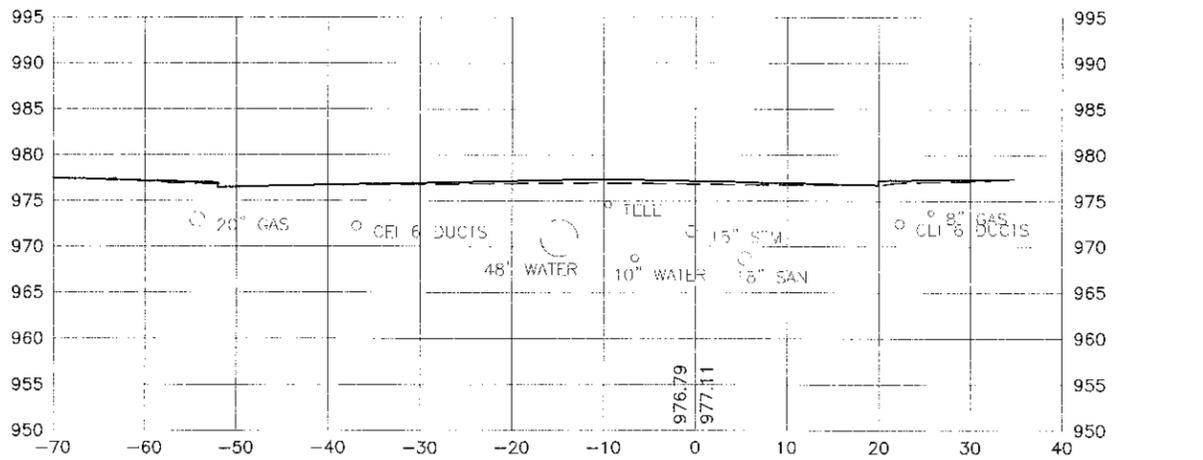
38+00



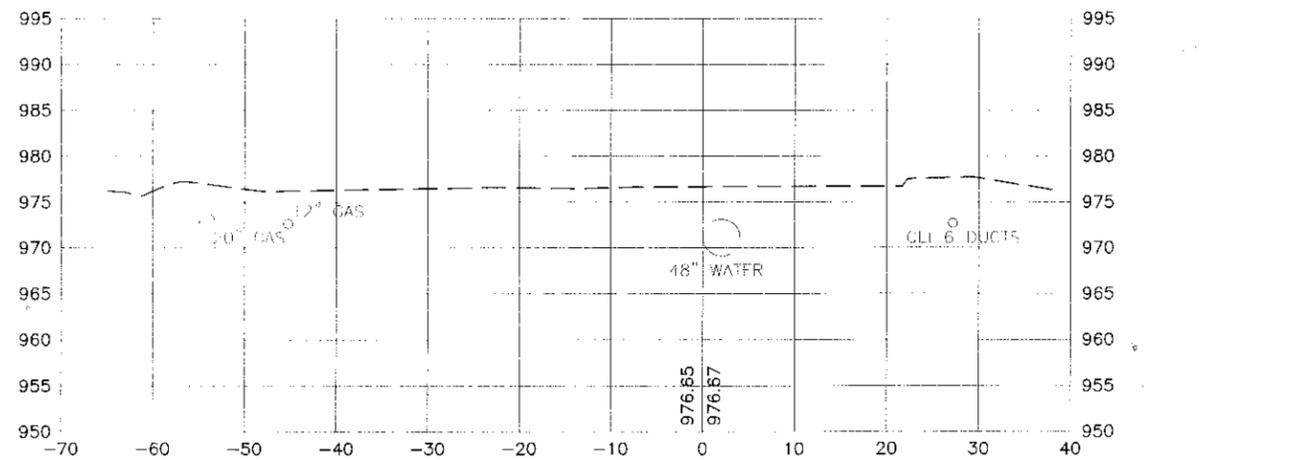
36+50



36+00

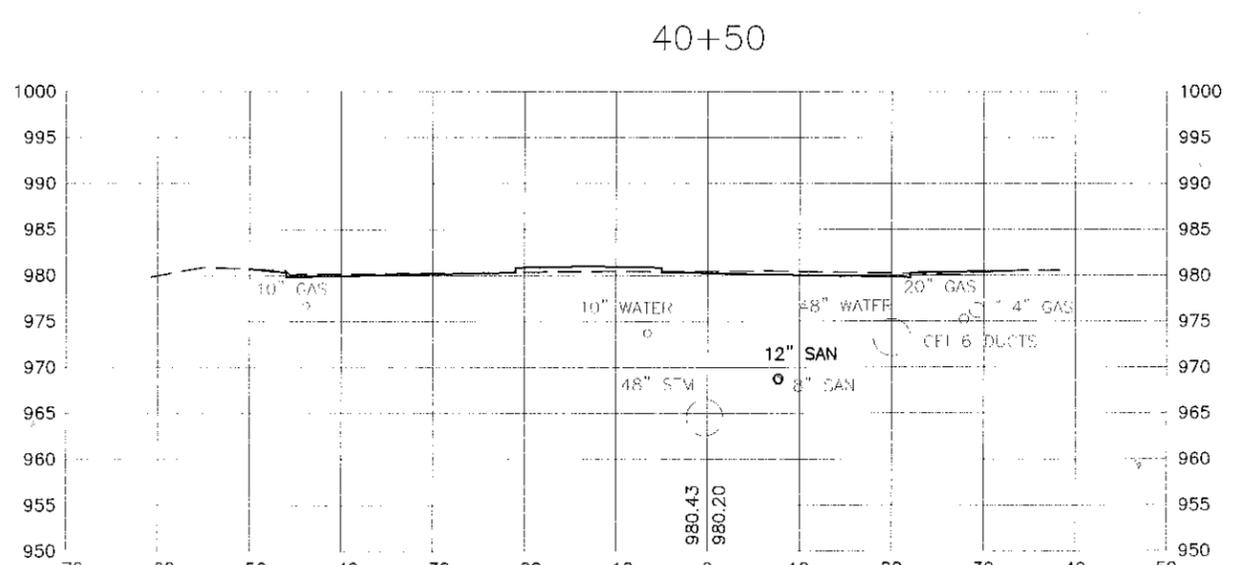
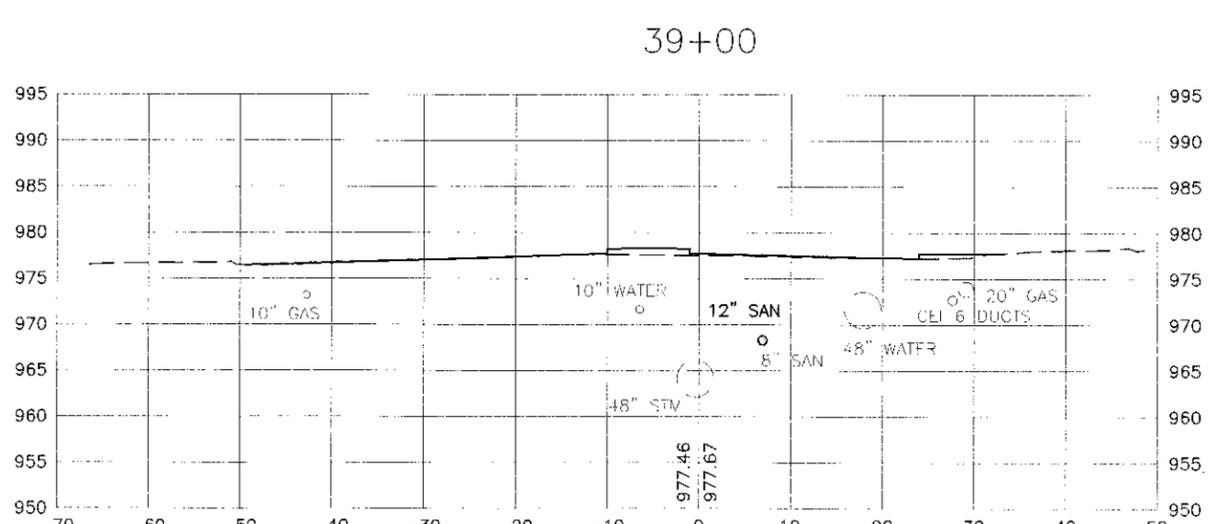
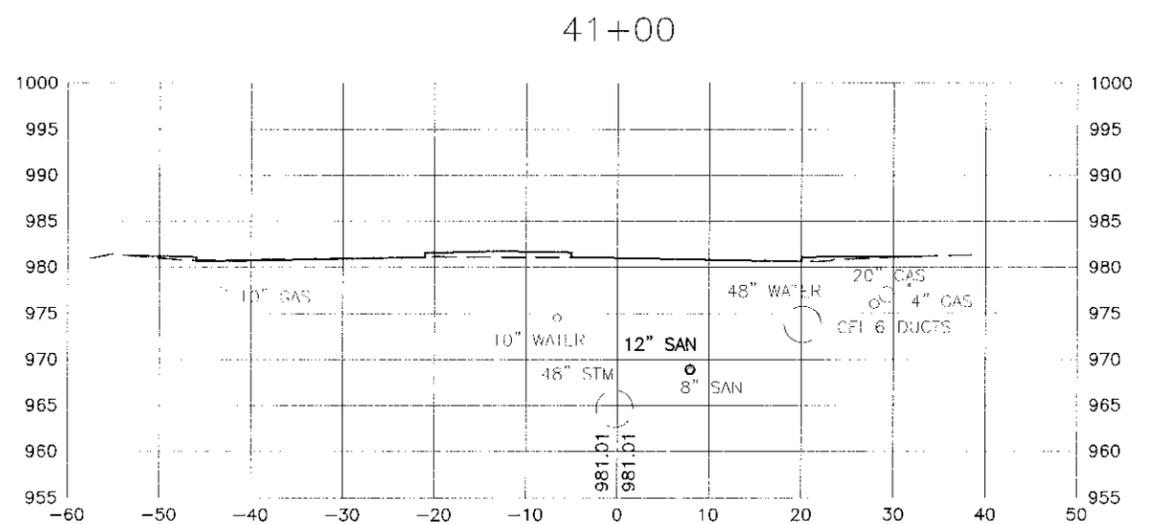
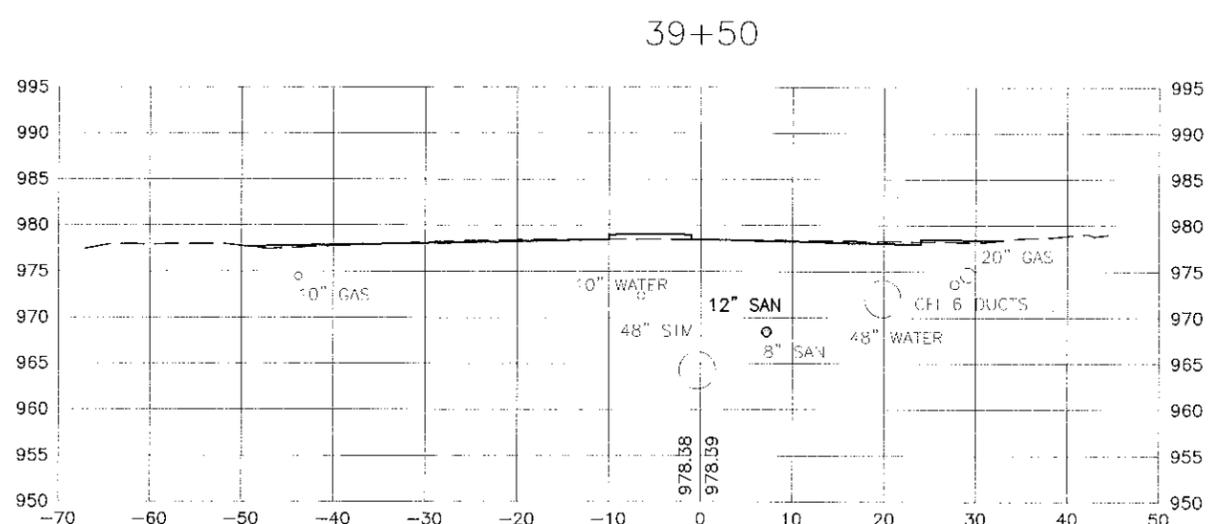
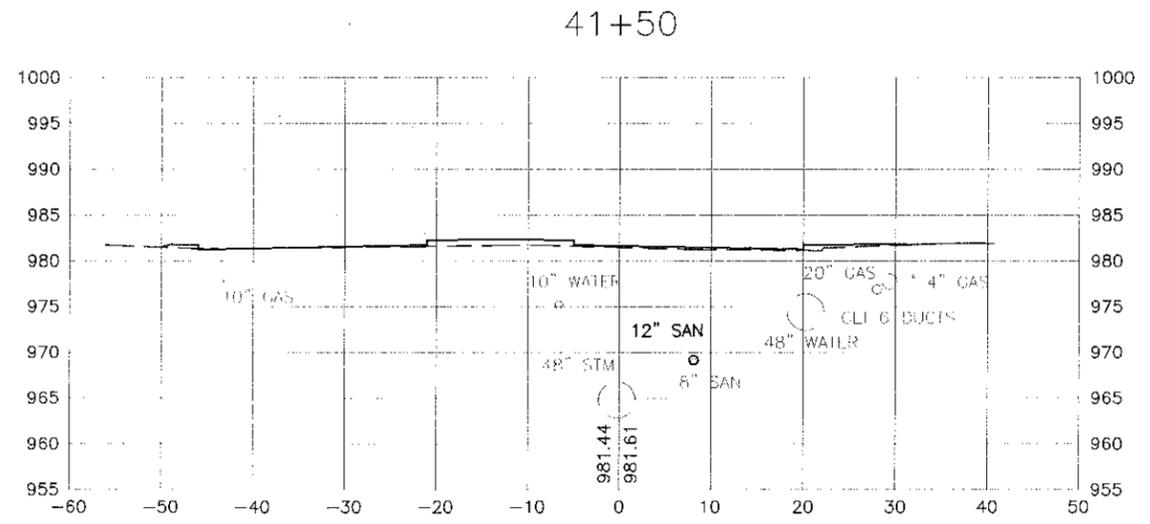
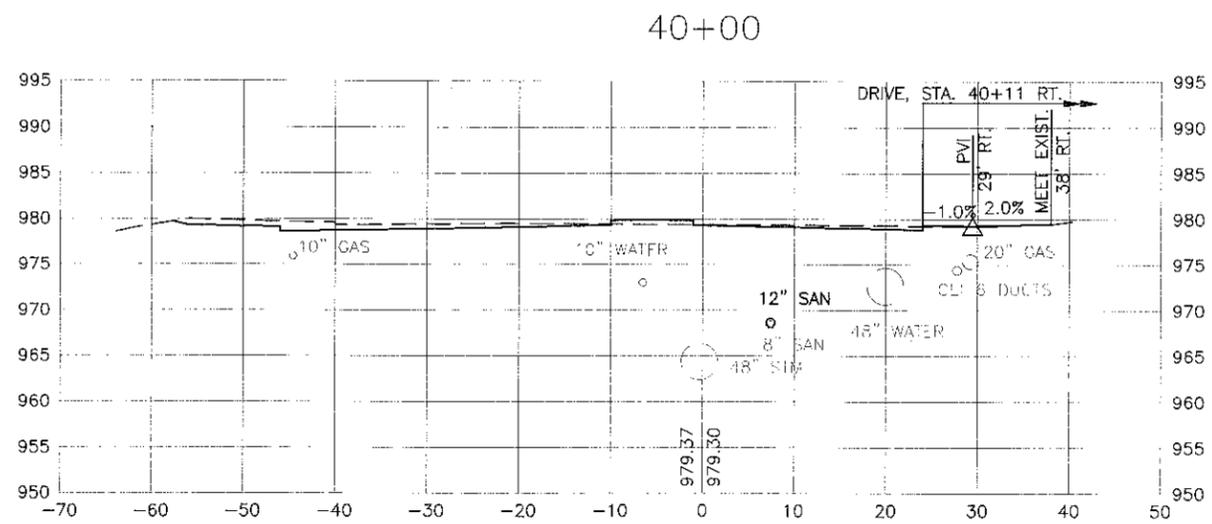


37+50

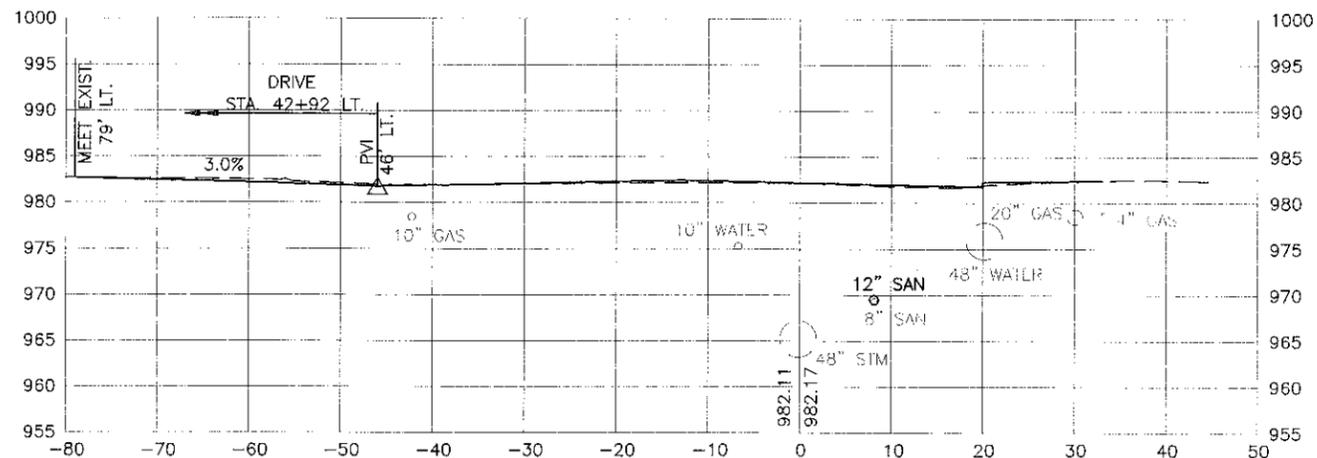


CROSS SECTIONS - STA. 36+00 TO STA. 38+50

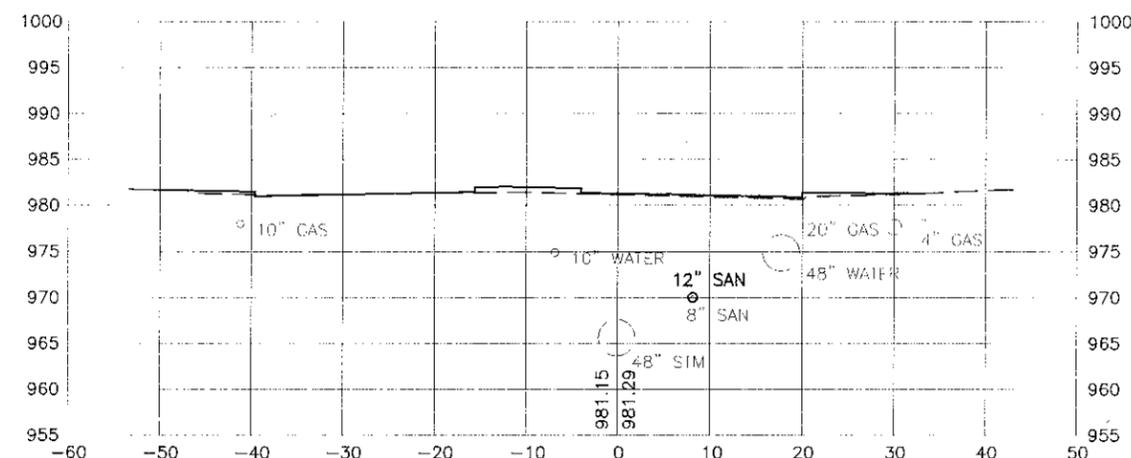
LEE RD. REHAB.



