

NORTHLAND DRIVE RECONSTRUCTION

VILLAGE OF KALIDA, OHIO

PUTNAM COUNTY, OHIO

Bockrath & Associates
 Engineering and Surveying, LLC
 115 South Fair Avenue, Suite A - Ottawa - Ohio
 Phone: 419.523.5789

2-11-26 FOR BIDS

SHEET INDEX:

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VICINITY MAP
 N 40° 59' 29" W 84° 12' 00"

DATE _____ JASON BIRKEMEIER
 MAYOR - VILLAGE OF KALIDA

DATE _____ GREGORY A. BOCKRATH P.E., P.S.
 BOCKRATH & ASSOCIATES
 ENGINEERING and SURVEYING, LLC

NOTE:
 THIS PROJECT SHALL BE IN ACCORDANCE
 WITH THE VILLAGE OF KALIDA CONSTRUCTION
 STANDARDS AS ADOPTED IN MARCH, 2006 &
 ALL SUBSEQUENTLY ADOPTED ADDENDUM,
 MODIFICATIONS AND/OR CLARIFICATIONS.

2 WORKING DAYS BEFORE YOU DIG!

OHIO Utilities Protection SERVICE
 www.oups.org

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 NON-MEMBERS MUST BE CALLED DIRECTLY

TITLE SHEET

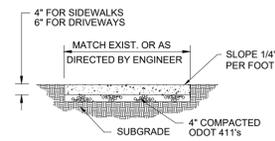
NORTHLAND DRIVE RECONSTRUCTION - EAST PHASE
 VILLAGE OF KALIDA, OHIO

REVISED	
REVIEWED BY: GAB	
DESIGNED BY: KMB	12-3-25
JOB NUMBER: 21-085	
SHEET - 1	
OF 7 SHEETS	

1/2-INCH EXPANSION JOINT TO BE INSTALLED WHERE SIDEWALK AND/OR DRIVES ABUT CURBS.

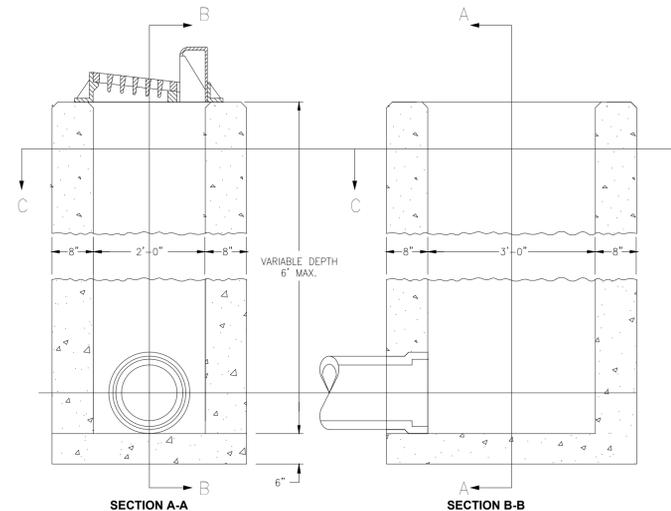
CONCRETE WALKS, DRIVES, AND CURB RAMPS SHALL BE REINFORCED AND DOWELED INTO THE PROPOSED CURBS.

TO CLARIFY, THIS APPLIES TO SIDEWALKS, DRIVE APRONS, AND CURB RAMPS. THE REINFORCING SHALL BE A #4 REBAR MAT IN THE CENTER OF THE CAST-IN-PLACE SLAB A MAXIMUM 4-FOOT ON CENTER AND ALSO THE DOWELS SHALL BE AT MAXIMUM 4-FOOT SPACING. THE DOWELS ALSO SHALL BE #4 REBAR AND DRILLED INTO THE CURB, SIDEWALK, DRIVE, ETC. SAID HOLES SHALL BE 3/4-INCH IN DIAMETER TO ALLOW FOR HORIZONTAL MOVEMENT.

