

CITY OF MENTOR-ON-THE-LAKE

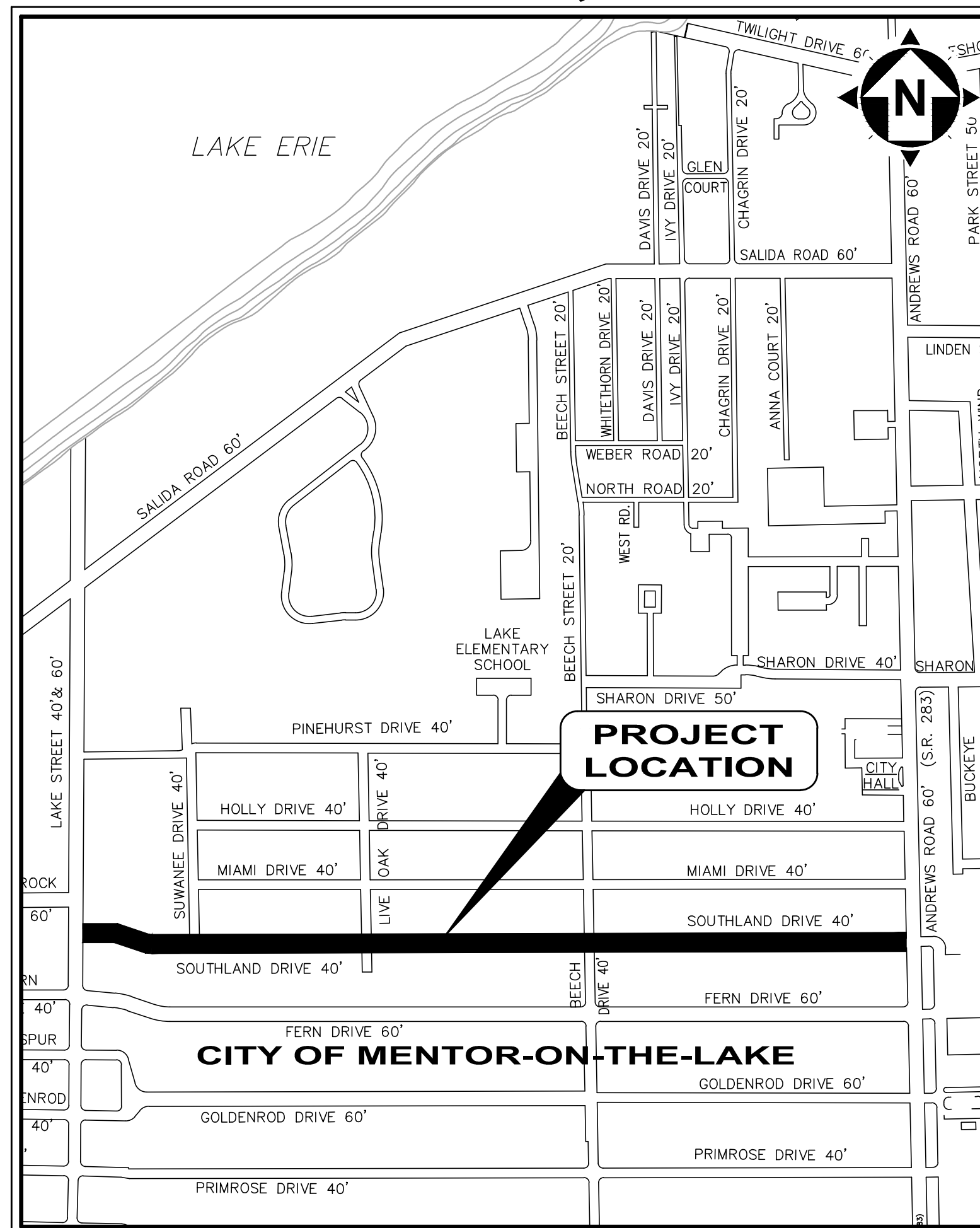
SOUTHLAND ROAD DRAINAGE SYSTEM IMPROVEMENTS

LAKE COUNTY, OHIO

OPWC PROJECT No. CG31AB / CG32AB

OCTOBER, 2024

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LOCATION MAP
NOT TO SCALE

ADMINISTRATION:

DAVID EWA.....MAYOR
 JACLYN MARTIN.....ADMINISTRATIVE DIRECTOR
 JIM TUROSKY.....SERVICE DEPARTMENT
 JAMES M. LYONS.....LAW DIRECTOR
 TIM LANNON.....CITY ENGINEER

CITY COUNCIL:

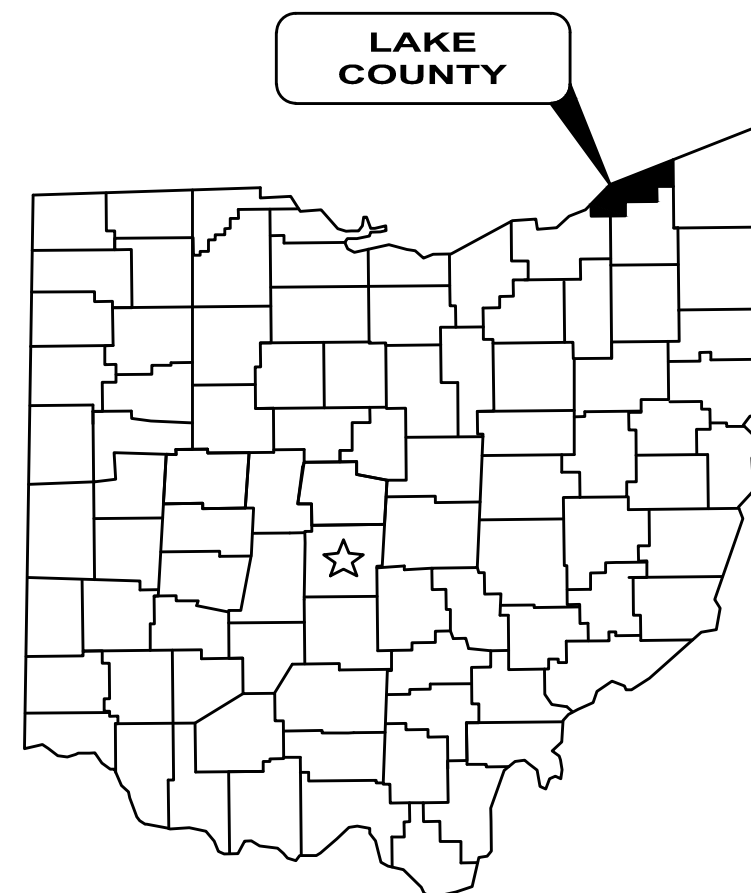
DESIREA THOMPSON, COUNCIL VICE PRESIDENT, WARD 4
 JIM LUNDER, COUNCIL-AT-LARGE
 VIRGINIA JEANNIE WONG, WARD 1
 SKIP GRAY, WARD 2
 ROBERT JOHNSON, WARD 3
 MICHELLE MOORE, COUNCIL-AT-LARGE
 KEVIN BITTNER, COUNCIL-AT-LARGE
 TAYLOR CONNER, COUNCIL CLERK



1-800-362-2764

CALL TWO WORKING DAYS BEFORE YOU DIG
(NON MEMBERS MUST BE CALLED DIRECTLY)

- OUPS confirmation for Ticket B127701290-00B
- OUPS confirmation for Ticket B127701341-00B
- OUPS confirmation for Ticket B127701355-00B
- OUPS confirmation for Ticket B127701370-00B
- OUPS confirmation for Ticket B127701407-00B
- OUPS confirmation for Ticket B128101960-00B

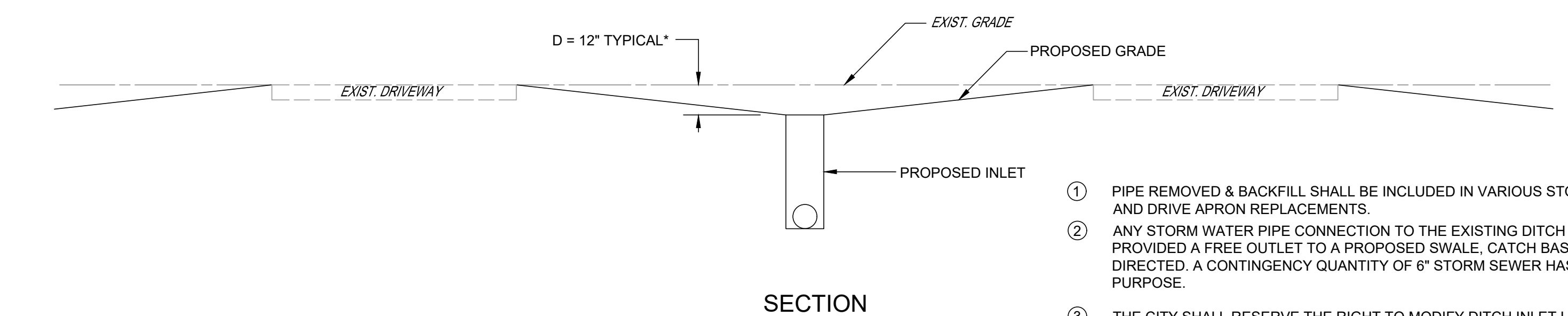
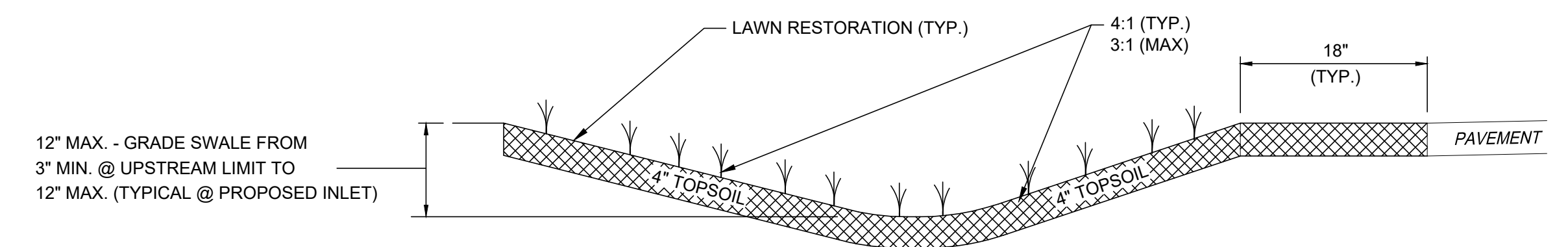
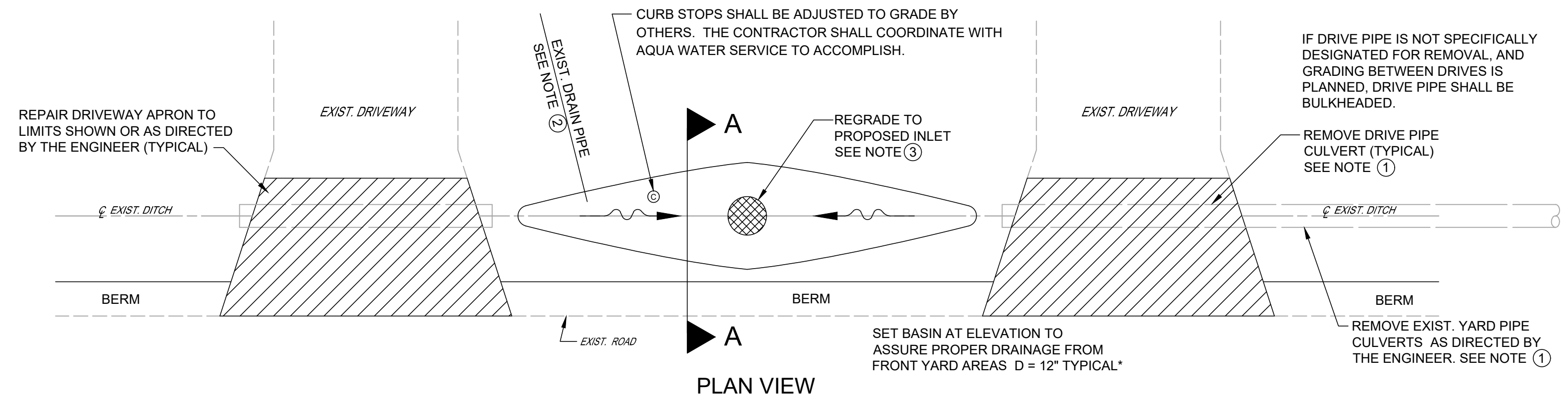


1. THE SURVEY SHOWN ON THESE PLANS WAS OBSERVED IN THE FIELD FOR CONSTRUCTION PURPOSES ONLY AND MAY NOT BE SUITABLE FOR PROPERTY LINE SURVEYS OR ANY OTHER PURPOSE.
 2. UNDERGROUND BUILDING SERVICE UTILITY LINES ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, MAINTAINING AND REPLACING AS NECESSARY TO ENSURE CONTINUAL SERVICE TO BUILDINGS.
 3. THE CONTRACTOR IS RESPONSIBLE TO CALL OHIO UTILITIES PROTECTION SERVICE @ 1-800-362-2764, THREE WORKING DAYS PRIOR TO CONSTRUCTION.



Tim

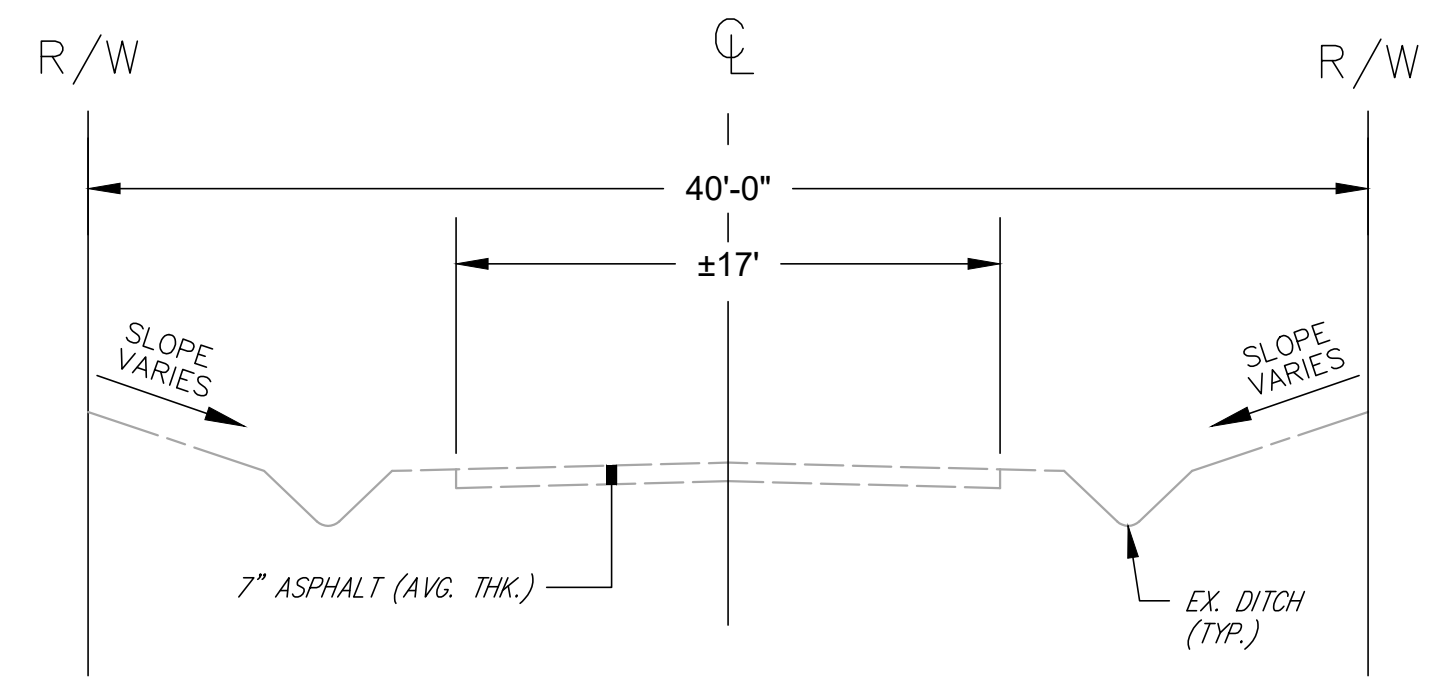




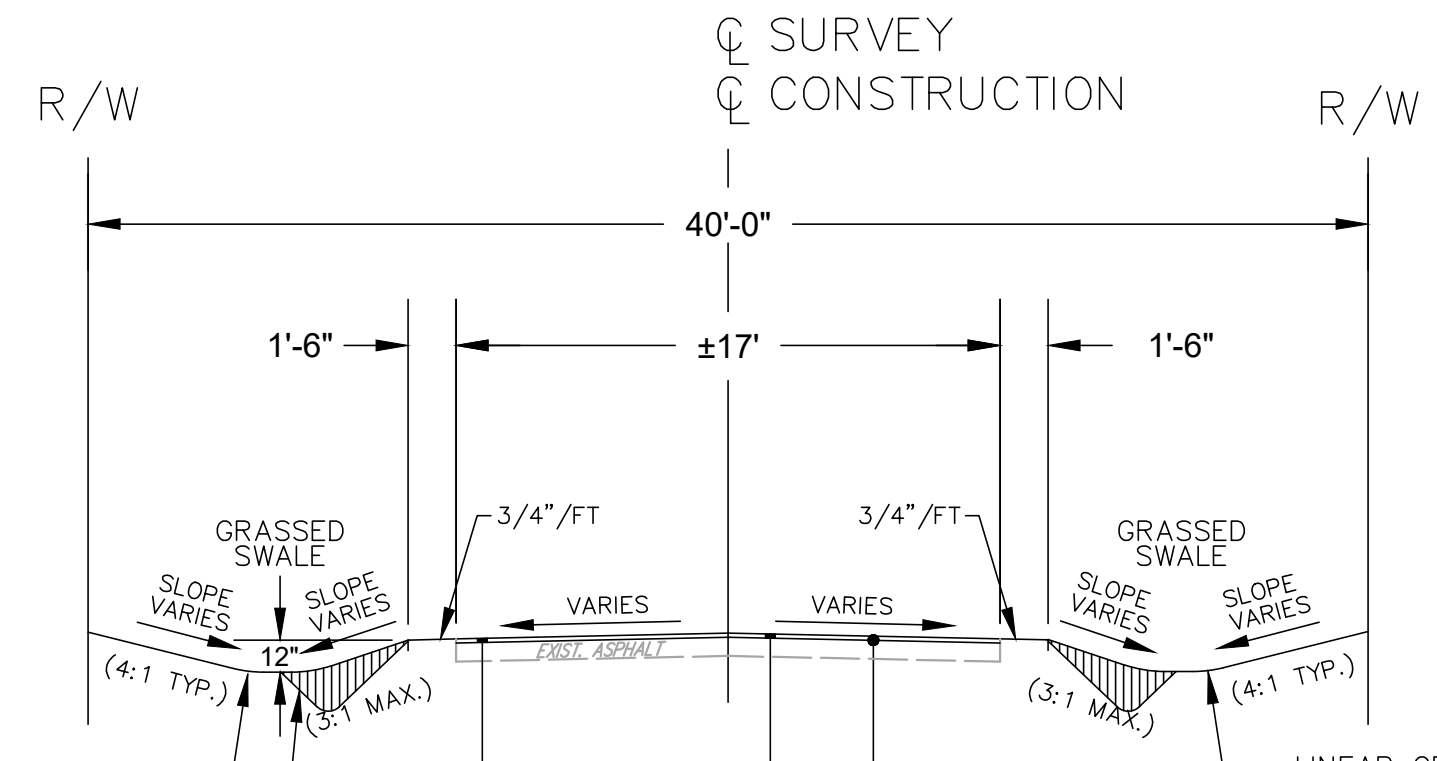
LINEAR GRADING DETAILS
N.T.S.