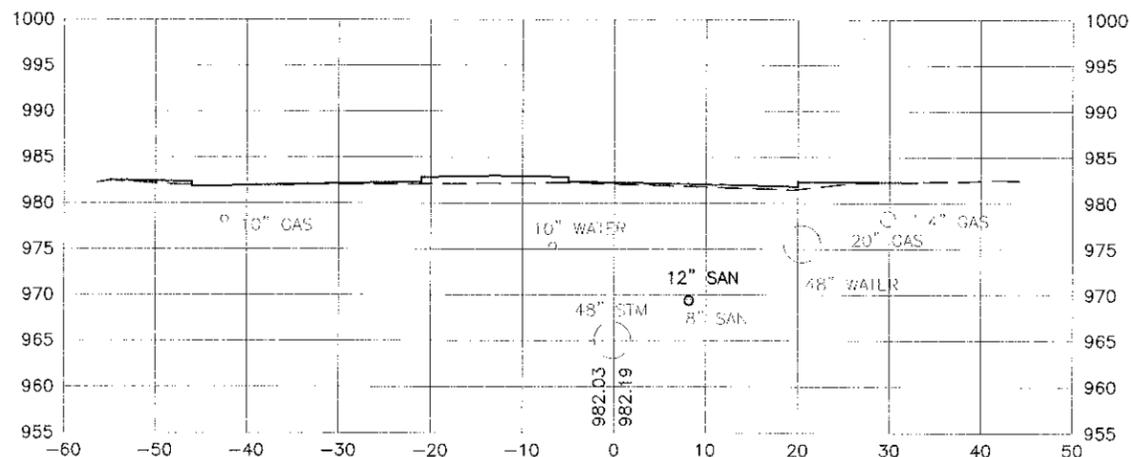
43+00



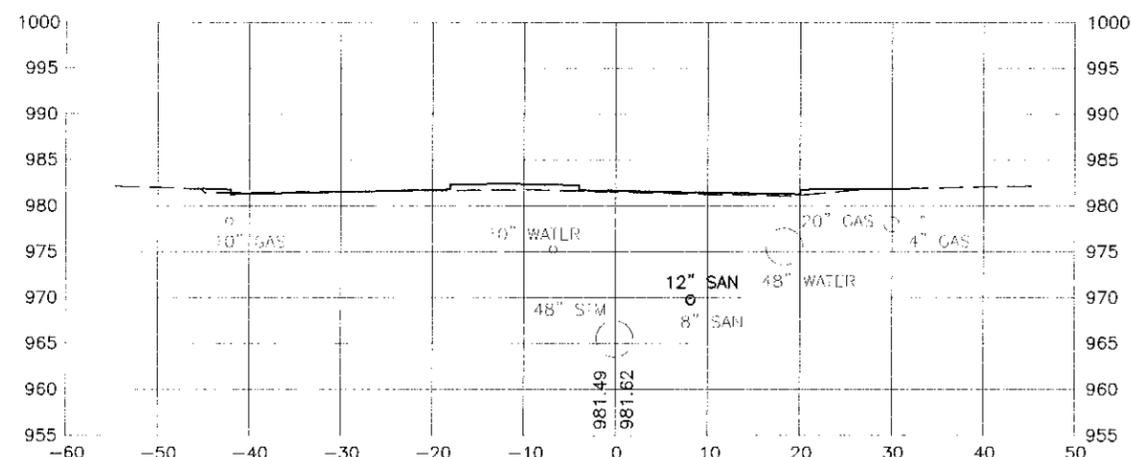
44+50



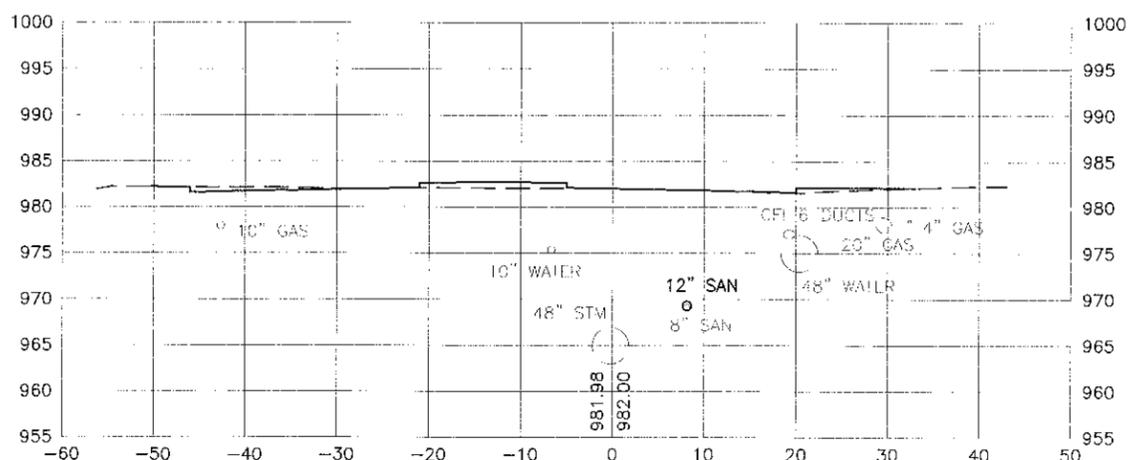
42+50



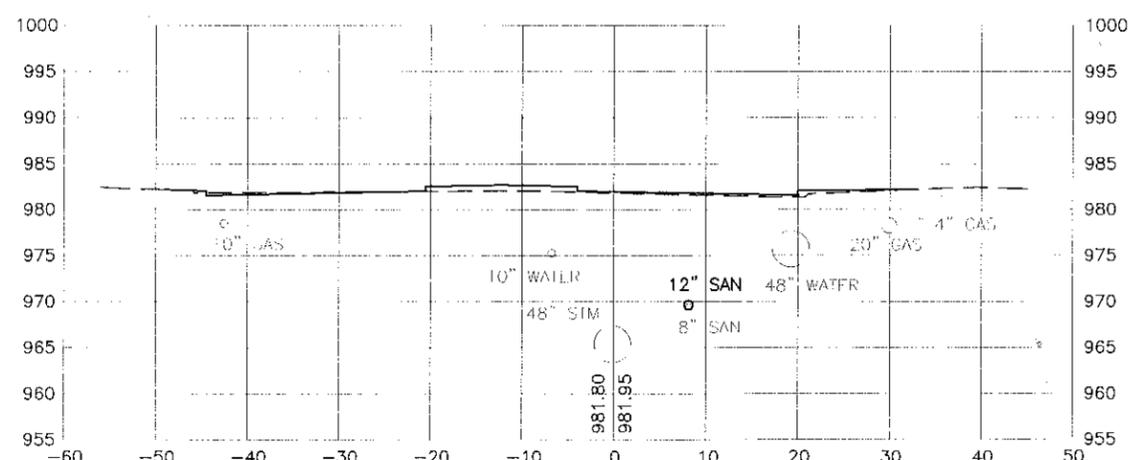
44+00



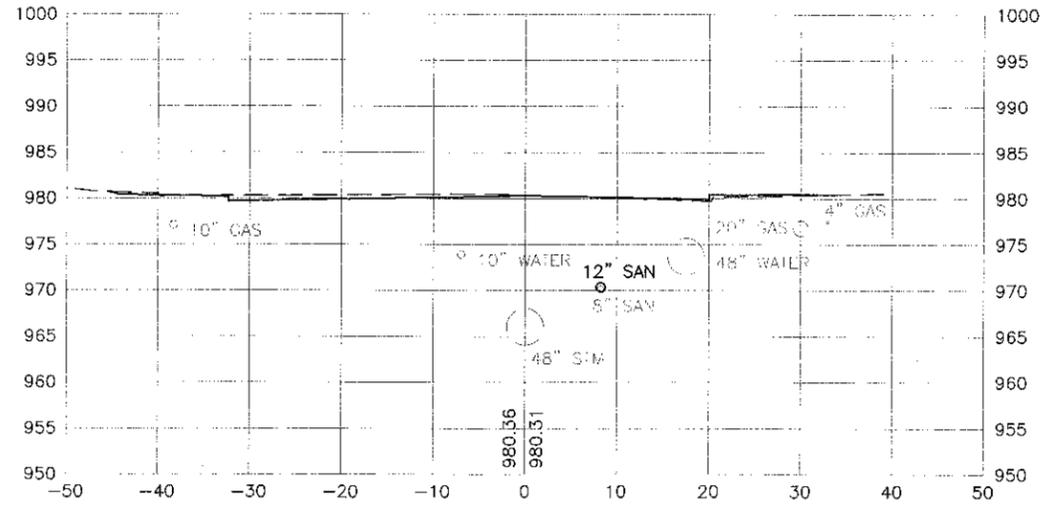
42+00



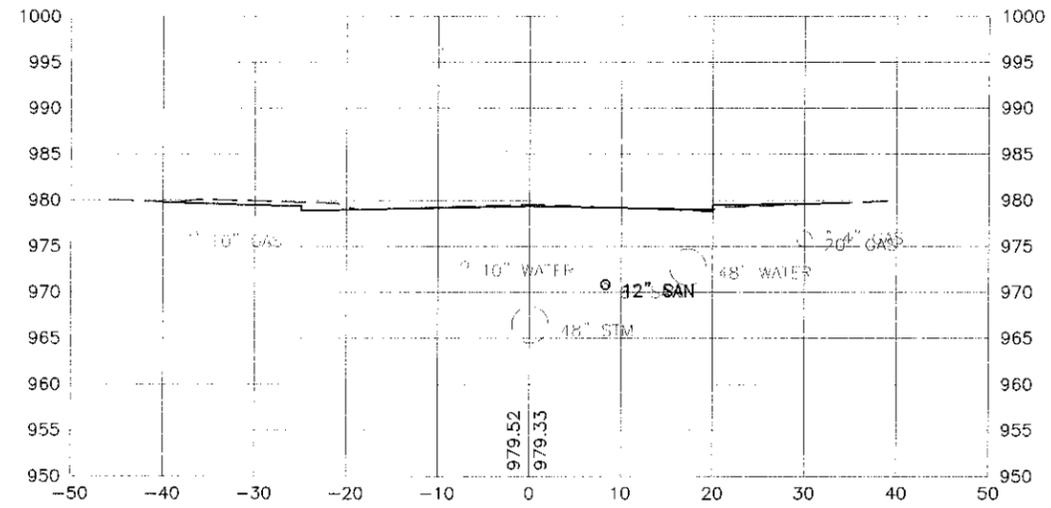
43+50



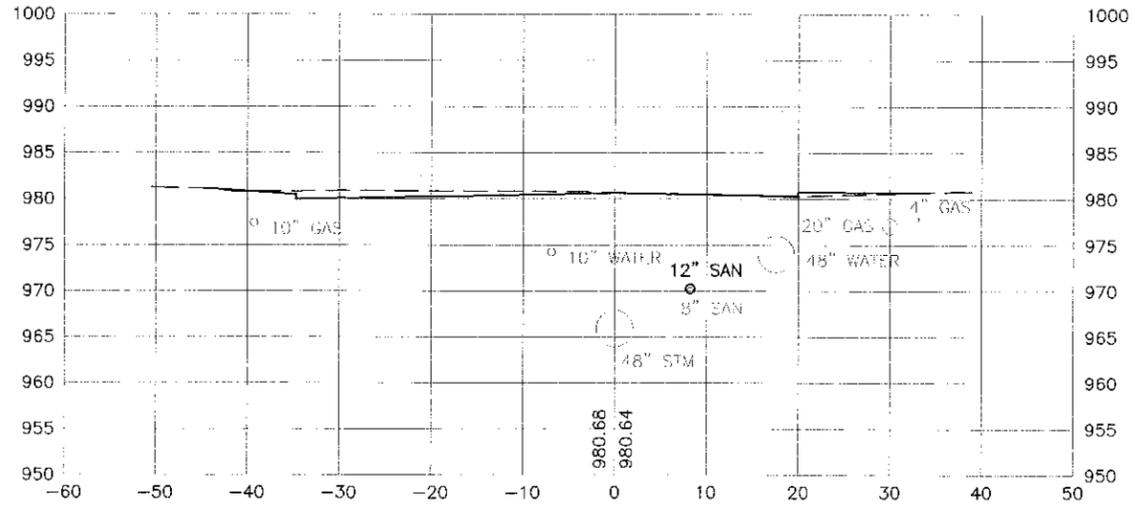
46+00



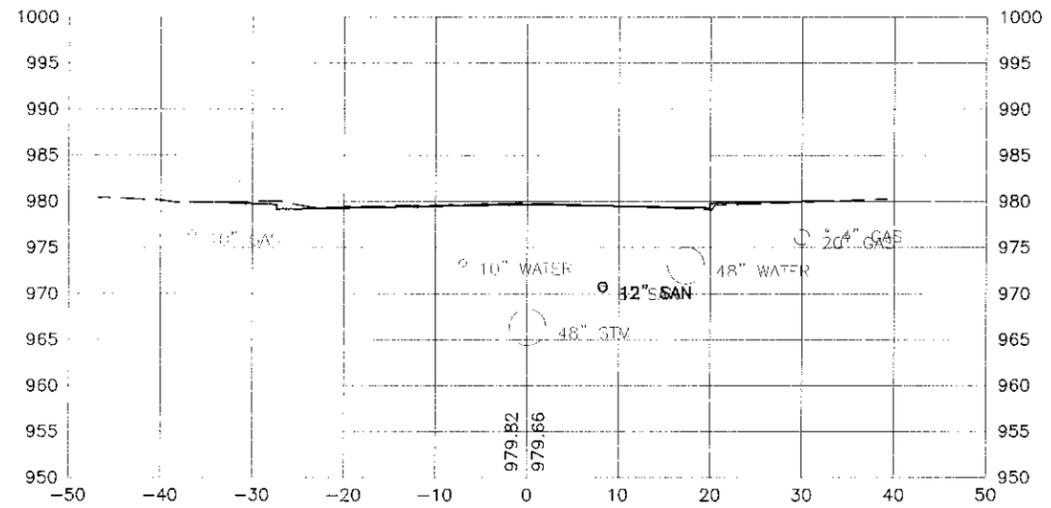
47+50



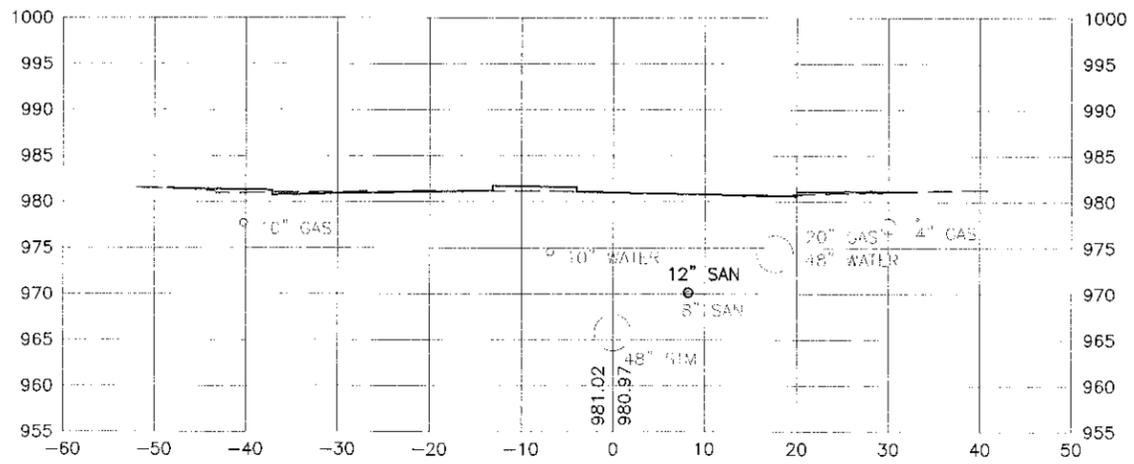
45+50



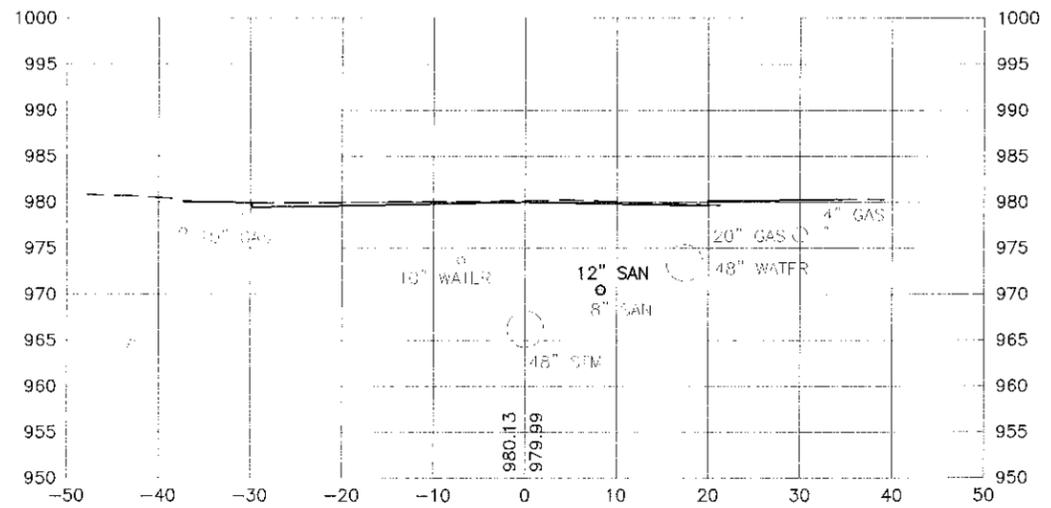
47+00



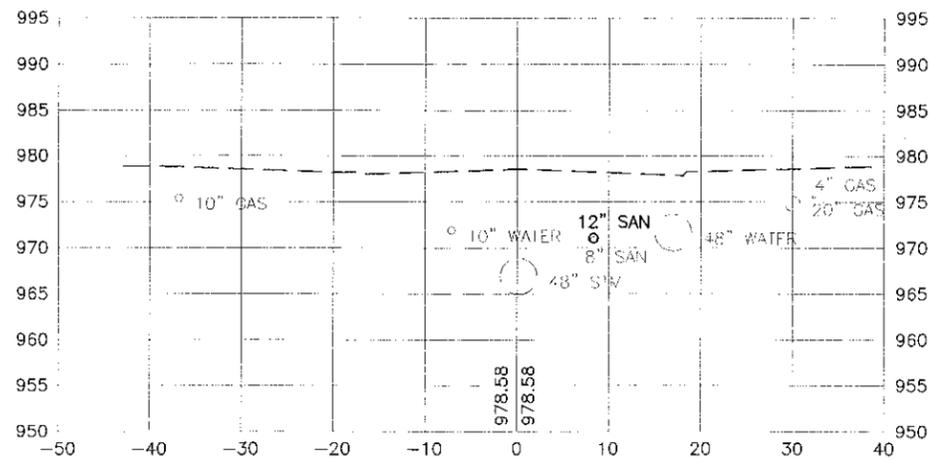
45+00



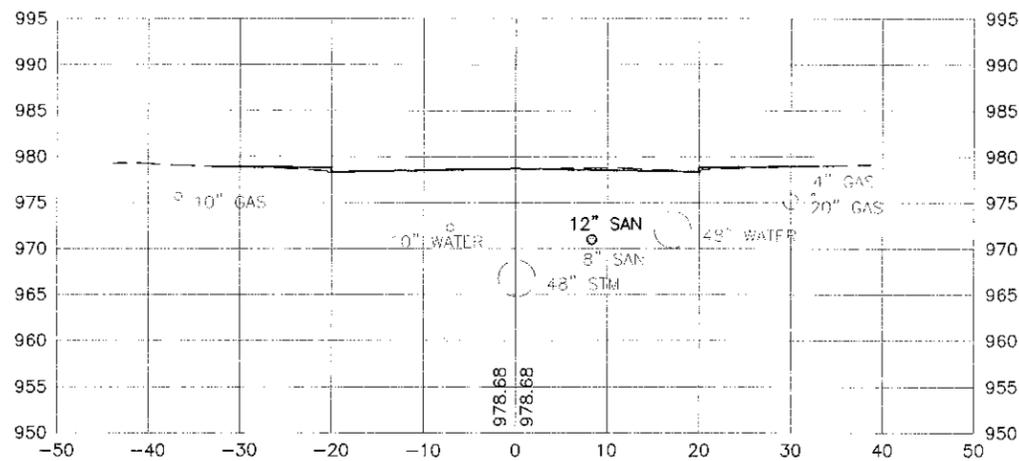
46+50



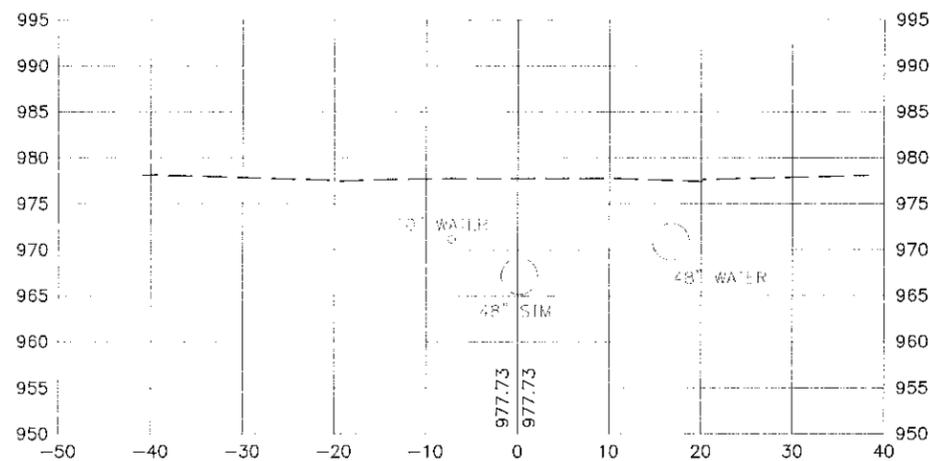
49+00



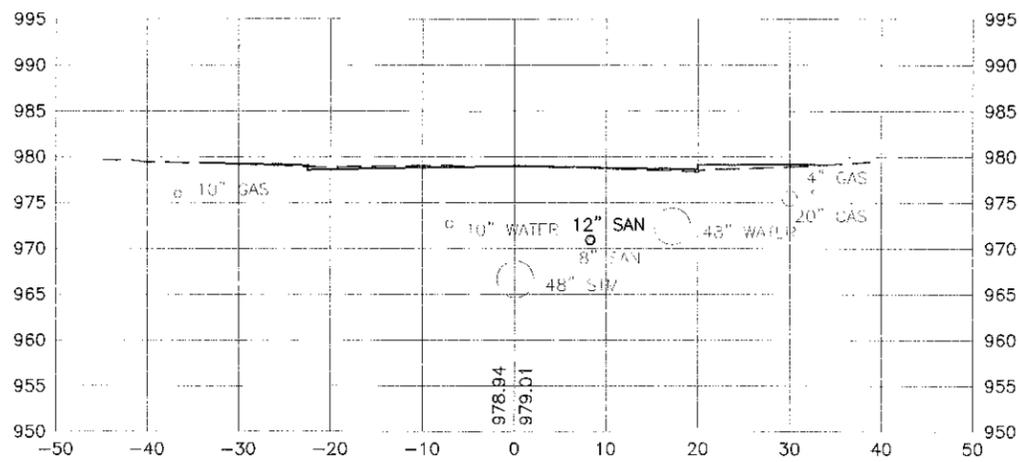
48+50



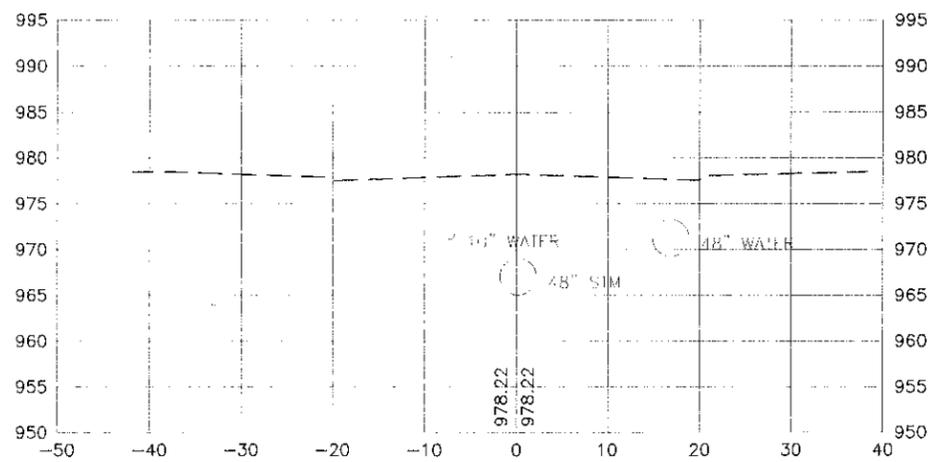
50+00

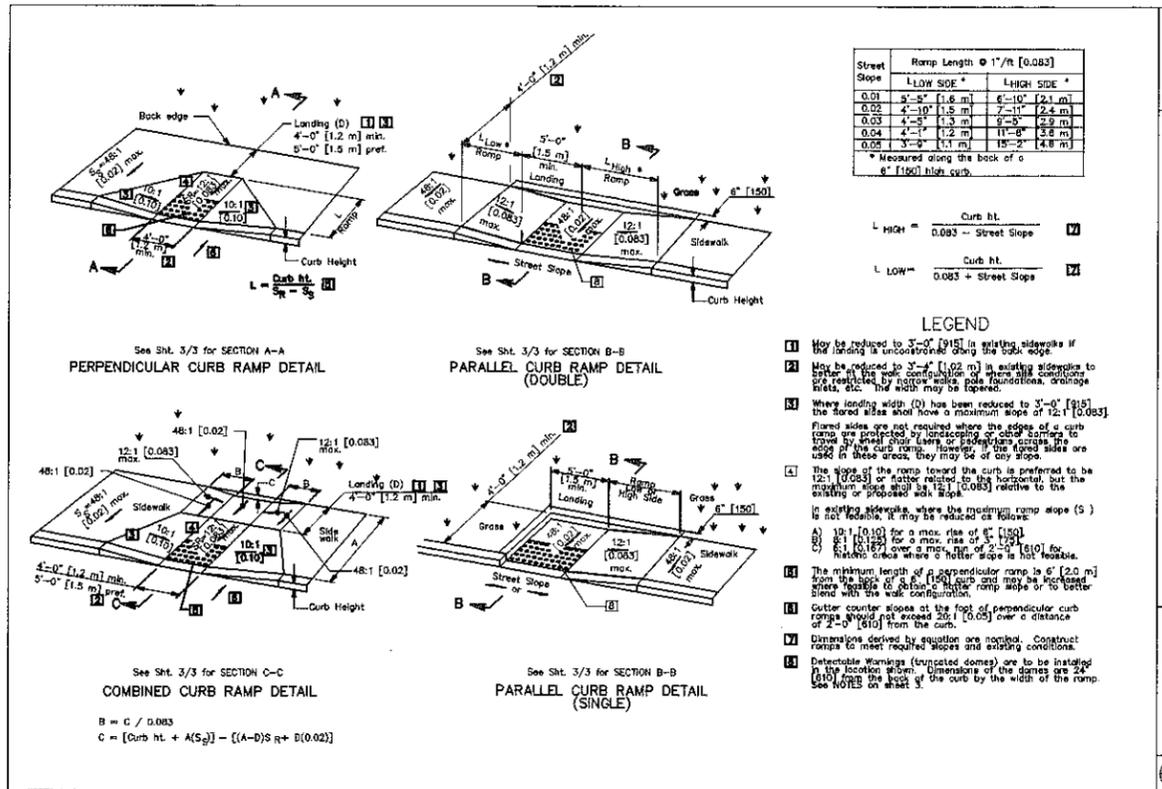


48+00

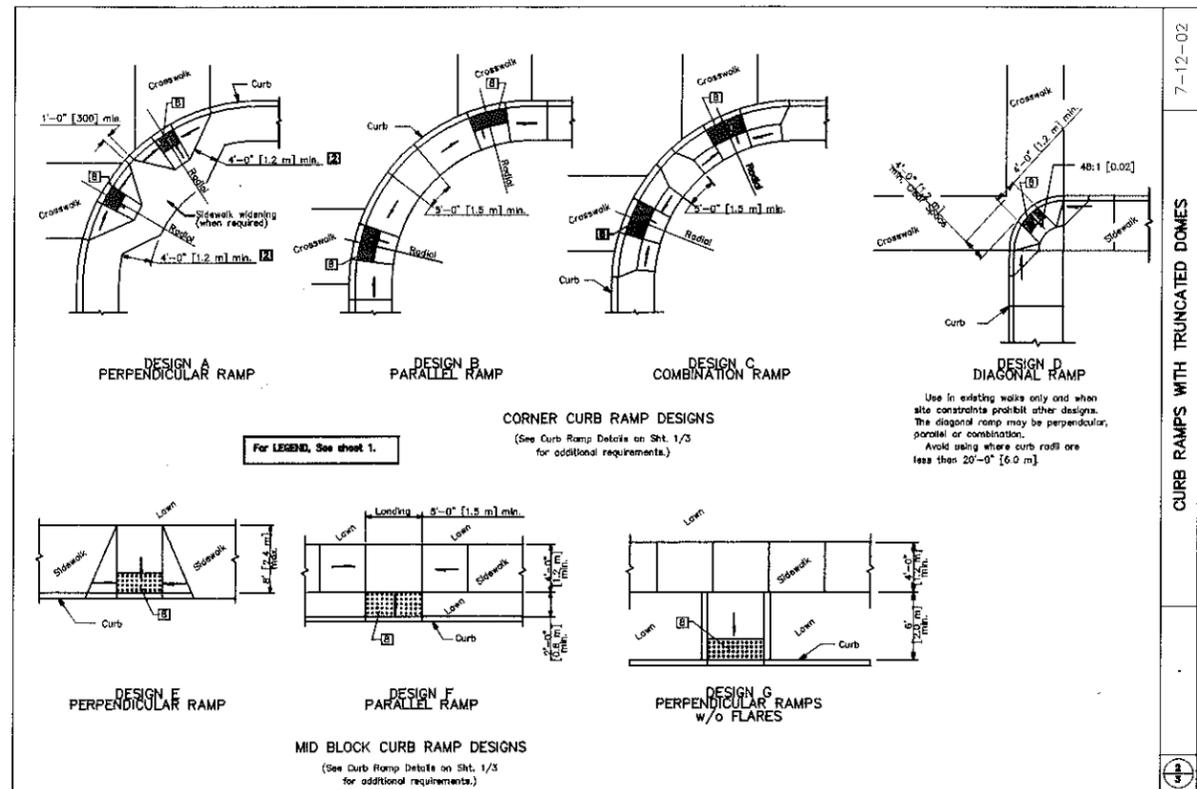


49+50

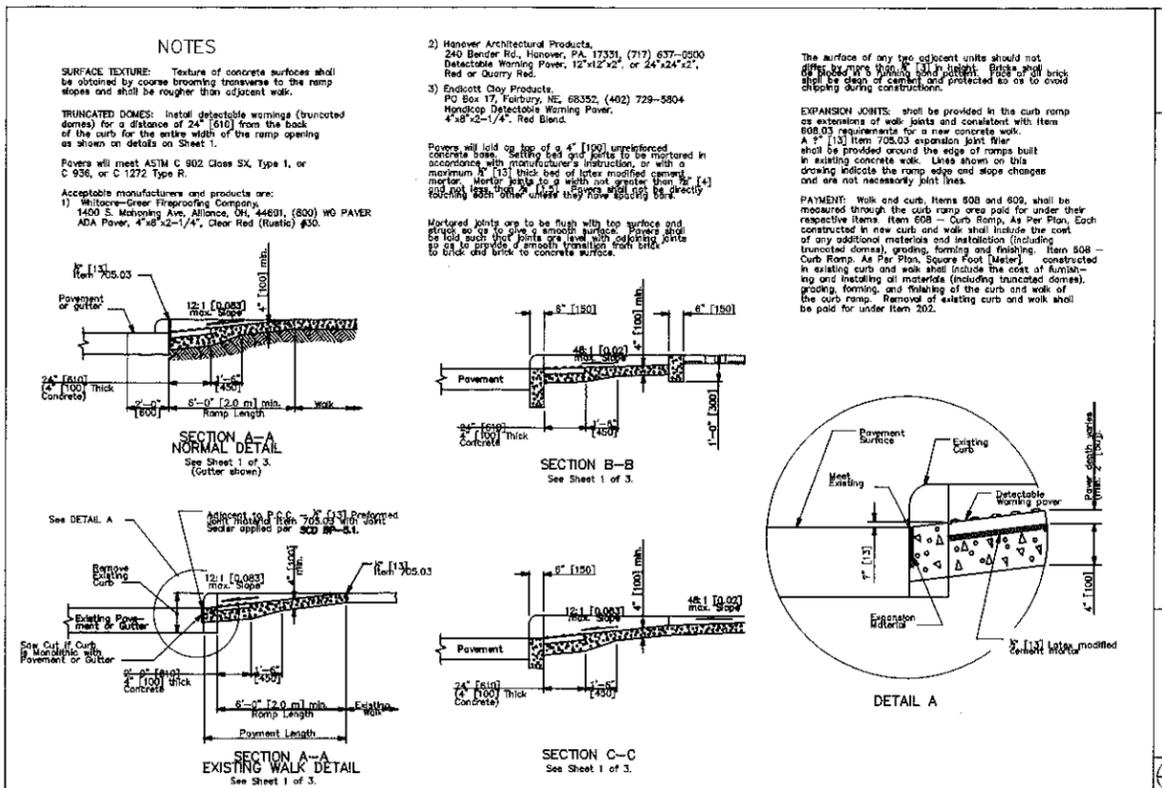




CURB RAMPS WITH TRUNCATED DOMES 7-12-02



CURB RAMPS WITH TRUNCATED DOMES 7-12-02



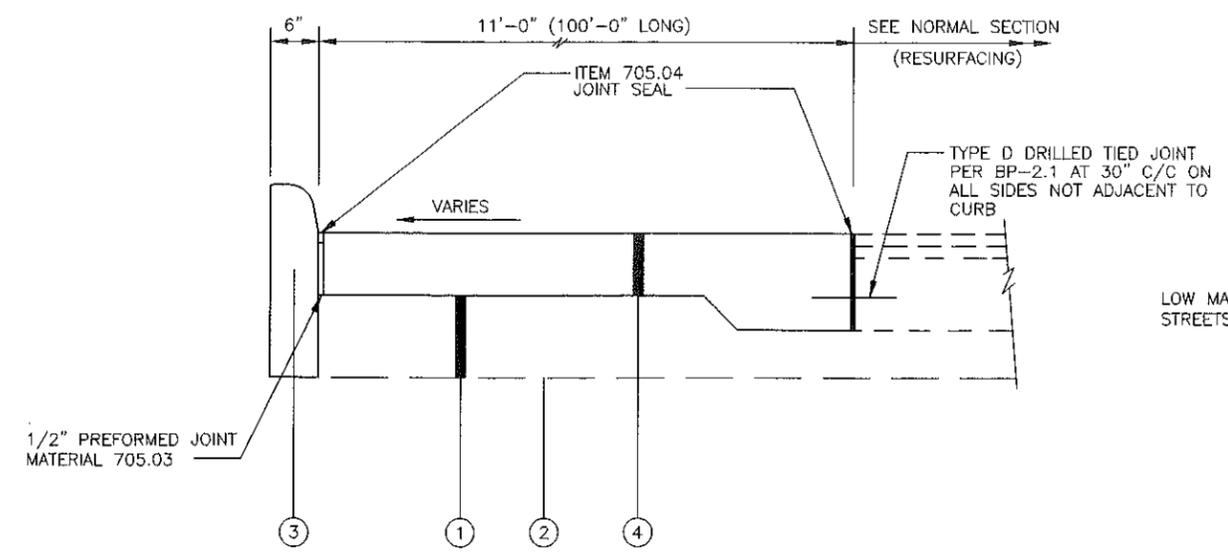
CURB RAMPS WITH TRUNCATED DOMES 7-12-02

NOTE:
ALL CURB RAMPS PLACED ON THIS PROJECT SHALL BE ADA COMPLIANT UPON THEIR COMPLETION.