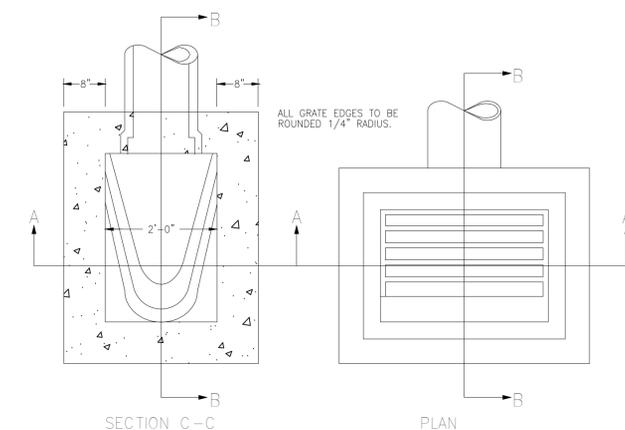


EXTERIOR CONCRETE:
THICKNESS - AS INDICATED ON PLANS
TYPE - ODOT CLASS 'C', OPTION 3
SPECS TO FOLLOW ODOT CMS
JOINT SPACING - CURB (10' MAX.)
SIDEWALKS (8' MAX.)
FINISH - BROOM W/ TOOLED JOINTS & EDGES
SEALING - BEARCOAT PREMIER OR APPROVED EQUAL

CONCRETE DRIVEWAY / SIDEWALK DETAIL



CATCH BASIN 2-2-B



NOTES
INLET BASIN: EAST JORDAN FRAME #7022, SINUSOIDAL CASTING AND GRATE OR APPROVED EQUAL (UNLESS OTHERWISE NOTED ON PLANS)
GRATE AND FRAME SHALL MEET THE REQUIREMENTS OF ODOT 604. THE DESIGN SHALL BE ESSENTIALLY THE SAME AND EQUALLY AS STRONG AS THE ONE SHOWN HEREON.
BOTTOM SLAB MAY BE PRECAST SEPARATELY AND THE OUTLET PIPE PLACED ON TOP OF IT WITH THE BOTTOM SHAPED TO DRAIN.
CONTRACTOR MAY USE PRECAST CATCH BASINS WITH KNOCK-OUT PANELS.

ROUNDING

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLY TO ALL CROSS-SECTIONS EVEN THOUGH OTHERWISE SHOWN.

UTILITIES

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

UTILITIES

LISTED BELOW ARE ALL THE UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS WITH THEIR RESPECTIVE OWNERS:

ELECTRIC: AMERICAN ELECTRIC POWER	TELEPHONE: KALIDA TELEPHONE COMPANY 121 E. MAIN STREET P.O. BOX 188 KALIDA, OHIO 45853 (419) 532.3218
NATURAL GAS: KMG ENERGY, INC. 1700 WESTFIELD DRIVE FINDLAY, OHIO 45840 (800) 434.3427	CABLE TELEVISION: KALIDA TELEPHONE COMPANY 121 E. MAIN STREET P.O. BOX 188 KALIDA, OHIO 45853 (419) 532.3218
WATER AND SEWER: VILLAGE OF KALIDA WATER/SEWER DEPARTMENT KALIDA, OHIO (419) 796.3899	

ELEVATION DATUM

ALL ELEVATIONS ARE BASED ON NAVD 88 DATUM.

WORK LIMITS

THE WORK LIMITS FOR THIS PROJECT SHALL BE ASSUMED TO BE ALL AREAS WITHIN THE EXISTING RIGHT-OF-WAY UNLESS OTHERWISE NOTED.

PROTECTION OF RIGHT-OF-WAY LANDSCAPING

PRIOR TO BEGINNING WORK, THE CONTRACTOR, THE PROJECT ENGINEER, AND A REPRESENTATIVE OF THE MAINTAINING AGENCY WILL REVIEW AND RECORD ALL LANDSCAPING ITEMS WITHIN THE RIGHT OF WAY (BOTH WITHIN AND OUTSIDE THE CONSTRUCTION LIMITS) A RECORD OF THIS REVIEW WILL BE KEPT IN THE PROJECT ENGINEERS FILES. PRIOR TO FINAL ACCEPTANCE, A FINAL REVIEW OF LANDSCAPING ITEMS WILL BE MADE. CONSTRUCT ALL ACTIVITIES, EQUIPMENT STORAGE, AND STAGING TO WITHIN THE CONSTRUCTION LIMITS.

CLEARING AND GRUBBING

REMOVE ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING.