- ① PIPE REMOVED & BACKFILL SHALL BE INCLUDED IN VARIOUS STORM SEWER INSTALLATION AND DRIVE APRON REPLACEMENTS.
- ② ANY STORM WATER PIPE CONNECTION TO THE EXISTING DITCH OR PIPES SHALL BE PROVIDED A FREE OUTLET TO A PROPOSED SWALE, CATCH BASIN OR STORM SEWER AS DIRECTED. A CONTINGENCY QUANTITY OF 6" STORM SEWER HAS BEEN PROVIDED FOR THIS PURPOSE.
- ③ THE CITY SHALL RESERVE THE RIGHT TO MODIFY DITCH INLET LOCATIONS AND ELEVATIONS AFTER INITIAL CONSTRUCTION LAYOUT STAKING IS COMPLETED.

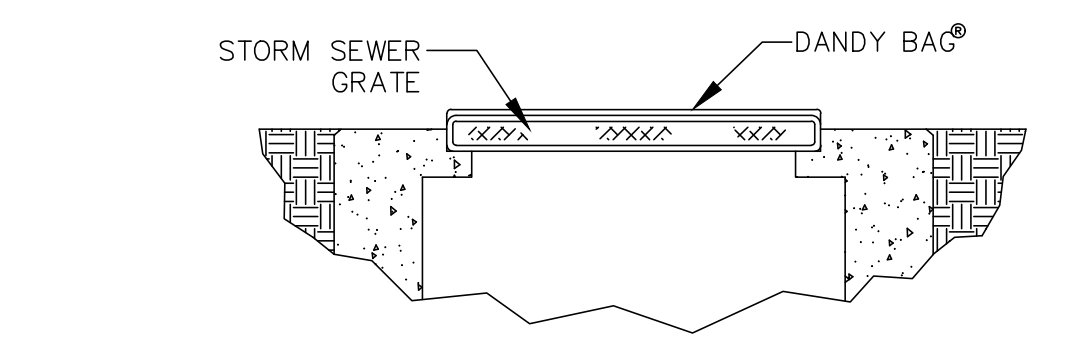
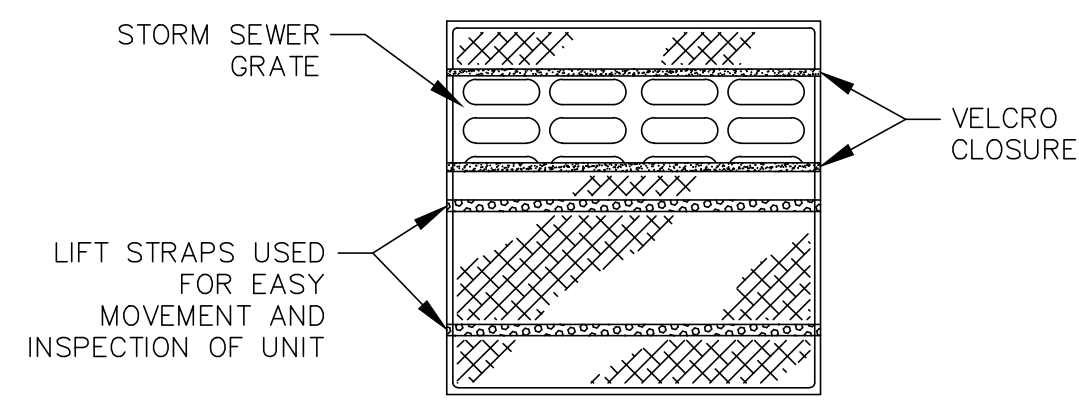
SECTION A-A GRASSED SWALE
N.T.S.



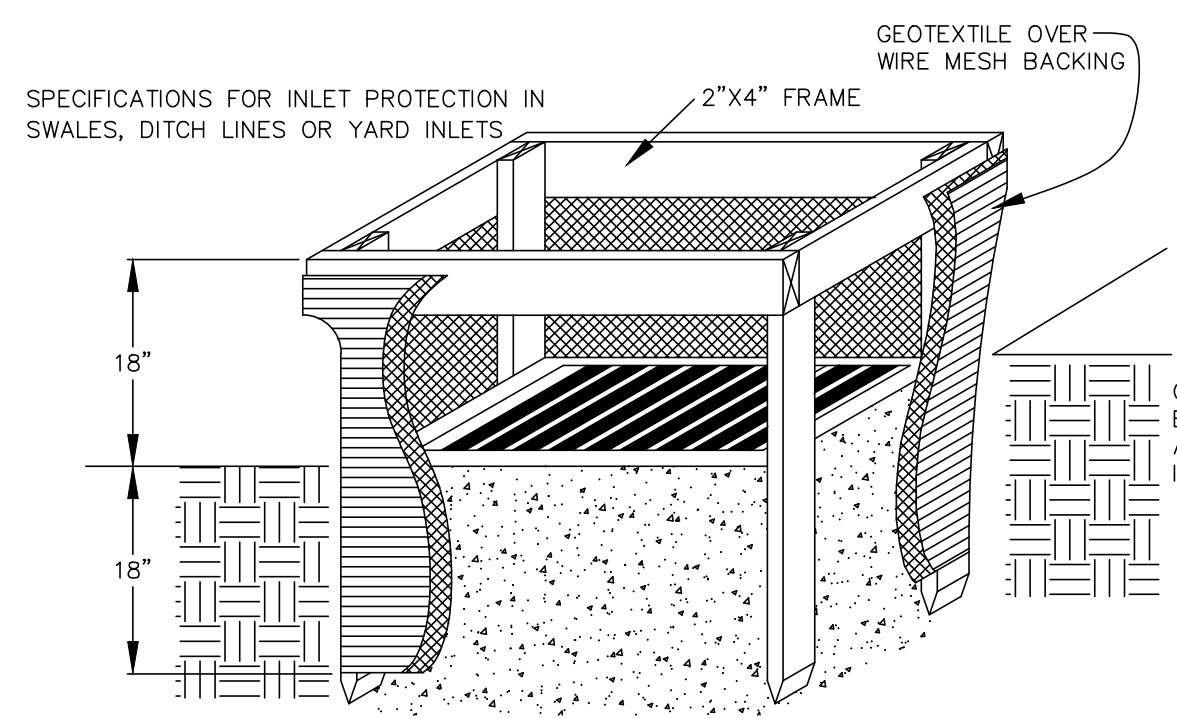
EXISTING



PROPOSED



DANDY BAG (INLET PROTECTION ALTERNATE)



- SPECIFICATIONS FOR INLET PROTECTION IN SWALES, DITCH LINES OR YARD INLETS
- INLET PROTECTION SHALL BE CONSTRUCTED EITHER BEFORE UPSLOPE LAND DISTURBANCE BEGINS OR BEFORE THE STORM DRAIN BECOMES OPERATIONAL.
 - THE EARTH AROUND THE INLET SHALL BE EXCAVATED COMPLETELY TO A DEPTH OF AT LEAST 18 INCHES.
 - THE WOODEN FRAME SHALL BE CONSTRUCTED OF 2-BY-4-INCH CONSTRUCTION-GRADE LUMBER. THE 2-BY-4-INCH POSTS SHALL BE DRIVEN 1 FOOT INTO THE GROUND AT FOUR CORNERS OF THE INLET AND THE TOP PORTION OF 2-BY-4-INCH FRAME ASSEMBLED USING THE OVERLAP JOINT SHOWN. THE TOP OF THE FRAME SHALL BE AT LEAST 6 INCHES BELOW ADJACENT ROADS IF PONDED WATER WOULD POSE A SAFETY HAZARD TO TRAFFIC.
 - WIRE MESH SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT FABRIC WITH WATER FULLY IMPOUNDED AGAINST IT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY TO THE FRAME.
 - GEOTEXTILE SHALL HAVE AN EQUIVALENT OPENING SIZE OF 20-40 SIEVE AND BE RESISTANT TO SUNLIGHT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY. IT SHALL EXTEND FROM THE TOP OF THE FRAME TO 18 INCHES BELOW THE INLET NOTCH ELEVATION. THE GEOTEXTILE SHALL OVERLAP ACROSS ONE SIDE OF THE INLET SO THE ENDS OF THE CLOTH ARE NOT FASTENED TO THE SAME POST.
 - BACKFILL SHALL BE PLACED AROUND THE INLET IN COMPACTED 6 INCH LAYERS UNTIL THE EARTH IS EVEN WITH NOTCH ELEVATION ON ENDS AND TOP ELEVATION ON SIDES.
 - A COMPACTED EARTH DIKE OR A CHECK DAM SHALL BE CONSTRUCTED IN THE DITCH LINE BELOW THE INLET IF THE INLET IS NOT IN A DEPRESSION AND IF RUNOFF BYPASSING THE INLET WILL NOT FLOW TO A SETTLING POND. THE TOP OF EARTH DIKES SHALL BE AT LEAST 6 INCHES HIGHER THAN THE TOP OF THE FRAME.

INLET PROTECTION

INCLUDE PLACING FILL IN EXISTING DITCH AS REQUIRED TO MEET PROPOSED GRADE. (SEE LINEAR GRADING DETAILS)

ODOT ITEM 254 - PAVEMENT PLANING, 1 1/2" DEPTH

ODOT ITEM 407 - TACK COAT @ 0.1 GAL./S.Y.
ODOT ITEM 448 - 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG. 64-22, AS PER PLAN



NO	REVISION	DATE

CITY OF MENTOR-ON-THE-LAKE

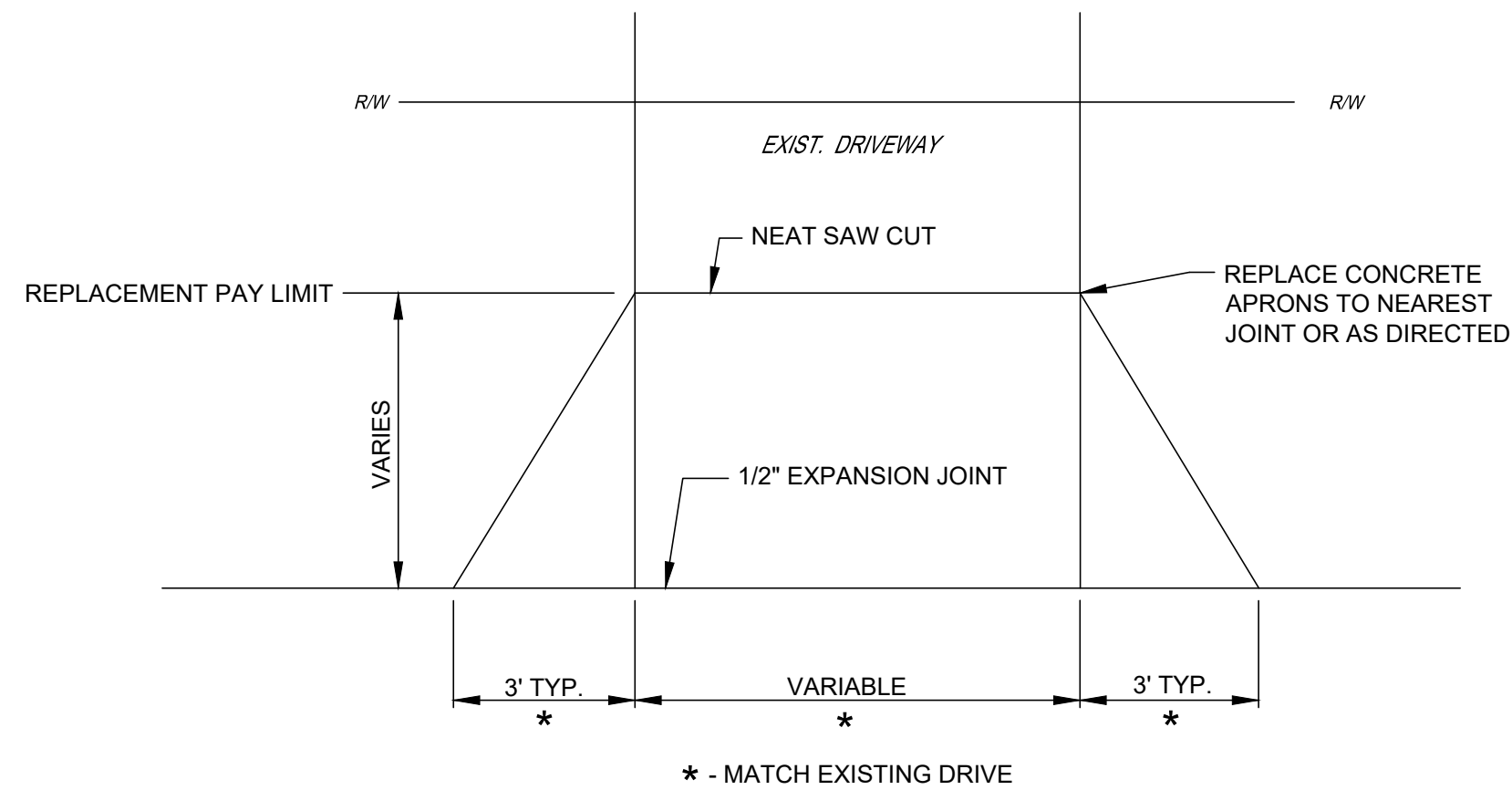
SOUTHLAND ROAD DRAINAGE SYSTEM IMPROVEMENTS

LAKE COUNTY, OHIO

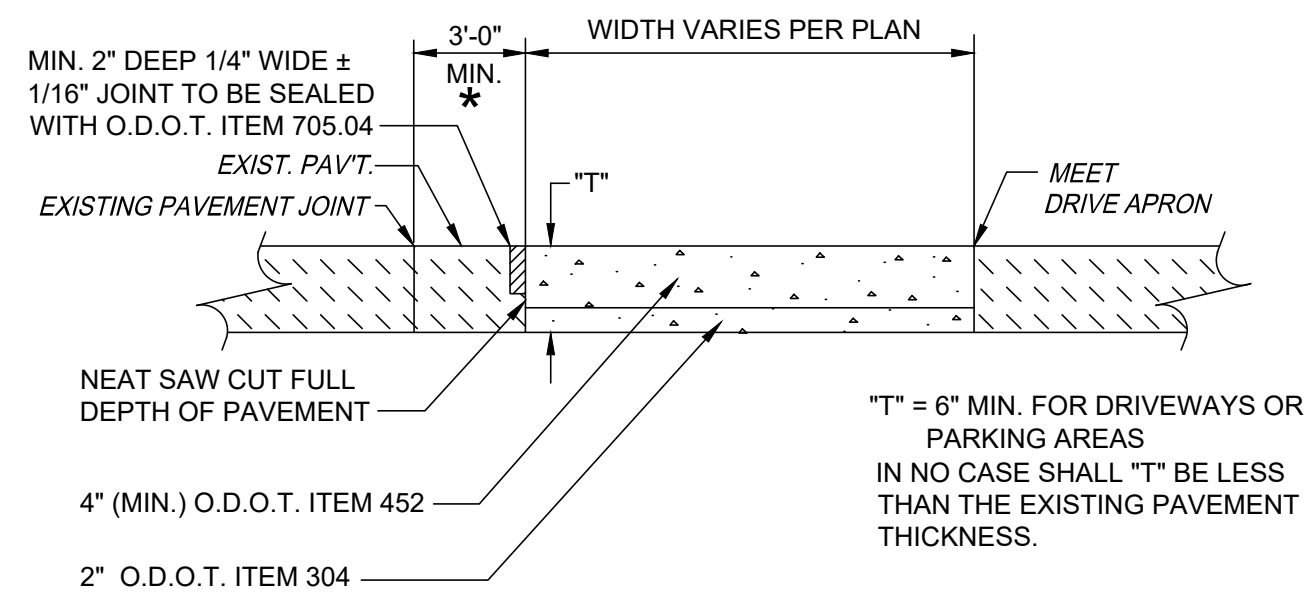
ISSUED FOR:	REVIEW
ISSUE DATE:	10/11/2024
SCALE:	AS SHOWN
DESIGNED BY:	JPL/PAB
DRAWN BY:	GMS/PAB
CHECKED BY:	TRL

DETAILS

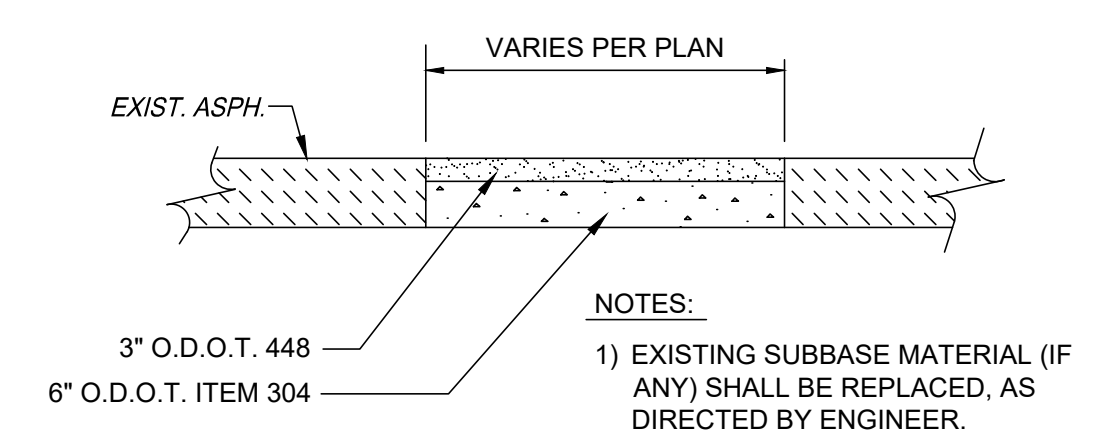
PROJECT NO.	210645
DISCIPLINE	CIVIL
SHEET NAME	D-1
SHEET	02
OF	14