CURB RAMP DETAILS

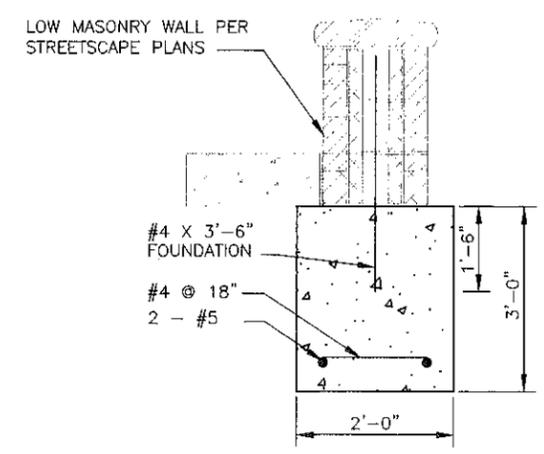
REHABILITATION OF LEE ROAD

ITEM 452
6" PLAIN CONCRETE PAVEMENT

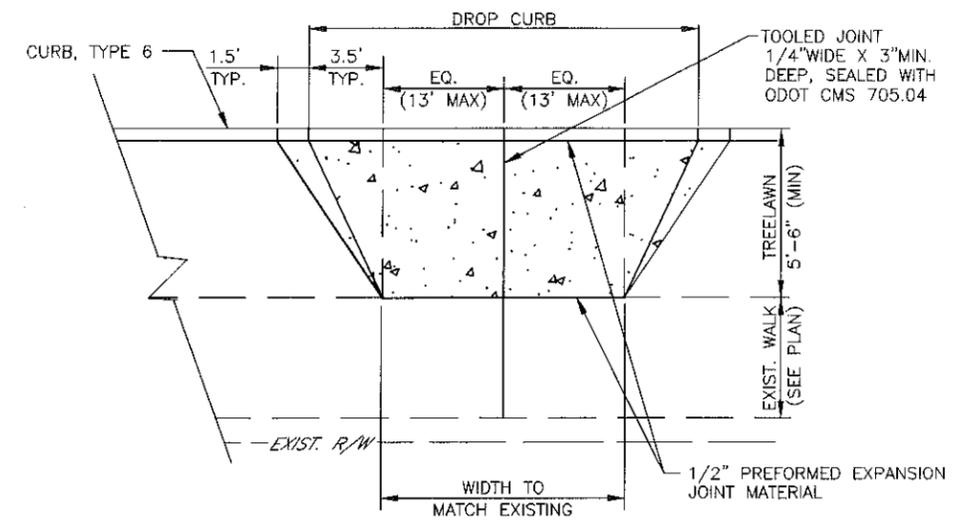


BUS LOADING PAD DETAIL

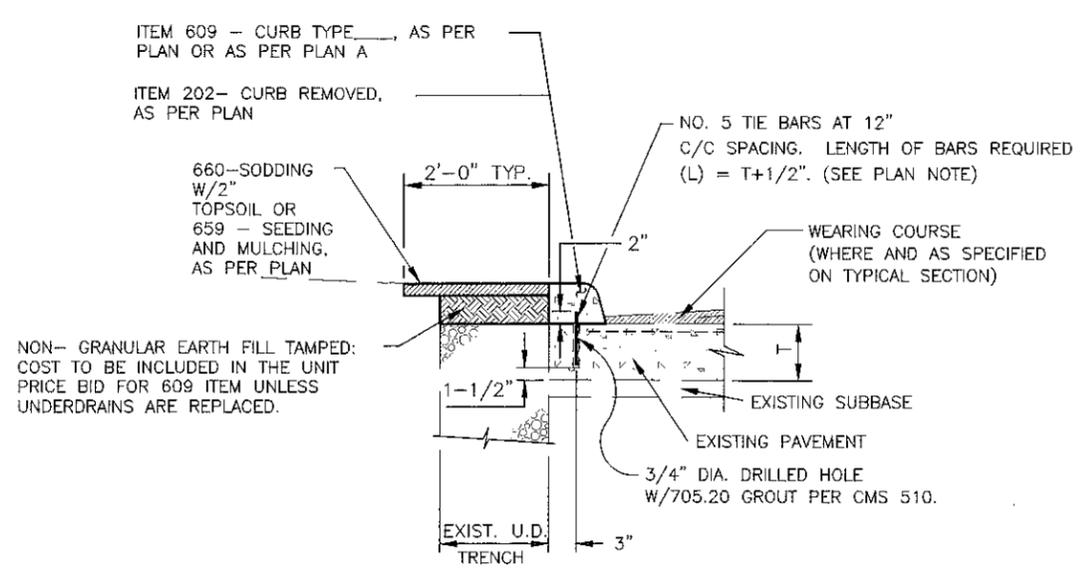
- ① ITEM 304--AGGREGATE BASE (THICKNESS TO MATCH EXISTING)
- ② ITEM 203--SUBGRADE COMPACTION
- ③ ITEM 609--CURB TYPE 6
- ④ ITEM 451--12" REINFORCED CONCRETE PAVEMENT



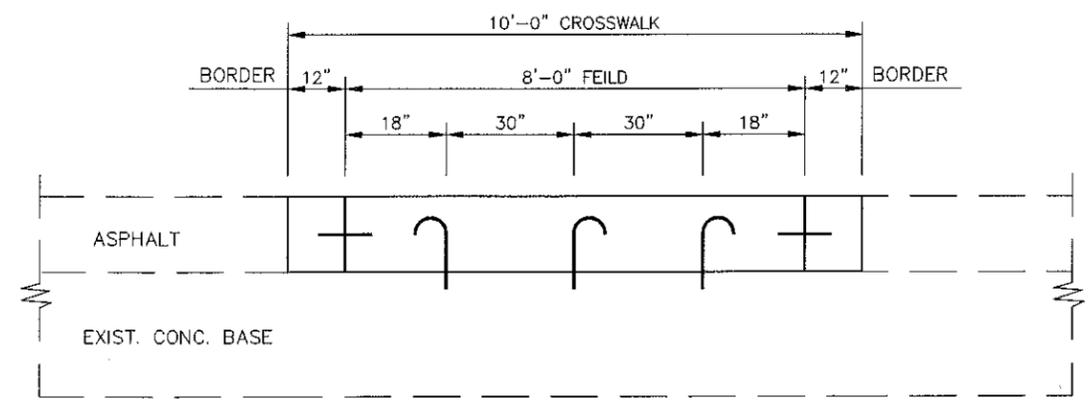
LOW MASONRY WALL FOUNDATION TYPICAL SECTION



RESIDENTIAL DRIVEWAY

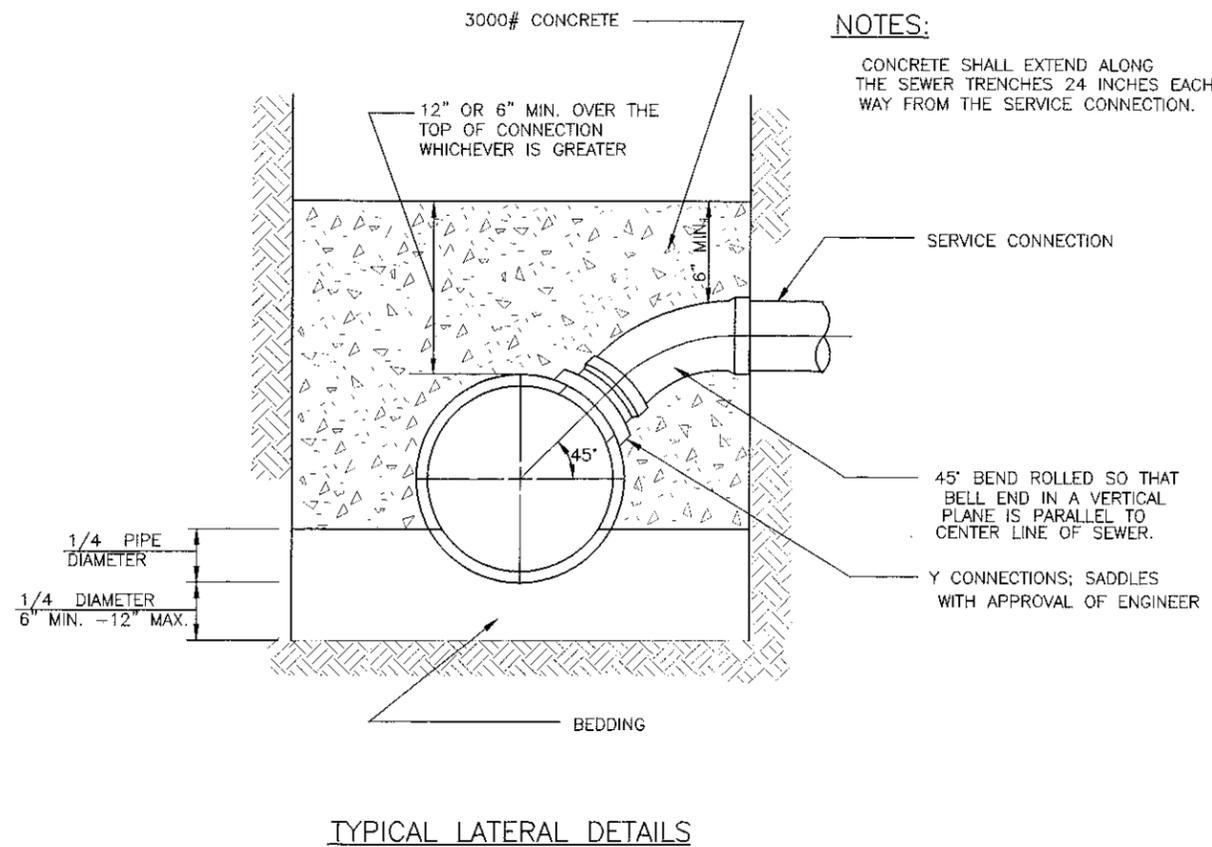


INTEGRAL CONCRETE CURB REPLACEMENT DETAIL
(FOR AREAS SOUTH OF CHAGRIN)



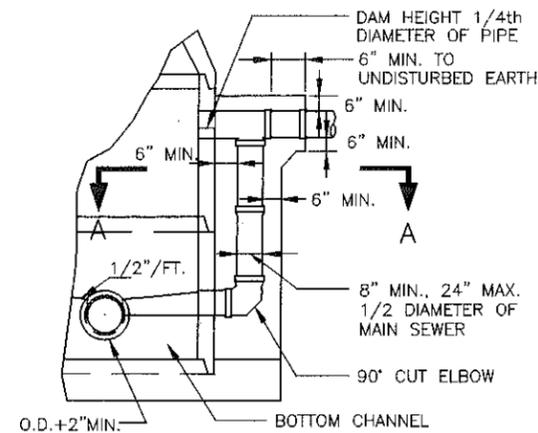
DECORATIVE CROSSWALK SECTION

- NOTE:**
1. BORDER SHALL BE ODOT ITEM 452 NON-REINFORCED WITHOUT COLOR ADMIXTURES
 2. FIELD SHALL BE ODOT ITEM 452-NON REINFORCED CONCRETE AS PER PLAN WITH "SUNBAKED CLAY" COLOR ADMIXTURE AND IMPRINT WITH HERRINGBONE PATTERN.
 3. SEE DETAILED PROJECT SPECIFICATIONS SECTION "ITEM 452 - VARIABLE THICKNESS PLAIN CONCRETE PAVEMENT, AS PER PLAN FOR ADDITIONAL REQUIREMENTS.
 4. WHEN CROSSWALK IS LOCATED WITHIN BUS PAD, CONCRETE AND REINFORCING WILL BE THAT OF THE BUS PAD. DECORATIVE PATTERN WILL BE MAINTAINED THROUGH CROSSWALK

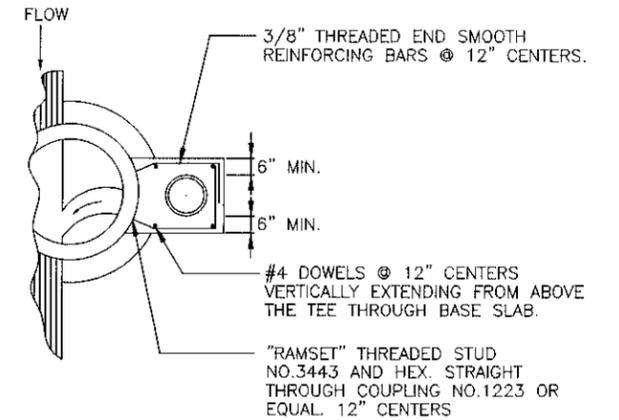


TYPICAL LATERAL DETAILS

NOTES:
 CONCRETE SHALL EXTEND ALONG THE SEWER TRENCHES 24 INCHES EACH WAY FROM THE SERVICE CONNECTION.



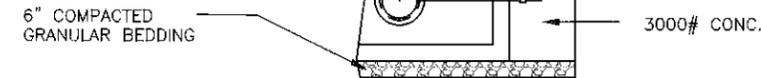
DROP MANHOLE DETAIL



SECTION A-A

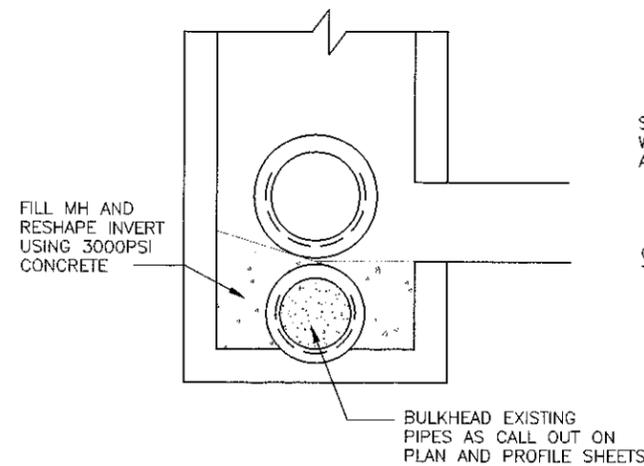
NOTE:
 A DROP MANHOLE SHALL BE CONSTRUCTED IN SEWERS WHEREVER THE DISTANCE BETWEEN THE INVERTS IS 24\"/>

THE FOLLOWING NOTES ON THE MANHOLE NO.3 DETAIL SHALL PERTAIN TO MANHOLE NO.2: TOP OR TRANSITION OPENINGS IN RISER SECTIONS, JOINT SEAL, MATERIALS AND LANDING PLATFORMS. POURED IN PLACE CONCRETE SHALL BE 3000# CONCRETE.



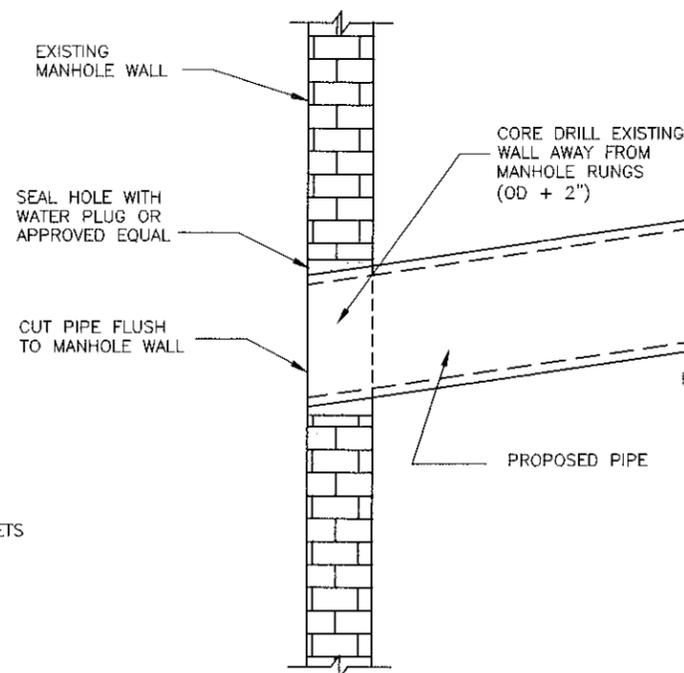
ALTERNATE

- NOTE:**
- CONTRACTOR TO PROVIDE PLAN FOR MAINTAINING EXISTING SEWER AND LATERAL FLOWS TO THE CITY FOR APPROVAL BEFORE WORK BEGINS. REFER TO SPECIFICATIONS.
 - CONNECT EXISTING STORM AND SANITARY LATERALS TO NEW SEWERS PER DETAILS.
 - CONNECT EXISTING 12" STORM SEWERS TO PROPOSED STORM SEWER WITH Y CONNECTION.
 - ALL PIPE CONNECTIONS TO EXISTING MANHOLES SHALL BE INCIDENTAL TO THE COST OF THE PIPE.
 - ALL PIPE CONNECTIONS TO NEW MANHOLES SHALL BE INCIDENTAL TO COST OF THE MANHOLE.
 - SEE DETAIL SHEETS FOR MANHOLE AND DROP MANHOLE INFORMATION.
 - ROOF DRAINS, FOUNDATION DRAINS AND OTHER CLEAN WATER CONNECTIONS TO SANITARY SEWERS ARE PROHIBITED.
 - FRAME AND COVER TO BE NEENAH R-1979 OR EQUAL.
 - STEP ARE TO BE NEENAH R-1980-1-2 SERIES OF EQUAL.
 - ALL MANHOLES ARE TO BE ODOT TYPE 3.
 - ALL MANHOLES TO HAVE ECCENTRIC CONE TOP ALTERNATE.
 - CONTRACTOR SHALL SUBMIT A CONNECTION DETAIL TO THE CITY FOR APPROVAL A MINIMUM OF TWO (2) WEEKS PRIOR TO ANY CONNECTION TO EXISTING MANHOLES OR JUNCTION CHAMBERS. WHERE POSSIBLE THE CONNECTION SHALL BE MADE TO ANY EXISTING OPENING.
 - CONTRACTOR TO GIVE ALL EXISTING FRAMES AND GRATES TO THE CITY.
 - CONTRACTOR TO MAINTAIN EXISTING FLOWS DURING CONSTRUCTION.



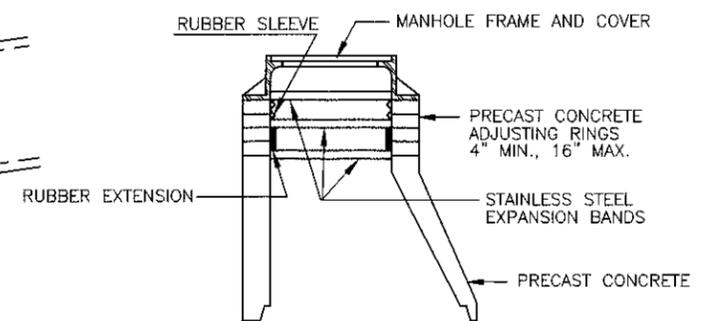
MODIFICATION OF EXISTING MH 103 AND MH112

NTS



CONNECTION TO EXISTING MH OR JUNCTION CHAMBER

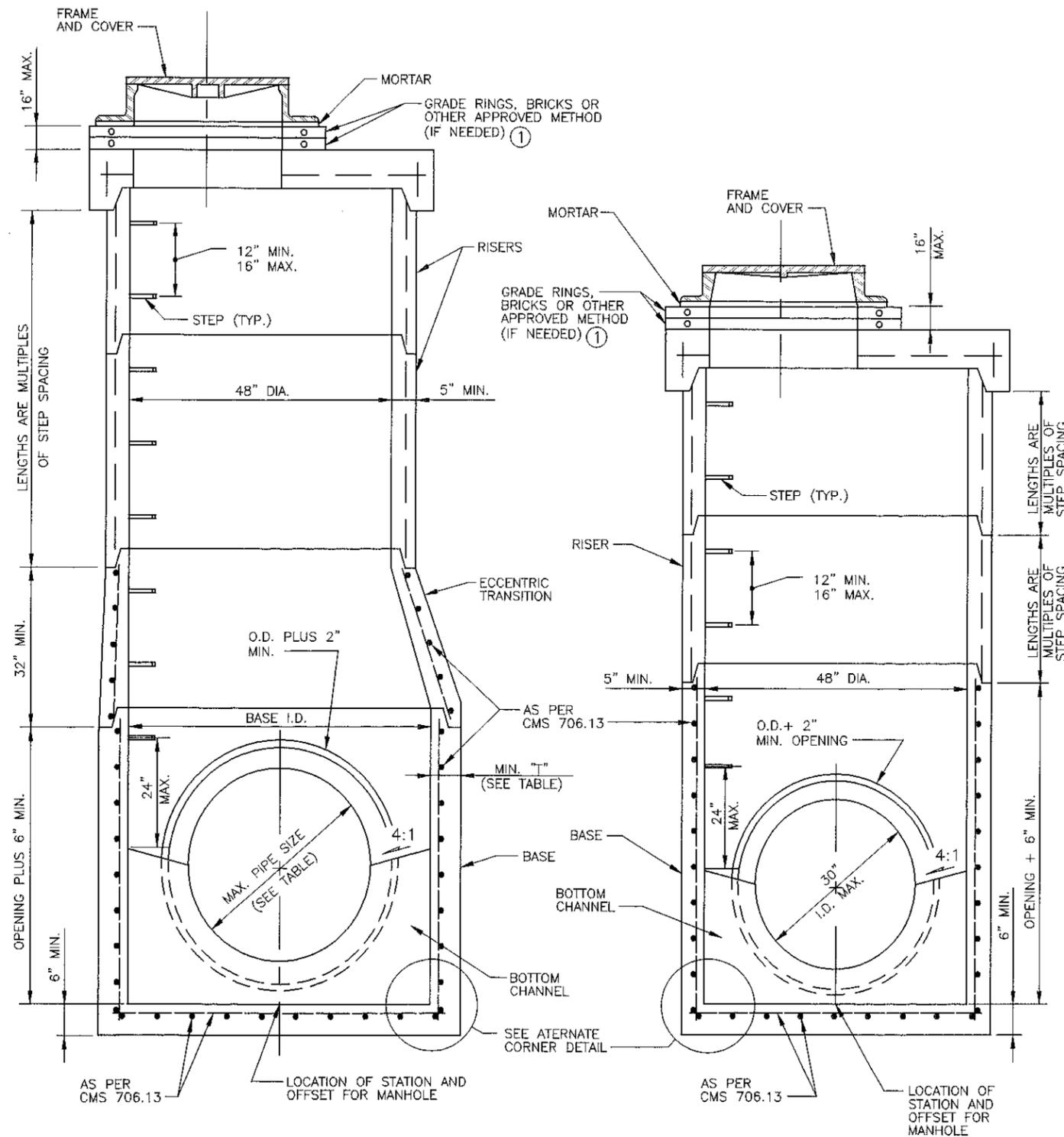
TO SPAN CHIMNEY HEIGHTS OF:	
0-4 1/2"	- CHIMNEY SEAL ONLY
4 1/2" - 9"	- SEAL + 7" EXTENSION
9" - 12"	- SEAL + 10" EXTENSION
OVER 12"	- SEAL + MULTIPLE EXTENSION



SANITARY MANHOLE CHIMNEY SEAL

SANITARY SEWER DETAILS

REHABILITATION OF LEE ROAD

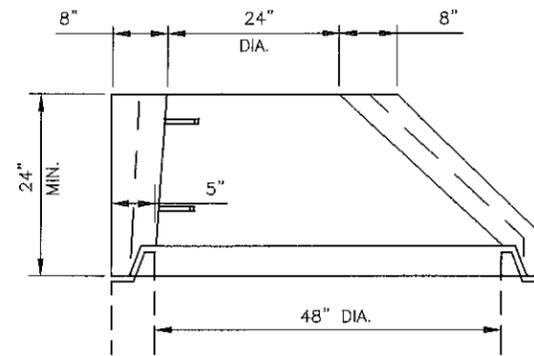


**60" TO 108"
PRECAST BASE**
SEE TABLE FOR MAXIMUM PIPE SIZES

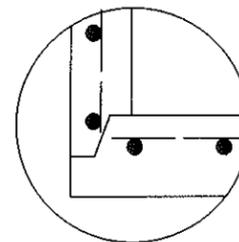
48" PRECAST BASE
FOR 30" AND SMALLER PIPE

MANHOLE NO. 3

(ALL MANHOLES SHALL USE ECCENTRIC CONE TOP)



ECCENTRIC CONE TOP



**ALTERNATE CORNER
DETAIL**

NOTES:

GENERAL: WITH NORMAL SOIL AND SITE CONDITIONS THIS STANDARD PRECAST MANHOLE MAY BE USED FOR ANY REQUIRED MANHOLE DEPTH.

SECTIONS OF THE PRECAST MANHOLE SHALL BE CAST AND ASSEMBLED WITH EITHER ALL TONGUE OR ALL GROOVE ENDS UP. LIFT HOLES MAY BE PROVIDED IN EACH SECTION FOR HANDLING. HANDLING DEVICE FOR THE FLAT SLAB SHALL BE LEFT IN PLACE.

TOP: THIS SECTION SHALL BE A FLAT SLAB UNLESS AN ECCENTRIC CONE IS SPECIFIED.

TRANSITION (OR REDUCER): THIS SECTION CAN BE EITHER ECCENTRIC CONE OR FLAT SLAB.

BASE: MANHOLE NO. 3 IS SHOWN WITH A MONOLITHIC FLOOR AND RISER WHICH MAY BE CAST IN ONE OR TWO OPERATIONS. A PERMISSIBLE ALTERNATE IS TO CAST AND SHIP THE FLOOR AND BARREL SEPARATELY. OPENINGS FOR INLET AND OUTLET PIPES SHALL BE PROVIDED, EITHER WHEN THE UNIT IS CAST OR LATER, TO MEET PROJECT REQUIREMENTS. BOTTOM CHANNELS MAY BE FORMED OF CONCRETE, PRECAST IN THE BASE OR FIELD CONSTRUCTED AS SHOWN ON SCD MH-1.1 AND MH-3.1.

RISER SECTIONS: OPENINGS FOR 18" AND SMALLER INLET PIPES MAY BE EITHER PREFABRICATED, OR CUT IN THE FIELD PROVIDED THE SIDES OF THE PIPE AT THE SPRINGLINE DO NOT PROJECT INTO THE MANHOLE.

CONNECTIONS: CONNECTIONS BETWEEN PRECAST MANHOLE SECTIONS AND PIPES ON SANITARY SEWERS MAY BE SEALED WITH RESILIENT CONNECTORS CONFORMING TO ASTM C 923.

JOINT SEAL: SEAL BETWEEN PRECAST MANHOLE SECTIONS ON SANITARY SEWERS SHALL BE RESILIENT AND FLEXIBLE GASKET JOINTS PER CMS 706.11.

MATERIALS: MATERIALS FOR BASES AND OTHER PRECAST SECTIONS, INCLUDING REINFORCEMENT NOT SPECIFIED HEREON, SHALL COMPLY WITH THE REQUIREMENTS OF CMS 706.13.

DROP PIPE: WHEN SPECIFIED ON THE PLANS, DROP PIPE SHALL BE CONSTRUCTED AS SHOWN ON DETAIL SHEET 2.

STEPS, FRAMES AND COVERS: SHALL COMPLY WITH THE REQUIREMENTS SET FORTH ON DETAIL SHEET 2.

TOP SLAB REBAR: REINFORCING STEEL USED WITHIN THE TOP SLAB SHALL BE EPOXY COATED.

LEGEND:

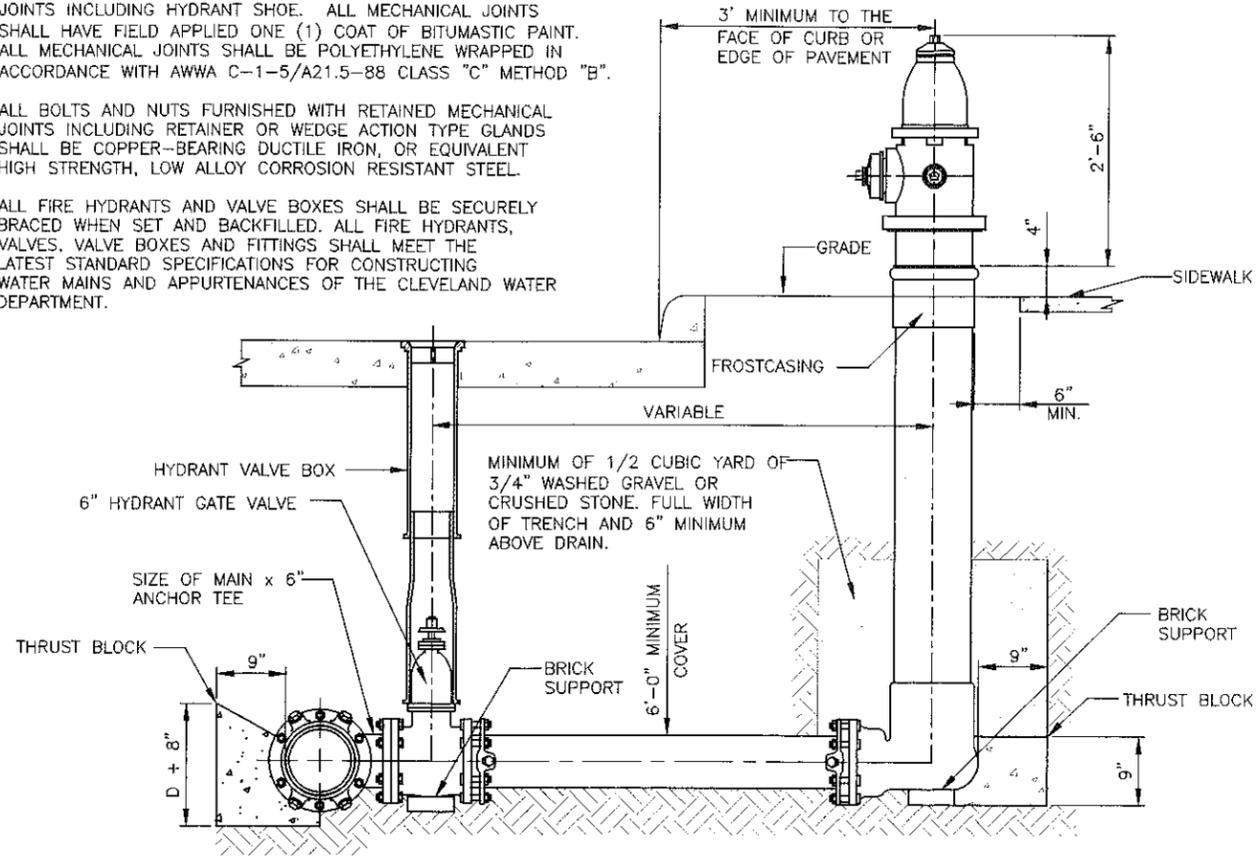
① RECONSTRUCTION TO GRADE ONLY. APPROVED MATERIALS ARE KEPT ON FILE BY THE OFFICE OF MATERIALS MANAGEMENT.

MAXIMUM PIPE SIZES		
BASE I.D.	MIN. "T"	MAX. PIPE SIZE
60"	5"	36"
72"	6"	48"
84"	7"	54"
90"	7 1/2"	60"
96"	8"	66"
108"	9"	72"

NOTES:
 IN LIEU OF SWIVEL BRANCH TEES AND ADAPTERS CONTRACTORS MAY FURNISH HYDRANT BRANCHES HAVING RETAINED MECHANICAL JOINTS INCLUDING HYDRANT SHOE. ALL MECHANICAL JOINTS SHALL HAVE FIELD APPLIED ONE (1) COAT OF BITUMASTIC PAINT. ALL MECHANICAL JOINTS SHALL BE POLYETHYLENE WRAPPED IN ACCORDANCE WITH AWWA C-1-5/A21.5-88 CLASS "C" METHOD "B".