MONUMENT ASSEMBLIES

CONTRACTOR SHALL NOTIFY ENGINEER WHEN INTERMEDIATE COURSE OF ASPHALT IS LAID. ENGINEER SHALL THEN COORDINATE INSTALLATION OF ALL ROADWAY MONUMENTATION. A LUMP SUM QUANTITY HAS BEEN PLACED IN THE ESTIMATED QUANTITIES.

PROOF ROLLING

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO ADDRESS LOCATIONS REQUIRING PROOF ROLLING.

ITEM 204 - PROOF ROLLING 2 HOURS

ITEM 659 - SEEDING AND MULCHING

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR ITEM 659 - SEEDING AND MULCHING, ARE BASED ON THESE LIMITS.

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE (TO INCLUDE BUT NOT LIMITED TO ALL LABOR, MATERIALS AND EQUIPMENT) FOR THE PERTINENT 603 CONDUIT ITEM.

RESIDENTIAL AND COMMERCIAL DRAINAGE CONNECTIONS

EXISTING ROOF DRAINS, FOOTER DRAINS, OR YARD DRAINS, DISTURBED BY THE WORK, SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS BY CONNECTING A CONDUIT THROUGH THE CURB OR INTO A DRAINAGE STRUCTURE. THE LOCATION, TYPE, SIZE AND GRADE OF THE NEW CONDUIT REQUIRED TO REPLACE OR EXTEND THE EXISTING DRAIN WILL BE DETERMINED BY THE ENGINEER.

CONTINGENCY QUANTITIES

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED FOR SUCH ITEMS SHALL BE INCORPORATED INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

MISCELLANEOUS WORK

ALL ITEMS OF WORK CALLED FOR ON THE PLANS FOR WHICH NO SPECIFIC METHOD OF PAYMENT IS PROVIDED SHALL BE PERFORMED BY THE CONTRACT AND THE COST OF THE SAME SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS RELATED ITEMS.

ITEM 407 - TACK COAT

ITEM 407 - TACK COAT FOR INTERMEDIATE COURSE

THE TACK COAT OPERATION SHALL BE AS PER 407.06 CMS. THE RATE OF APPLICATION OF THESE ITEMS SHALL BE SUBJECT TO ADJUSTMENT AS DIRECTED BY THE ENGINEER. FOR ESTIMATING PURPOSES ONLY, THE PLAN INDICATES AN AVERAGE APPLICATION RATE OF TACK COAT AT 0.075 GAL./S.Y. AND TACK COAT FOR INTERMEDIATE COURSE AT 0.050 GAL./S.Y.

ENVIRONMENTAL NOTES

IF ANY ARCHEOLOGICAL SITES OR HUMAN REMAINS ARE UNCOVERED DURING CONSTRUCTION, THE CONTRACTOR SHALL CEASE ALL WORK IMMEDIATELY AN CONTACT THE ENGINEER.

ITEM 609 - CURB, TYPE 2, AS PER PLAN

TYPE 2 CURB SHALL MEET ALL THE GENERAL REQUIREMENTS OF AS STATED IN THE SPECIFICATIONS AND STANDARD DRAWINGS WITH THE EXCEPTION OF THE FOLLOWING: 1) THE CURB WIDTH SHALL BE 2'-0" & 2) THE GUTTER PAN SLOPE SHALL BE 1/2" PER FOOT. SEE DETAIL ON SHEET 3.

SAFETY REQUIREMENTS

THE CONTRACTOR AND SUBCONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL FEDERAL, STATE AND LOCAL SAFETY REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SUBCONTRACTOR TO INITIATE AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.