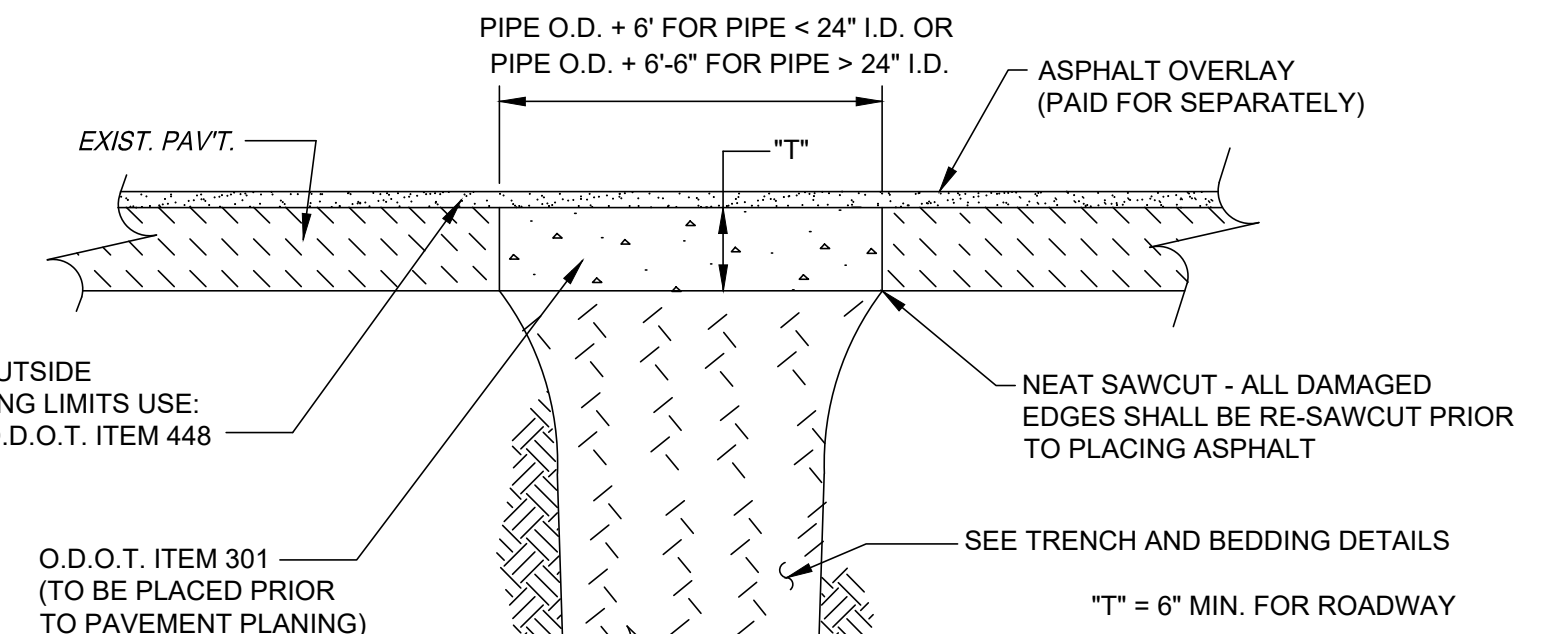
DRIVEWAY APPROACH DETAIL



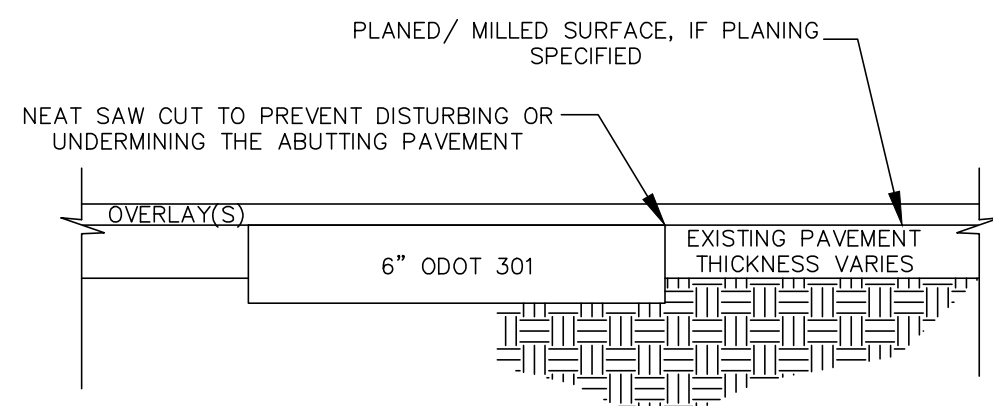
TYPE \"A\" (CONCRETE) DRIVE APRON



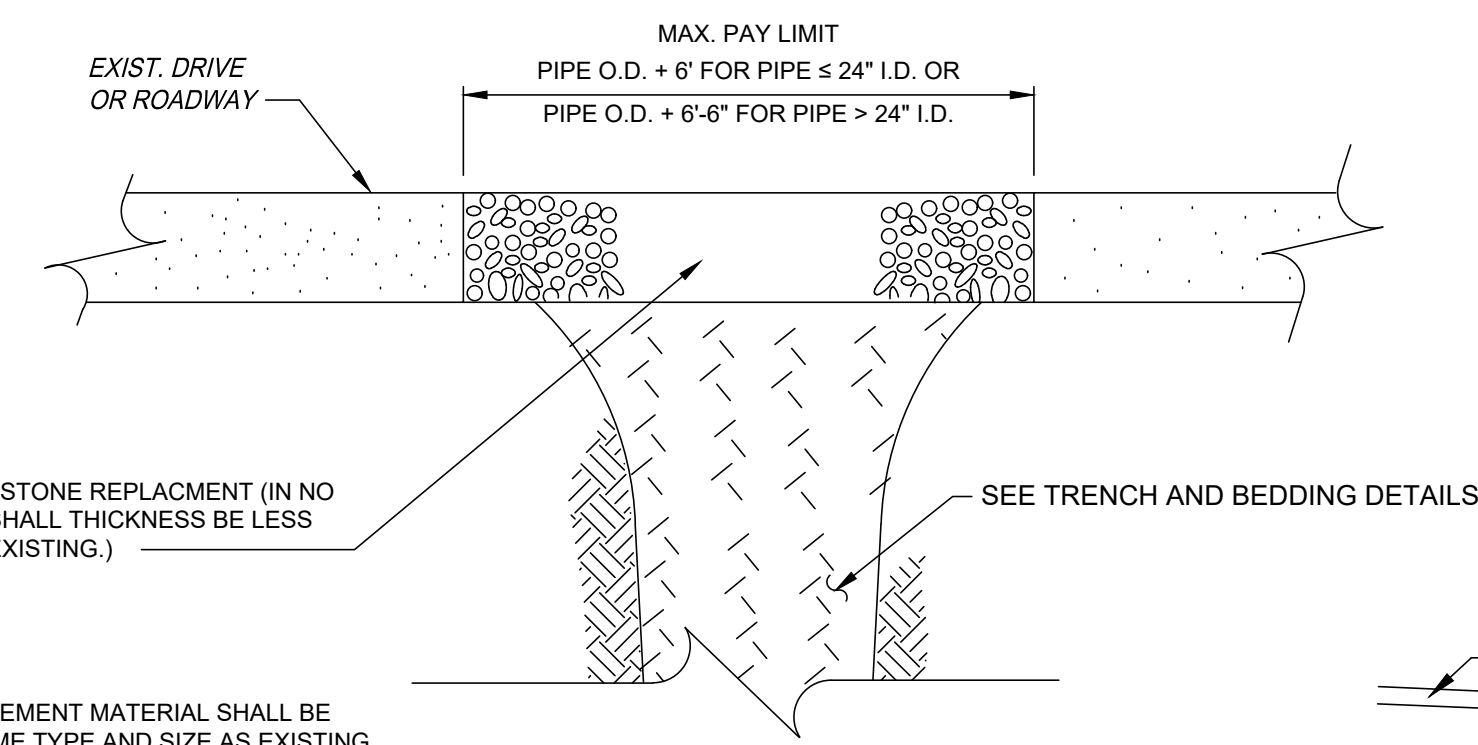
TYPE \"C\" (ASPHALT) DRIVE REPLACEMENT



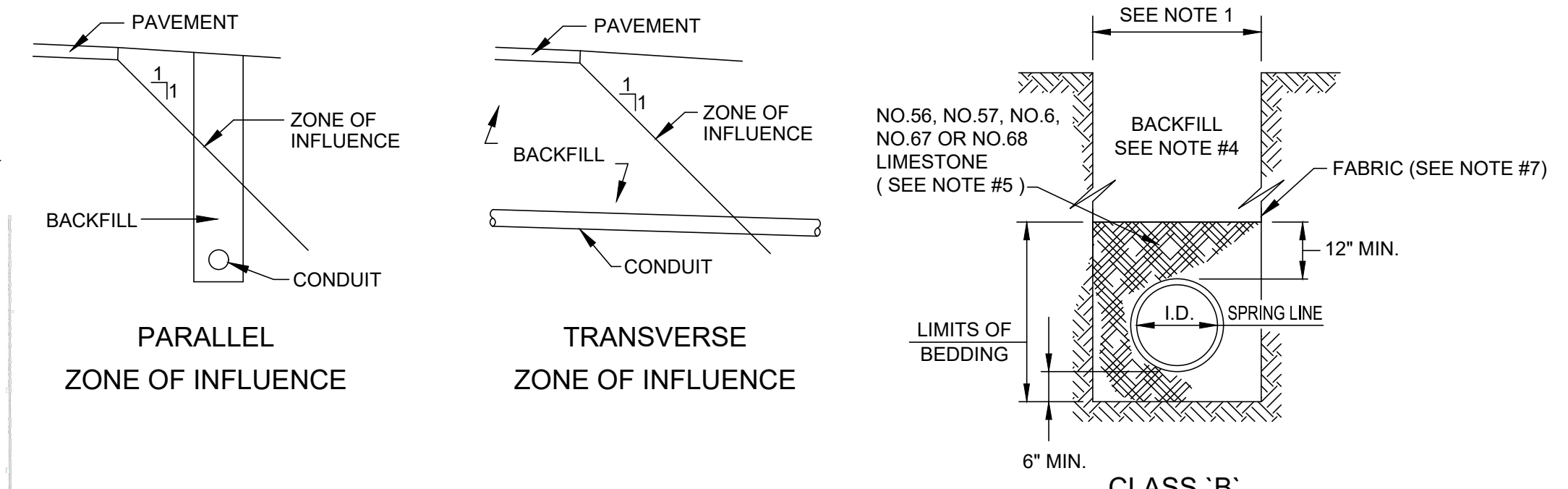
TYPE \"C\" (ASPHALT) PAVEMENT REPLACEMENT / TRENCH REPAIR



PAVEMENT REPAIR DETAIL



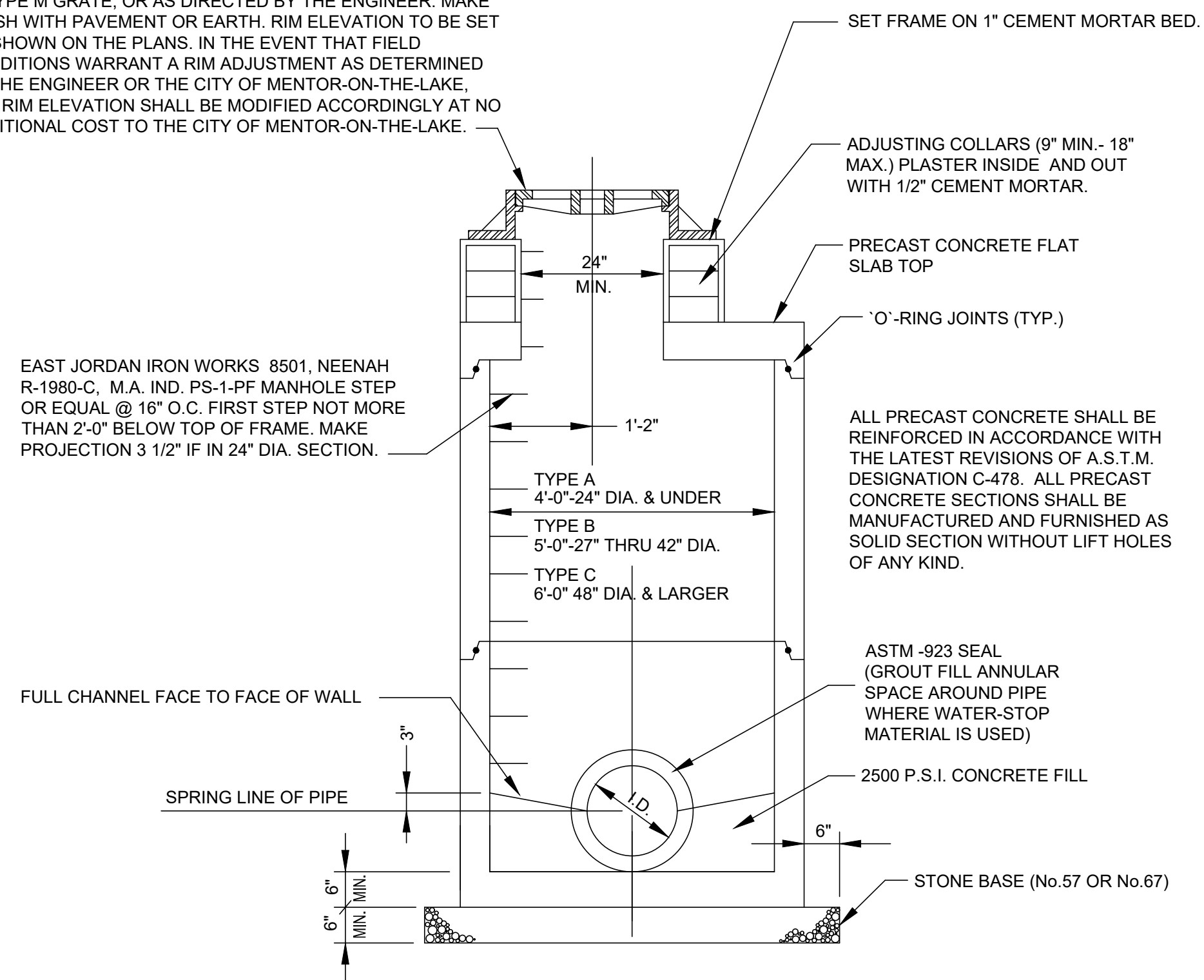
TYPE \"F\" (STONE) DRIVE REPLACEMENT



- NOTES:**
- MAXIMUM TRENCH AT TOP OF PIPE SHALL BE O.D.+24\"/>
 - ALL TRENCH EXCAVATION SHALL CONFORM TO THE RULES AND REGULATIONS OF THE OHIO STATE INDUSTRIAL COMMISSION (OSIC) AND THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA).
 - a) PIPE BACKFILL UNDER EXISTING OR PROPOSED PAVEMENT, STRUCTURES OR WITHIN A 1:1 ZONE OF INFLUENCE PARALLEL OR TRANSVERSE TO EXISTING OR PROPOSED PAVEMENT AND STRUCTURES SHALL BE NO. 57 OR NO. 67 STONE TO 12\"/>
 - IN AREAS OUTSIDE PAVEMENT, STRUCTURES OR THE 1:1 ZONE OF INFLUENCE, SELECT FRIABLE ON-SITE MATERIAL APPROVED BY THE ENGINEER MAY BE USED FOR R.C.P. AND D.I.P.; NO. 57 OR NO. 67 STONE SHALL BE USED FOR V.C.P. AND THERMOPLASTIC PIPE TO 12\"/>
 - ALL BACKFILL SHALL BE TAMPED WITH MACHINE MOUNTED TAMPING EQUIPMENT. NO FLOODING, JETTING OR PUDDLING OF BACKFILL WILL BE PERMITTED.
 - SLAG BEDDING SHALL NOT BE USED.
 - GEOTEXTILE FABRIC: INSTALL A GEOTEXTILE FABRIC IN ACCORDANCE WITH ODOT 712.09, TYPE A, AFTER ALL INITIAL BACKFILL CONSISTING OF AASHTO NO. 57 OR NO. 67 GRANULAR PIPE EMBENMENT.

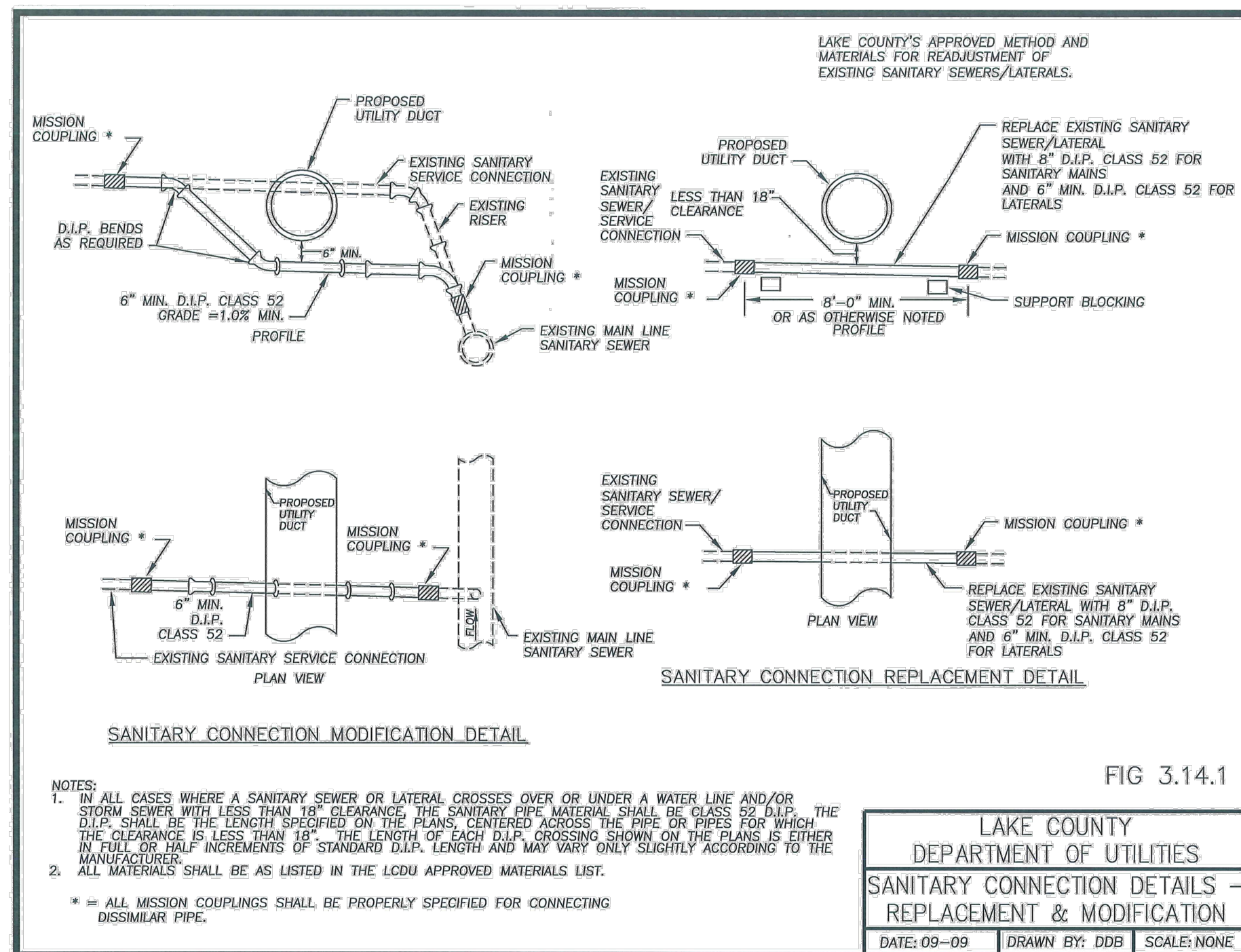
TRENCH & BEDDING DETAILS

EAST JORDAN IRON WORKS 1710 FRAME OR APPROVED EQUAL W/TYPE M GRATE, OR AS DIRECTED BY THE ENGINEER. MAKE FLUSH WITH PAVEMENT OR EARTH. RIM ELEVATION TO BE SET AS SHOWN ON THE PLANS. IN THE EVENT THAT FIELD CONDITIONS WARRANT A RIM ADJUSTMENT AS DETERMINED BY THE ENGINEER OR THE CITY OF MENTOR-ON-THE-LAKE, THE RIM ELEVATION SHALL BE MODIFIED ACCORDINGLY AT NO ADDITIONAL COST TO THE CITY OF MENTOR-ON-THE-LAKE.