ALL BOLTS AND NUTS FURNISHED WITH RETAINED MECHANICAL JOINTS INCLUDING RETAINER OR WEDGE ACTION TYPE GLANDS SHALL BE COPPER-BEARING DUCTILE IRON, OR EQUIVALENT HIGH STRENGTH, LOW ALLOY CORROSION RESISTANT STEEL.

ALL FIRE HYDRANTS AND VALVE BOXES SHALL BE SECURELY BRACED WHEN SET AND BACKFILLED. ALL FIRE HYDRANTS, VALVES, VALVE BOXES AND FITTINGS SHALL MEET THE LATEST STANDARD SPECIFICATIONS FOR CONSTRUCTING WATER MAINS AND APPURTENANCES OF THE CLEVELAND WATER DEPARTMENT.

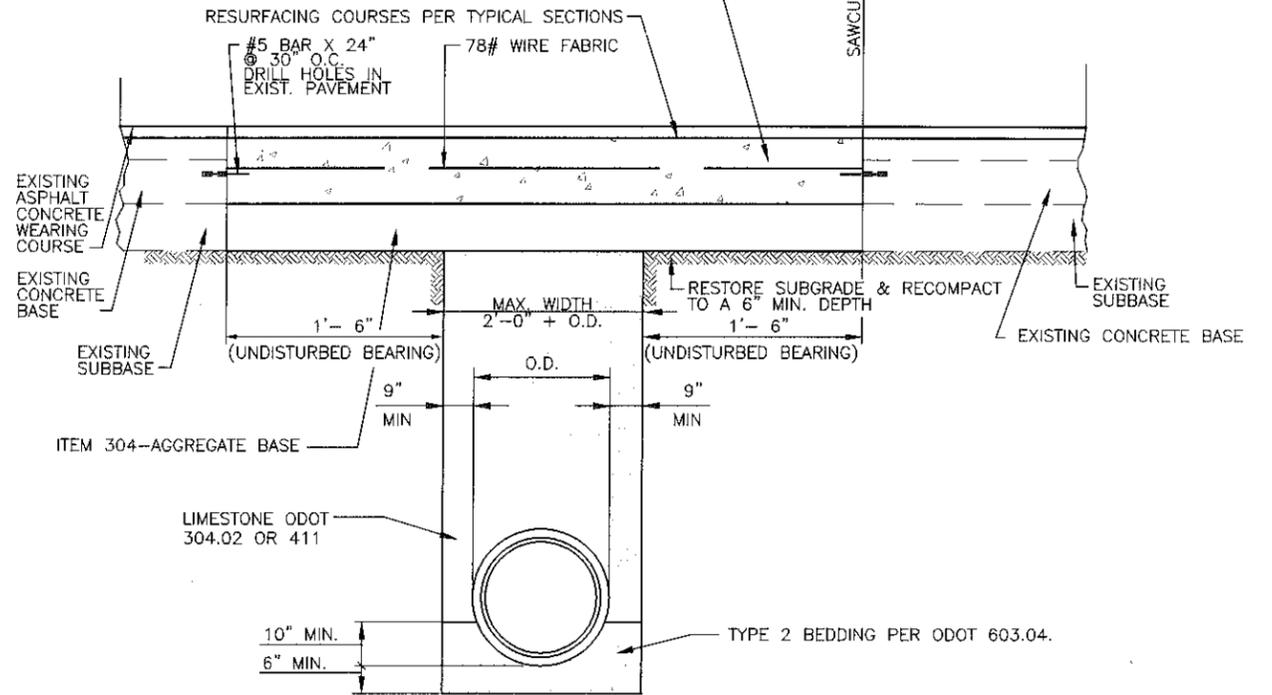


FIRE HYDRANT DETAIL
 NOT TO SCALE

NOTES:

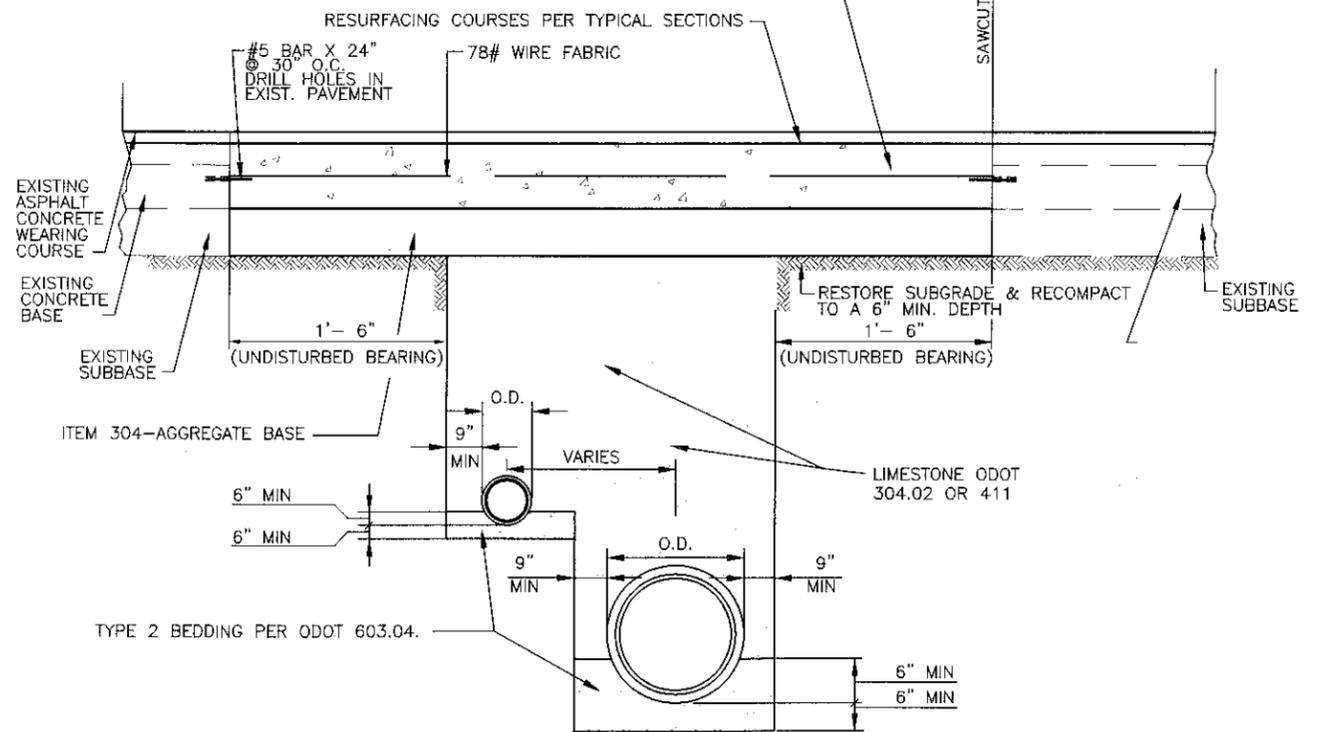
1. PREMIUM BACKFILL REQUIRED UNDER NEW OR FUTURE PAVEMENTS, SIDEWALKS, AND/OR DRIVES OR WHEN REQUIRED BY LOCAL MUNICIPALITY.
2. PREMIUM BACKFILL SHALL BE LIMESTONE SCREENINGS GRADED PER ODOT 304.02 OR ODOT 411. NO SLAG IS PERMITTED.
3. CONTRACTOR SHALL USE SPECIAL CARE IN PLACING THE GRANULAR BEDDING BACKFILL, SO AS TO AVOID SCRAPING OF THE EXTERIOR COATING, INJURING THE PIPE, DISTORTING OR MOVING THE PIPE WHEN COMPACTING THE SAME. THE GRANULAR BEDDING BACKFILL SHALL BE TAMPED IN SIX (6) INCH LAYERS, SIMULTANEOUSLY ON EACH SIDE OF THE PIPE, AND THOROUGHLY COMPACTED SO AS TO PROVIDE A SOLID BACKING AGAINST THE EXTERNAL SURFACE OF THE PIPE.
4. MINIMUM COMPACTION FOR ALL GRANULAR BEDDING BACKFILL, BACKFILL AND PREMIUM BACKFILL SHALL BE 95% STANDARD PROCTOR.
5. CONTRACTOR TO PLACE RIGID PAVEMENT SO THAT THE TOP THREE (3) INCHES OF PAVEMENT IS SEPARATED BY VISQUINE.

ITEM 255- FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS MS



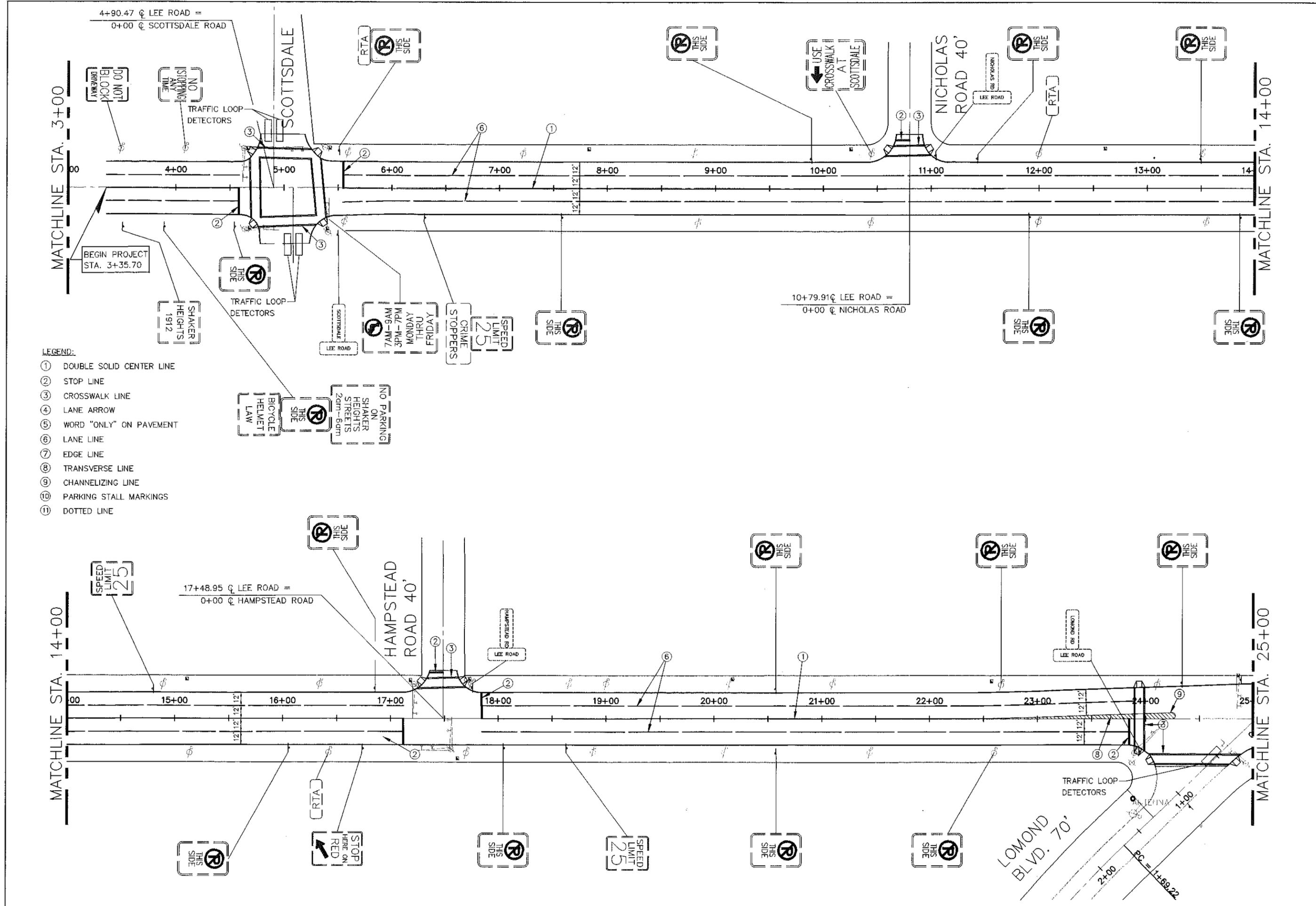
SANITARY SEWER ONLY TRENCH DETAIL
 IN PAVEMENT
 NOT TO SCALE

ITEM 255- FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS MS



SANITARY SEWER ONLY TRENCH DETAIL
 IN PAVEMENT

NOT TO SCALE
 STA 25+55 TO 28+61



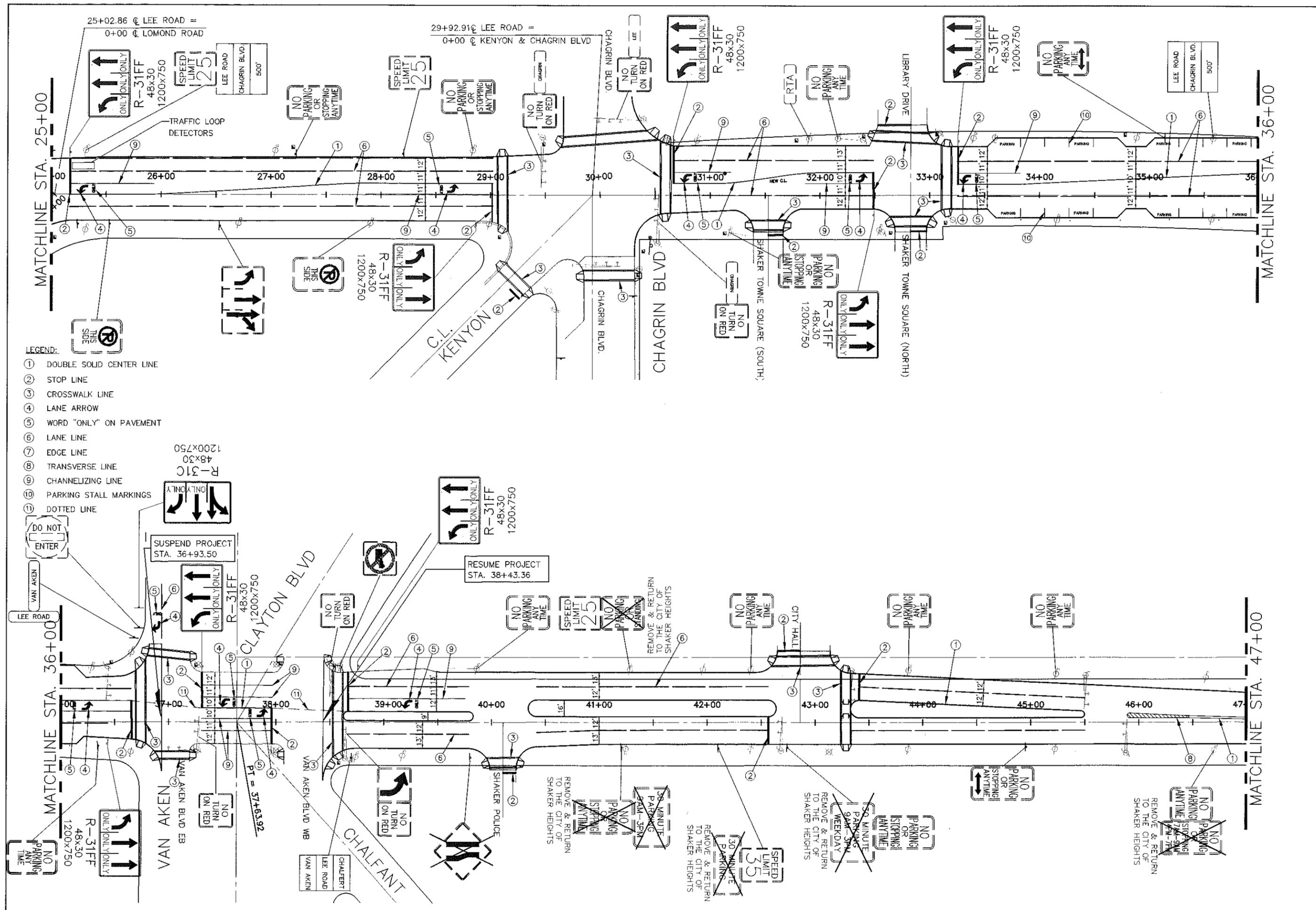
- LEGEND:**
- ① DOUBLE SOLID CENTER LINE
 - ② STOP LINE
 - ③ CROSSWALK LINE
 - ④ LANE ARROW
 - ⑤ WORD "ONLY" ON PAVEMENT
 - ⑥ LANE LINE
 - ⑦ EDGE LINE
 - ⑧ TRANSVERSE LINE
 - ⑨ CHANNELIZING LINE
 - ⑩ PARKING STALL MARKINGS
 - ⑪ DOTTED LINE

CALCULATED
GLP
CHECKED
EV

0 20 40
10' HORIZONTAL
SCALE IN FEET

**TRAFFIC CONTROL PLAN - LEE RD.
STA. 3+00 TO STA. 25+00**

**REHABILITATION
OF LEE ROAD**



- LEGEND:**
- ① DOUBLE SOLID CENTER LINE
 - ② STOP LINE
 - ③ CROSSWALK LINE
 - ④ LANE ARROW
 - ⑤ WORD "ONLY" ON PAVEMENT
 - ⑥ LANE LINE
 - ⑦ EDGE LINE
 - ⑧ TRANSVERSE LINE
 - ⑨ CHANNELIZING LINE
 - ⑩ PARKING STALL MARKINGS
 - ⑪ DOTTED LINE

CALCULATED: GLP
 CHECKED: EV

0 20 40
 HORIZONTAL SCALE IN FEET

**TRAFFIC CONTROL PLAN - LEE RD.
 STA. 25+00 TO STA. 47+00**

**REHABILITATION
 OF LEE ROAD**

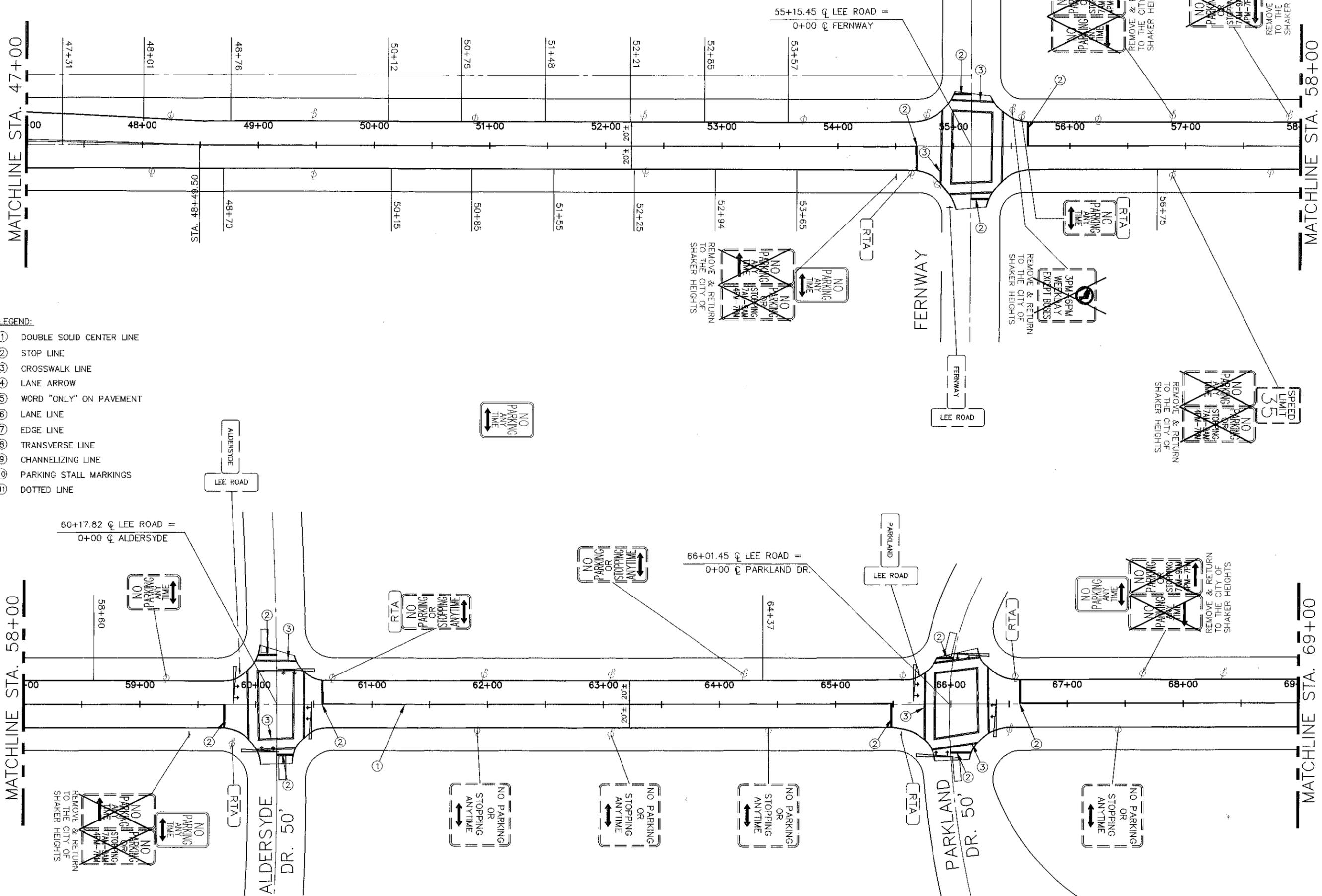
MATCHLINE STA. 47+00

MATCHLINE STA. 58+00

MATCHLINE STA. 58+00

MATCHLINE STA. 69+00

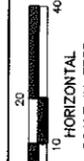
- LEGEND:
- ① DOUBLE SOLID CENTER LINE
 - ② STOP LINE
 - ③ CROSSWALK LINE
 - ④ LANE ARROW
 - ⑤ WORD "ONLY" ON PAVEMENT
 - ⑥ LANE LINE
 - ⑦ EDGE LINE
 - ⑧ TRANSVERSE LINE
 - ⑨ CHANNELIZING LINE
 - ⑩ PARKING STALL MARKINGS
 - ⑪ DOTTED LINE



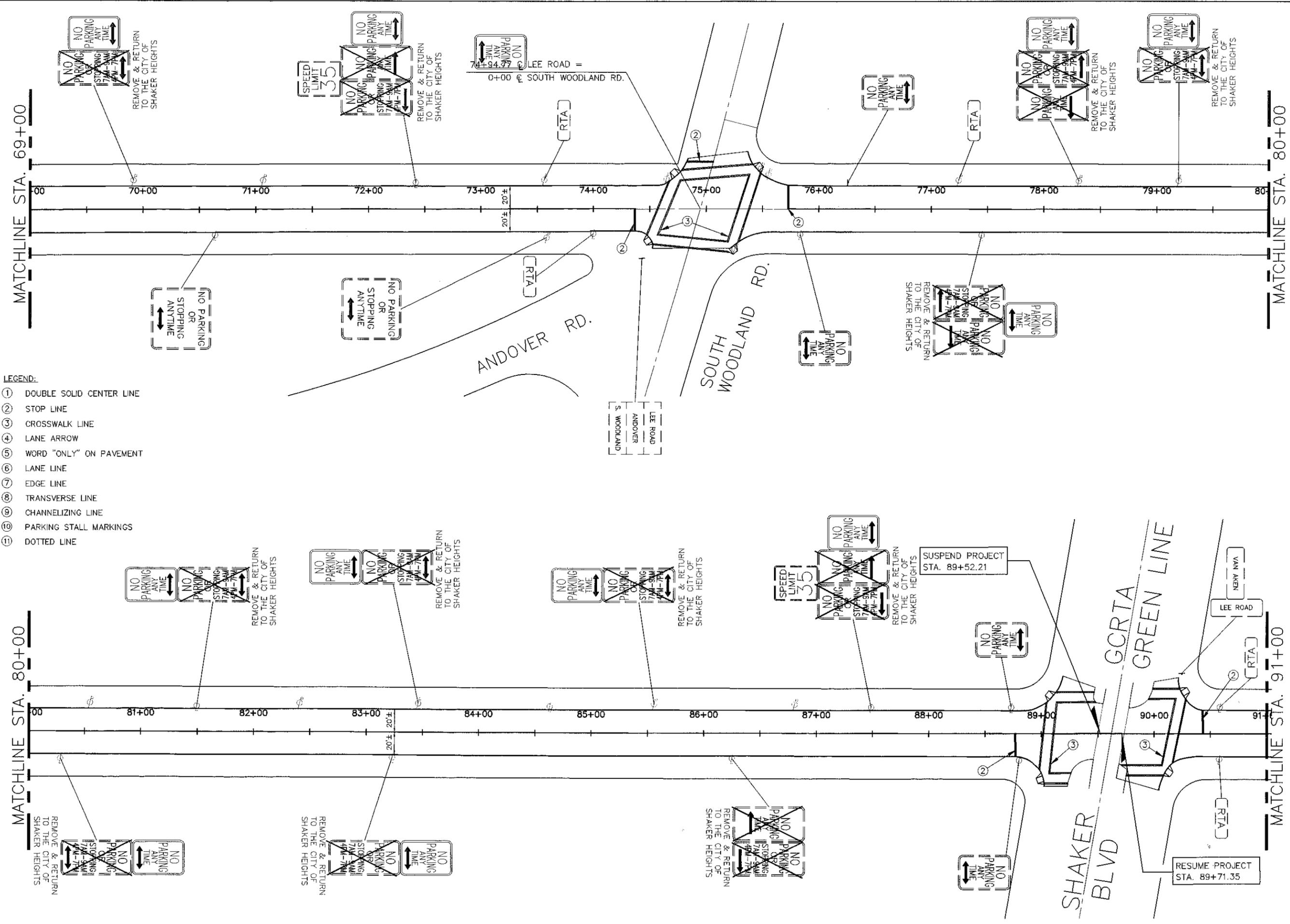
REHABILITATION OF LEE ROAD

TRAFFIC CONTROL PLAN - LEE RD. STA. 47+00 TO STA. 69+00

CALCULATED
GLP
CHECKED
EV



- LEGEND:**
- ① DOUBLE SOLID CENTER LINE
 - ② STOP LINE
 - ③ CROSSWALK LINE
 - ④ LANE ARROW
 - ⑤ WORD "ONLY" ON PAVEMENT
 - ⑥ LANE LINE
 - ⑦ EDGE LINE
 - ⑧ TRANSVERSE LINE
 - ⑨ CHANNELIZING LINE
 - ⑩ PARKING STALL MARKINGS
 - ⑪ DOTTED LINE