REVIEW OF DRAINAGE FACILITIES

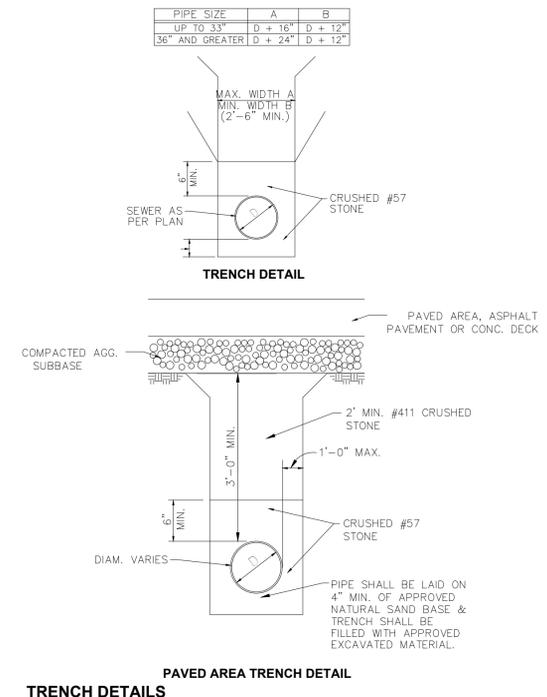
BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE STATE, REPRESENTATIVES OF THE STATE AND CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDITIONS AND THEIR APPURTENANCES SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE ENGINEER.

THE CONTRACTOR SHALL VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF EXISTING UTILITIES (AND SUBSEQUENT UTILITY CROSSINGS) PRIOR TO THE CONSTRUCTION AND/OR PLACEMENT OF ANY STORM SEWER STRUCTURES OR CONDUIT. IF A CONFLICT IS ANTICIPATED THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR THEIR PROJECT REPRESENTATIVE IMMEDIATELY. UPON DISCOVERY AND ANALYSIS, THE ENGINEER MAY ADJUST THE FLOW LINE OR MODIFY THE DEPTH OF THE STRUCTURE, OR CONDUIT, TO MITIGATE THE DISCOVERED CONFLICT.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE ENGINEER.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER AND NO ADDITIONAL COST TO THE PROJECT.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE (TO INCLUDE BUT NOT LIMITED TO LABOR, MATERIALS AND EQUIPMENT) SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 603 OR 604 ITEMS. NO ADDITIONAL COMPENSATION WILL BE AWARDED FOR ANY ADJUSTMENTS TO THE STORM SEWER CONDUIT OR STRUCTURES.



2-11-26 FOR BIDS

NOTES & DETAILS

NORTHLAND DRIVE RECONSTRUCTION - EAST PHASE
VILLAGE OF KALIDA, OHIO

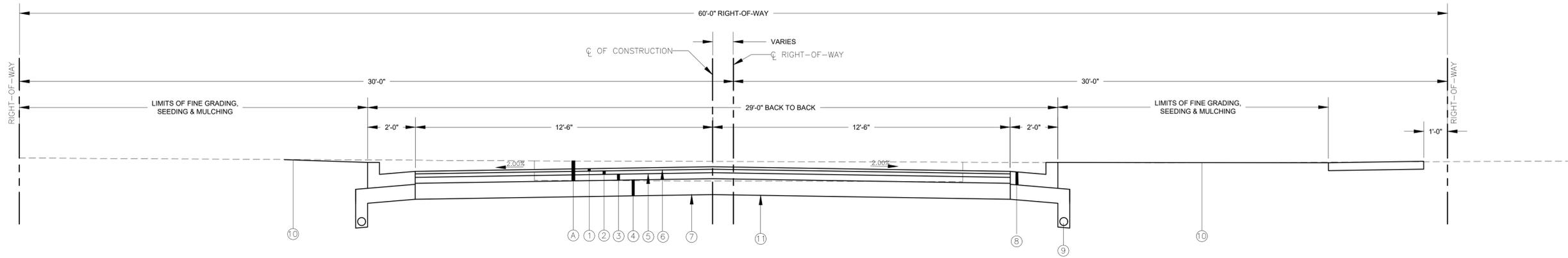
REVISED
REVIEWED BY: GAB
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SHEET - 2
OF 7 SHEETS

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TYPICAL SECTION
 NORTHLAND DRIVE RECONSTRUCTION - EAST PHASE
 VILLAGE OF KALIDA, OHIO