STANDARD STORM MANHOLE

TYPE \"A\", TYPE \"B\" AND TYPE \"C\"



LAKE COUNTY DEPARTMENT OF UTILITIES
SANITARY CONNECTION DETAILS - REPLACEMENT & MODIFICATION
 DATE: 09-09 DRAWN BY: DDB SCALE: NONE



NO	REVISION	DATE

CITY OF MENTOR-ON-THE-LAKE

SOUTHLAND ROAD DRAINAGE SYSTEM IMPROVEMENTS

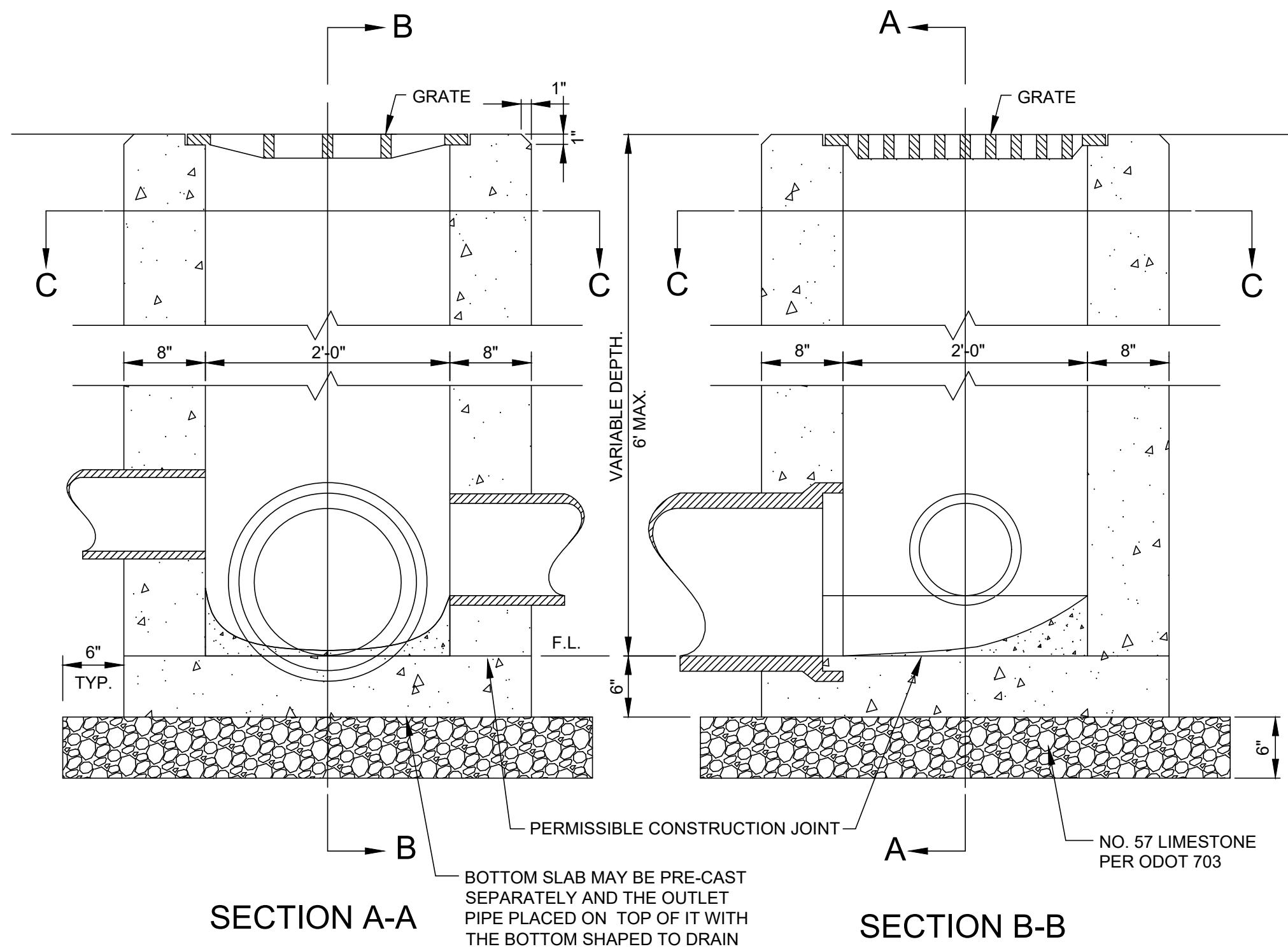
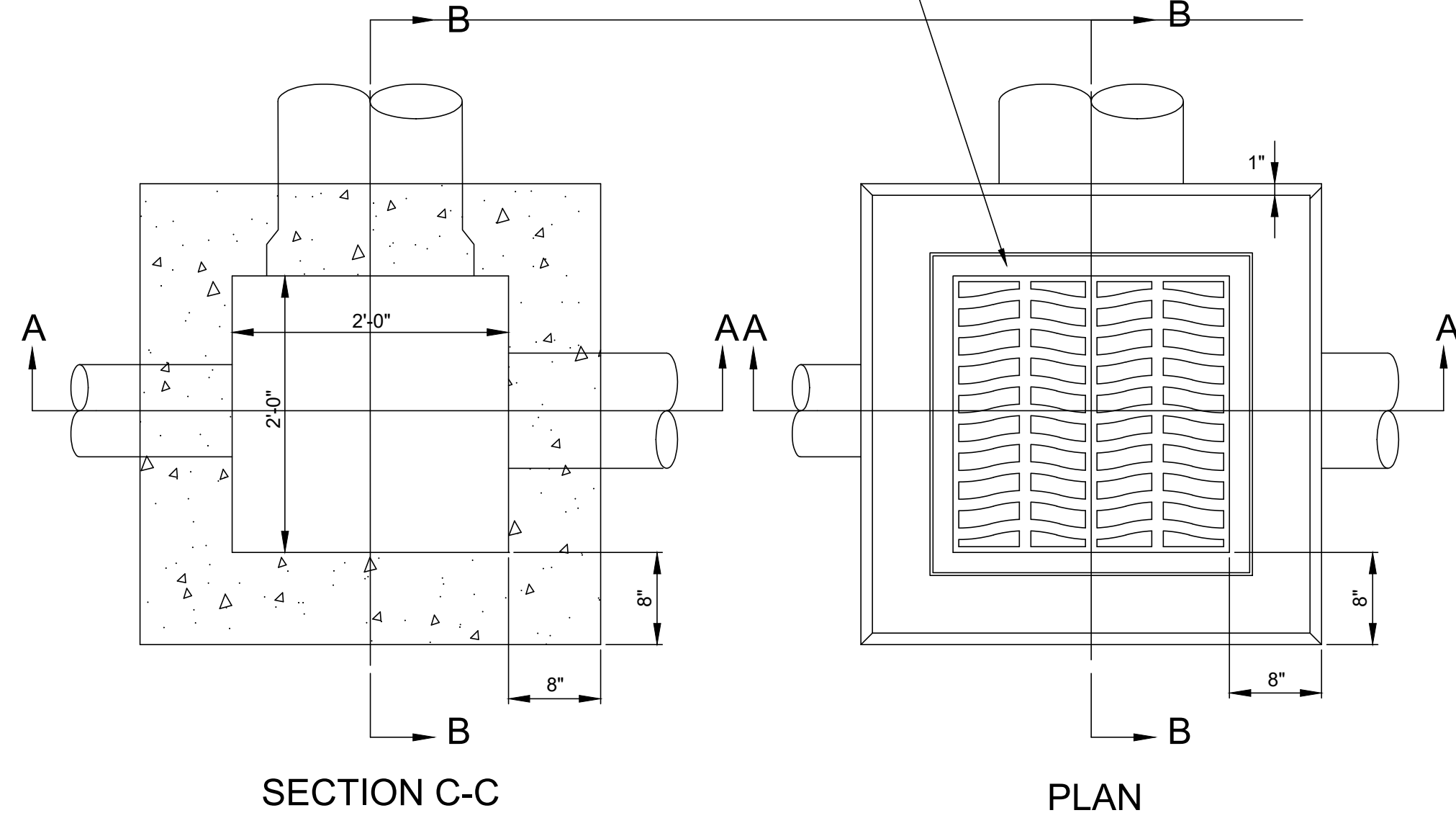
LAKE COUNTY, OHIO

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DRAWN BY:	GMS/PAB
CHECKED BY:	TRL

DETAILS

PROJECT NO.	210645
DISCIPLINE	CIVIL
SHEET NAME	D-2
SHEET	OF
03	14

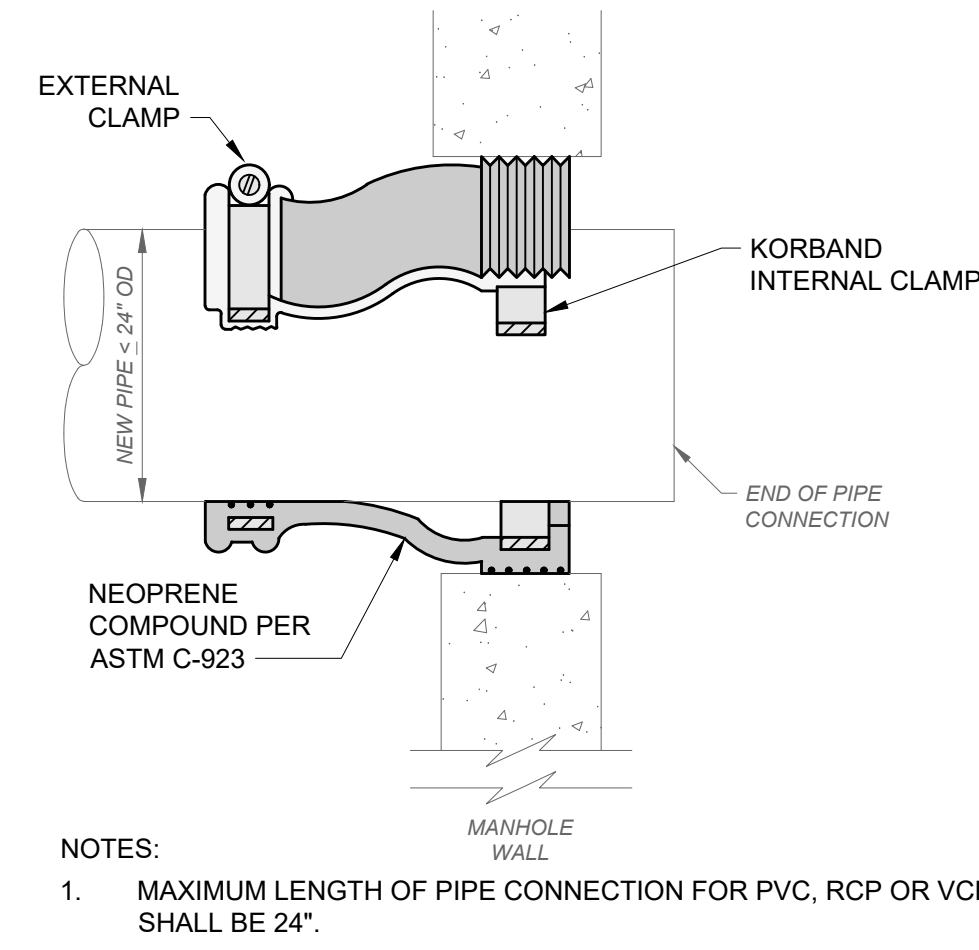
CASTING TYPE:
 1. NON-PAVED AREA: EAST JORDAN IRON WORKS 5110-TYPE
 M3 GRATE W/ CONCRETE FRAME PER ODOT 2-2-B CB



- NOTES:
1. ALL WORK SHALL CONFORM TO ODOT ITEM 604.
 2. ALL BRICK USED SHALL BE CLAY OR SHALE BRICK CONFORMING TO ODOT ITEM 704.01 (ASTM C32) UNLESS APPROVED IN WRITING BY THE ENGINEER.
 3. IF PRECAST UNITS ARE USED, THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL. PRECAST UNITS SHALL CONFORM TO ODOT ITEM 706.13
 4. ALL CONCRETE SHALL CONFORM TO ODOT ITEM 499, CLASS "QC1" (4000 psi) NO SLAG.
 5. THE ENTIRE EXCAVATED AREA AROUND THE BASIN SHALL BE BACKFILLED WITH NO. 57 LIMESTONE COMPACTED IN 8" LIFTS.
 6. PRECAST UNITS SHALL BE SET ON A 6" BASE OF NO. 57 LIMESTONE PER ODOT ITEM 703

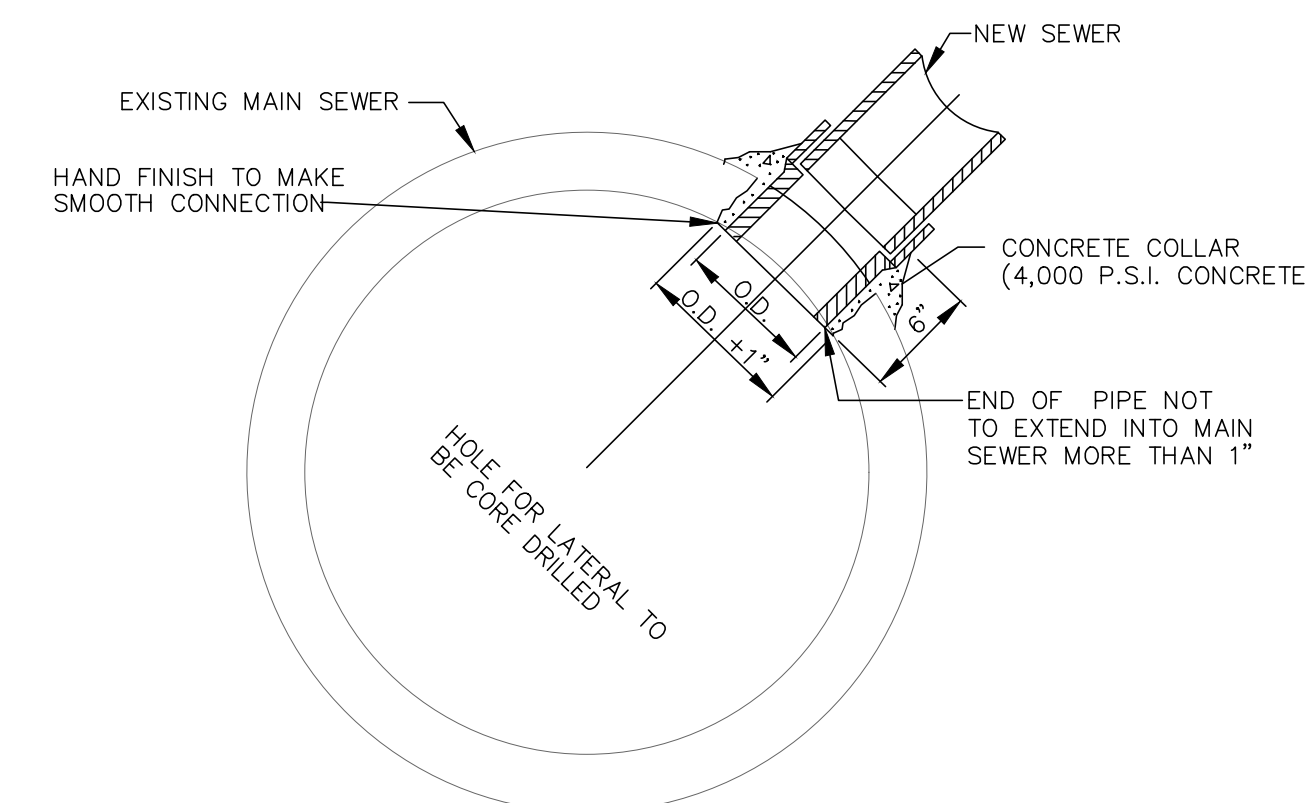
CATCH BASIN TYPE B (ODOT TYPE 2-2B)

N.T.S.
 CATCH BASINS SHALL HAVE ASTM-923 SEAL(S)



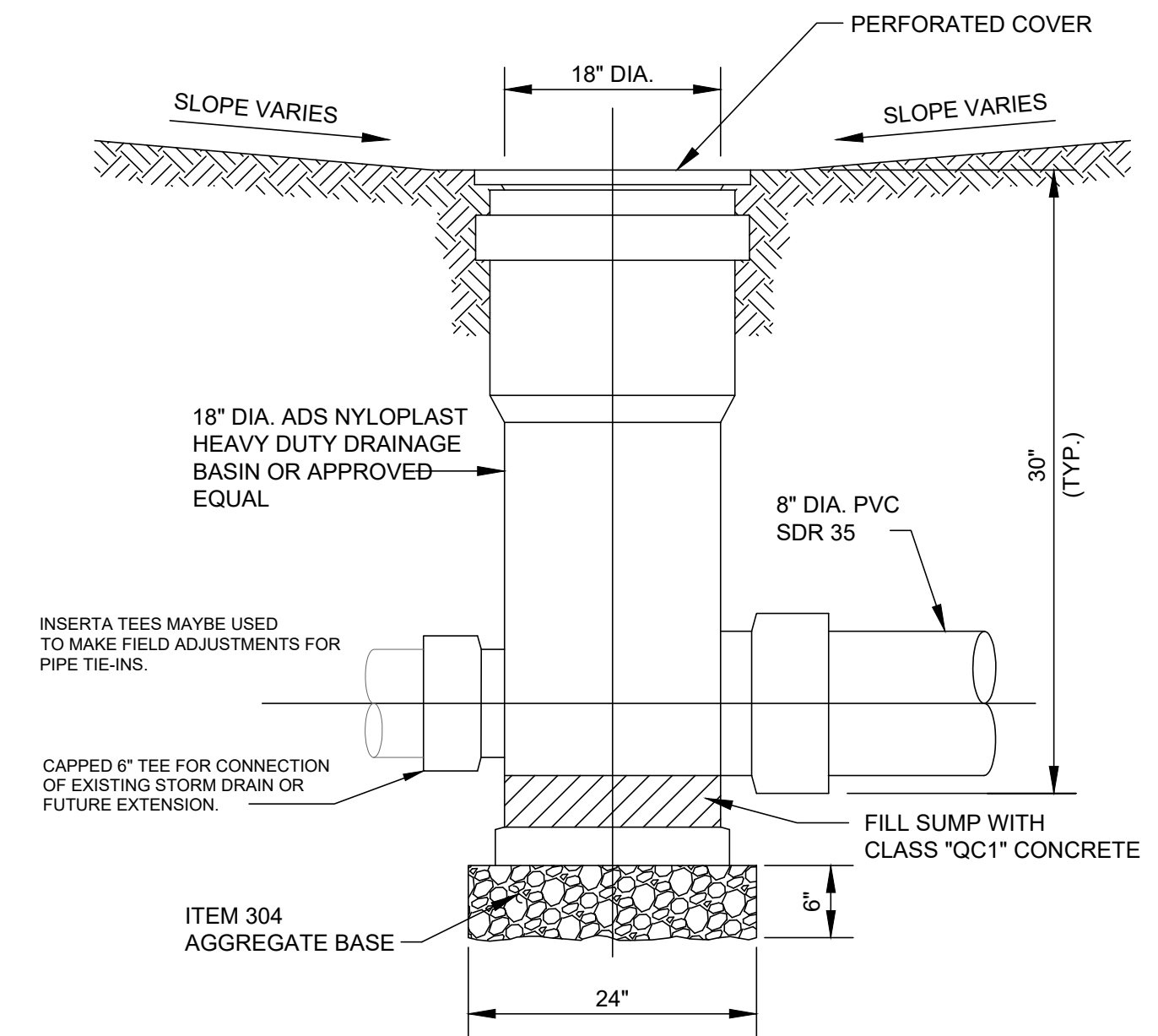
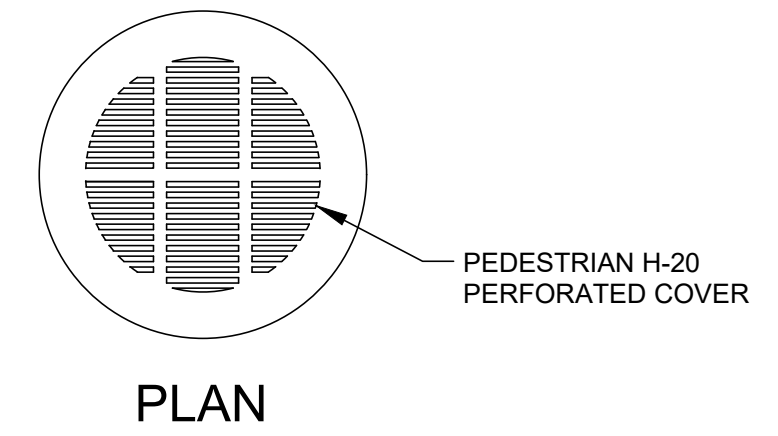
CONNECTION TO EXISTING DRAINAGE STRUCTURE DETAIL

SCALE: NONE

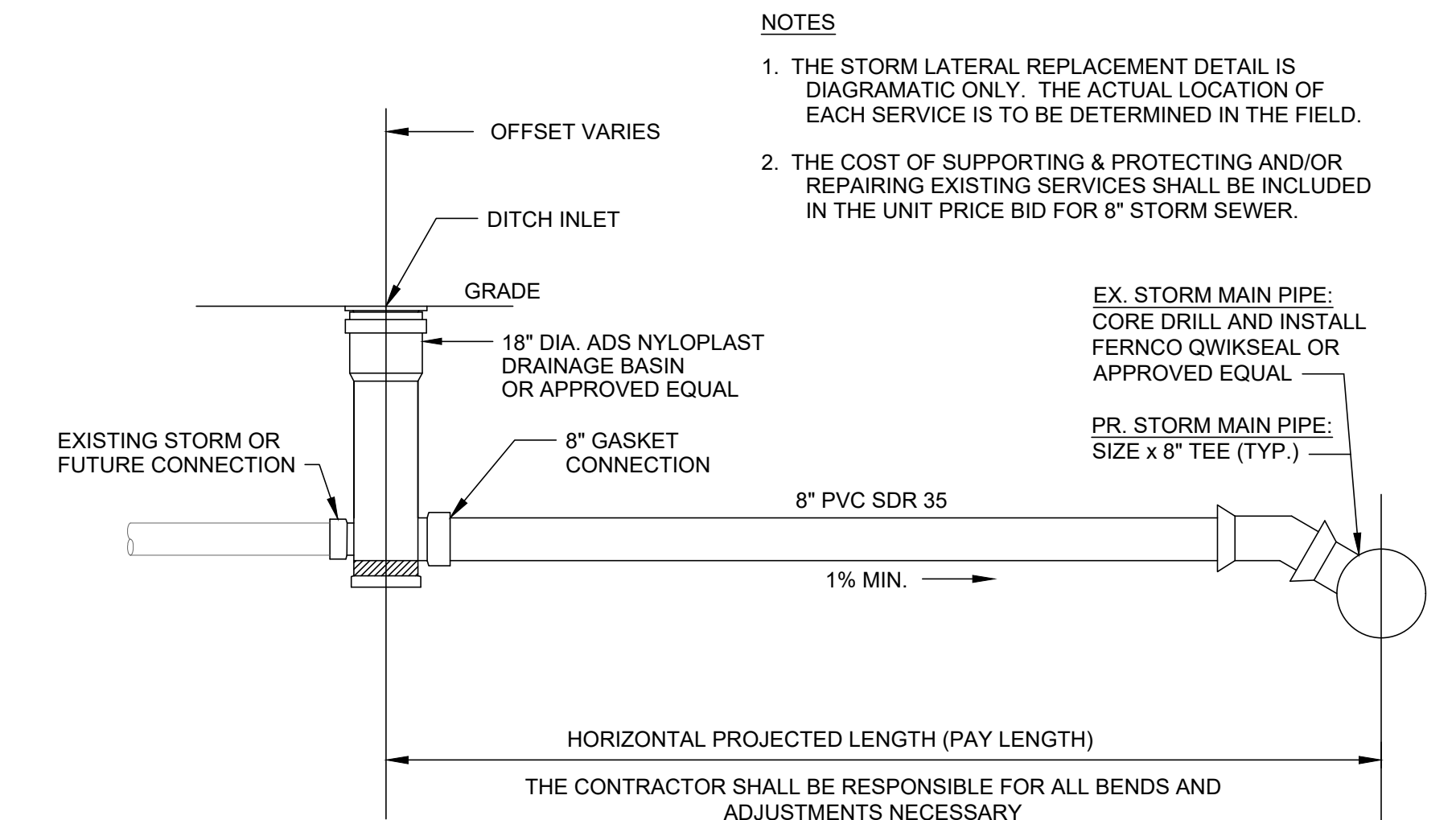


FIELD TEE CONNECTION

NOTE: FERNCO QWIKSEAL OR APPROVED EQUAL SHALL BE USED FOR 6" AND 8" PIPE CONNECTION TO EXISTING STORM SEWER MAINS.