CALCULATED
GLP

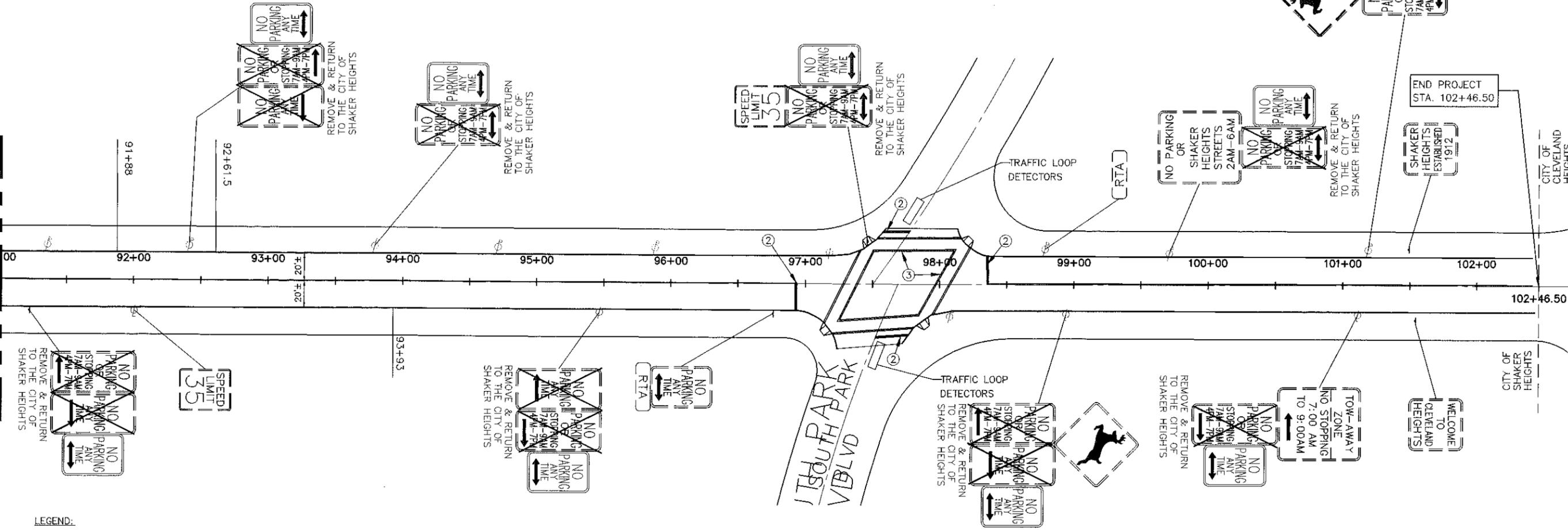
CHECKED
EV

0 20 40
HORIZONTAL
SCALE IN FEET

**TRAFFIC CONTROL PLAN - LEE RD.
STA. 70+00 TO STA. 92+00**

**REHABILITATION
OF LEE ROAD**

MATCHLINE STA. 91+00



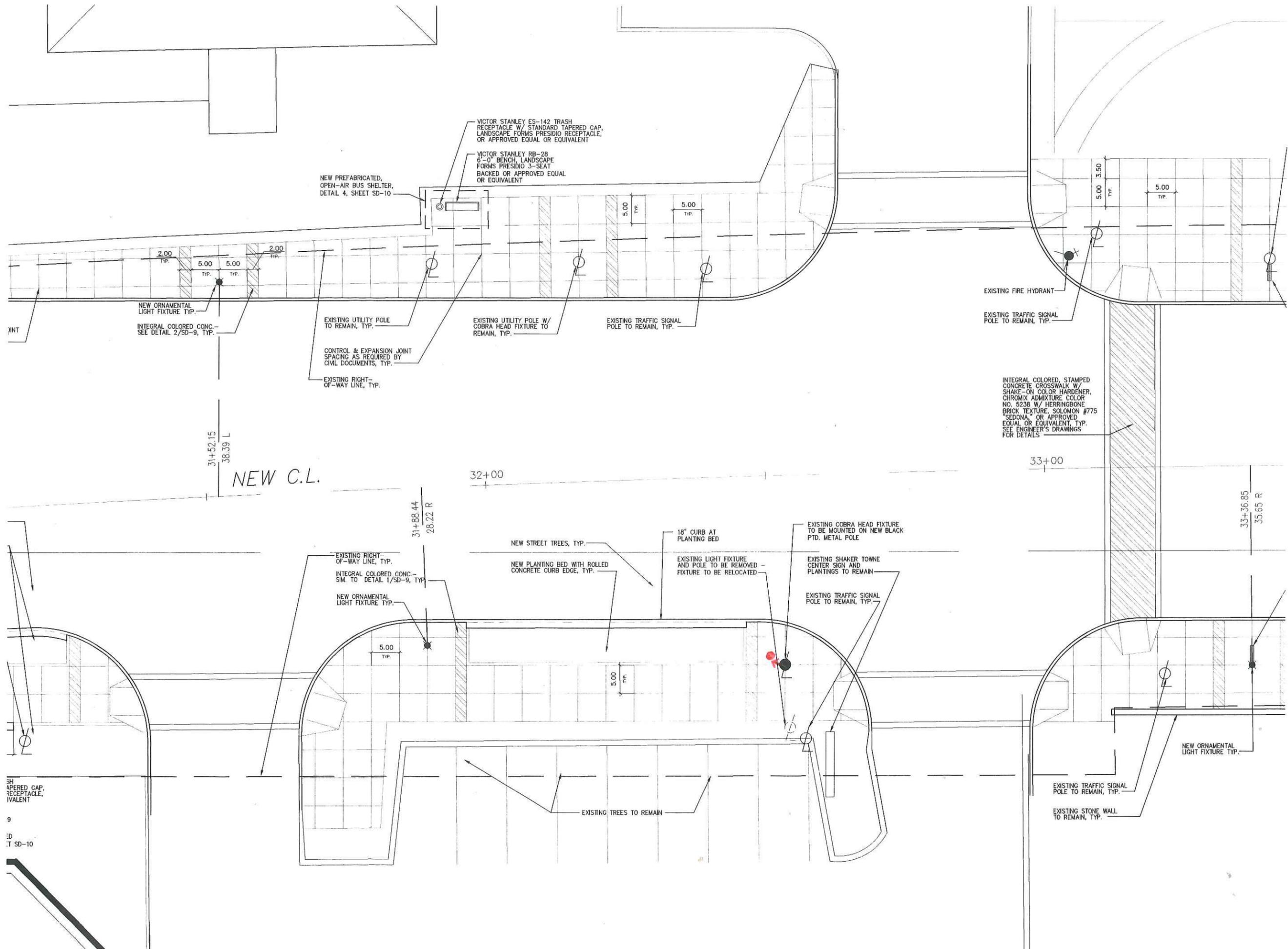
- LEGEND:**
- ① DOUBLE SOLID CENTER LINE
 - ② STOP LINE
 - ③ CROSSWALK LINE
 - ④ LANE ARROW
 - ⑤ WORD "ONLY" ON PAVEMENT
 - ⑥ LANE LINE
 - ⑦ EDGE LINE
 - ⑧ TRANSVERSE LINE
 - ⑨ CHANNELIZING LINE
 - ⑩ PARKING STALL MARKINGS
 - ⑪ DOTTED LINE

CALCULATED: GLP
 CHECKED: EV

0 10 20 40
 HORIZONTAL SCALE IN FEET

**TRAFFIC CONTROL PLAN - LEE RD.
STA. 92+00 TO STA. 102+46.50**

**REHABILITATION
OF LEE ROAD**



SH
TAPERED CAP
RECEPTACLE,
EQUIVALENT

9

SD
T SD-10

McHugh & Associates
Landscape
Architecture

The Green Building #421
10000 Green Building #4115
Cleveland, Ohio 44115
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cityARCHITECTURE

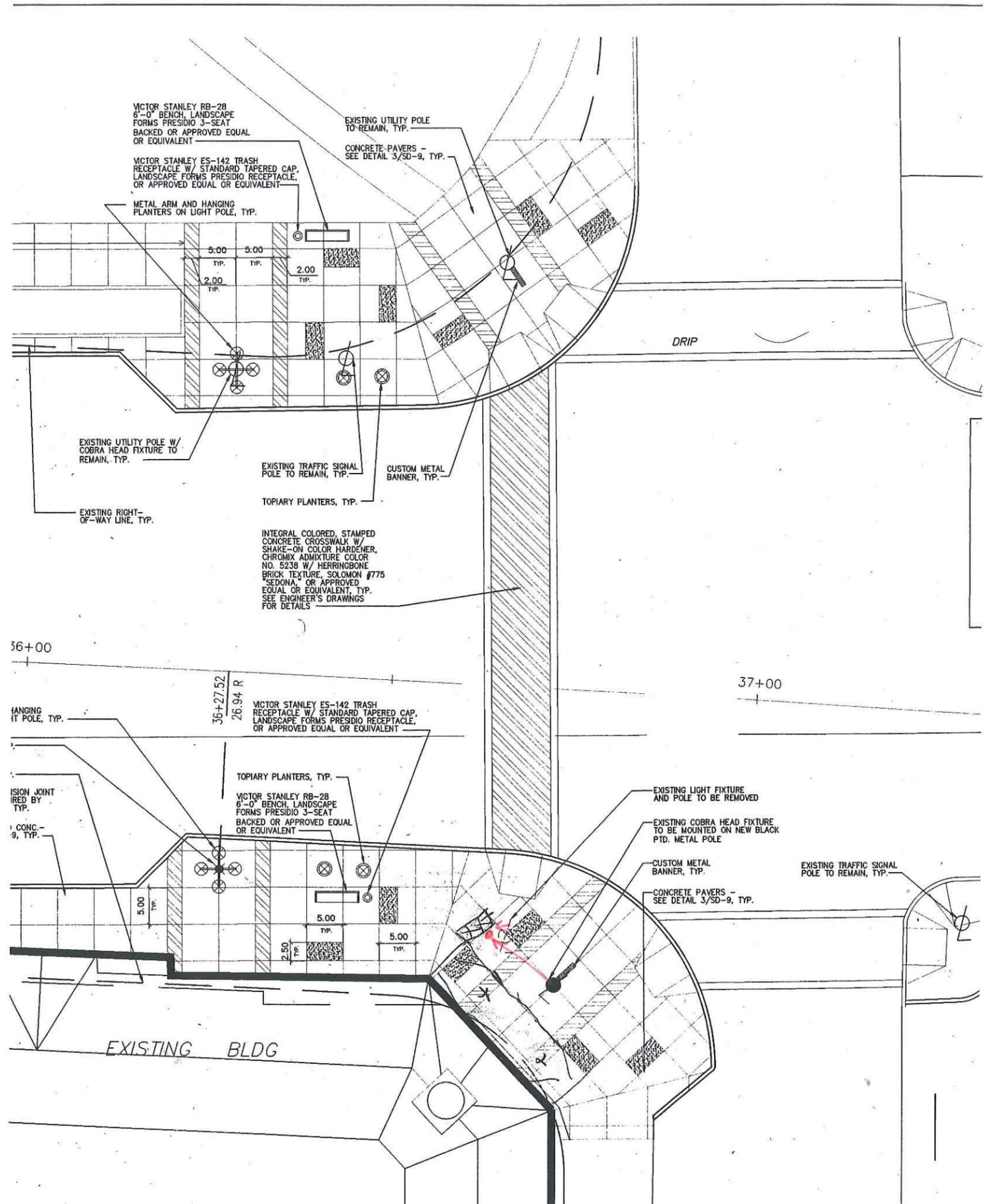
1634 Euclid Avenue
Cleveland, Ohio 44115
Phone: (216) 881-2444
Fax: (216) 881-4713
www.cityarch.com

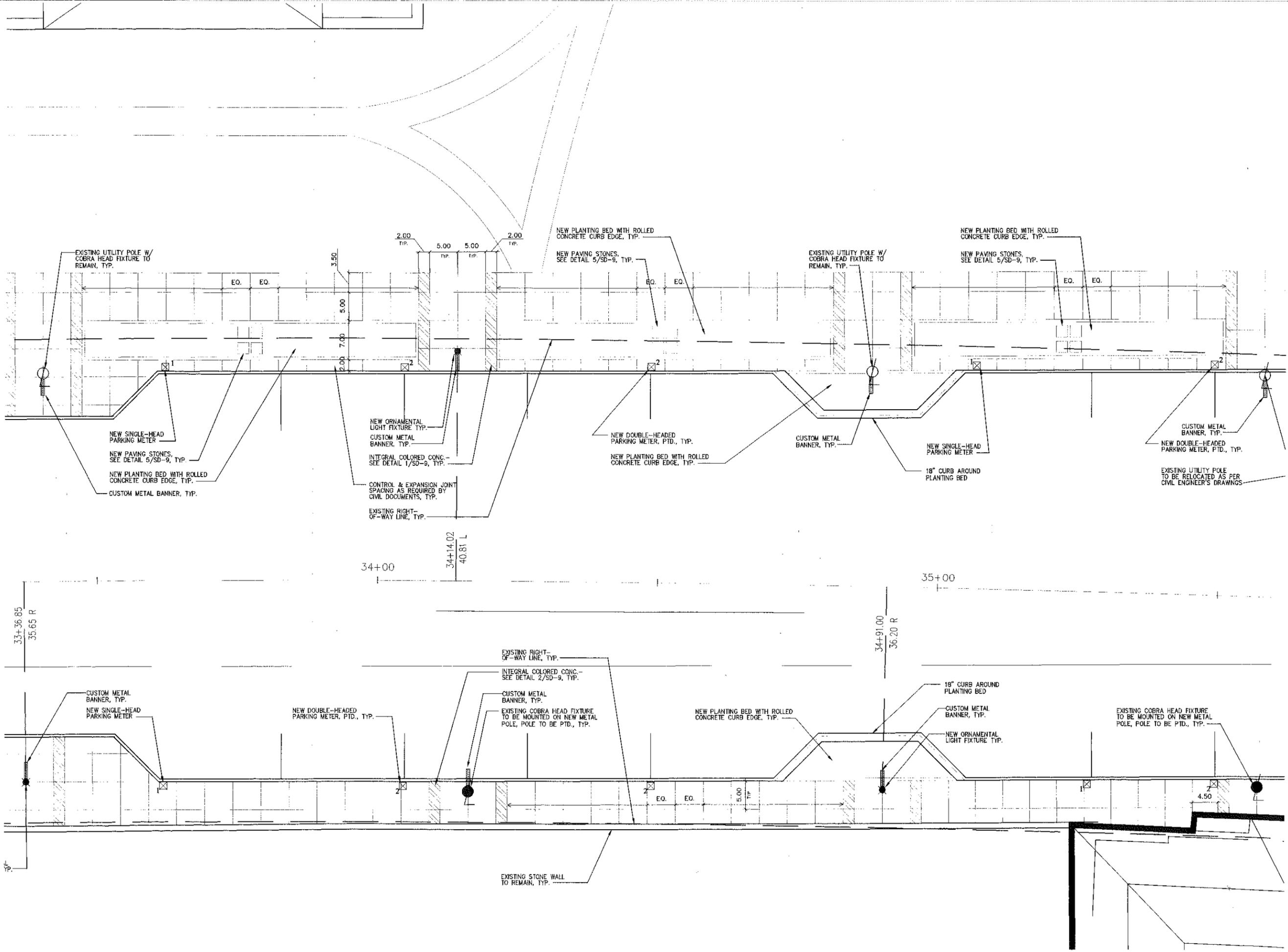
Street Plans
**Chagrin / Lee Neighborhood
 Lee Road Streetscape
 Improvements**
 Shaker Heights, Ohio

Date	September 30, 2004
Revision	
	November 2, 2004
	November 17, 2004
	November 24, 2004

Sheet

SCALE: 1"=20'





Street Plan - Section C

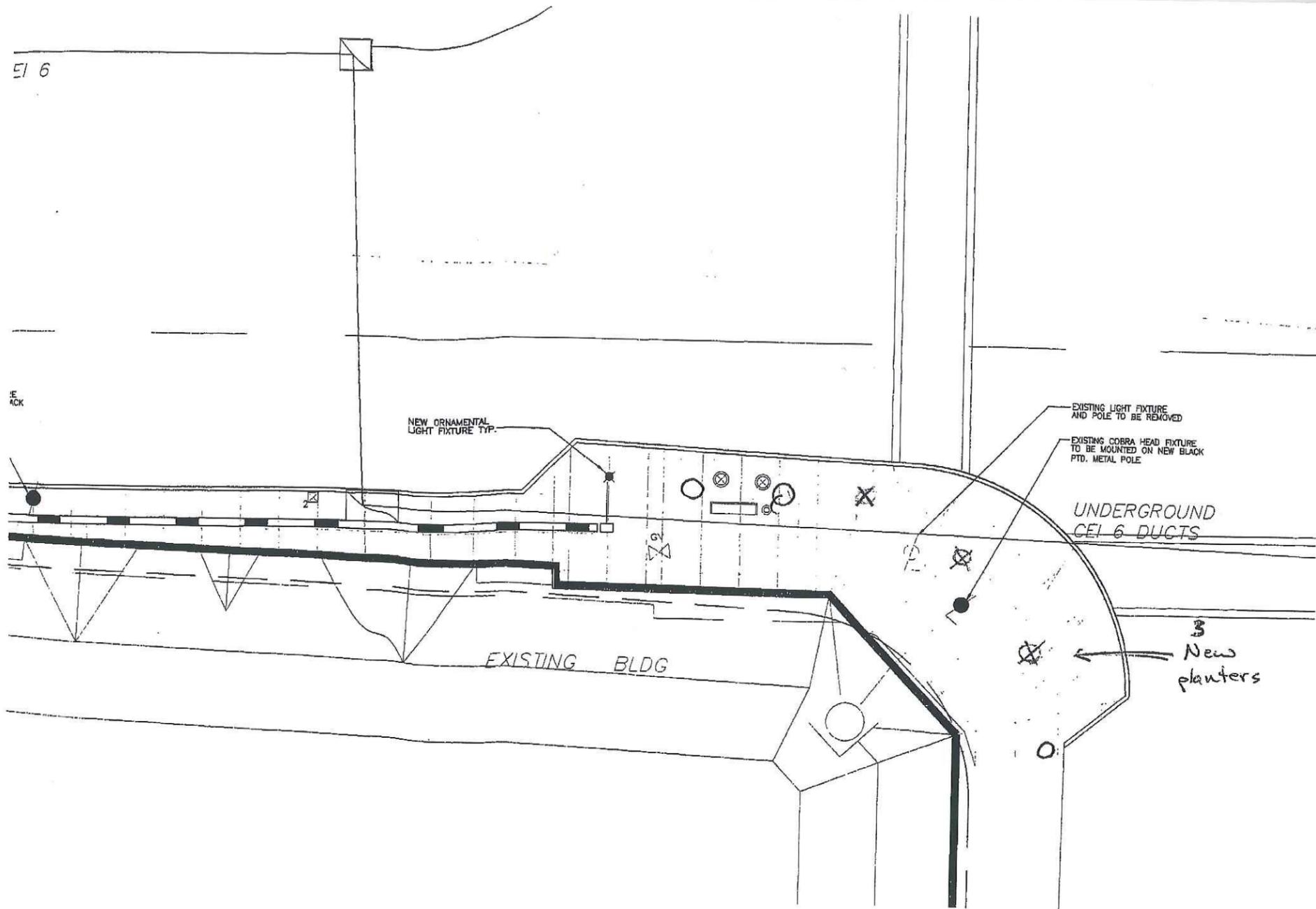
NOTE:
 CONTRACTOR TO VERIFY CONDITIONS AND 2 WORKING DAYS
 SCALE: 1"=8'-0"
 NORTH

Midlight & American
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 7300 Center Building #407
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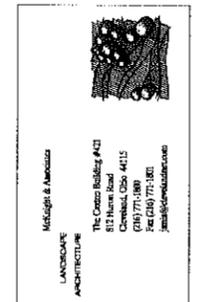
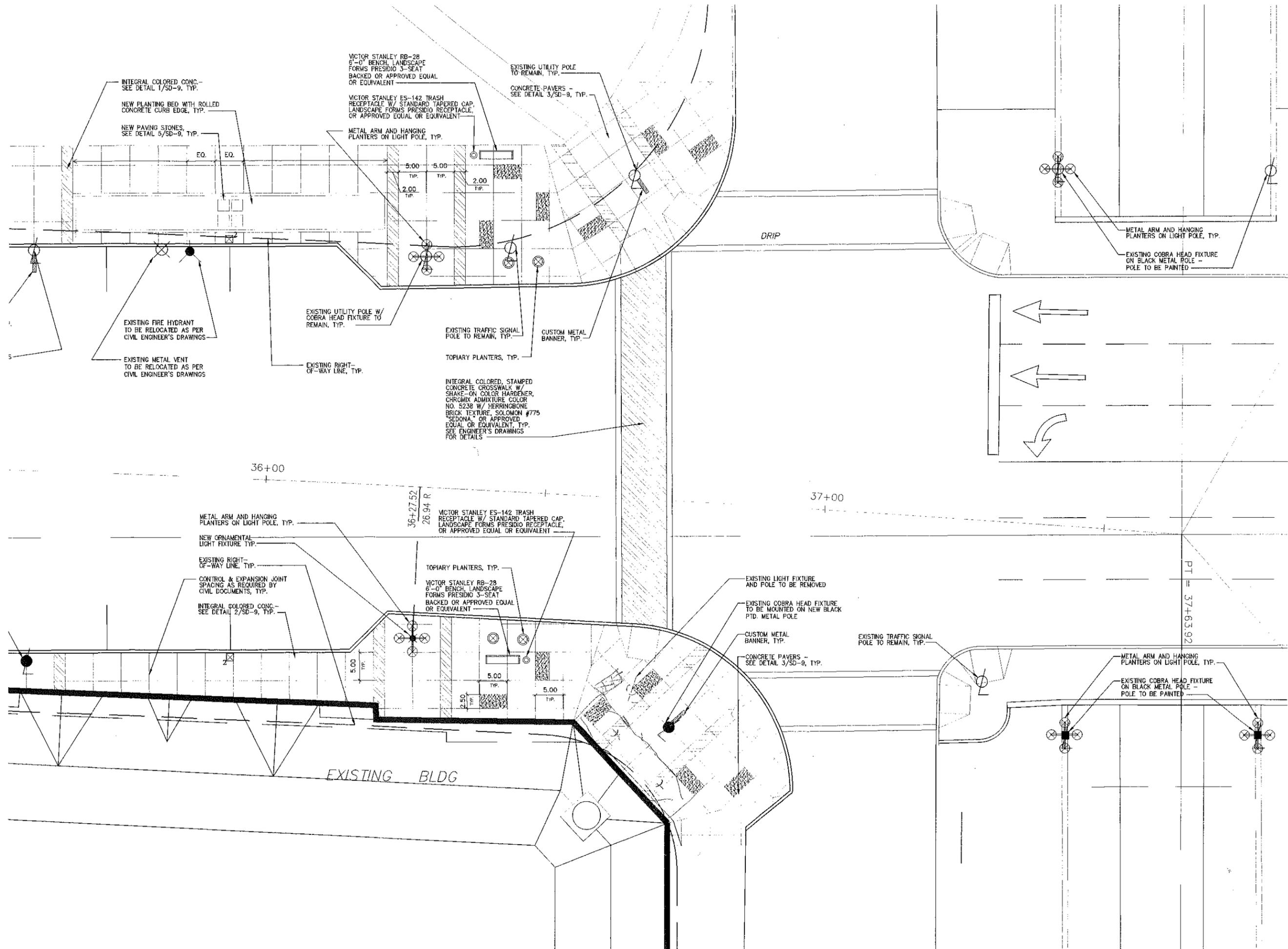
Street Plans
 Chagrin / Lee Neighborhood
 Lee Road Streetscape
 Improvements
 Shaker Heights, Ohio

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	November 17, 2004
	November 24, 2004



Street Plan - Section D
 Scale 1" = 8'-0"

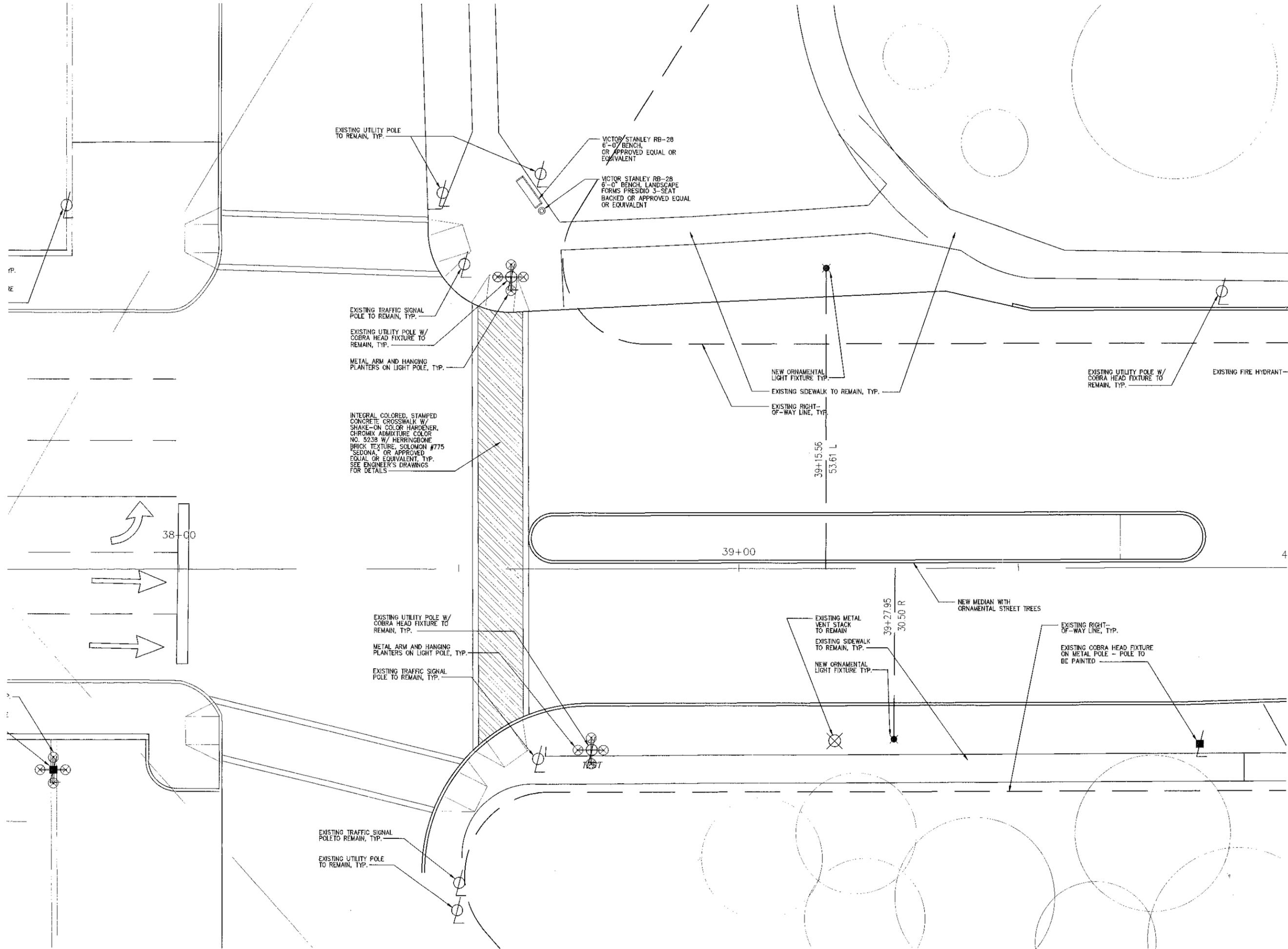
NOTE:
 CONTRACTOR TO VERIFY CONDITIONS
 DIMENSIONS IN THE FIELD AND NOTIFY
 OR ARCHITECT OF DISCREPANCY



McLaughlin & Associates
 LANDSCAPE ARCHITECTURE
 The Cobble Building #421
 812 Huron Road
 Cleveland, Ohio 44115
 Phone: (216) 241-7474
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Street Plans
Chagrin / Lee Neighborhood
Lee Road Streetscape
Improvements
 Shaker Heights, Ohio

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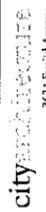
Street Plan - Section E

NOTE:

SCALE: 1/8" = 1'-0"



 JANSIG & ASSOCIATES
 LANDSCAPE ARCHITECTURE
 The Center Building #42
 811 Huron Road
 Cleveland, Ohio 44115
 Phone: (216) 881-6715
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 jansig@jansig.com

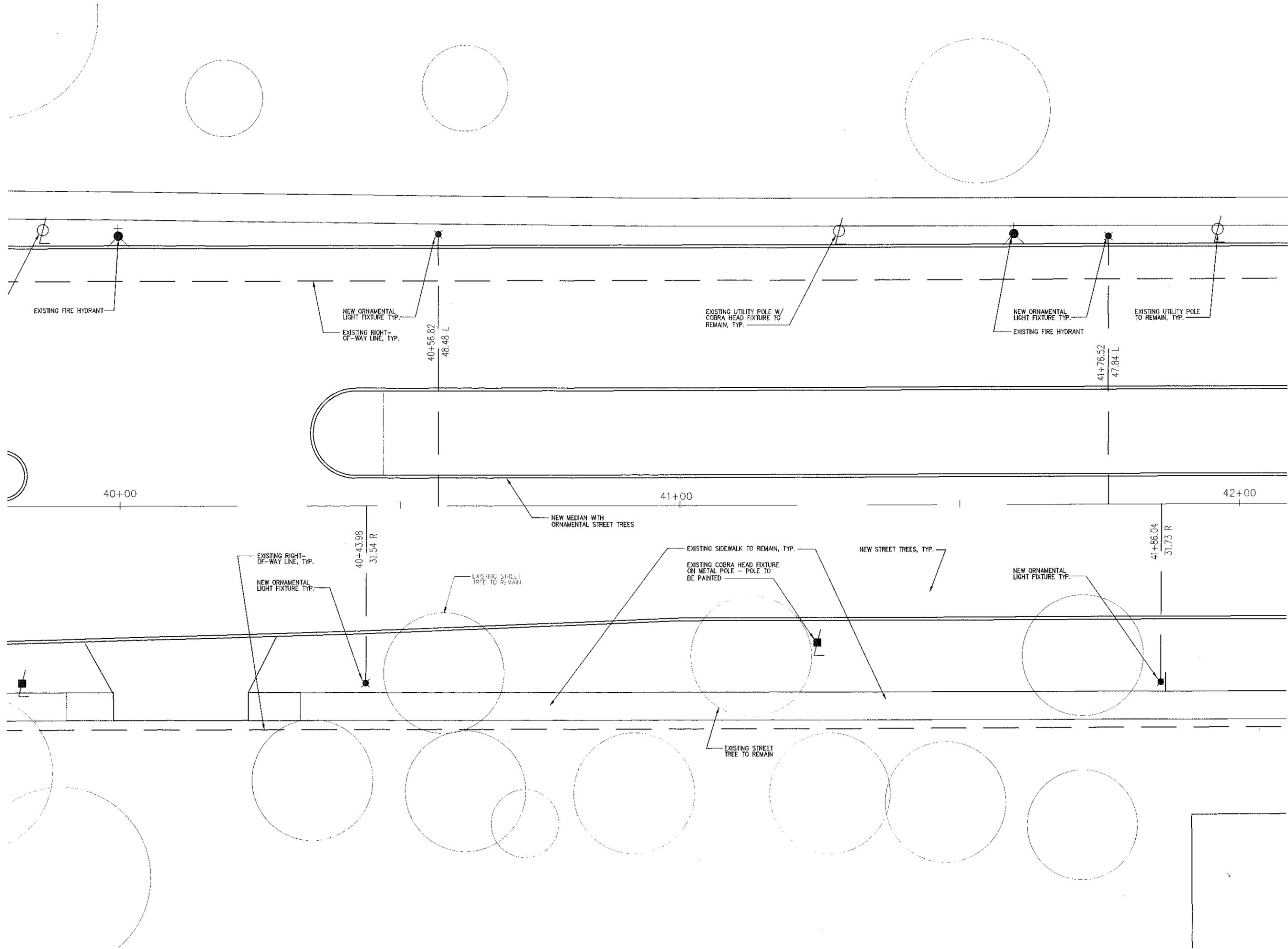


 CITY OF CLEVELAND
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Street Plans
Chagrin / Lee Neighborhood
Lee Road Streetscape
Improvements
 Shaker Heights, Ohio