REVISED
 REVIEWED BY: GAB
 DESIGNED BY: KMB 12-3-25
 JOB NUMBER: 21-085
 SHEET - 3
 OF 7 SHEETS

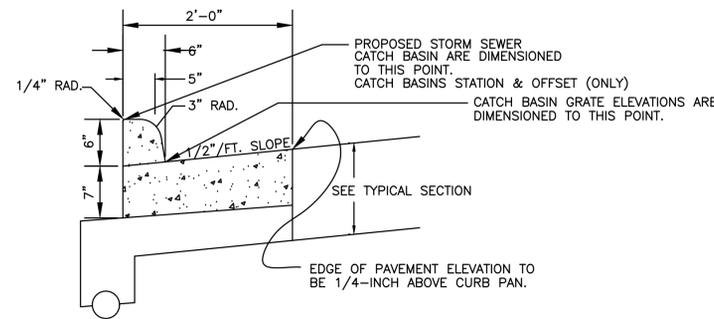


NORTHLAND DRIVE TYPICAL SECTION

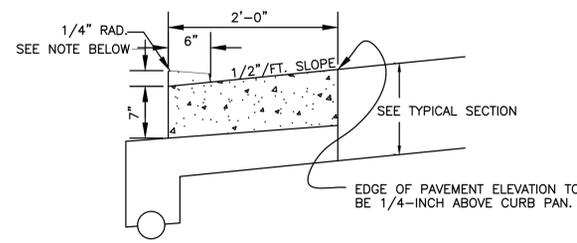
LEGEND

- ① ITEM 448 - 1.0" ASPHALT CONCRETE, SURFACE COURSE, TYPE 1, PG 64-22
- ② ITEM 448 - 2.0" ASPHALT CONCRETE, INTERMEDIATE COURSE, TYPE 2, PG 64-22
- ③ ITEM 301 - 3.0" ASPHALT BASE (PG64-22)
- ④ ITEM 304 - 9.0" AGGREGATE BASE
- ⑤ ITEM 407 - TACK COAT
- ⑥ ITEM 407 - TACK COAT FOR INTERMEDIATE COURSE
- ⑦ ITEM 204 - SUBGRADE COMPACTION
- ⑧ ITEM 609 - CURB, TYPE 2, AS PER PLAN
- ⑨ ITEM 605 - 4" SHALLOW UNDERDRAIN, WITH FABRIC FILTER WRAP*
- ⑩ FINISH GRADING, SEEDING AND MULCHING
- ⑪ MIRAFI 500X GEOTEXTILE, OR APPROVED EQUAL - AS DIRECTED BY ENGINEER
- (A) EXISTING PAVEMENT COMPOSITION:
 VARIABLE THICKNESS AGGREGATE BASE
 VARIABLE THICKNESS ASPHALT PAVEMENT

*UNDERDRAIN ON ENTIRE NORTH CURB. SEE CROSS SECTIONS FOR LOCATIONS AT SOUTH CURB.