SECTION DITCH INLET



STORM LATERAL CONNECTION



NO	REVISION	DATE

CITY OF MENTOR-ON-THE-LAKE

SOUTHLAND ROAD DRAINAGE SYSTEM IMPROVEMENTS

LAKE COUNTY, OHIO

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DRAWN BY:	GMS/PAB
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DETAILS

PROJECT NO.	210645
DISCIPLINE	CIVIL
SHEET NAME	D-3
SHEET	04
OF	14

ITEM 614 - MAINTAINING TRAFFIC

ONE WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES FOR LOCAL TRAFFIC AND EMERGENCY VEHICLES. LOCAL ACCESS TO ABUTTING PROPERTIES SHALL BE MAINTAINED AT ALL TIMES. ACCESS TO ALL DRIVEWAYS SHALL ALSO BE MAINTAINED AT ALL TIMES.

PART WIDTH CONSTRUCTION, ONE LANE WIDTH, SHALL BE USED DURING THE PERFORMANCE OF PAVING OPERATIONS.

ALL CONSTRUCTION TRAFFIC CONTROL DEVICES USED FOR THIS PROJECT SHALL CONFORM TO THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, HEREINAFTER REFERRED TO AS THE MANUAL, AND SHALL BE FURNISHED, ERECTED, MAINTAINED, RELOCATED AND REMOVED BY THE CONTRACTOR.

THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY SAFEGUARDS, SUCH AS BARRICADES, LIGHTING, FLAGGERS, PLASTIC DRUMS, FLASHING ARROW PANELS AND SUCH OTHER TRAFFIC CONTROL DEVICES AS PROVIDED IN ITEM 614, MAINTAINING TRAFFIC, SO AS TO AVOID DAMAGE AND/OR INJURY TO VEHICLES AND PERSONS USING THE ROADWAY DURING CONSTRUCTION. WHENEVER THE ENGINEER DEEMS IT NECESSARY, HE MAY DIRECT THAT ADDITIONAL OR ALTERNATIVE DEVICES BE USED. ALSO, THE CONTRACTOR SHALL PROVIDE SUFFICIENT ADDITIONAL BARRICADES, ETC. TO PROTECT THE FRESH PAVEMENT DURING THE CURING PERIOD FROM VEHICLES WHICH MAY DRIVE AROUND OR THROUGH THE TRAFFIC CONTROL.

TRAFFIC CONTROL DEVICES SHALL BE SET UP PRIOR TO THE START OF CONSTRUCTION AND SHALL BE PROPERLY MAINTAINED DURING THE TIME SUCH SPECIAL CONDITIONS EXIST. THEY SHALL REMAIN IN PLACE ONLY AS LONG AS THEY ARE NEEDED AND SHALL BE IMMEDIATELY REMOVED THEREAFTER. WHERE OPERATIONS ARE PERFORMED IN PHASES, THERE SHALL BE IN PLACE ONLY THOSE DEVICES THAT APPLY TO THE CONDITION PRESENT DURING THE PHASE-IN PROGRESS. ALL SIGNS WITH MESSAGES WHICH DO NOT APPLY DURING A CERTAIN PERIOD SHALL BE COVERED OR SET ASIDE OUT OF THE VIEW OF TRAFFIC. CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED IN ACCORDANCE WITH SECTION 641.10 OF THE OHIO SPECIFICATIONS BEFORE ANY SECTION OF ROADWAY IS MADE AVAILABLE TO USE BY TRAFFIC.

ALL PERMANENT AND TEMPORARY PAVEMENT MARKINGS ARE TO BE MAINTAINED THROUGHOUT THE PROJECT. ANY DAMAGED OR FADED PAVEMENT MARKINGS SHALL BE CORRECTED WITHIN EIGHT HOURS AFTER THE CONTRACTOR'S NOTIFICATION OF THE PROBLEM. IF WEATHER IS NOT CONDUSIVE TO PAVEMENT MARKING INSTALLATION THEN REPAIRS SHALL BE MADE ON THE FIRST WEATHER PERMISSIVE DAY AFTER NOTIFICATION.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH ODOT ITEM 614 APPLICABLE SECTIONS OF THE SPECIFICATIONS AS WELL AS THE MANUAL. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, AS PER PLAN, UNLESS OTHERWISE SEPARATELY ITEMIZED IN THE PLANS.

WORK HOURS

NO WEEKEND WORK OR WORK BETWEEN THE HOURS OF 9:00 PM TO 7:00 AM SHALL BE PERMITTED UNLESS OTHERWISE SPECIFICALLY APPROVED BY THE ENGINEER.

PROVIDING CONTINUOUS ACCESS TO RESIDENCES AND BUSINESSES

TWO WEEKS PRIOR TO THE START OF WORK, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A COMPLETE SCHEDULE OF CONSTRUCTION OPERATIONS ALONG WITH PLANS SHOWING TRAFFIC CONTROL FOR EACH PHASE OF CONSTRUCTION. INCLUDED SHALL BE DETAILS OF THE PROPOSED METHODS TO MAINTAIN SAFE AND CONTINUOUS ACCESS FOR PASSENGER VEHICLES, TRUCKS AND SAFETY EQUIPMENT TO ALL ADJOINING PROPERTIES AND INTERSECTING STREETS. THESE PLANS SHALL INCLUDE ALL TEMPORARY MATERIALS NECESSARY TO PROVIDE SAFE, ADEQUATE DRIVE SURFACES TO ALL ADJOINING PROPERTIES. THE COST FOR ALL MATERIALS, EQUIPMENT AND LABOR NECESSARY TO PROVIDE CONTINUOUS ACCESS SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ODOT ITEM 614, MAINTAINING TRAFFIC. PLANS MUST BE SUBMITTED TO THE ENGINEER AND APPROVED PRIOR TO COMMENCING ANY WORK

SHOULD THE ENGINEER, AT ANY TIME PRIOR TO OR DURING CONSTRUCTION, DEEM ANY PART OF THE CONTRACTOR'S PLANS FOR SAFE AND CONTINUOUS ACCESS TO RESIDENCES AND BUSINESSES INADEQUATE, ADDITIONAL MATERIALS, CLOSURES AND/OR DIVERSIONS SHALL BE REQUIRED AT NO ADDITIONAL COST TO THE CITY.

NOTIFICATION OF PROPERTY OWNERS

THE CONTRACTOR SHALL NOTIFY ALL RESIDENCES AND BUSINESSES ALONG THE PROJECT ROUTE IN WRITING AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO COMMENCING WORK. SUCH NOTICE SHALL INCLUDE, AT A MINIMUM, A BRIEF PROJECT DESCRIPTION, TENTATIVE CONSTRUCTION SCHEDULE, LIMITS OF CONSTRUCTION, THE CONTRACTOR'S NAME, ADDRESS AND PHONE NUMBER, AS WELL AS A CONTACT PERSON'S NAME AND EMERGENCY PHONE NUMBER WHERE HE COULD BE REACHED DURING NON-WORK HOURS. THE NOTICE SHALL ALSO REQUEST THAT THE PROPERTY OWNERS PROVIDE INFORMATION TO THE CONTRACTOR AND/OR CITY OF MENTOR REGARDING THE LOCATIONS OF ANY UNDERGROUND FET FENCING, LAWN SPRINKLER SYSTEMS, YARD LIGHTING, WIRING AND ANY OTHER FACILITIES THAT ARE UNDERGROUND IN THE VICINITY OF THE PROJECT. THE NOTICE SHALL BE REVIEWED AND APPROVED BY THE CITY OF MENTOR-ON-THE-LAKE PRIOR TO BEING DISTRIBUTED. ALL COSTS ASSOCIATED WITH THE ABOVE SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ODOT ITEM 614, MAINTAINING TRAFFIC, AS PER PLAN.

FAILURE TO COMPLY

FOR ANY FAILURE TO COMPLY WITH PROVISIONS FOR TRAFFIC CONTROL SET OUT IN THESE PLANS AND NOTES OR WITH THE PROVISIONS OF THE MANUAL, THE HIGHWAY IN THE VICINITY OF THE WORK AREA SHALL BE CONSIDERED IN A CONDITION UNACCEPTABLE FOR THE SAFETY AND CONVENIENT USE BY THE TRAVELING PUBLIC. ANY FAILURE TO KEEP THE HIGHWAY IN THE VICINITY OF THE WORKING AREA IN A CONDITION ACCEPTABLE FOR THE SAFE AND CONVENIENT USE BY THE TRAVELING PUBLIC SHALL BE CONSIDERED A BREACH OF THIS CONTRACT. WORK SHALL BE SUSPENDED UNTIL THE CONTRACTOR COMPLIES WITH THE PROVISIONS OF THE AFOREMENTIONED ITEMS.

NOTIFICATION

THE CITY OF MENTOR-ON-THE-LAKE POLICE, FIRE, PUBLIC WORKS DEPARTMENTS, AND CITY ENGINEER SHALL BE NOTIFIED AT LEAST ONE (1) WEEK PRIOR TO THE ACTUAL START OF CONSTRUCTION.

CITY OF MENTOR-ON-THE-LAKE POLICE DEPARTMENT
JOHN FORSYTHE, CHIEF 440-257-7234 X225

CITY OF MENTOR-ON-THE-LAKE FIRE DEPARTMENT
JAMES PECHATSKO, CHIEF 440-257-7184

CITY OF MENTOR-ON-THE-LAKE ENGINEER
TIM LANNON, P.E. 440-530-2348

CITY OF MENTOR-ON-THE-LAKE ADMINISTRATOR
JACLYN MARTIN, DIRECTOR 440-257-7216

CITY OF MENTOR-ON-THE-LAKE SERVICE DIRECTOR
JIM TUROSKY, DIRECTOR 440-257-7216

THE CITY OF MENTOR-ON-THE-LAKE EDUCATION DEPARTMENT SHALL BE NOTIFIED AT LEAST ONE (1) MONTH PRIOR TO THE ACTUAL START OF CONSTRUCTION OF EACH SECTION OF WORK IN ORDER TO COORDINATE BUS AND SCHOOL TRAFFIC.

LAKE ELEMENTARY SCHOOL
LAURIE HAYNES, PRINCIPAL 440-257-5953

MENTOR SCHOOLS TRANSPROTATION DEPARTMENT
KAREN GERARDI 440-974-5260

MATERIALS FOR MAINTAINING TRAFFIC

SIGNS

CONTRACTOR SHALL FURNISH AND INSTALL SIGNS DIRECTING SCHOOL TRAFFIC TO ENTER THROUGH THE SALIDA ROAD ENTRANCE. SIGN DIMENSION AND SPECIFICATIONS, INCLUDING LETTER SIZES, SHALL BE AS PROVIDED IN THE MANUAL OR SIGN DESIGN DRAWINGS PROVIDED IN THESE PLANS. THE SIGNS SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER PRIOR TO THE START OF THE PROJECT. ALL COST FOR INSTALLING, MAINTAINING AND SUBSEQUENT REMOVAL OF SAID SIGNS SHALL BE INCLUDED IN THE LUMP SUM BID PRICE FOR ODOT ITEM 614 - MAINTAINING TRAFFIC, AS PER PLAN.

SIGN SUPPORTS

SIGN SUPPORTS SHALL BE OF SUFFICIENT SIZES AND HEIGHT TO SUPPORT THE SIGNS AT THE HEIGHT INDICATED IN THE MANUAL. SUPPORTS SHALL ALSO BE ADEQUATE IN MASS AND STABILITY TO PREVENT SIGNS FROM BEING BLOWN OVER BY WIND OR VECLAR-GENERATED AIR TURBULENCE. ALL COSTS FOR INSTALLING, MAINTAINING AND SUBSEQUENT REMOVAL OF SAID SIGNS SHALL BE INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 614 - MAINTAINING TRAFFIC.

PROJECT PHASING

IT IS THE DESIRE OF THE CITY OF MENTOR-ON-THE-LAKE TO HAVE THE CONTRACT WORK PROCEED IN AN ORDERLY AND NEAT MANNER IN ORDER TO KEEP THE DISRUPTION TO THE RESIDENTS TO A MINIMUM. THUSLY THE CONTRACTOR IS TO PREPARE AND IMPLEMENT A WORK PHASING PLAN, APPROVED BY THE CITY ADMINISTRATION AND THE ENGINEER, INCLUSIVE OF THE FOLLOWING REQUIREMENTS:

- 1) DRIVE APRON ACCESS IS TO BE MAINTAINED AT ALL TIMES EXCEPTING DURING CONCRETE PLACEMENT AND CURING.



NO	REVISION	DATE

CITY OF MENTOR-ON-THE-LAKE

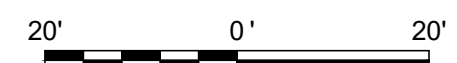
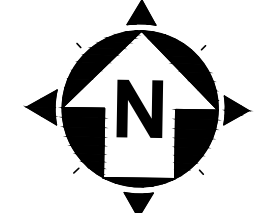
SOUTHLAND ROAD DRAINAGE SYSTEM IMPROVEMENTS

LAKE COUNTY, OHIO

ISSUED FOR:	REVIEW
ISSUE DATE:	10/11/2024
SCALE:	AS SHOWN
DESIGNED BY:	JPL/PAB
DRAWN BY:	GMS/PAB
CHECKED BY:	TRL

MAINTENANCE OF TRAFFIC

PROJECT NO.	
210645	
DISCIPLINE	
CIVIL	
SHEET NAME	
MOT-1	
SHEET	OF
06	14

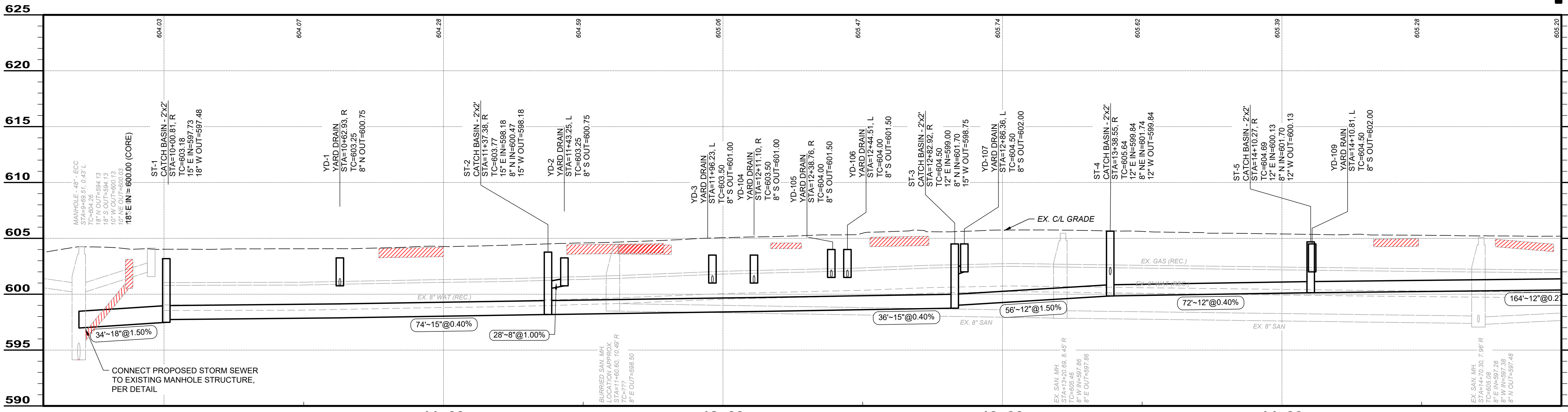
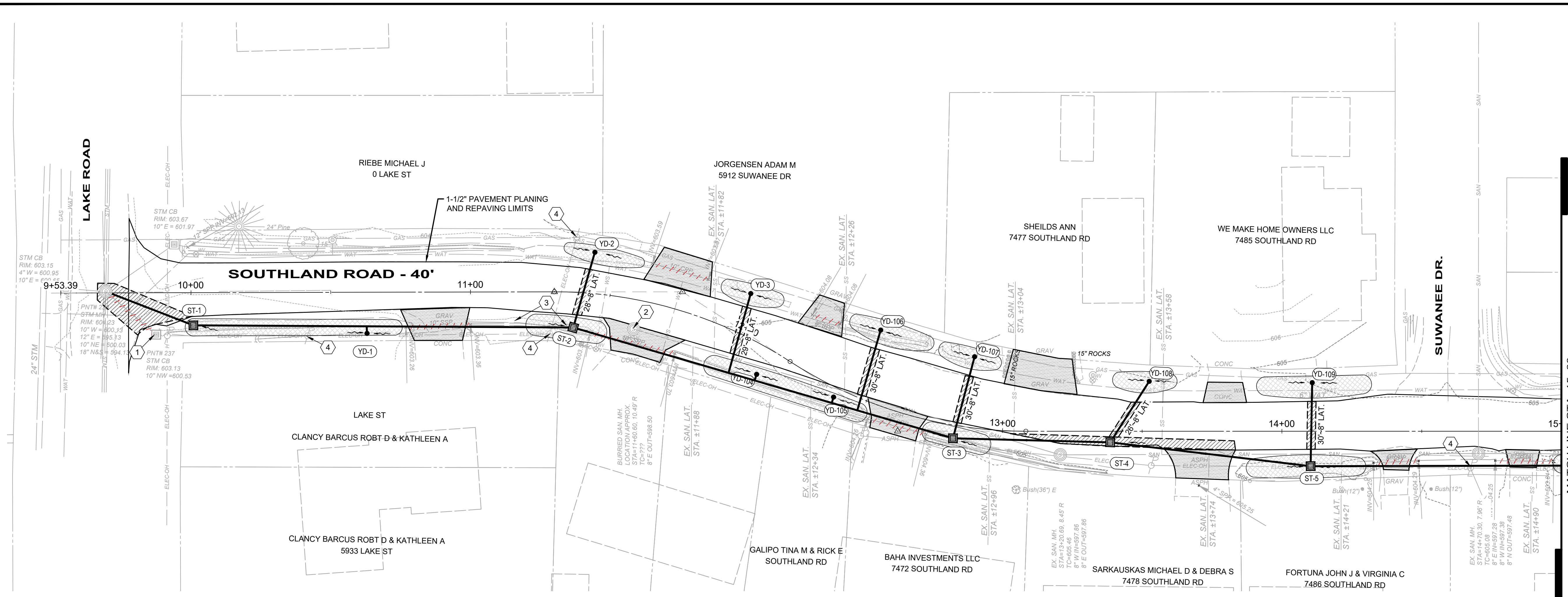


LEGEND

- EXISTING PIPE TO BE REMOVED
- DRIVE APRON REPLACEMENT (SEE DETAILS)
- ASPHALT CONCRETE REPLACEMENT, TYPE C (SEE DETAILS)
- PROVIDE POSITIVE DRAINAGE TO STORM STRUCTURE

NOTES:

1. THE EXISTING UNDERGROUND UTILITIES WERE OBTAINED FROM VARIOUS SOURCES INCLUDING, BUT NOT LIMITED TO, FIELD OBSERVATIONS AND RECORDS MADE AVAILABLE TO CREATE A COMPOSITE DRAWING OF EXISTING CONDITIONS. THERE IS NO GUARANTEE OR WARRANTY, EXPRESSED OR IMPLIED, OF THE COMPLETENESS, CORRECTNESS OR ACCURACY OF SUCH UTILITIES IN THE AREA. EITHER THE CONTRACTOR SHALL PERFORM A FIELD INVESTIGATION TO CONFIRM LOCATIONS AND DEPTHS OF EXISTING UTILITIES AND STRUCTURES IN THE WORK AREA. IN THE EVENT UTILITY LOCATIONS OR DEPTHS DIFFER IN FIELD FROM PLAN, CONTRACTOR SHALL NOTIFY THE ENGINEER.
2. FINAL LOCATIONS AND ELEVATIONS OF PROPOSED INLETS AND BASINS SHALL BE ADJUSTED IN THE FIELD TO AVOID CONFLICTS WITH UTILITIES, AND PROVIDE POSITIVE DRAINAGE AS DIRECTED BY THE ENGINEER.
3. CONTRACTOR SHALL ASSUME ONE GAS, WATER, AND SANITARY CONNECTION EACH PER PARCEL.