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	November 24, 2004

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Street Plan - Section E

NOTE:

SCALE: 1"=8'-0"

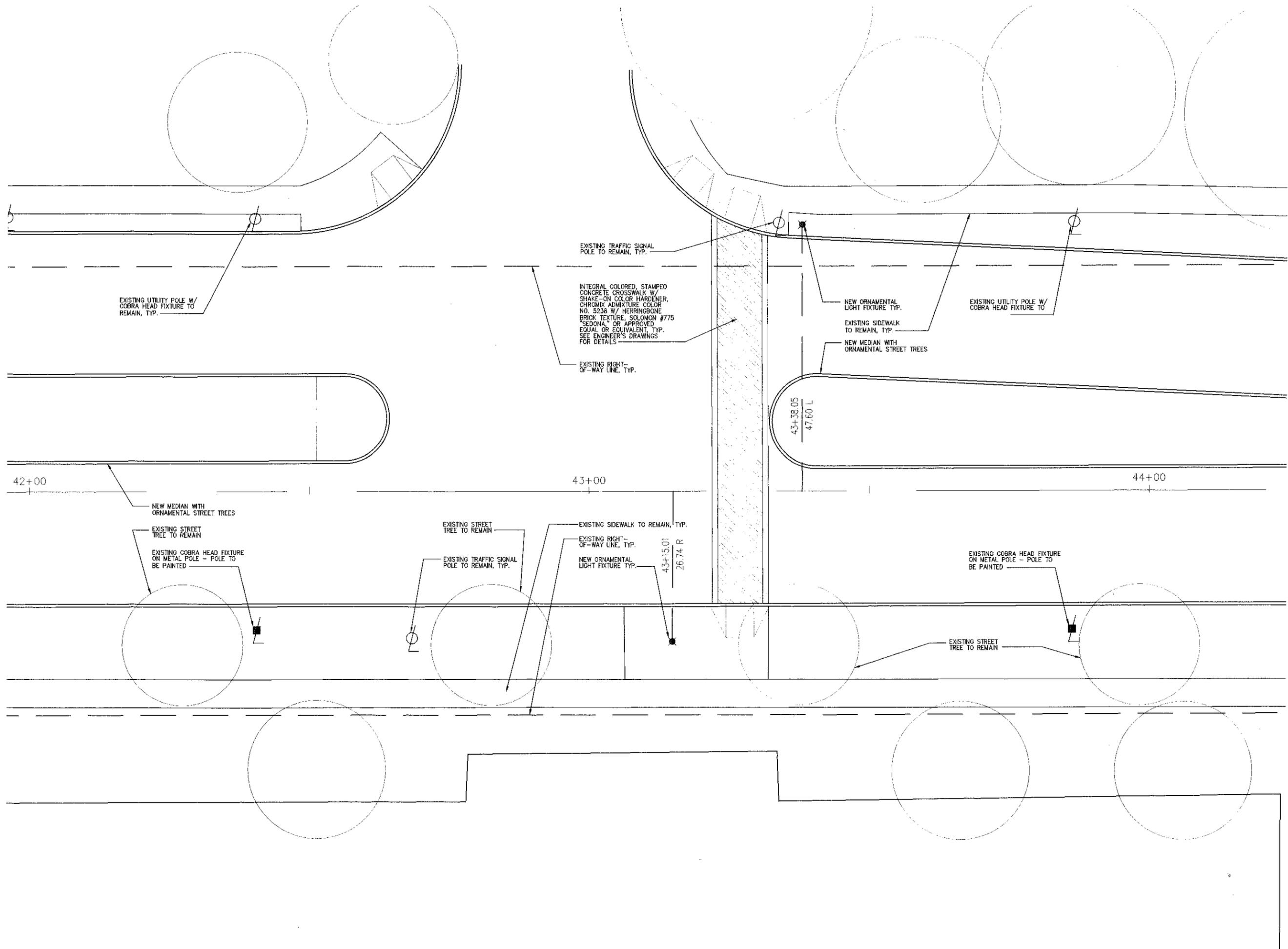
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Shaker Heights, Ohio

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	November 24, 2004

Sheet



EXISTING UTILITY POLE W/
COBRA HEAD FIXTURE TO
REMAIN, TYP.

EXISTING TRAFFIC SIGNAL
POLE TO REMAIN, TYP.

INTEGRAL COLORED, STAMPED
CONCRETE CROSSWALK W/
SHAKE-ON COLOR HARDENER,
CHROMIX ADMIXTURE COLOR
NO. 8236 W/ HERRINGBONE
BRICK TEXTURE, SOLOMON #775
SEDONA, OR APPROVED
EQUAL OR EQUIVALENT, TYP.
SEE ENGINEER'S DRAWINGS
FOR DETAILS

EXISTING RIGHT-
OF-WAY LINE, TYP.

NEW ORNAMENTAL
LIGHT FIXTURE TYP.

EXISTING SIDEWALK
TO REMAIN, TYP.

NEW MEDIAN WITH
ORNAMENTAL STREET TREES

EXISTING UTILITY POLE W/
COBRA HEAD FIXTURE TO

42+00

43+00

44+00

NEW MEDIAN WITH
ORNAMENTAL STREET TREES

EXISTING STREET
TREE TO REMAIN

EXISTING COBRA HEAD FIXTURE
ON METAL POLE - POLE TO
BE PAINTED

EXISTING STREET
TREE TO REMAIN

EXISTING TRAFFIC SIGNAL
POLE TO REMAIN, TYP.

EXISTING SIDEWALK TO REMAIN, TYP.

EXISTING RIGHT-
OF-WAY LINE, TYP.

NEW ORNAMENTAL
LIGHT FIXTURE TYP.

43+15.01
26.74 R

EXISTING COBRA HEAD FIXTURE
ON METAL POLE - POLE TO
BE PAINTED

EXISTING STREET
TREE TO REMAIN

43+38.05
47.60 L

McGraw & Associates
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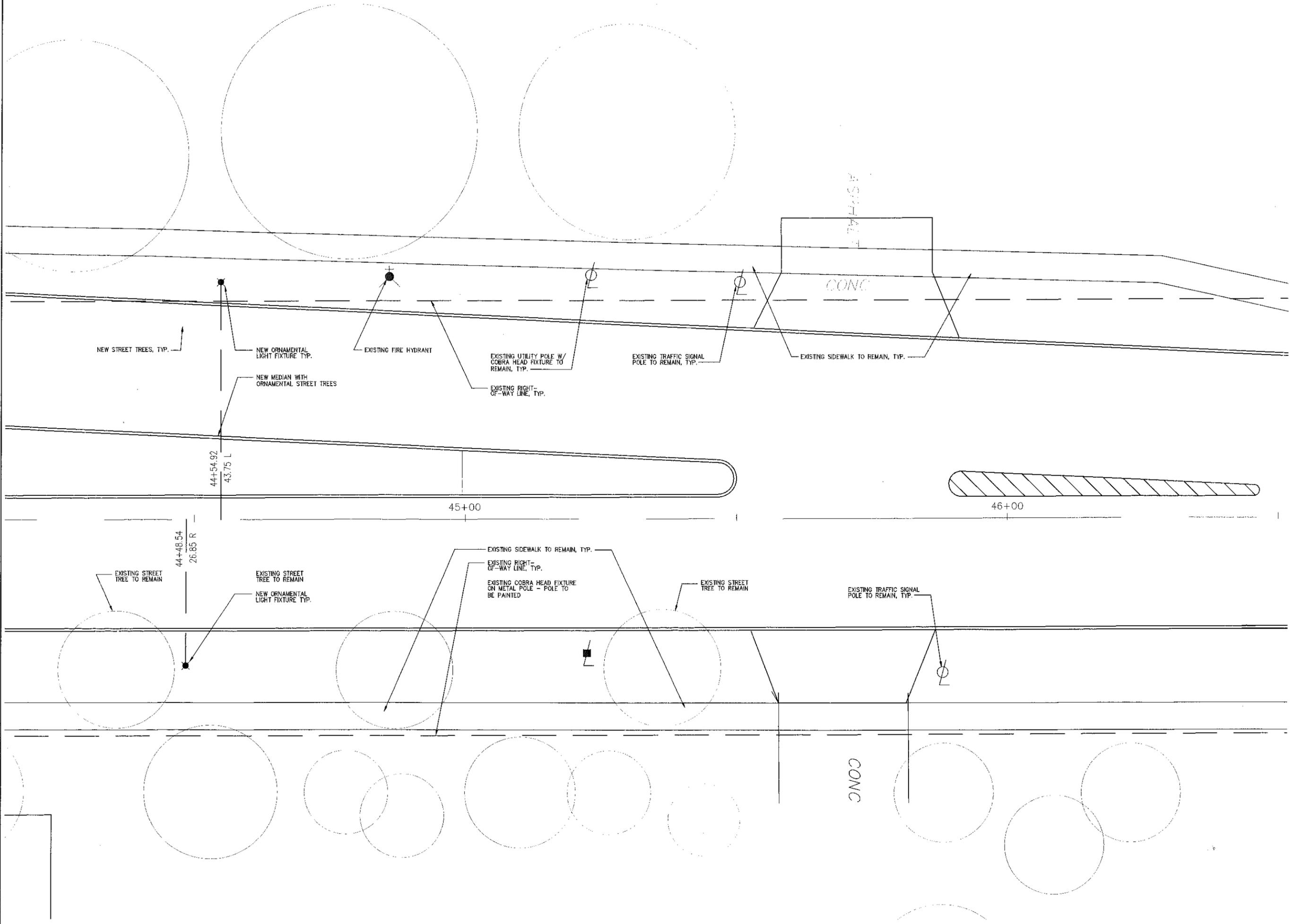
cityofleehighlands.com
3634 Beld Avenue
Suite 100
Cincinnati, Ohio 45244
phone: 513.681.2444
fax: 513.681.6713
www.cityofleehighlands.com

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Sheet

SCALE: 1"=8'-0"



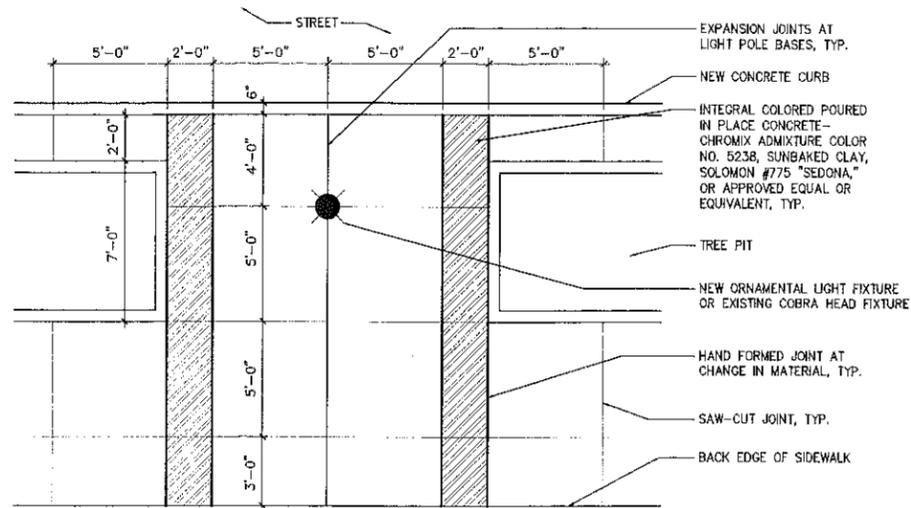
Mudge & Associates
 LANDSCAPE ARCHITECTURE
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city of shaker heights
 3634 Euclid Avenue
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Street Plans
Chagrin / Lee Neighborhood
Lee Road Streetscape
Improvements
 Shaker Heights, Ohio

Date	September 30, 2004
Revision	
	November 2, 2004
	November 17, 2004
	November 24, 2004

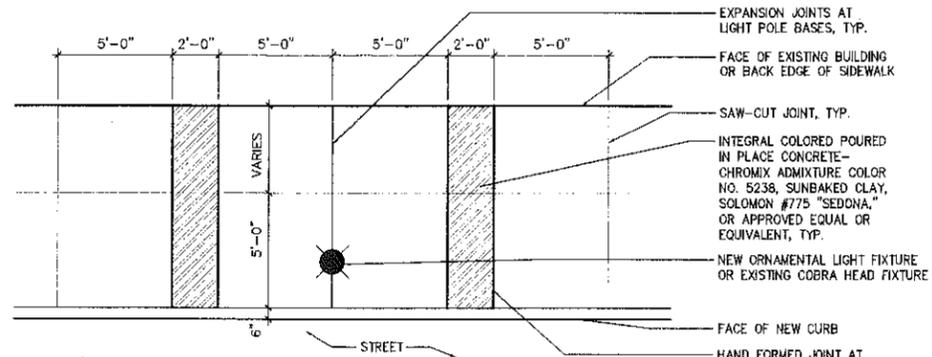
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 SCALE: 1"=8'-0"



TYPICAL PAVING PATTERN AT LIGHT POSTS: WEST SIDE ALONG PARK EDGE

SCALE: 1/4" = 1'-0"

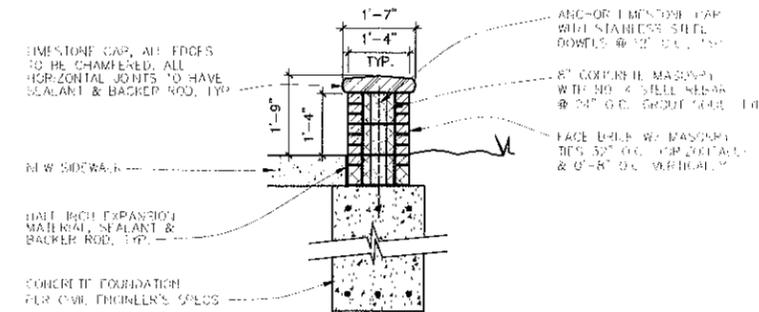
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SD-9



TYPICAL PAVING PATTERN AT LIGHT POSTS WITH NO PLANTER BED

SCALE: 1/4" = 1'-0"

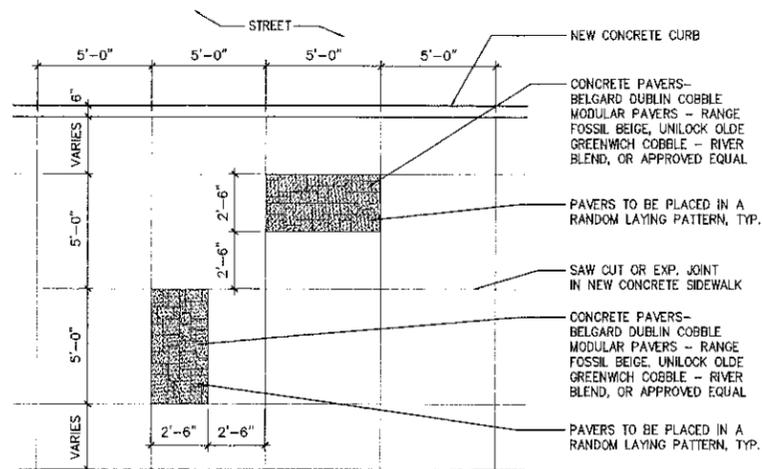
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SD-9



LOW MASONRY WALL - TYPICAL SECTION A

SCALE: 1/2" = 1'-0"

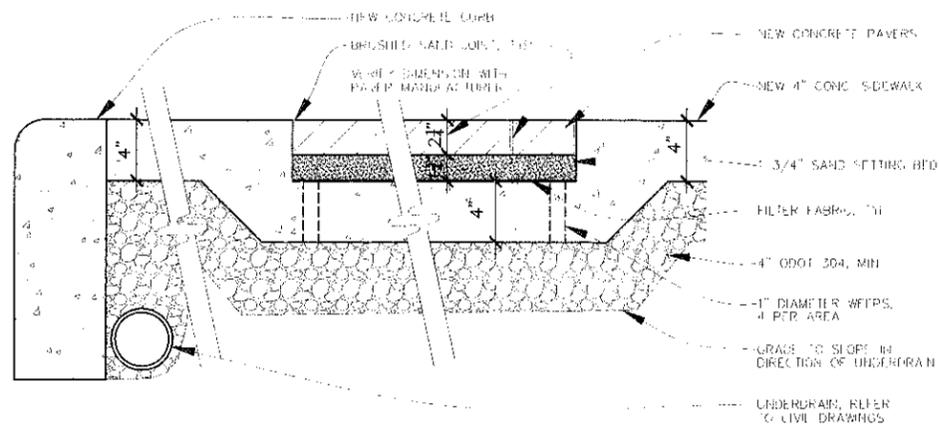
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SD-9



TYPICAL PAVING PATTERN: HALF SQUARES AT NODES

SCALE: 1/4" = 1'-0"

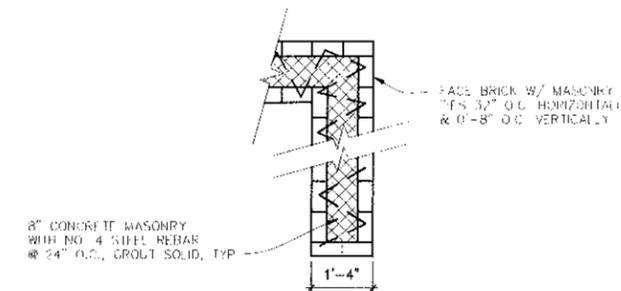
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SD-9



CROSS SECTION: CONCRETE PAVER SETTING BED

SCALE: 2" = 1'-0"

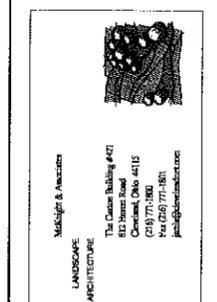
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SD-9



LOW MASONRY WALL - TYPICAL SECTION B

SCALE: 1/2" = 1'-0"

6
SD-9



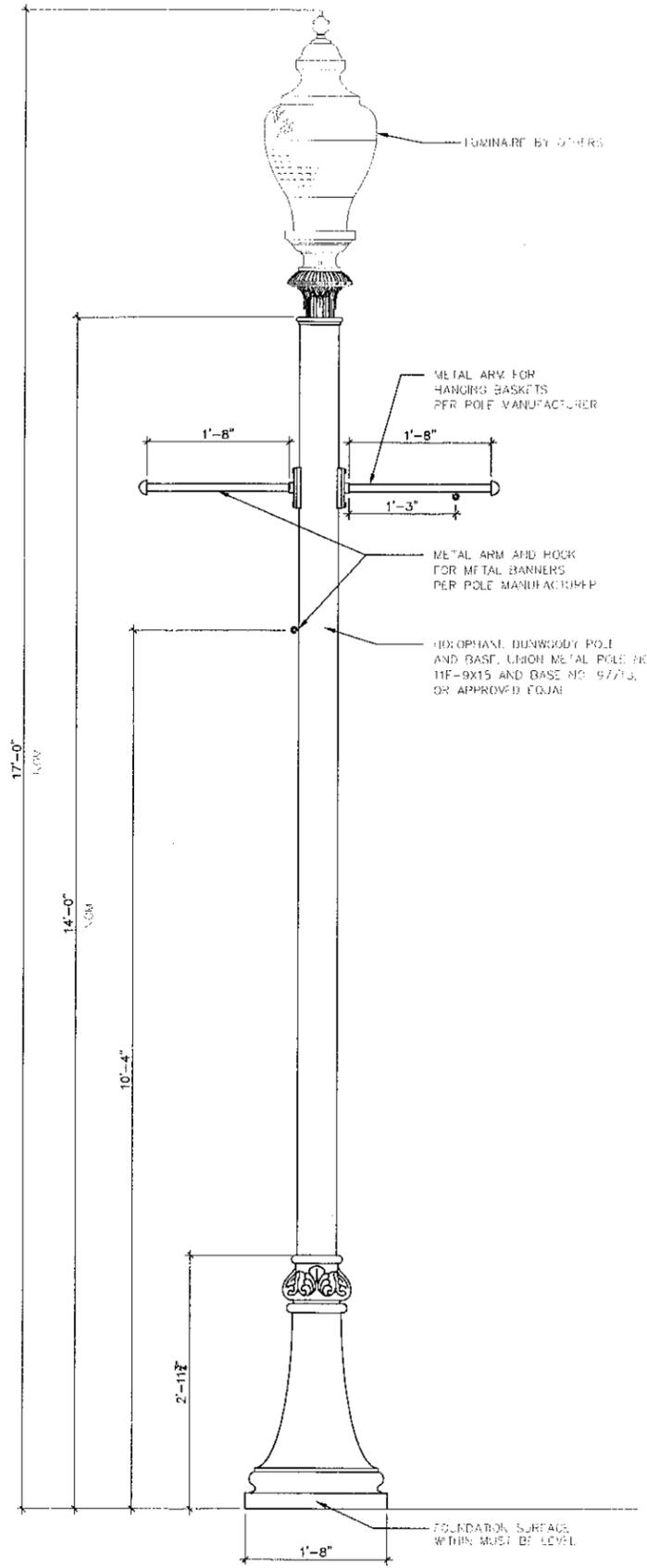
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Details of Streetscape Elements
**Chagrin / Lee Neighborhood
Lee Road Streetscape
Improvements**
Shaker Heights, Ohio

Date September 30, 2004

Revision
November 17, 2004
November 24, 2004

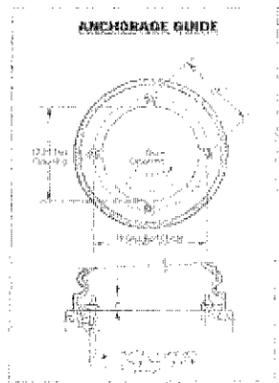
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ORNAMENTAL FIXTURE, BASE, AND POLE

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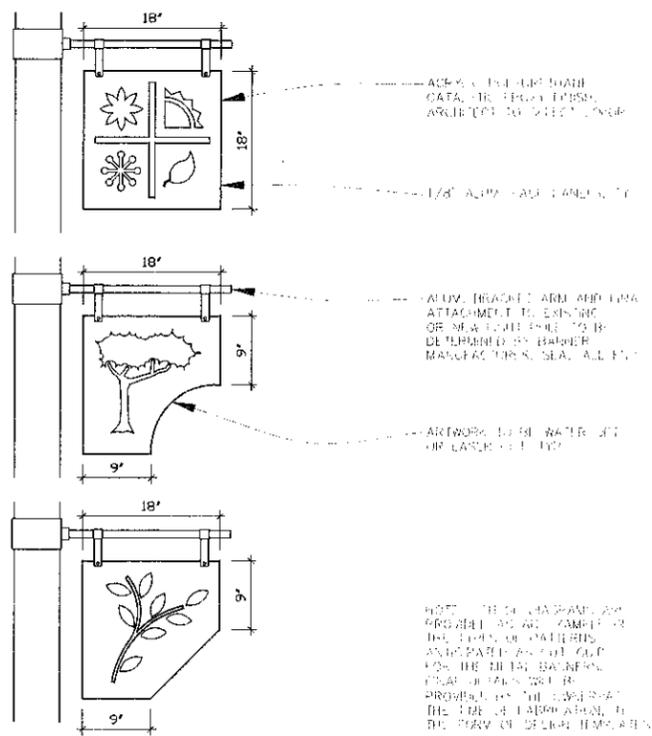
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SD-10



ORNAMENTAL LIGHT POLE BASE CONNECTIONS

SCALE: 1" = 1'-0"

2
SD-10



NOTE: THE CUSTOM BANNER DESIGN SHALL BE APPROVED BY ALL PARTIES TO THE CONTRACT. THE DESIGN SHALL BE PROVIDED AS A PDF FILE FOR THE BANNER MANUFACTURER. THE MANUFACTURER SHALL BE RESPONSIBLE FOR THE TIME OF FABRICATION TO BE PART OF BIDDING ITEMS.

CUSTOM ALUM. BANNERS

SCALE: 1" = 1'-0"

3
SD-10

Details of Streetscape Elements
Chagrin / Lee Neighborhood
Lee Road Streetscape
Improvements
 Shaker Heights, Ohio

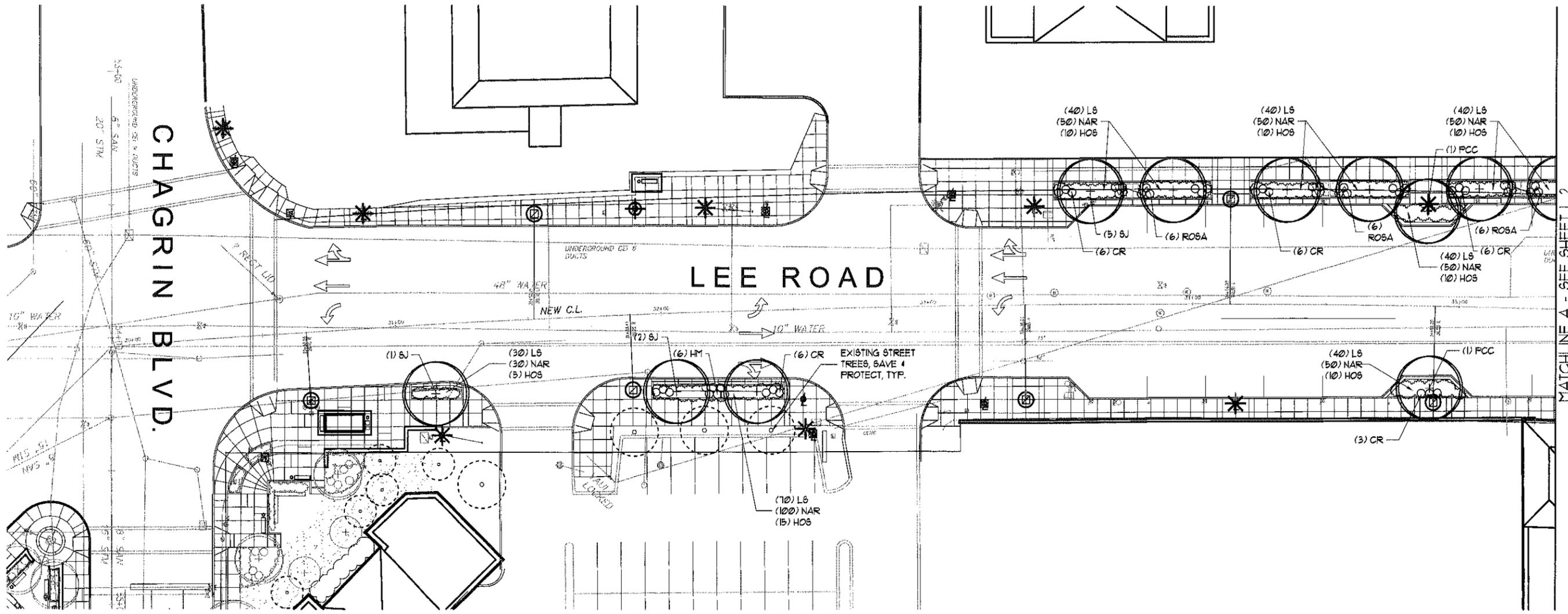
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November 17, 2004
November 24, 2004

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Planting Plan
Scale 1" = 20'-0"

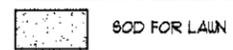
Plant Schedule

Key	Quant	Botanical / Common Name	Size	Cond.	Spacing
Trees					
GLED	13	Gleditsia tri. Inermis "Shademaster" / Honeylocust	3" Cal.	B&B	See Plan
PCA	10	Pyrus calleryana "Aristocral" / Flowering Pear	3" Cal.	B&B	See Plan
QR	18	Quercus rubra / Red Oak	3" Cal.	B&B	See Plan
SJ	11	Sophora japonica / Japanese Pagodatree	3" Cal.	B&B	30' O.C.
Shrubs					
CR	30	Cornus racemosa "Muskingum" / Gray Dogwood	24"	No. 3	3' O.C.
LS	340	Liriodendron muscari "Big Blue" / Lily Turf	8"	No. 1	12" O.C.
MP	116	Myrica pennsylvanica / Northern Bayberry	30"	No. 3	3' O.C.
RAGL	320	Rhus aromatica "Gro-Low" / Gro-Low Fragrant Sumac	18"	No. 3	3' O.C.
ROSA	125	Rosa "Carefree Delight" / Pink Rose	15"	No. 3	3' O.C.
Grasses					
Perennials					
HOS	80	Hosta sieboldiana "Elegans" / Elegans Hosta	Clump	No. 2	24" O.C.
Bulbs					
NAR	730	Narcissus sp. (3) Varieties to include: "Scarlet O'Hara", "Ice Follies", "Dutch Master"	Bulb	1' O.C.	Plant in clusters.