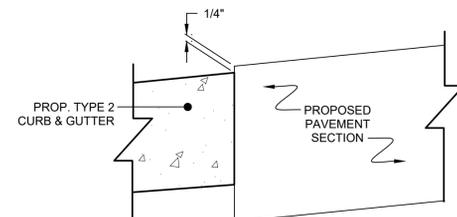


ITEM 609 - TYPE 2 CURB, AS PER PLAN

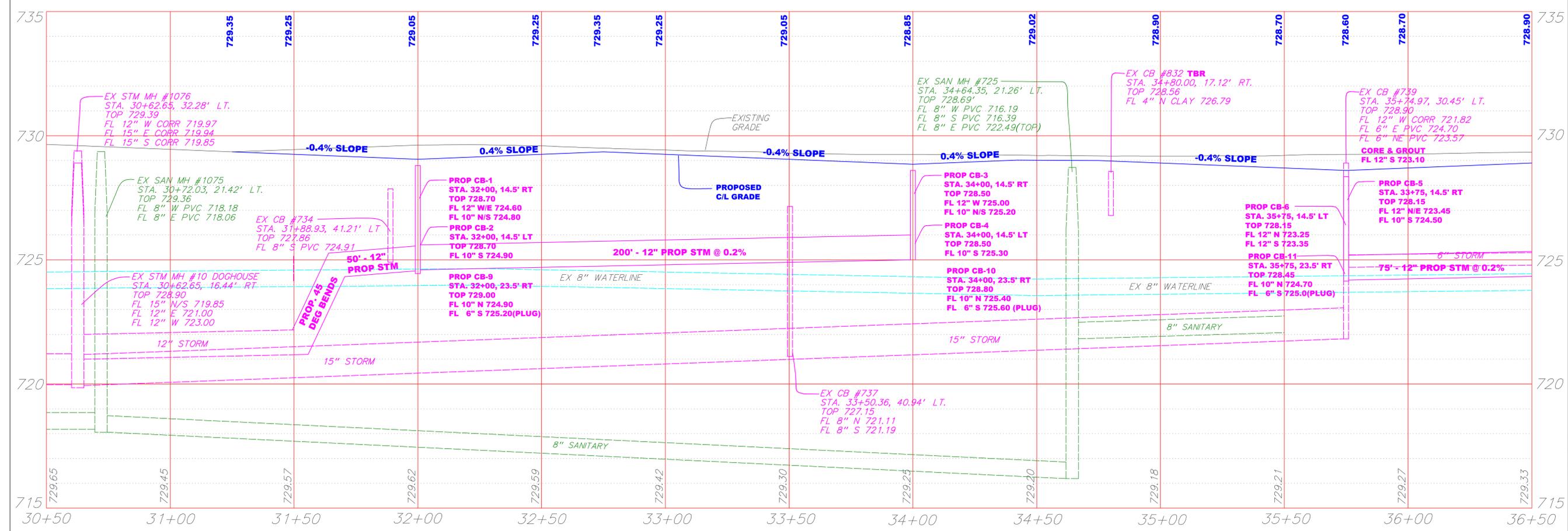
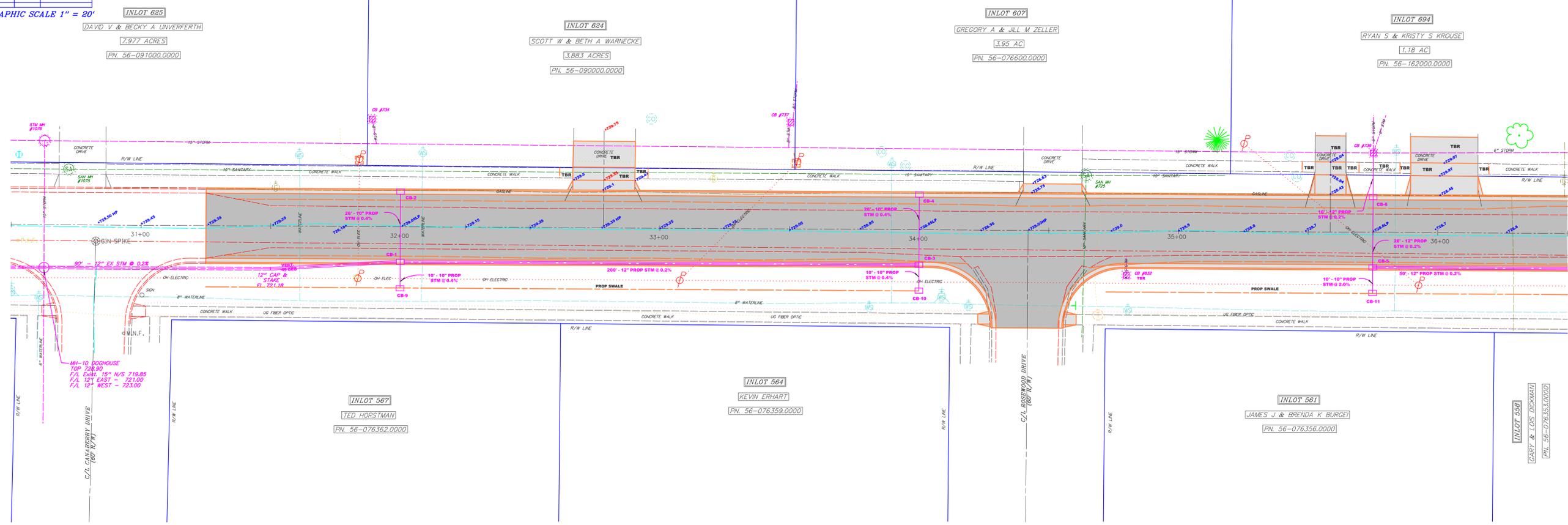
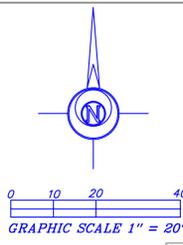


ITEM 609 - TYPE 2 CURB, AS PER PLAN (DRIVEWAYS)