625 CODED NOTES:

- ① REMOVE EXISTING STORM CATCH BASIN STRUCTURE.
- ② ADJUST CASTING TO MEET PAVEMENT GRADE.
- ③ CONTRACTOR SHALL REMOVE, STORE AND RESET EXISTING ROADWAY SIGN AND POST TO FACILITATE CONSTRUCTION.
- ④ CONTRACTOR SHALL COORDINATE WITH OVERHEAD UTILITY PROVIDERS FOR UTILITY POLE SUPPORT DURING CONSTRUCTION.
- ⑤ NOT USED
- ⑥ NOT USED
- ⑦ NOT USED
- ⑧ NOT USED
- ⑨ NOT USED
- ⑩ NOT USED



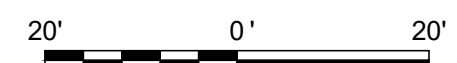
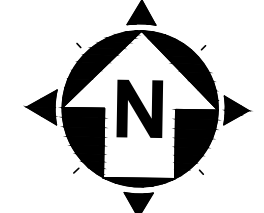
NO	REVISION	DATE

CITY OF MENTOR-ON-THE-LAKE
SOUTHLAND ROAD DRAINAGE SYSTEM IMPROVEMENTS
 LAKE COUNTY, OHIO

ISSUED FOR:	REVIEW
ISSUE DATE:	10/11/2024
SCALE:	AS SHOWN
DESIGNED BY:	JPL/PAB
DRAWN BY:	GMS/PAB
CHECKED BY:	TRL

**PLAN AND PROFILE
 STA 10+00 TO 15+00**

PROJECT NO.	210645
DISCIPLINE	CIVIL
SHEET NAME	PP-1
SHEET	OF
07	14



LEGEND

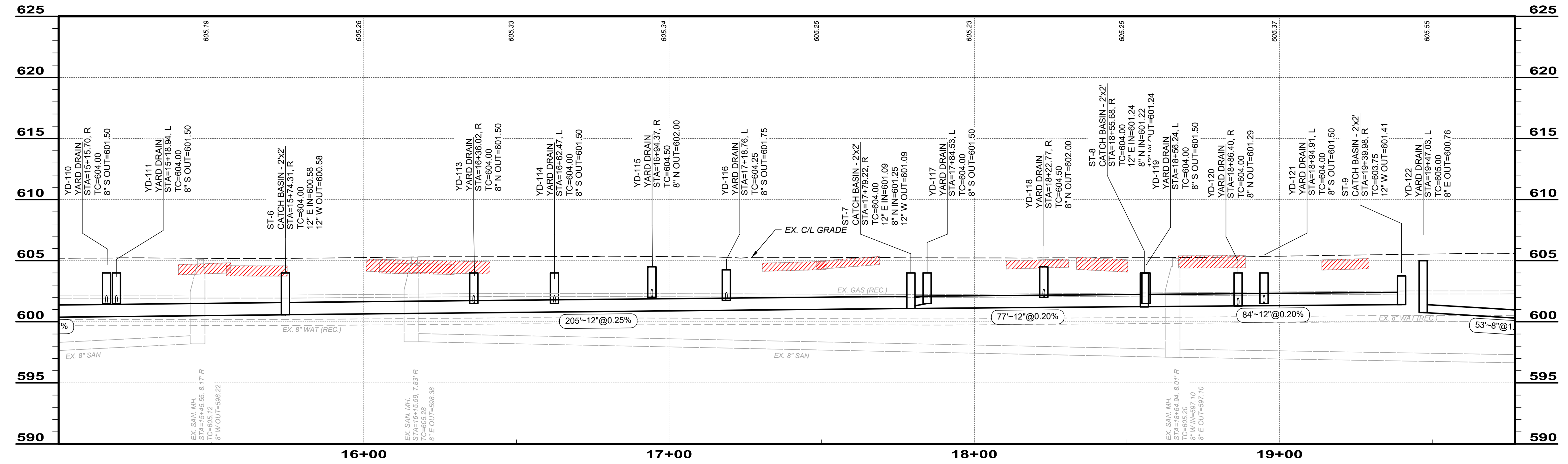
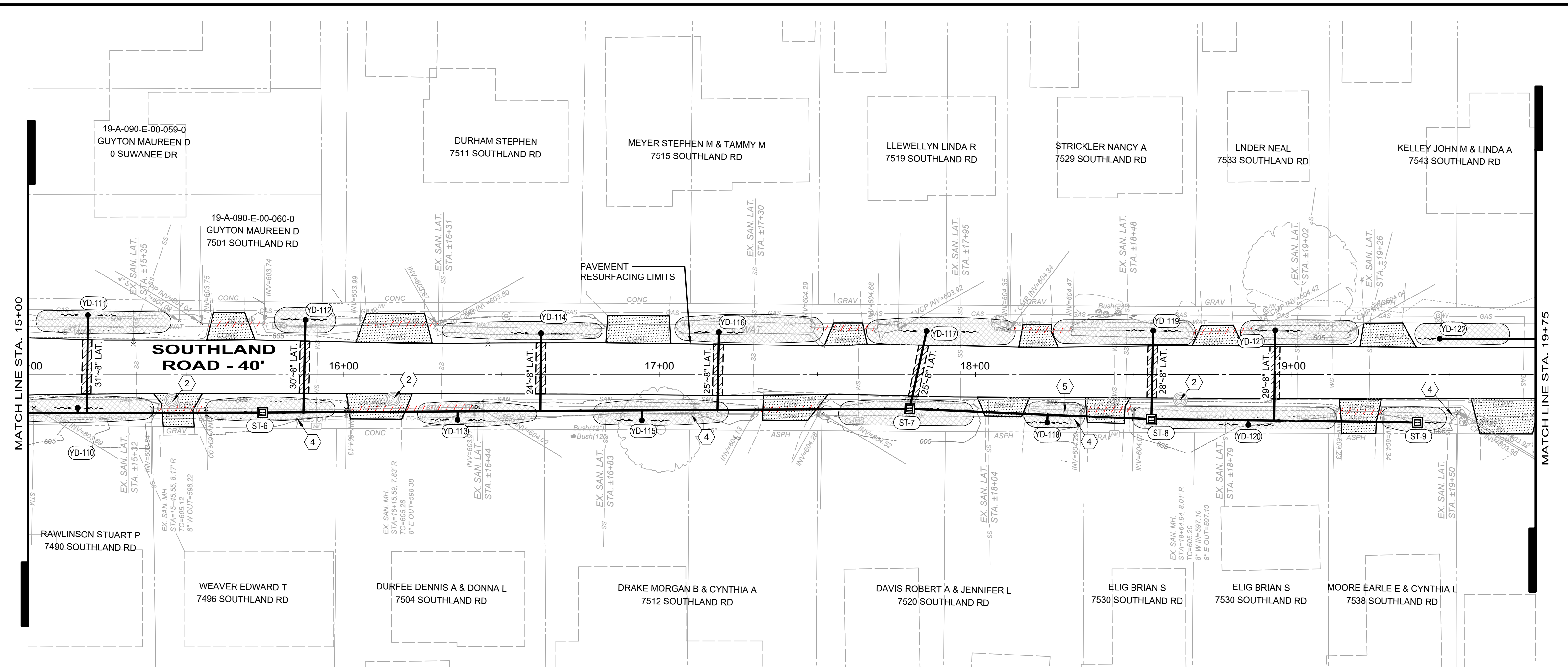
- EXISTING PIPE TO BE REMOVED
- DRIVE APRON REPLACEMENT (SEE DETAILS)
- ASPHALT CONCRETE REPLACEMENT, TYPE C (SEE DETAILS)
- PROVIDE POSITIVE DRAINAGE TO STORM STRUCTURE

NOTES:

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2. FINAL LOCATIONS AND ELEVATIONS OF PROPOSED INLETS AND BASINS SHALL BE ADJUSTED IN THE FIELD TO AVOID CONFLICTS WITH UTILITIES, AND PROVIDE POSITIVE DRAINAGE AS DIRECTED BY THE ENGINEER.
3. CONTRACTOR SHALL ASSUME ONE GAS, WATER, AND SANITARY CONNECTION EACH PER PARCEL.

CODED NOTES:

- NOT USED
- ADJUST CASTING TO MEET PAVEMENT GRADE.
- NOT USED
- CONTRACTOR SHALL COORDINATE WITH OVERHEAD UTILITY PROVIDERS FOR UTILITY POLE SUPPORT DURING CONSTRUCTION.
- EXISTING STUMP TO BE REMOVED.
- NOT USED
- NOT USED
- NOT USED
- NOT USED
- NOT USED



NO	REVISION	DATE

CITY OF MENTOR-ON-THE-LAKE

SOUTHLAND ROAD DRAINAGE SYSTEM IMPROVEMENTS

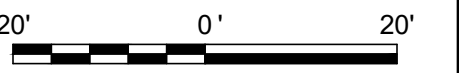
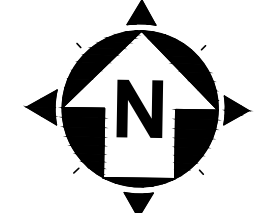
LAKE COUNTY, OHIO

ISSUED FOR:	REVIEW
ISSUE DATE:	10/1/2024
SCALE:	AS SHOWN
DESIGNED BY:	JPL/PAB
DRAWN BY:	GMS/PAB
CHECKED BY:	TRL

PLAN AND PROFILE

STA 15+00 TO 19+75

PROJECT NO.	210645
DISCIPLINE	CIVIL
SHEET NAME	PP-2
SHEET	OF
08	14

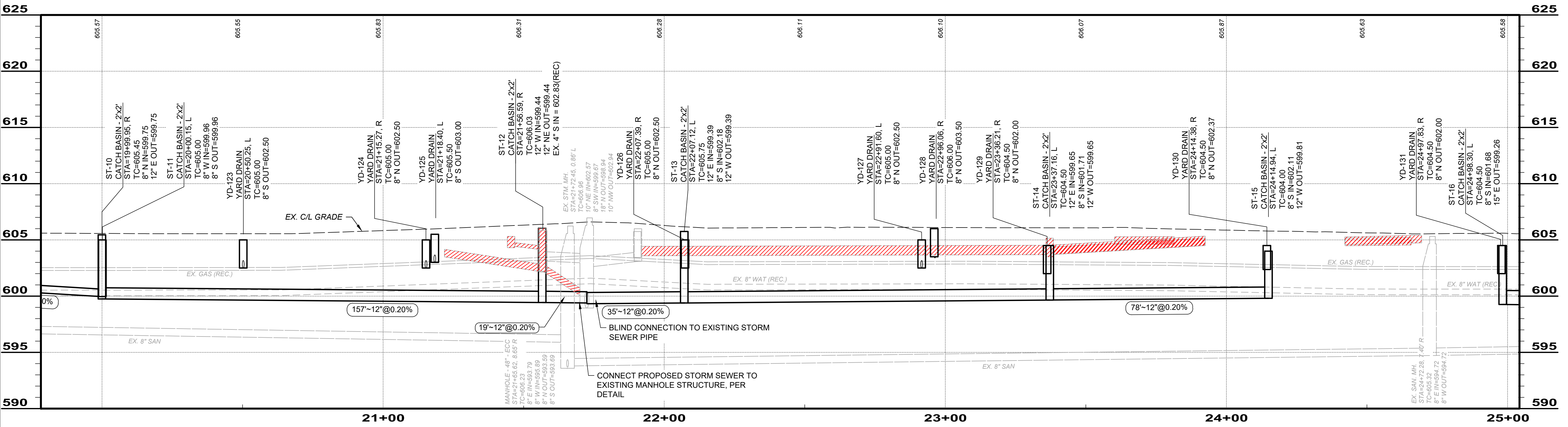
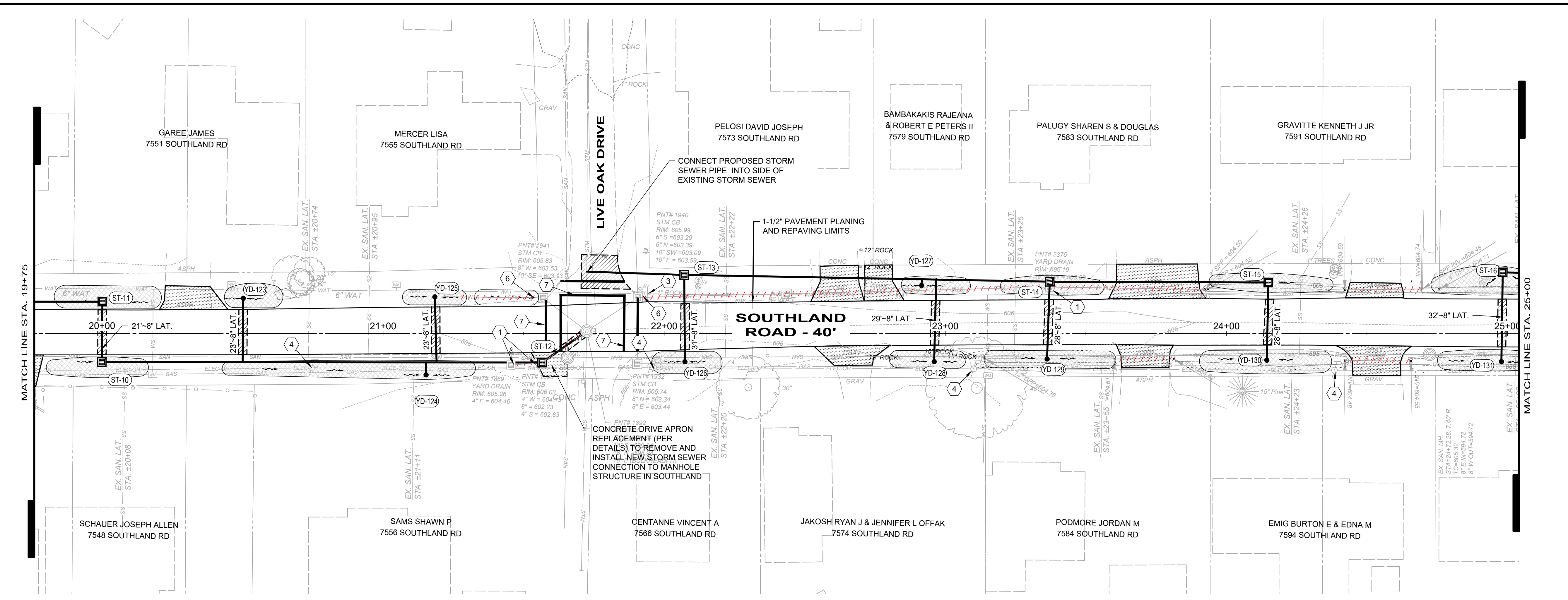


LEGEND

- EXISTING PIPE TO BE REMOVED
- DRIVE APRON REPLACEMENT (SEE DETAILS)
- ASPHALT CONCRETE REPLACEMENT, TYPE C (SEE DETAILS)
- PROVIDE POSITIVE DRAINAGE TO STORM STRUCTURE

- NOTES:
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 3. CONTRACTOR SHALL ASSUME ONE GAS, WATER, AND SANITARY CONNECTION EACH PER PARCEL.