NOTE:

CONTRACTOR IS RESPONSIBLE FOR PROVIDING PLANT QUANTITIES DETAILED ON PLAN. SCHEDULE PROVIDED FOR REFERENCE ONLY.

Key



NOTE:

CONTRACTOR TO VERIFY CONDITIONS AND DIMENSIONS IN THE FIELD AND NOTIFY THE OWNER OR ARCHITECT OF DISCREPANCIES

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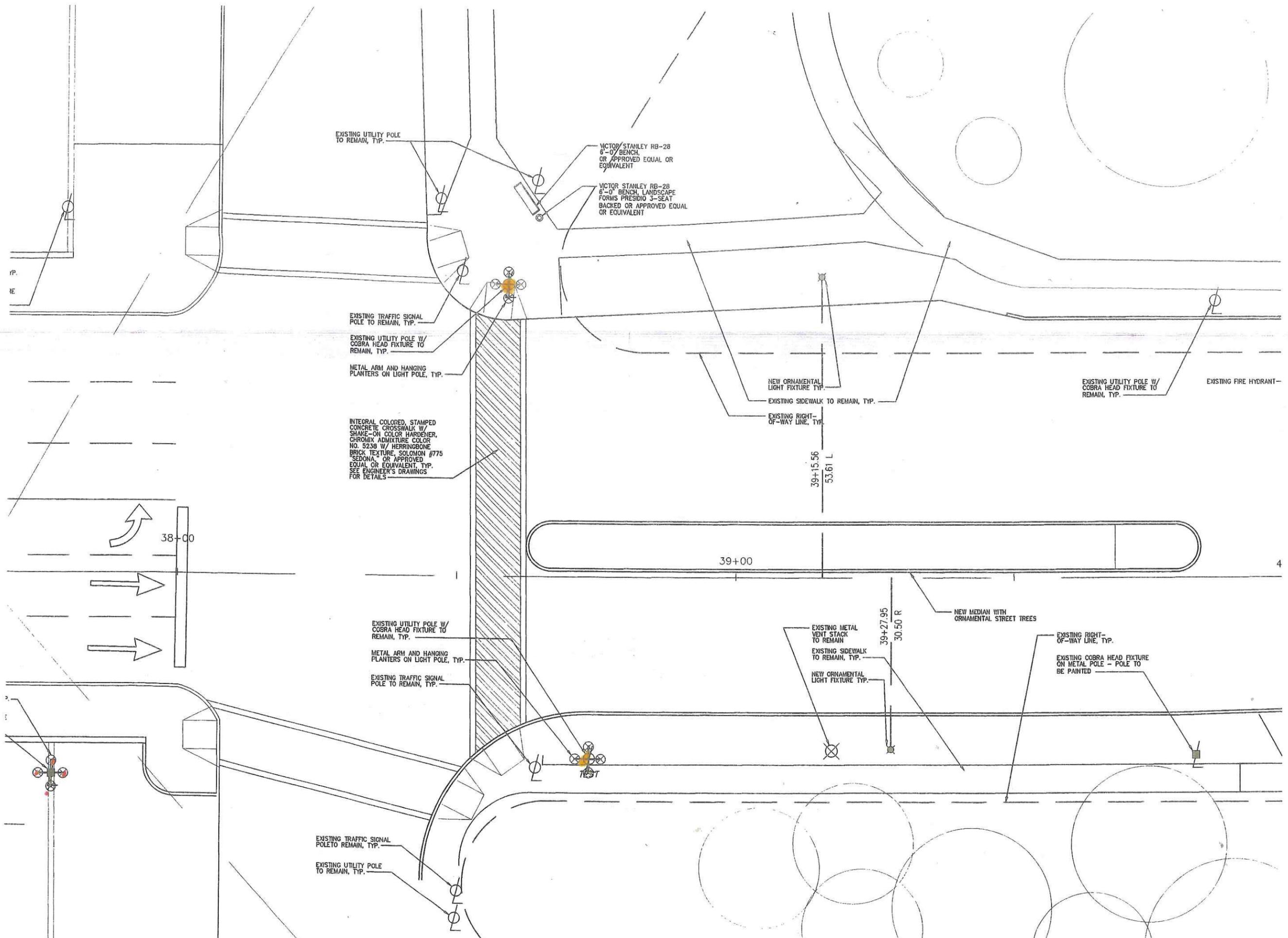
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Planting Plan
Chagrin / Lee Neighborhood
Lee Road Streetscape
Improvements
Shaker Heights, Ohio

Date November 24, 2004

Revision

Sheet 1



EXISTING UTILITY POLE TO REMAIN, TYP.

VICTOR STANLEY RB-28 6'-0" BENCH, OR APPROVED EQUAL OR EQUIVALENT

VICTOR STANLEY RB-28 6'-0" BENCH, LANDSCAPE FORMS PRESIDIO 3-SEAT BACKED OR APPROVED EQUAL OR EQUIVALENT

EXISTING TRAFFIC SIGNAL POLE TO REMAIN, TYP.

EXISTING UTILITY POLE W/ COBRA HEAD FIXTURE TO REMAIN, TYP.

METAL ARM AND HANGING PLANTERS ON LIGHT POLE, TYP.

INTEGRAL COLORED, STAMPED CONCRETE CROSSWALK W/ SHAKE-ON COLOR HARDENER, CHROMIX ADMIXTURE COLOR NO. 5238 W/ HERRINGBONE BRICK TEXTURE, SOLOMON #775 "SEDONA" OR APPROVED EQUAL OR EQUIVALENT, TYP. SEE ENGINEER'S DRAWINGS FOR DETAILS.

NEW ORNAMENTAL LIGHT FIXTURE TYP.

EXISTING SIDEWALK TO REMAIN, TYP.

EXISTING RIGHT-OF-WAY LINE, TYP.

EXISTING UTILITY POLE W/ COBRA HEAD FIXTURE TO REMAIN, TYP.

EXISTING FIRE HYDRANT-

39+15.56
53.61 L

39+00

39+27.95
30.50 R

NEW MEDIAN WITH ORNAMENTAL STREET TREES

EXISTING METAL VENT STACK TO REMAIN

EXISTING SIDEWALK TO REMAIN, TYP.

NEW ORNAMENTAL LIGHT FIXTURE TYP.

EXISTING RIGHT-OF-WAY LINE, TYP.

EXISTING COBRA HEAD FIXTURE ON METAL POLE - POLE TO BE PAINTED

EXISTING UTILITY POLE W/ COBRA HEAD FIXTURE TO REMAIN, TYP.

METAL ARM AND HANGING PLANTERS ON LIGHT POLE, TYP.

EXISTING TRAFFIC SIGNAL POLE TO REMAIN, TYP.

EXISTING TRAFFIC SIGNAL POLE TO REMAIN, TYP.

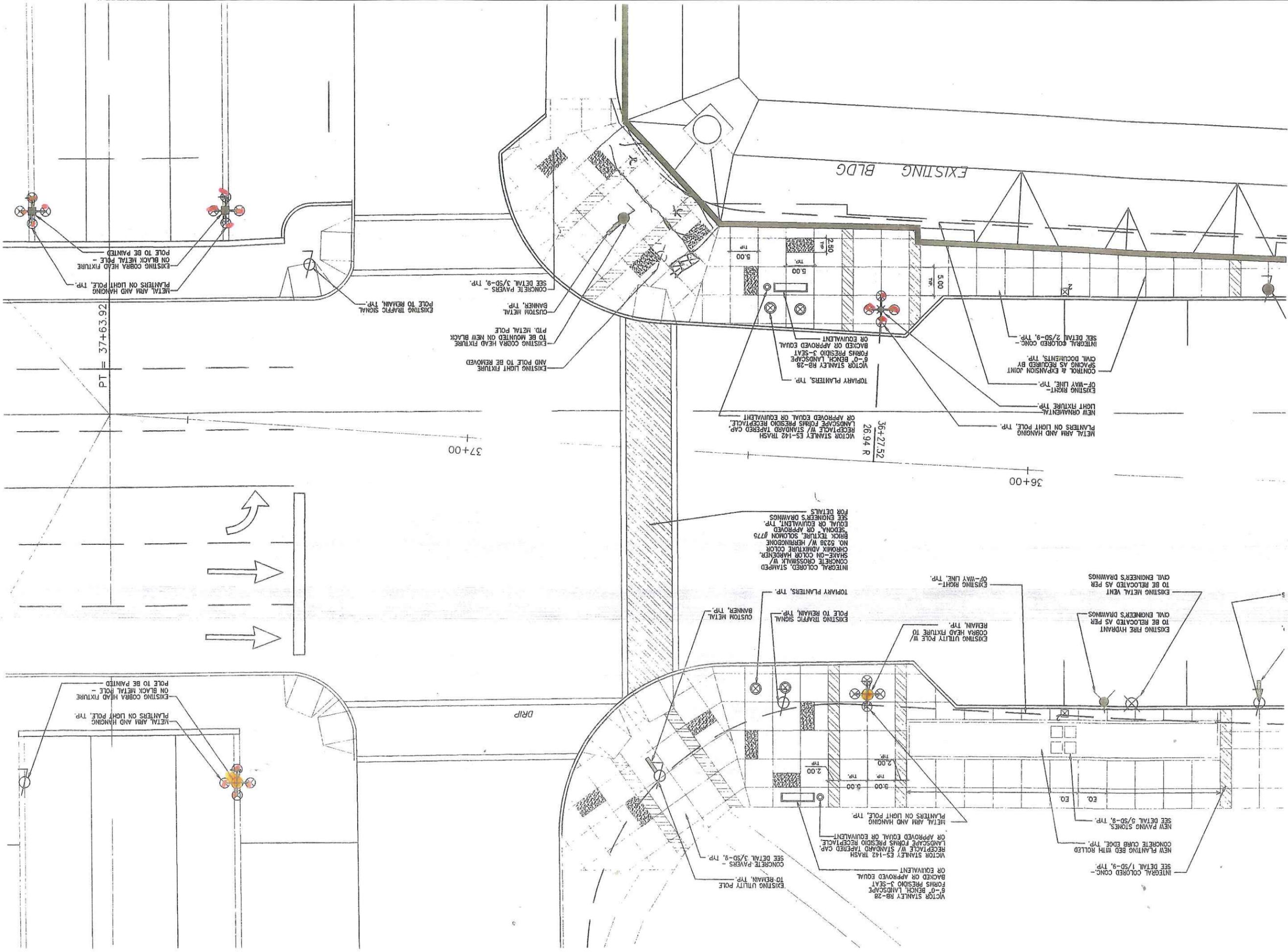
EXISTING UTILITY POLE TO REMAIN, TYP.


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Street Plans
Chagrin / Lee Neighborhood
Lee Road Streetscape
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 Shaker Heights, Ohio

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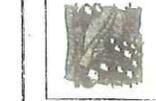


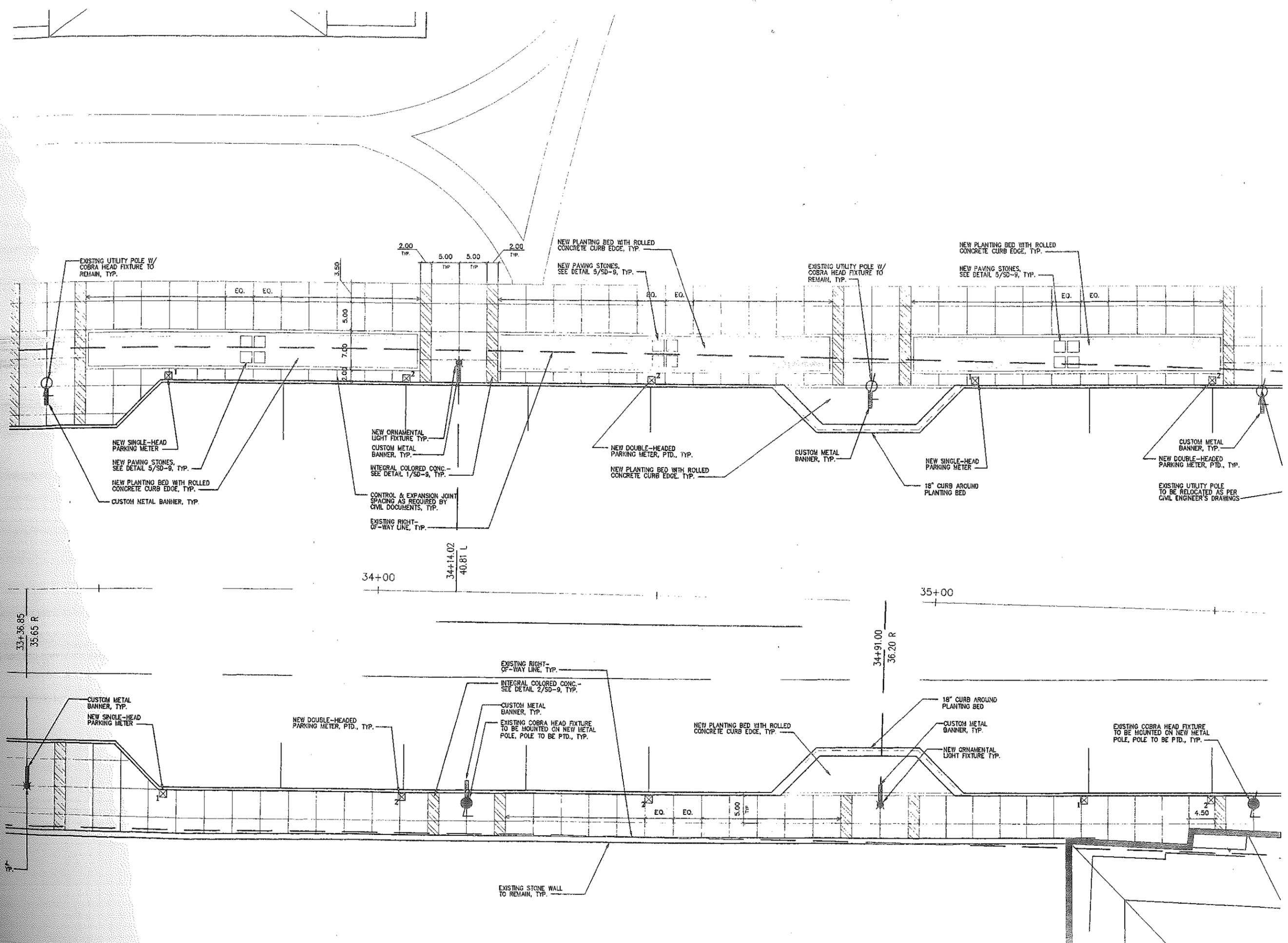
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November 2, 2004	November 2, 2004
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November 24, 2004	November 24, 2004

Street Plans
 Chagrin / Lee Neighborhood
 Lee Road Streetscape
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 Shaker Heights, Ohio

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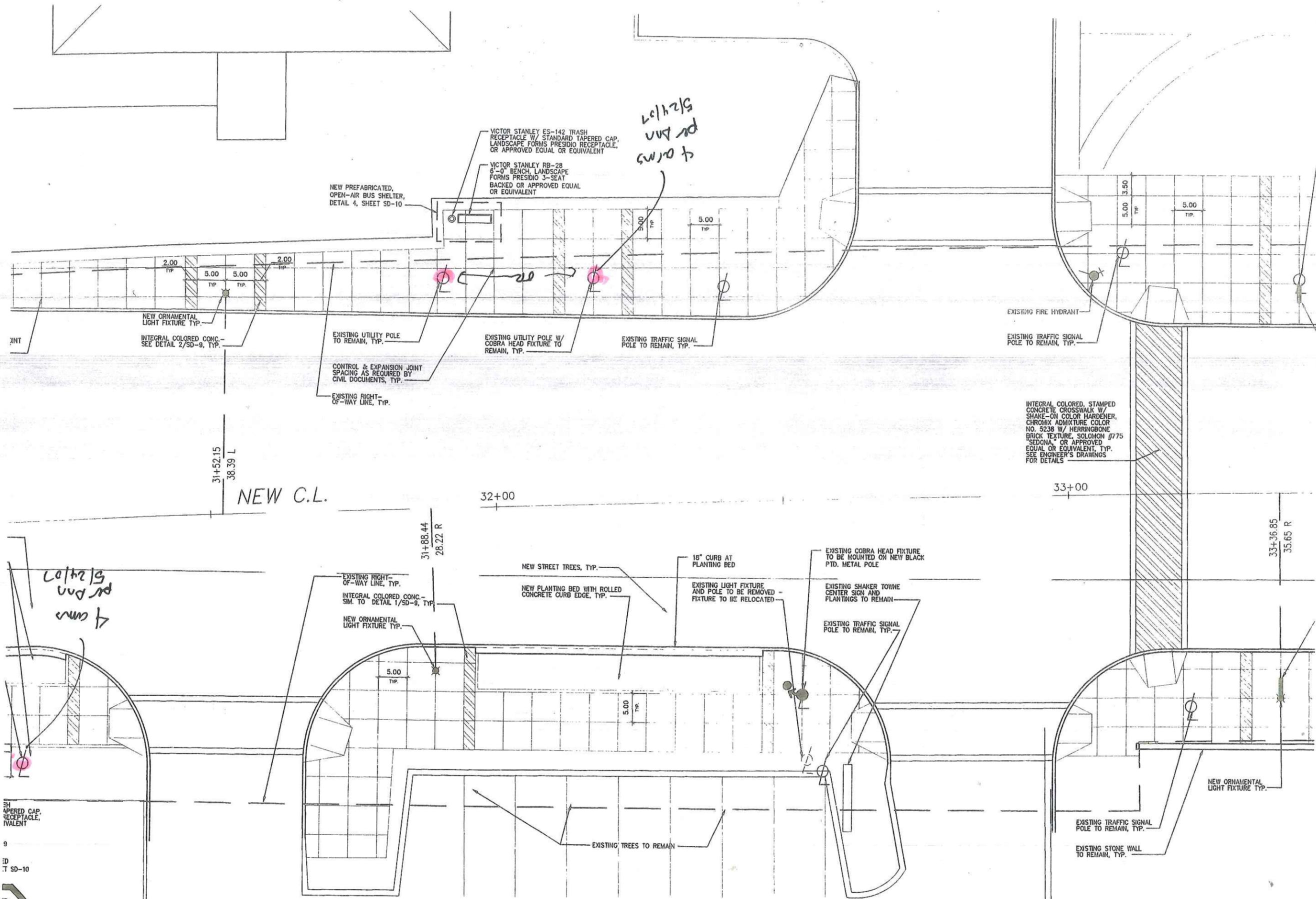




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Street Plans
Chagrin / Lee Neighborhood
Lee Road Streetscape
Improvements
 Shaker Heights, Ohio

Date	September 30, 2004
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	November 24, 2004



5/24/04
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4 arms

5/24/04
PR DNN
4 arms

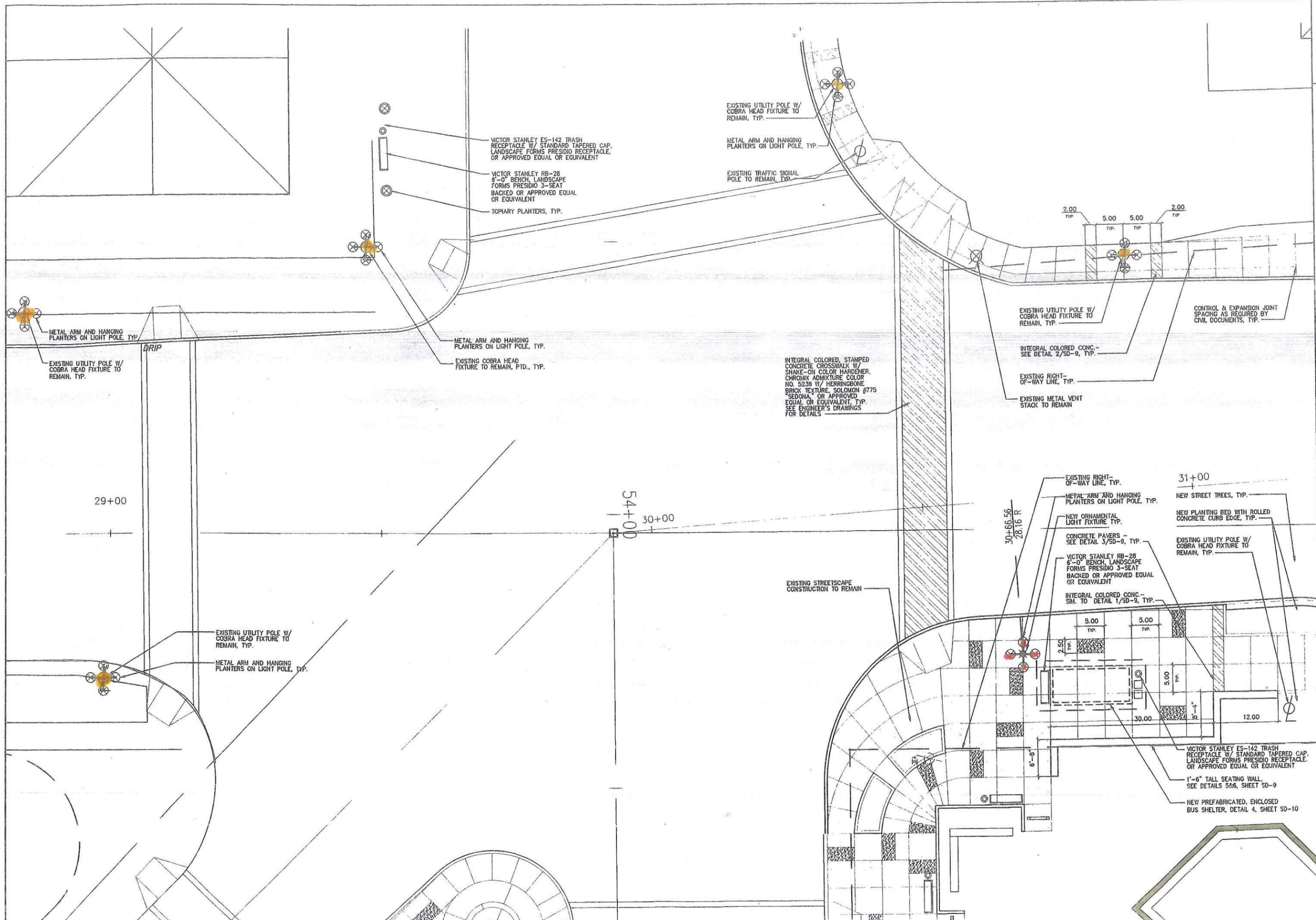


Street Plans
Chagrin / Lee Neighborhood
Lee Road Streetscape
Improvements
 Shaker Heights, Ohio

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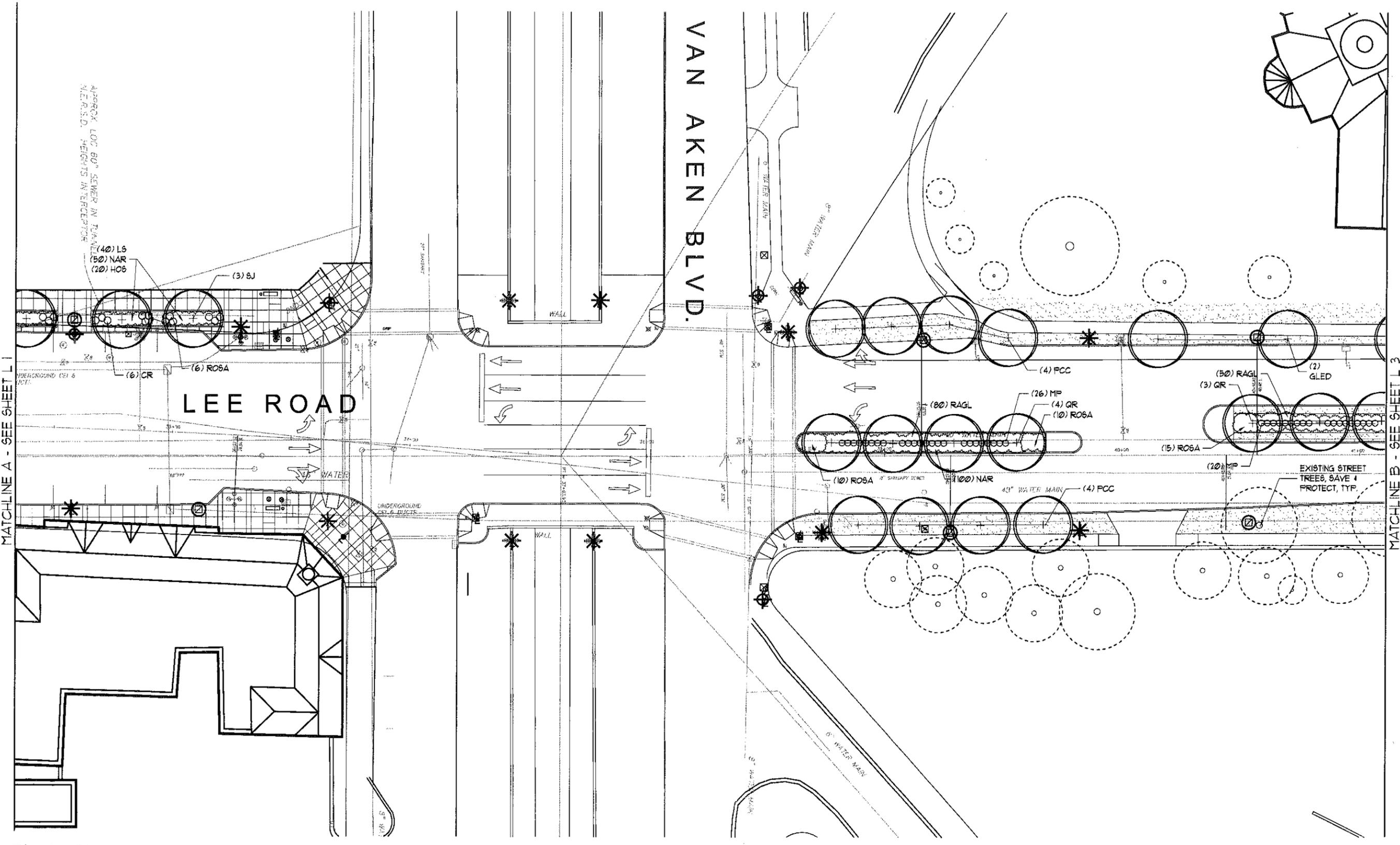


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Street Plans
Chagrin / Lee Neighborhood
Lee Road Streetscape
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 Shaker Heights, Ohio

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	November 24, 2004



APPROX. LOC. 80' SEWER IN TUNNEL
NEAR S.D. HEIGHTS INTERSECTION

MATCHLINE A - SEE SHEET L 1

MATCHLINE B - SEE SHEET L 3

Planting Plan
Scale 1" = 20'-0"

NOTE:
CONTRACTOR TO VERIFY CONDITIONS AND
DIMENSIONS IN THE FIELD AND NOTIFY THE OWNER
OR ARCHITECT OF DISCREPANCIES

SCALE: 1" = 20'-0"

McGee & Associates
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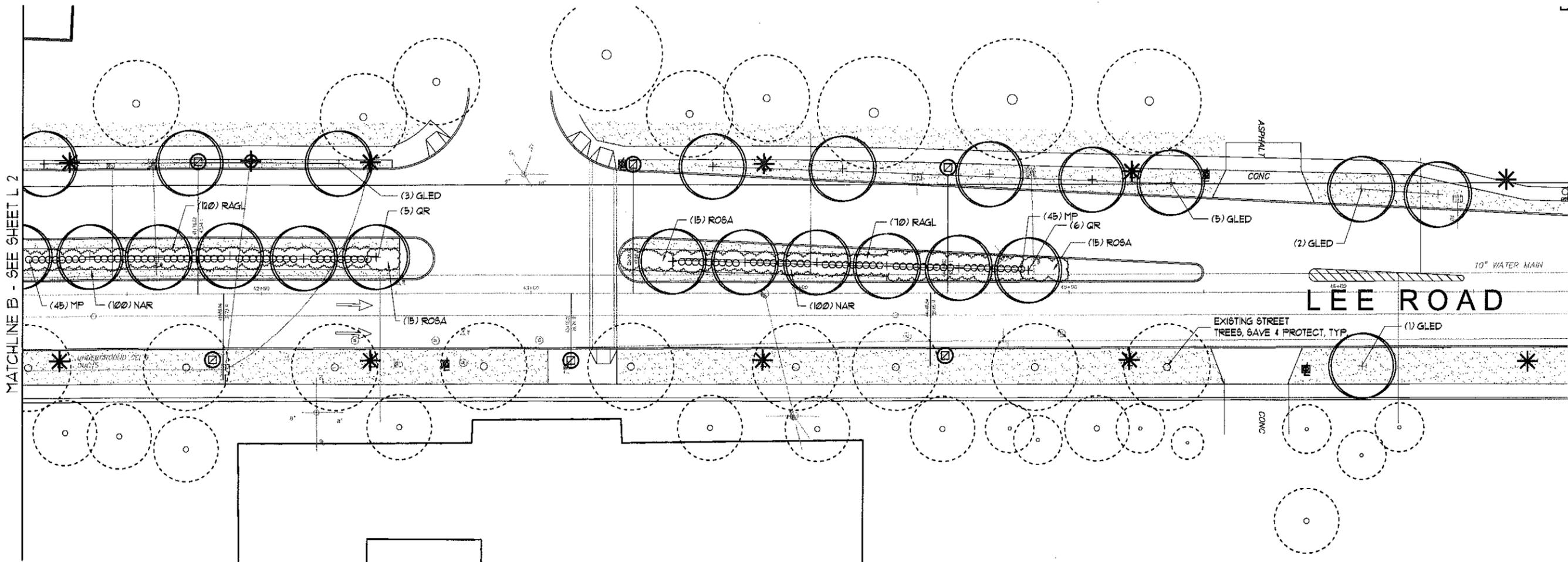
cityarchitecture
3654 Euclid Avenue
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fax: 216.881.6713
www.cityarch.com