NOTE:
 TYPICAL HEIGHT OF CURB SHALL BE 1-INCH



PAVEMENT AT CURB DETAIL



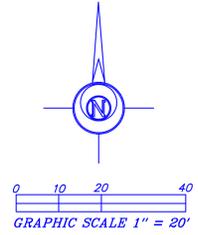
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PLAN & PROFILE
STA. 30+50 TO STA. 36+50
NORTHLAND DRIVE RECONSTRUCTION
VILLAGE OF KALIDA, OHIO

SCALE 1" = 20'
 JOB #21-085

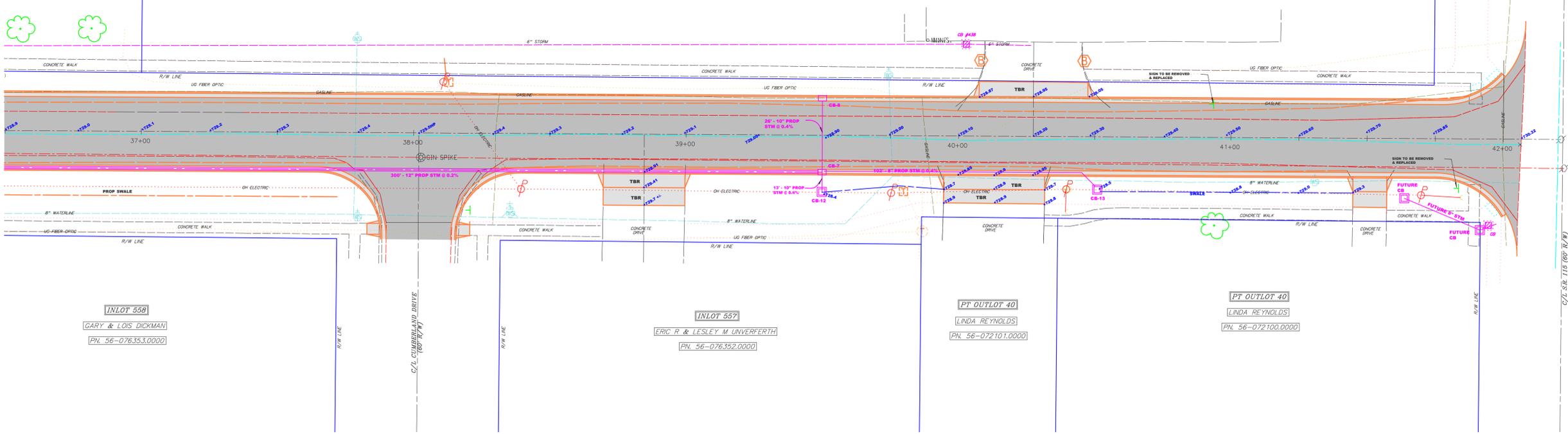
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 SHEET - 4
 OF 7 SHEETS

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INLOT 894
 RYAN S & KRISTY S KROUSE
 1.18 AC
 PN 56-162000.0000