- CODED NOTES:
- ① REMOVE EXISTING STORM CATCH BASIN STRUCTURE.
 - ② NOT USED
 - ③ CONTRACTOR SHALL REMOVE, STORE AND RESET EXISTING ROADWAY SIGN AND POST TO FACILITATE CONSTRUCTION.
 - ④ CONTRACTOR SHALL COORDINATE WITH OVERHEAD UTILITY PROVIDERS FOR UTILITY POLE SUPPORT DURING CONSTRUCTION.
 - ⑤ NOT USED
 - ⑥ REMOVE EXISTING STORM SEWER FROM CATCH BASIN. CATCH BASIN TO REMAIN. PLUG AND GROUT OPENING IN STRUCTURE WALL REMAINING FROM STORM SEWER REMOVAL.
 - ⑦ REPLACE TRAFFIC PAINT LINES PER ODOT ITEM 642.
 - ⑧ NOT USED
 - ⑨ NOT USED
 - ⑩ NOT USED



NO	REVISION	DATE

CITY OF MENTOR-ON-THE-LAKE

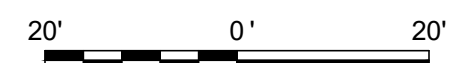
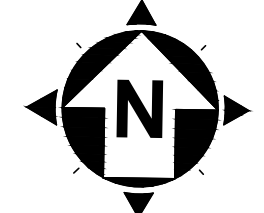
SOUTHLAND ROAD DRAINAGE SYSTEM IMPROVEMENTS

LAKE COUNTY, OHIO

ISSUED FOR:	REVIEW
ISSUE DATE:	10/11/2024
SCALE:	AS SHOWN
DESIGNED BY:	JPL/PAB
DRAWN BY:	GMS/PAB
CHECKED BY:	TRL

**PLAN AND PROFILE
19+75 TO 25+00**

PROJECT NO.	210645
DISCIPLINE	CIVIL
SHEET NAME	PP-3
SHEET	OF
09	14



LEGEND

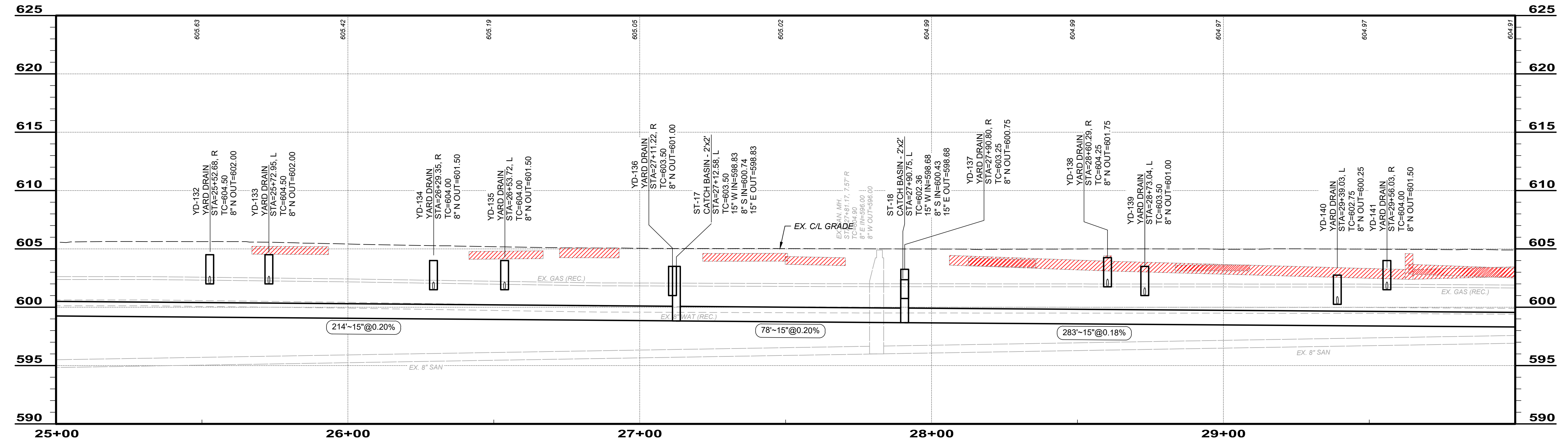
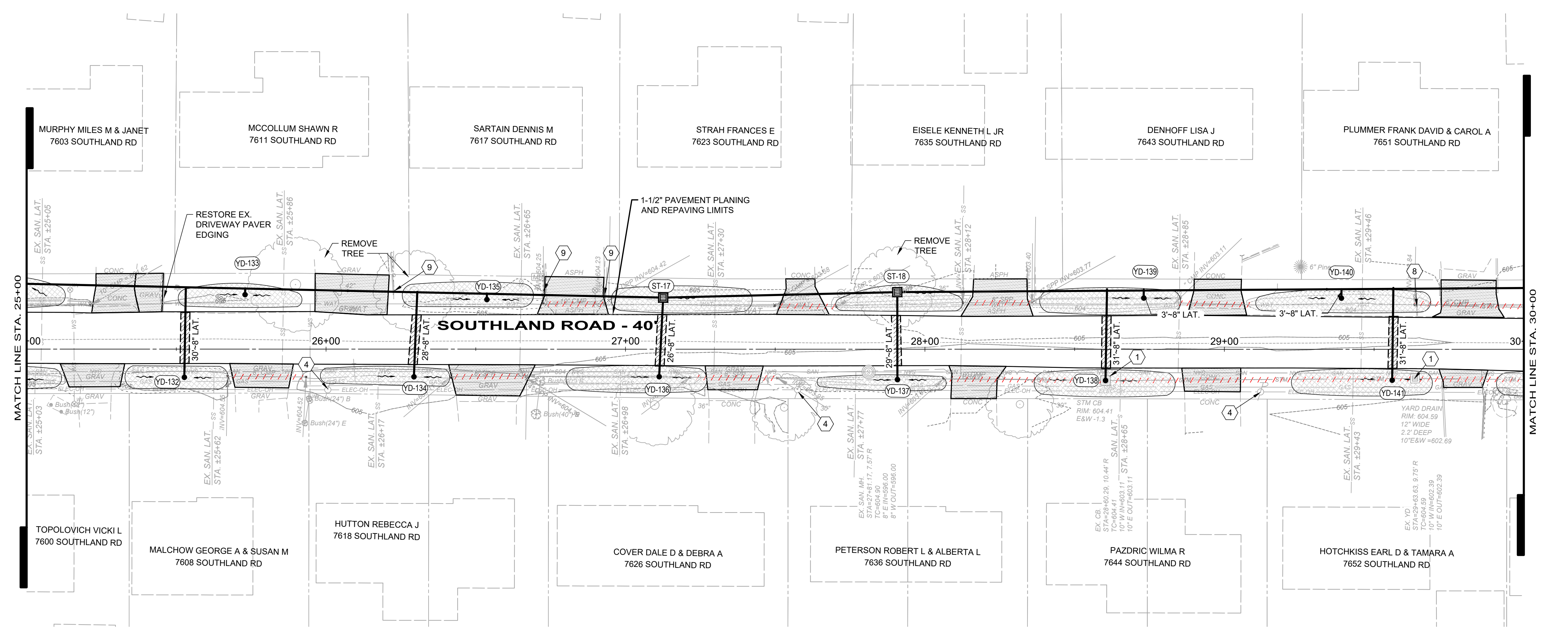
- EXISTING PIPE TO BE REMOVED
- DRIVE APRON REPLACEMENT (SEE DETAILS)
- ASPHALT CONCRETE REPLACEMENT, TYPE C (SEE DETAILS)
- PROVIDE POSITIVE DRAINAGE TO STORM STRUCTURE

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3. CONTRACTOR SHALL ASSUME ONE GAS, WATER, AND SANITARY CONNECTION EACH PER PARCEL.

CODED NOTES:

- ① REMOVE EXISTING STORM CATCH BASIN STRUCTURE.
- ② NOT USED
- ③ NOT USED
- ④ CONTRACTOR SHALL COORDINATE WITH OVERHEAD UTILITY PROVIDERS FOR UTILITY POLE SUPPORT DURING CONSTRUCTION.
- ⑤ NOT USED
- ⑥ NOT USED
- ⑦ NOT USED
- ⑧ REMOVE EXISTING HEADWALL STRUCTURE.
- ⑨ CONTRACTOR SHALL REMOVE, AND RESTORE EXISTING SPLIT RAIL FENCE.
- ⑩ NOT USED



NO	REVISION	DATE

CITY OF MENTOR-ON-THE-LAKE

SOUTHLAND ROAD DRAINAGE SYSTEM IMPROVEMENTS

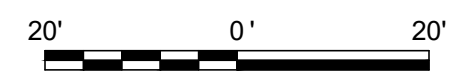
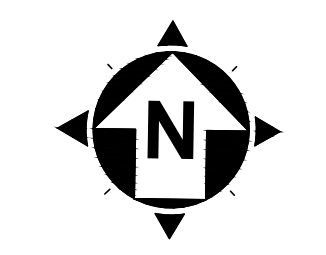
LAKE COUNTY, OHIO

ISSUED FOR:	REVIEW
ISSUE DATE:	10/11/2024
SCALE:	AS SHOWN
DESIGNED BY:	JPL/PAB
DRAWN BY:	GMS/PAB
CHECKED BY:	TRL

PLAN AND PROFILE

STA 25+00 TO 30+00

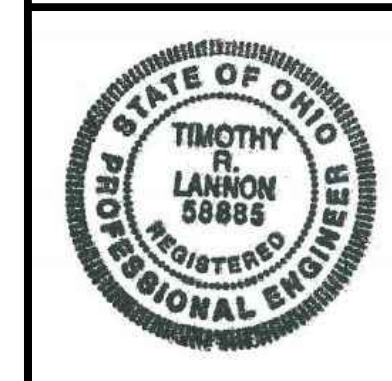
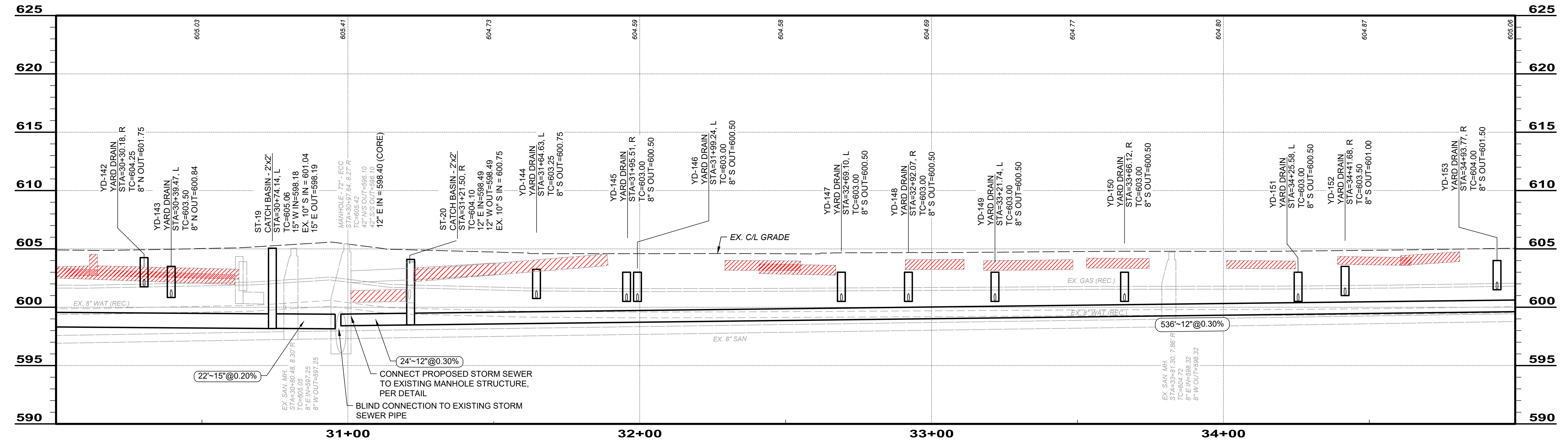
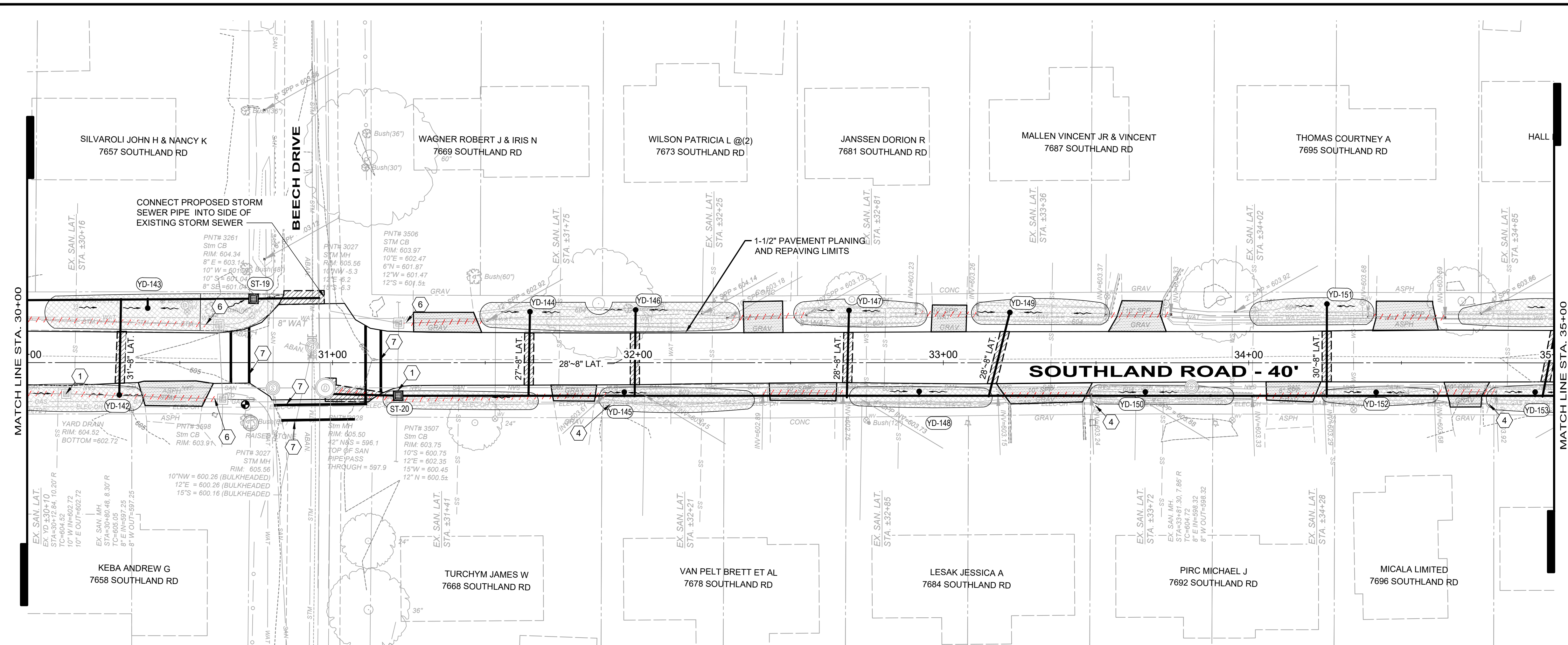
PROJECT NO.	210645
DISCIPLINE	CIVIL
SHEET NAME	PP-4
SHEET	OF
10	14



- LEGEND**
- EXISTING PIPE TO BE REMOVED
 - DRIVE APRON REPLACEMENT (SEE DETAILS)
 - ASPHALT CONCRETE REPLACEMENT, TYPE C (SEE DETAILS)
 - PROVIDE POSITIVE DRAINAGE TO STORM STRUCTURE

- NOTES:**
1. THE EXISTING UNDERGROUND UTILITIES WERE OBTAINED FROM VARIOUS SOURCES INCLUDING, BUT NOT LIMITED TO, FIELD OBSERVATIONS AND RECORDS MADE AVAILABLE TO CREATE A COMPOSITE DRAWING OF EXISTING CONDITIONS. THERE IS NO GUARANTEE OR WARRANTY, EXPRESSED OR IMPLIED, OF THE COMPLETENESS, CORRECTNESS OR ACCURACY OF SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE CONTRACTOR SHALL PERFORM A FIELD INVESTIGATION TO CONFIRM LOCATIONS AND DEPTHS OF EXISTING UTILITIES AND STRUCTURES IN THE WORK AREA. IN THE EVENT UTILITY LOCATIONS OR DEPTHS DIFFER IN FILED FROM PLAN, CONTRACTOR SHALL NOTIFY THE ENGINEER.
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 3. CONTRACTOR SHALL ASSUME ONE GAS, WATER, AND SANITARY CONNECTION EACH PER PARCEL.

- CODED NOTES:**
- ① REMOVE EXISTING STORM CATCH BASIN STRUCTURE.
 - ② NOT USED
 - ③ NOT USED
 - ④ CONTRACTOR SHALL COORDINATE WITH OVERHEAD UTILITY PROVIDERS FOR UTILITY POLE SUPPORT DURING CONSTRUCTION.
 - ⑤ NOT USED
 - ⑥ REMOVE EXISTING STORM SEWER FROM CATCH BASIN. CATCH BASIN TO REMAIN. PLUG AND GROUT OPENING IN STRUCTURE WALL REMAINING FROM STORM SEWER REMOVAL.
 - ⑦ REPLACE TRAFFIC PAINT LINES PER ODOT ITEM 642.
 - ⑧ NOT USED
 - ⑨ NOT USED
 - ⑩ NOT USED



NO	REVISION	DATE

CITY OF MENTOR-ON-THE-LAKE

SOUTHLAND ROAD DRAINAGE SYSTEM IMPROVEMENTS

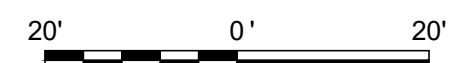
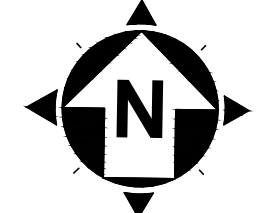
LAKE COUNTY, OHIO

ISSUED FOR:	REVIEW
ISSUE DATE:	10/1/2024
SCALE:	AS SHOWN
DESIGNED BY:	JPL/PAB
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PLAN AND PROFILE

STA 30+00 TO 35+00

PROJECT NO.	210645
DISCIPLINE	CIVIL
SHEET NAME	PP-5
SHEET	OF
11	14

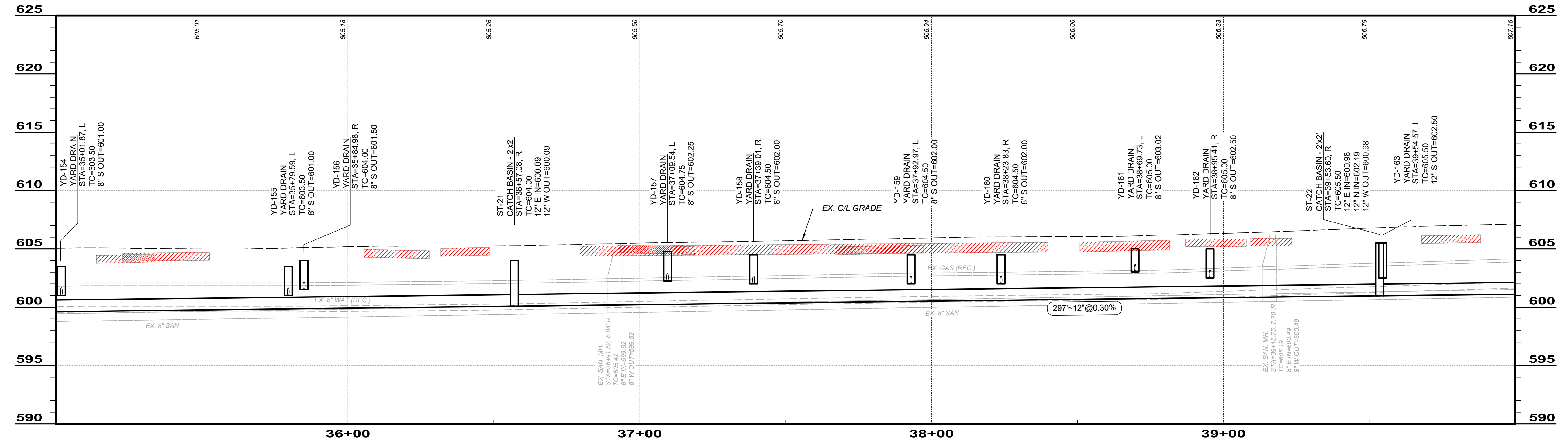
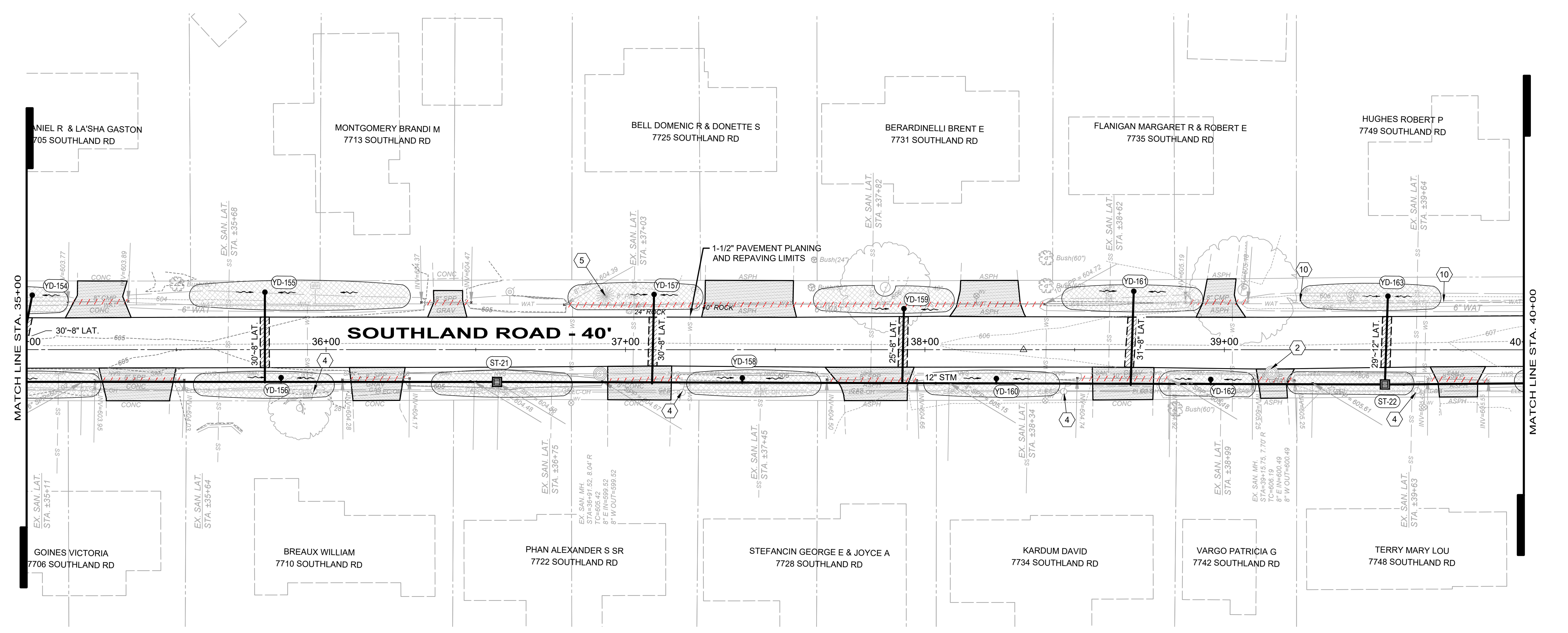


LEGEND

- EXISTING PIPE TO BE REMOVED
- DRIVE APRON REPLACEMENT (SEE DETAILS)
- ASPHALT CONCRETE REPLACEMENT, TYPE C (SEE DETAILS)
- PROVIDE POSITIVE DRAINAGE TO STORM STRUCTURE

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 3. CONTRACTOR SHALL ASSUME ONE GAS, WATER, AND SANITARY CONNECTION EACH PER PARCEL.