Planting Plan
Chagrin / Lee Neighborhood
**Lee Road Streetscape
Improvements**
Shaker Heights, Ohio

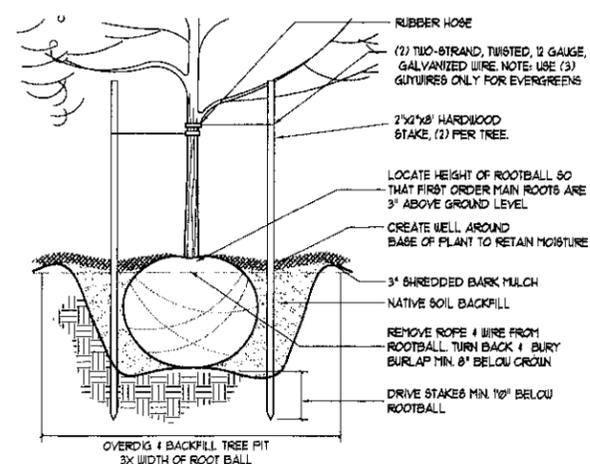
Date November 24, 2004

Revision

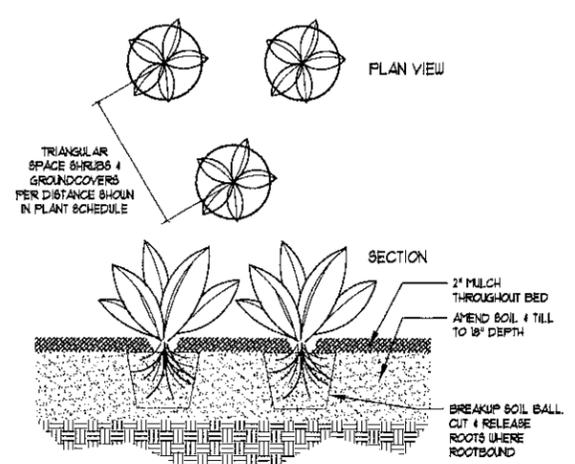
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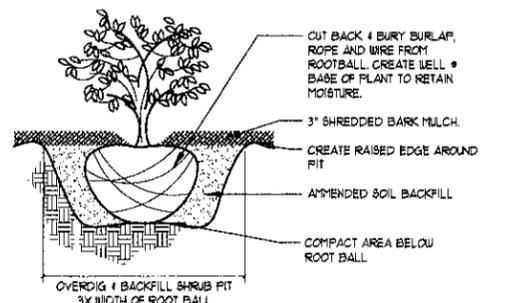
Planting Plan
Scale 1" = 20'-0"



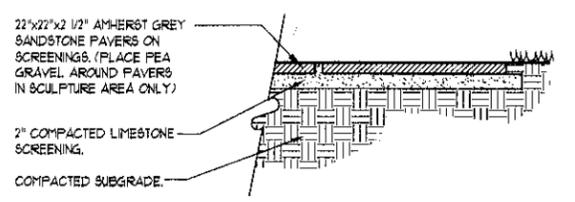
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NOT TO SCALE



2 GROUNDCOVER / PERENNIAL PLANTING
NOT TO SCALE



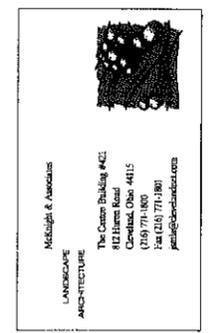
3 SHRUB PLANTING
NOT TO SCALE



4 FLAGSTONE PAVING
SCALE: 1\"/>

NOTE:
CONTRACTOR TO VERIFY CONDITIONS AND DIMENSIONS IN THE FIELD AND NOTIFY THE OWNER OR ARCHITECT OF DISCREPANCIES

SCALE: 1" = 20'-0"



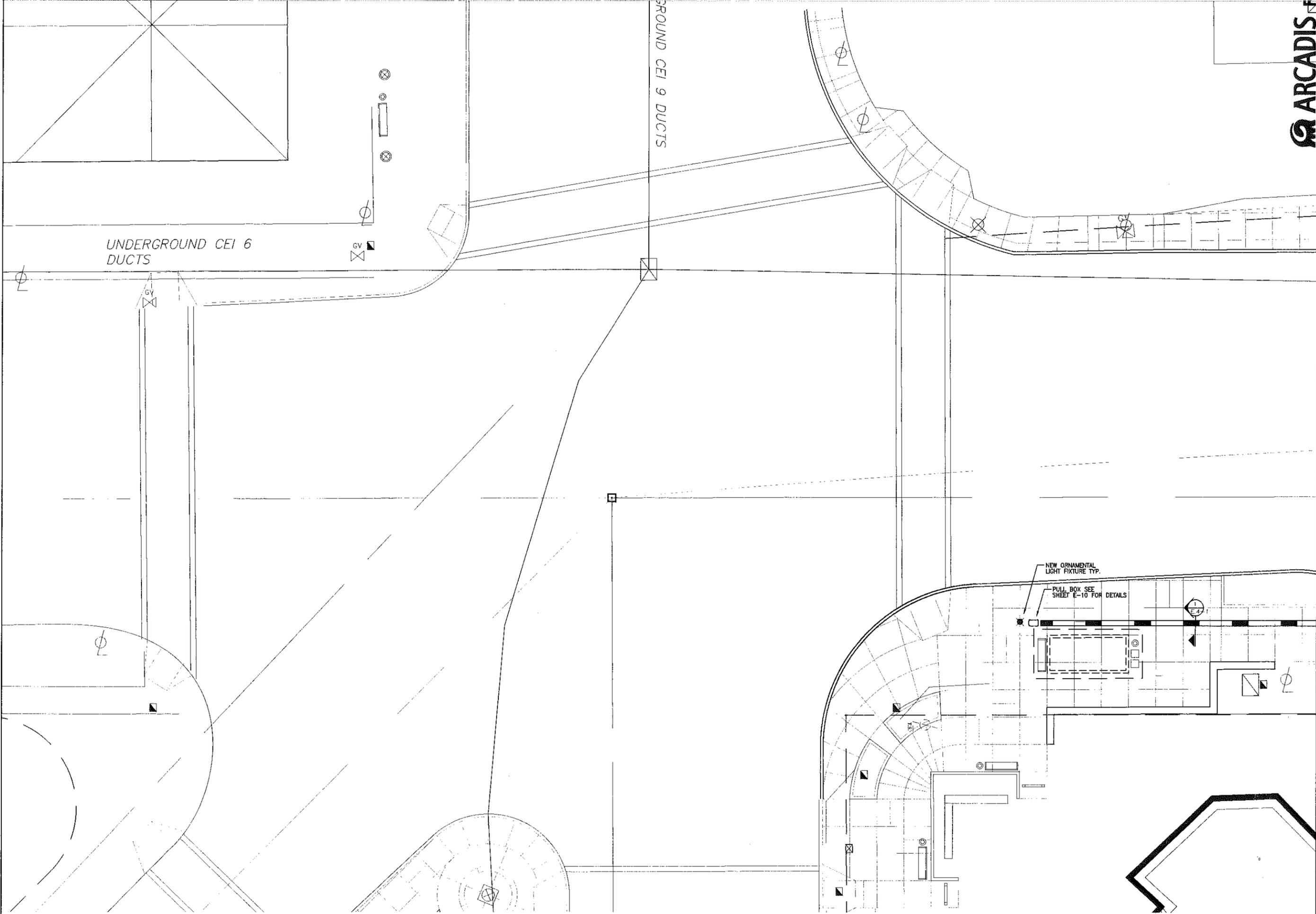
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Planting Plan
Chagrin / Lee Neighborhood
Lee Road Streetscape
Improvements
Shaker Heights, Ohio

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Revision

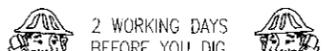
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Street Plan - Section A

Scale 1" = 8'-0"

NOTE:
CONTRACTOR TO VERIFY CONDITIONS AND DIMENSIONS IN THE FIELD AND NOTIFY THE OWNER.



SCALE: 1" = 8'-0"



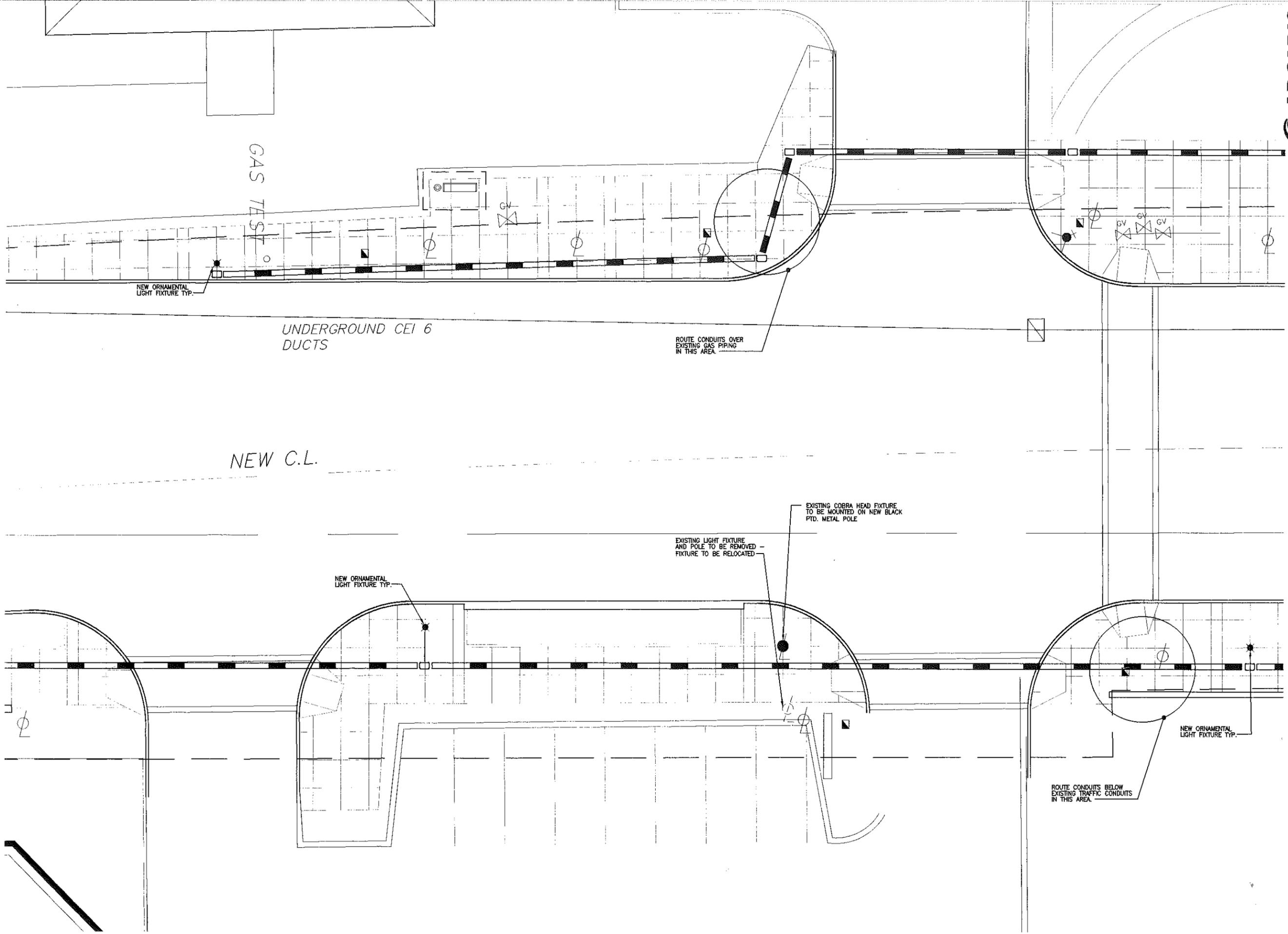
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Street Plans
**Chagrin / Lee Neighborhood
Lee Road Streetscape
Lighting and Ductbank Plan**
Shaker Heights, Ohio

Date	November 17, 2004
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Sheet
E-1



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Street Plans
Chagrin / Lee Neighborhood
Lee Road Streetscape
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Street Plan - Section B
 Scale 1" = 8'-0"

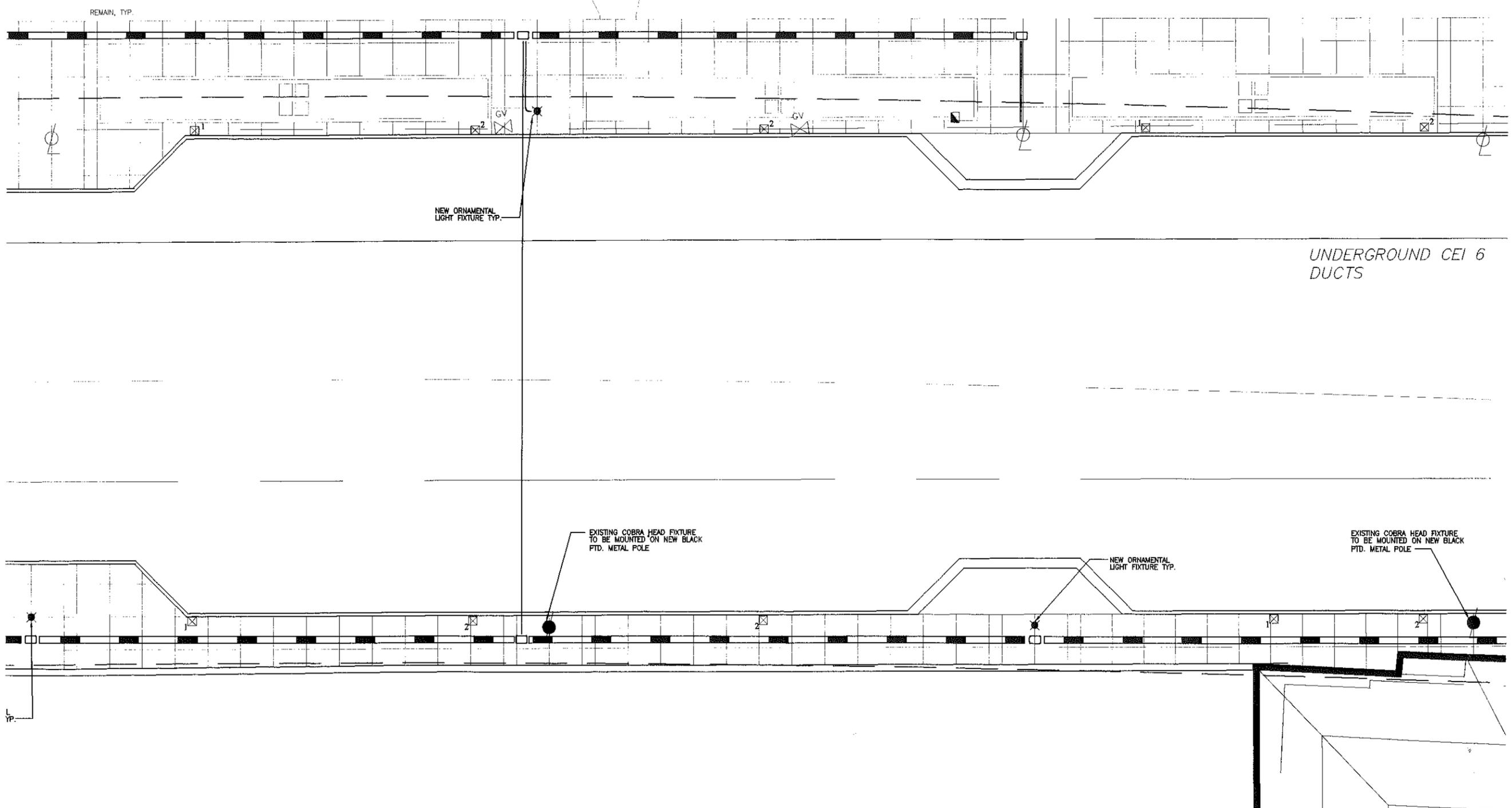
NOTE:
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2 WORKING DAYS
 BEFORE YOU DIG



SCALE: 1"=8'-0"

Sheet
E-2



Street Plan - Section C

Scale 1" = 8'-0"

NOTE:
CONTRACTOR TO VERIFY CONDITIONS AND
DIMENSIONS IN THE FIELD AND NOTIFY THE OWNER



2 WORKING DAYS
BEFORE YOU DIG



SCALE: 1"=8'-0"



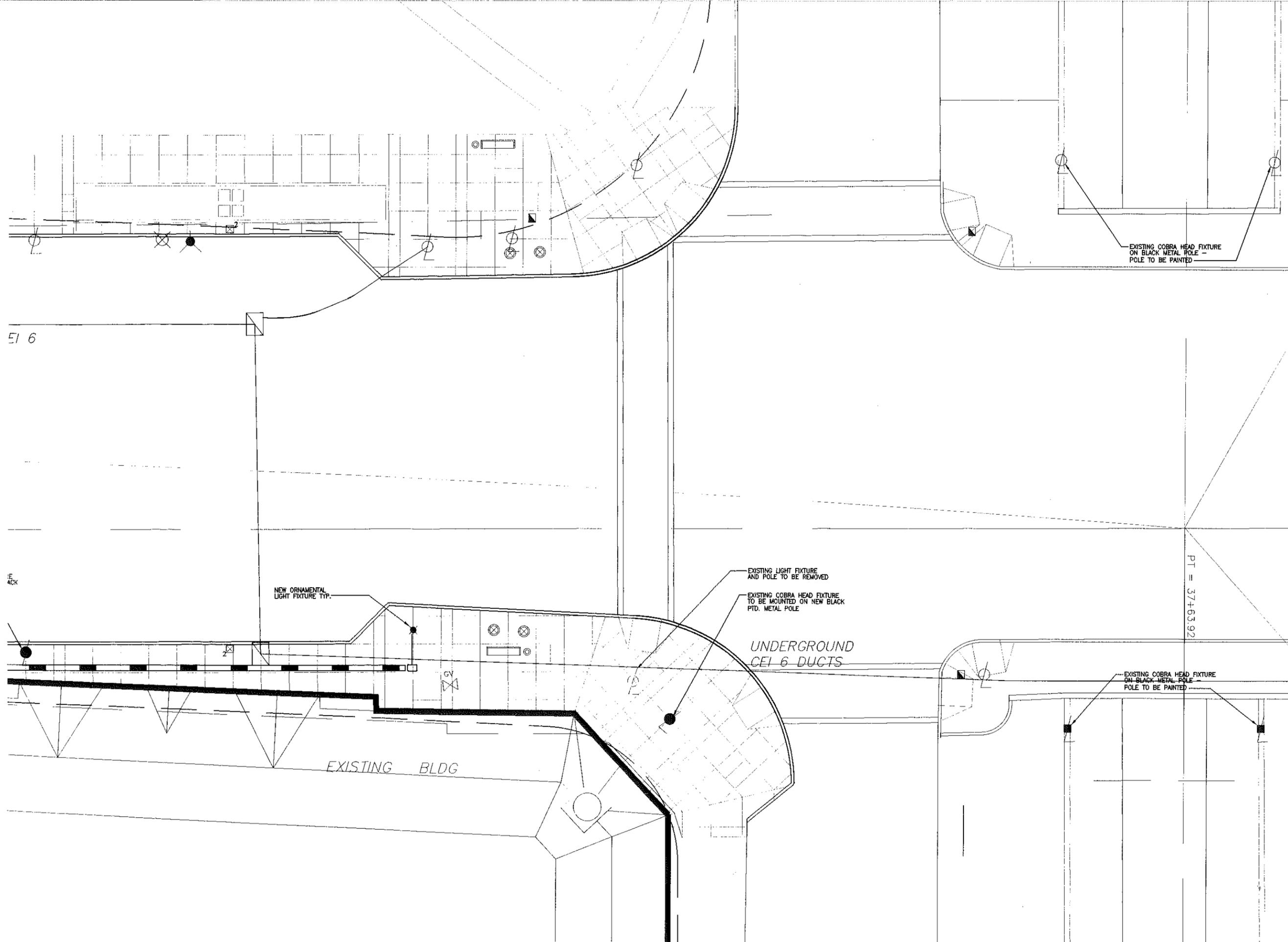
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Street Plans
Chagrin / Lee Neighborhood
Lee Road Streetscape
Lighting and Ductbank Plan
Shaker Heights, Ohio

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E-3



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Street Plans
Chagrin / Lee Neighborhood
Lee Road Streetscape
Lighting and Ductbank Plan
 Shaker Heights, Ohio

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November 24, 2004

Sheet
E-4

Street Plan - Section D

Scale 1" = 8'-0"

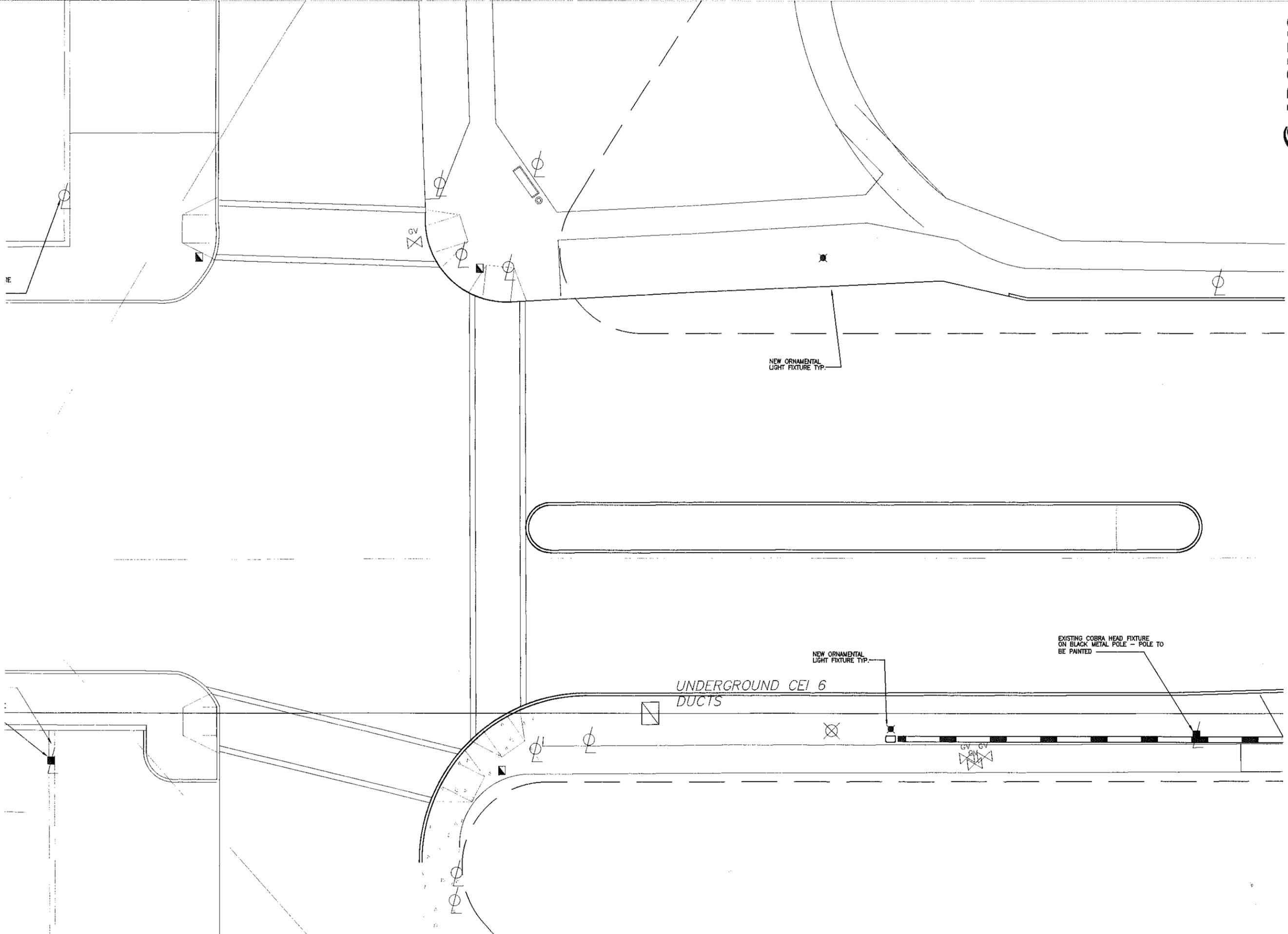
NOTE:
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2 WORKING DAYS BEFORE YOU DIG



SCALE: 1"=8'-0"





Street Plan - Section E

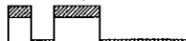
Scale 1" = 8'-0"

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SCALE: 1"=8'-0"



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Street Plans
Chagrin / Lee Neighborhood
Lee Road Streetscape
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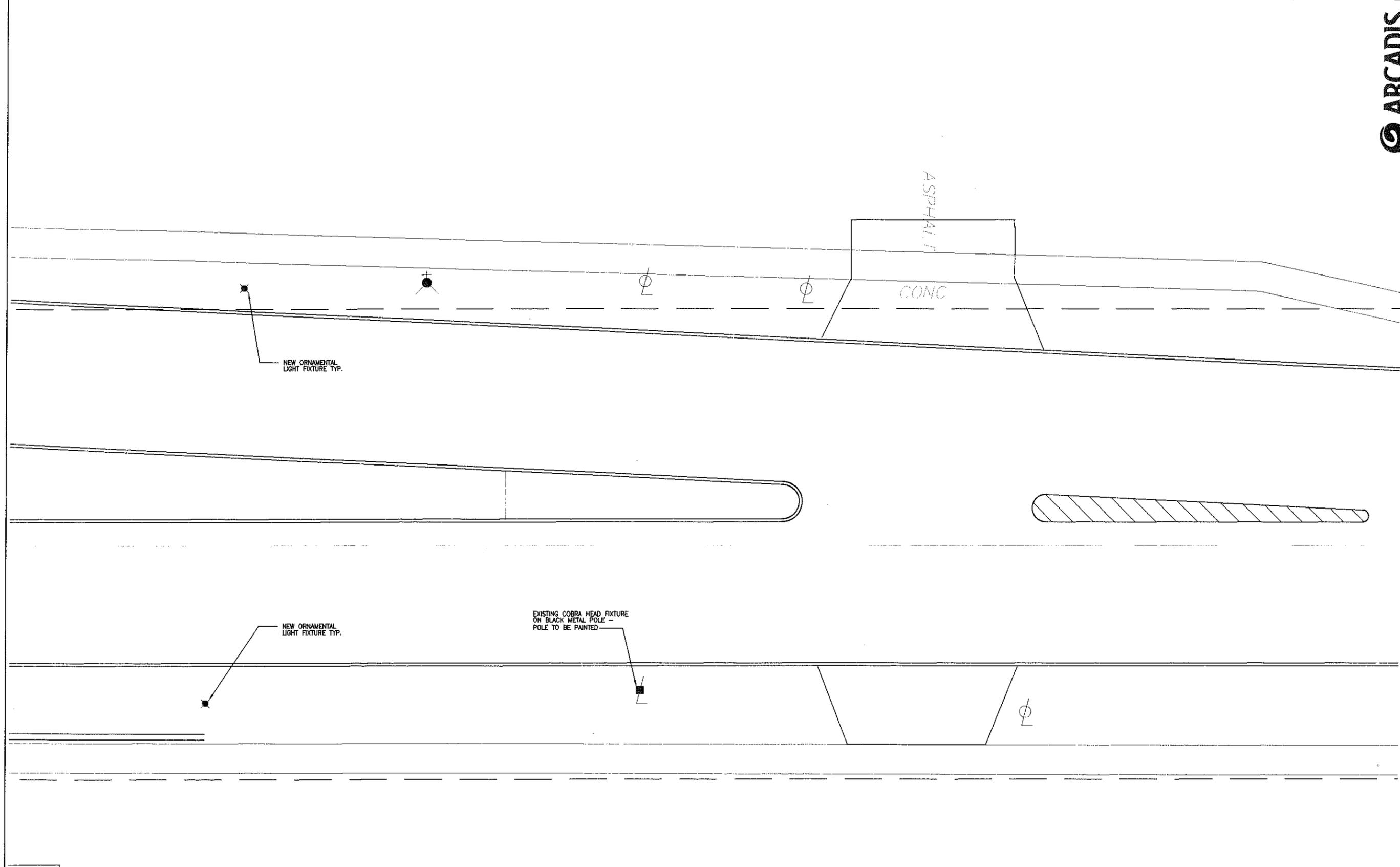
Date November 17, 2004

Revision
November 24, 2004

Sheet
E-5

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Street Plans
**Chagrin / Lee Neighborhood
 Lee Road Streetscape
 Lighting and Ductbank Plan**
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