- CODED NOTES:**
- (1) NOT USED
 - (2) ADJUST CASTING TO MEET PAVEMENT GRADE.
 - (3) NOT USED
 - (4) CONTRACTOR SHALL COORDINATE WITH OVERHEAD UTILITY PROVIDERS FOR UTILITY POLE SUPPORT DURING CONSTRUCTION.
 - (5) EXISTING STUMP TO BE REMOVED.
 - (6) NOT USED
 - (7) NOT USED
 - (8) NOT USED
 - (9) NOT USED
 - (10) CONTRACTOR SHALL REMOVE EXISTING BRICK CHANNEL LINING. CONTRACTOR SHALL STOCKPILE BRICKS AT HOMEOWNER'S DISCRETION.



NO	REVISION	DATE

CITY OF MENTOR-ON-THE-LAKE

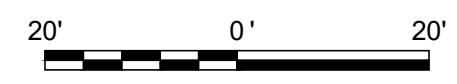
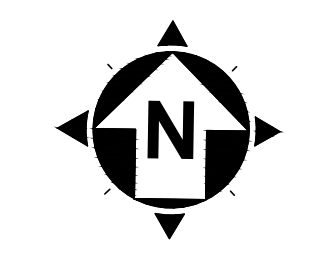
SOUTHLAND ROAD DRAINAGE SYSTEM IMPROVEMENTS

LAKE COUNTY, OHIO


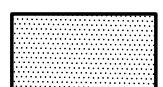


ISSUED FOR:	REVIEW
ISSUE DATE:	10/11/2024
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CHECKED BY:	TRL

PLAN AND PROFILE
STA 35+00 TO 40+00

PROJECT NO.	210645
DISCIPLINE	CIVIL
SHEET NAME	PP-6
SHEET	OF
12	14



LEGEND

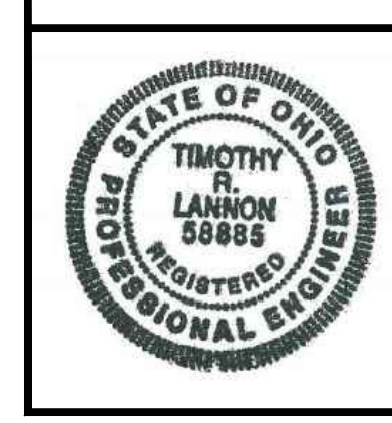
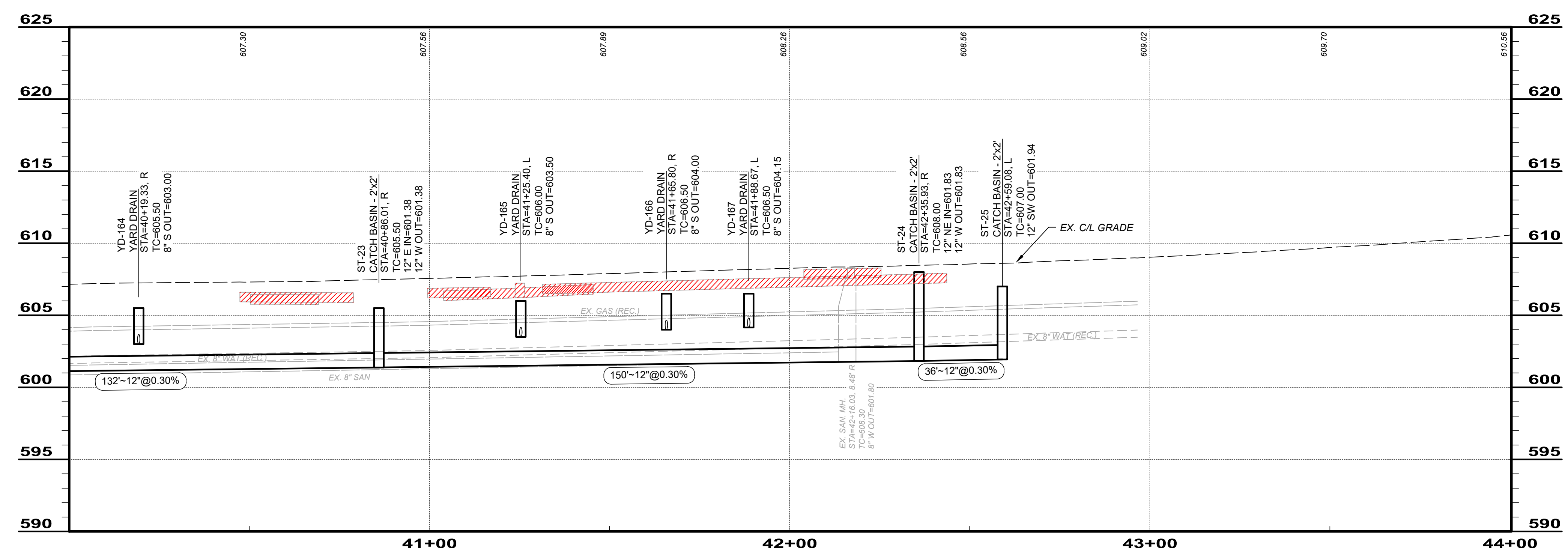
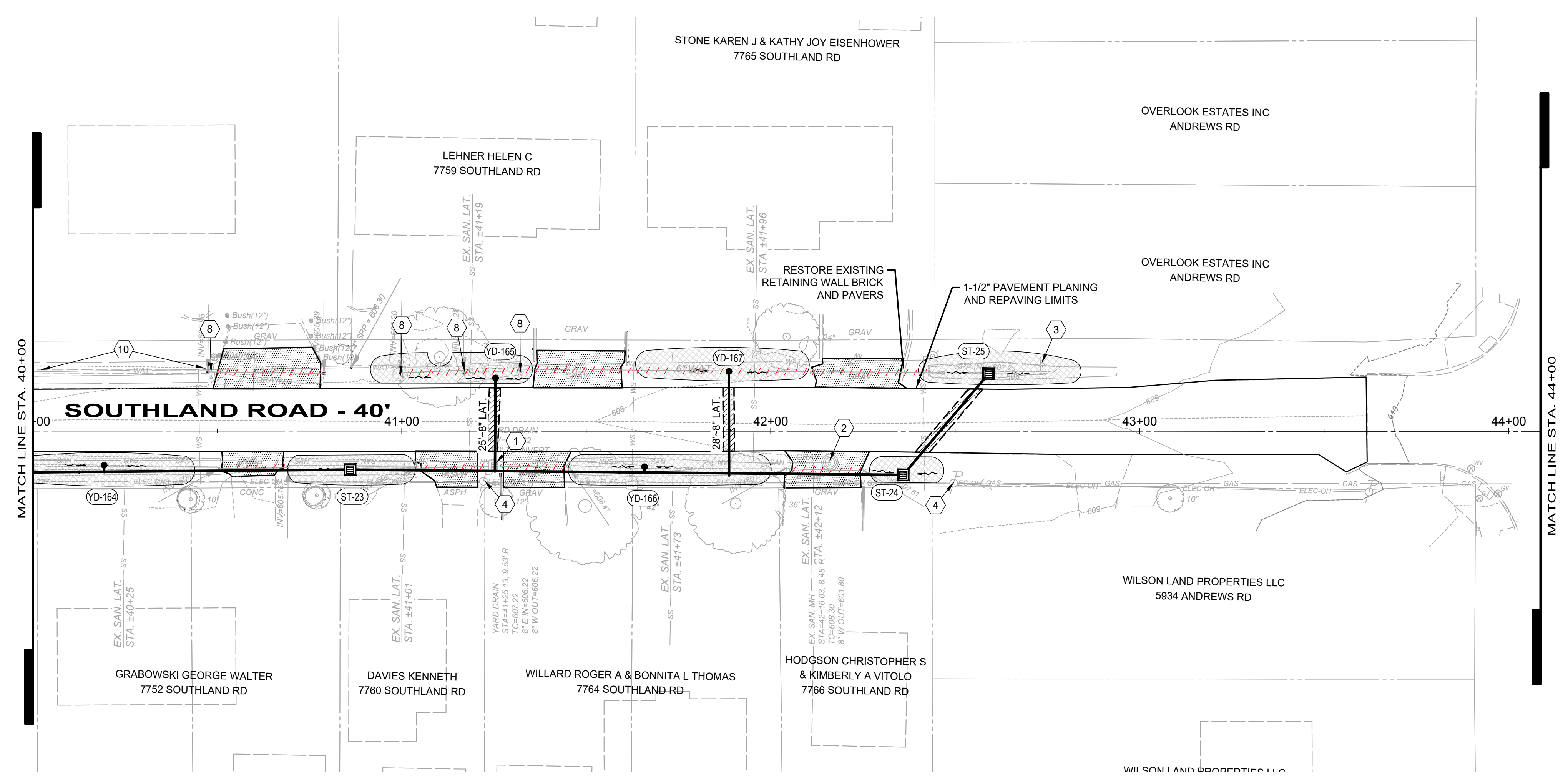
-  EXISTING PIPE TO BE REMOVED
-  DRIVE APRON REPLACEMENT (SEE DETAILS)
-  ASPHALT CONCRETE REPLACEMENT, TYPE C (SEE DETAILS)
-  PROVIDE POSITIVE DRAINAGE TO STORM STRUCTURE

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3. CONTRACTOR SHALL ASSUME ONE GAS, WATER, AND SANITARY CONNECTION EACH PER PARCEL.

CODED NOTES:

- ① REMOVE EXISTING STORM CATCH BASIN STRUCTURE.
- ② ADJUST CASTING TO MEET PAVEMENT GRADE.
- ③ CONTRACTOR SHALL REMOVE, STORE AND RESET EXISTING ROADWAY SIGN AND POST TO FACILITATE CONSTRUCTION.
- ④ CONTRACTOR SHALL COORDINATE WITH OVERHEAD UTILITY PROVIDERS FOR UTILITY POLE SUPPORT DURING CONSTRUCTION.
- ⑤ NOT USED
- ⑥ NOT USED
- ⑦ NOT USED
- ⑧ REMOVE EXISTING HEADWALL STRUCTURE.
- ⑨ NOT USED
- ⑩ CONTRACTOR SHALL REMOVE EXISTING BRICK CHANNEL LINING. CONTRACTOR SHALL STOCKPILE BRICKS AT HOMEOWNER'S DISCRETION.



NO	REVISION	DATE

CITY OF MENTOR-ON-THE-LAKE

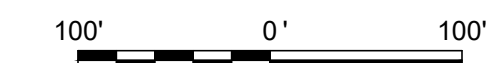
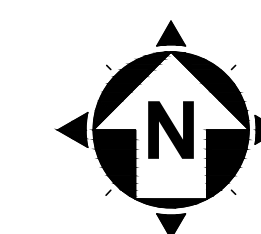
SOUTHLAND ROAD DRAINAGE SYSTEM IMPROVEMENTS

LAKE COUNTY, OHIO

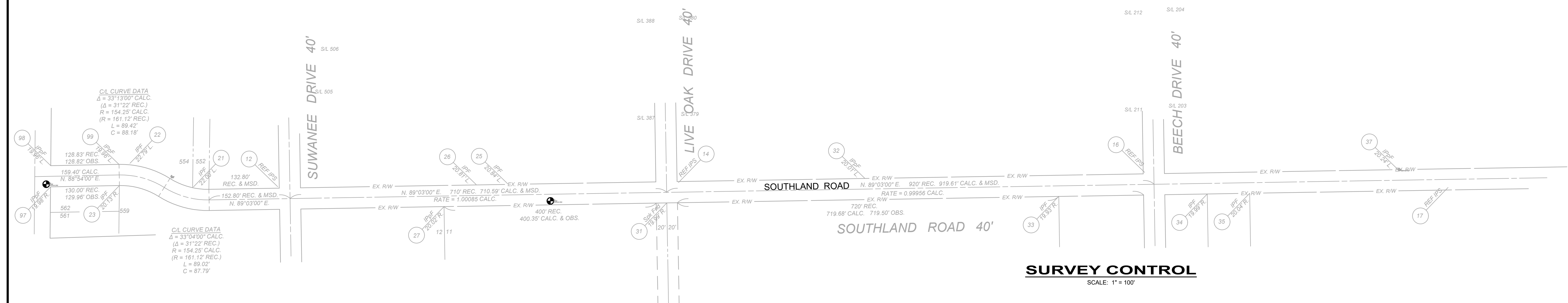
ISSUED FOR:	REVIEW
ISSUE DATE:	10/11/2024
SCALE:	AS SHOWN
DESIGNED BY:	JPL/PAB
DRAWN BY:	GMS/PAB
CHECKED BY:	TRL

**PLAN AND PROFILE
STA 40+00 TO 44+00**

PROJECT NO.	210645
DISCIPLINE	CIVIL
SHEET NAME	PP-7
SHEET	13
OF	14



MENTOR BEACH PARK NO. 2
F-7



SURVEY CONTROL
SCALE: 1" = 100'

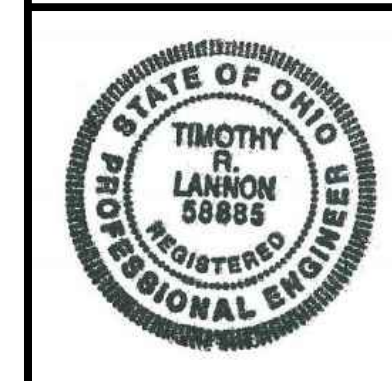
LEGEND:

- CENTERLINE MONUMENT
- CONCRETE MONUMENT FOUND
- 5/8" REBAR SET W/RED CAP INSCRIBED "CT CONSULTANTS"
- EX. R/W LIMITS OF PUBLIC R/W
- CENTERLINE PUBLIC R/W
- PARCEL LINES

NOTES:

1. THIS PLAN HAS BEEN PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND MAY BE SUBJECT TO EASEMENTS AND OTHER RESTRICTIONS. EITHER RECORDED OR UNRECORDED. THE SURVEYOR HAS MADE NO INVESTIGATION OR INDEPENDENT SEARCH FOR EASEMENTS, RECORD ENCUMBRANCES, RESTRICTIVE COVENANTS OR ANY OTHER FACTS THAT AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE.
2. THESE PLANS MAY HAVE BEEN ALTERED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.
3. THE PROJECT CONTROL COORDINATE SYSTEM IS BASED UPON THE FOLLOWING:
 - HORIZONTAL DATUM - PROJECT CONTROL COORDINATES FOR THIS PROJECT HAVE BEEN ESTABLISHED BY GPS/RTK OBSERVATIONS UTILIZING THE OHIO COORDINATE SYSTEM OF 1983 (ZONE 3401-OHIO NORTH). OHIO STATE PLANE GRID COORDINATE VALUES ARE EXPRESSED IN UNITS OF U.S. SURVEY FEET.
 - VERTICAL DATUM - NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
4. THE SURVEY AND STREET ALIGNMENTS SHOWN HEREON WERE OBSERVED IN THE FIELD FOR CONSTRUCTION PURPOSES ONLY AND MAY NOT BE SUITABLE FOR PROPERTY LINE SURVEYS OR OTHER PURPOSES. THE PROPERTY LINES SHOWN HEREON OUR SUBJECT TO AN ACCURATE BOUNDARY SURVEY AND ARE BASED ON FOUND MONUMENTS LOCATED IN THE FIELD BEST FIT TO THE RECORDS.
5. AN ALTA/ NSPS LAND TITLE SURVEY WAS NOT PERFORMED.
6. EASEMENTS, RECORD RESTRICTIONS AND SETBACKS WERE NOT ADDRESSED DURING THIS SURVEY.
7. ALL DIMENSIONS GIVEN ARE EXPRESSED IN US SURVEY FEET.
8. THE BENCHMARK ELEVATIONS SHOWN IN THE PROJECT CONTROL TABLE ARE AT THE TOP OF THE RED CAP OF THE IRON PIN SET.
9. IRON PINS SET ARE 5/8" IRON PINS SET WITH A RED CAP INSCRIBED WITH "CT REF"

No.	Northing	Easting	Elev.	Desc.
1	746454.3213	2275948.421	603.709	SCIPIS
2	746435.8403	2276424.718	604.905	SCIPIS
3	746409.705	2276864.35	604.505	SCIPIS
4	746443.617	2277180.766	606.198	SCIPIS
5	746422.8179	2277523.879	604.935	SCIPIS
12	746435.8462	2276424.707	604.917	SCIPIS
13	746409.8195	2276864.384	604.685	SCIPIS
14	746443.5758	2277180.758	606.164	SCIPIS
15	746422.9343	2277523.869	605.042	SCIPIS
16	746462.8109	2278060.214	605.273	SCIPIS
17	746434.551	2278632.626	605.147	SCIPIS
18	746481.6064	2279259.169	608.359	SCIPIS
20	746440.5585	2275987.887	603.916	SCBMS
21	746435.5334	2276265.71	605.244	SCIPIF
22	746479.9281	2276145.865	606.636	SCIPIF
23	746437.8316	2276125.974	604.016	SCIPIF
24	746402.5873	2276939.523	605.339	SCIPPF
25	746440.9903	2276858.823	605.583	SCIPIF
26	746439.9586	2276798.817	605.149	SCIPIF
27	746398.1223	2276738.466	604.904	SCIPPF
28	746408.9448	2276939.071	606.024	SCBMS
29	746680.2439	227141.975	603.755	SCMNS
30	746546.2202	227177.048	604.714	SCIPIF
31	746405.1233	2277158.757	606.213	SCSPF
32	746451.3324	2277532.594	605.227	SCIPPF
33	746417.4414	2277898.154	604.761	SCIPIF
34	746422.0281	2278178.31	604.54	SCIPIF
35	746423.3131	2278258.339	604.595	SCIPIF
37	746468.2344	2278538.101	604.823	SCIPPF
51	746454.2937	2275948.292	603.631	SCIPIF
52	746435.797	2276424.603	604.797	SCIPIF
96	746454.808	2276222.558	603.937	SCIPIF
97	746435.49	2275996.042	602.91	SCIPPF
98	746475.441	2275996.468	602.765	SCIPPF
99	746477.911	2276125.236	606.834	SCIPPF
137	746468.16	2278537.848	604.474	SCIPF (37 Reobserved - bent)



NO	REVISION	DATE

CITY OF MENTOR-ON-THE-LAKE

SOUTHLAND ROAD DRAINAGE SYSTEM IMPROVEMENTS

LAKE COUNTY, OHIO

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SURVEY CONTROL

PROJECT NO.	
210645	
DISCIPLINE	
CIVIL	
SHEET NAME	
SC-1	
SHEET	OF
14	14