MT PLEASANT CHURCH
 9.75 AC
 PN 56-076078.0400

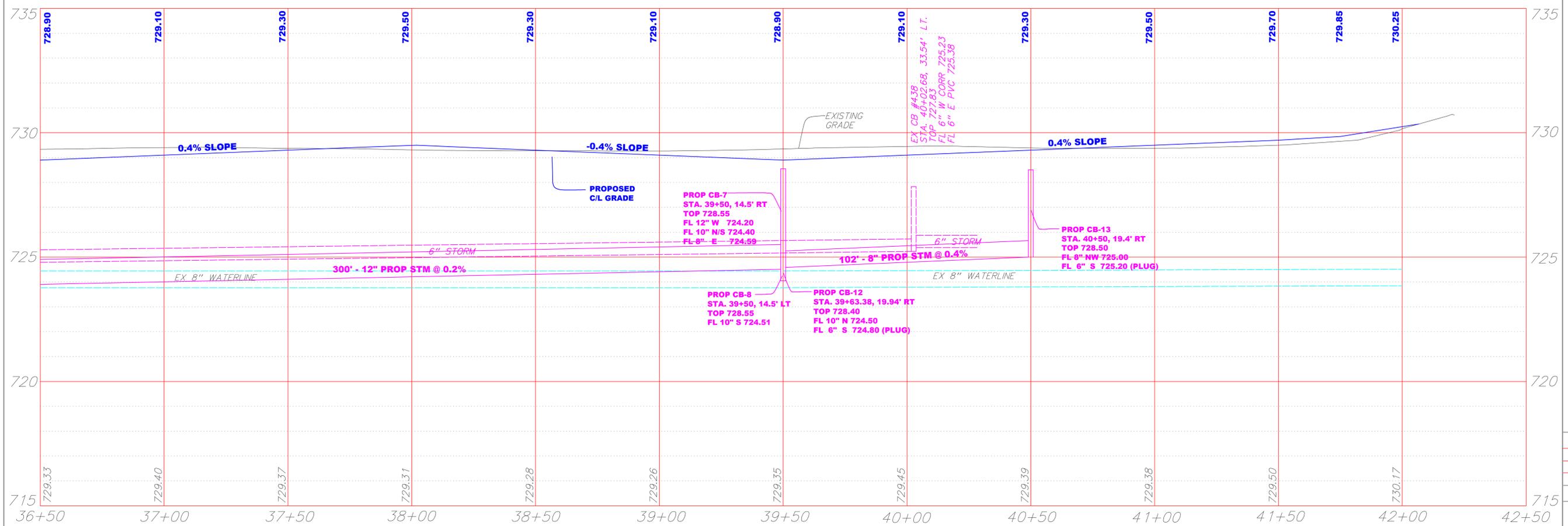


INLOT 558
 GARY & LOIS DICKMAN
 PN 56-076353.0000

INLOT 557
 ERIC R & LESLEY M UNVERFERTH
 PN 56-076352.0000

PT OUTLOT 40
 LINDA REYNOLDS
 PN 56-072101.0000

PT OUTLOT 40
 LINDA REYNOLDS
 PN 56-072100.0000



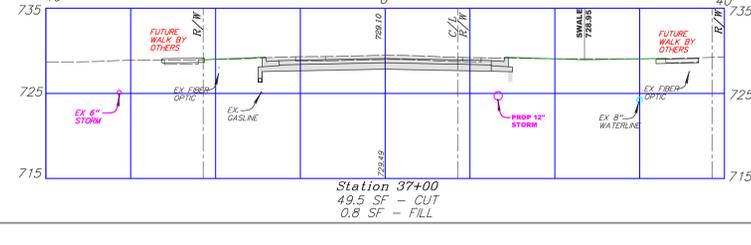
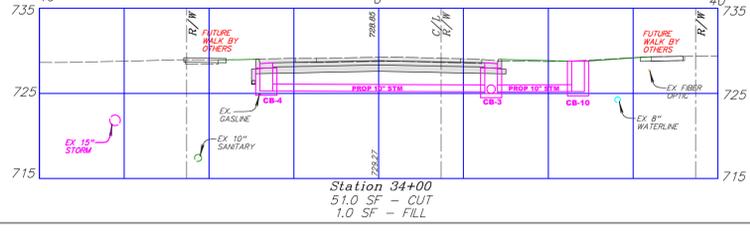
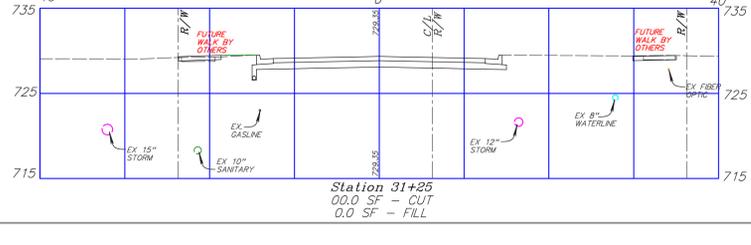
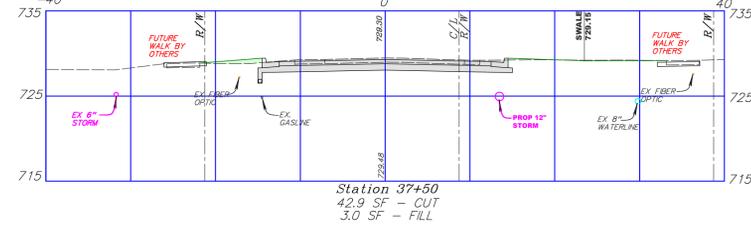
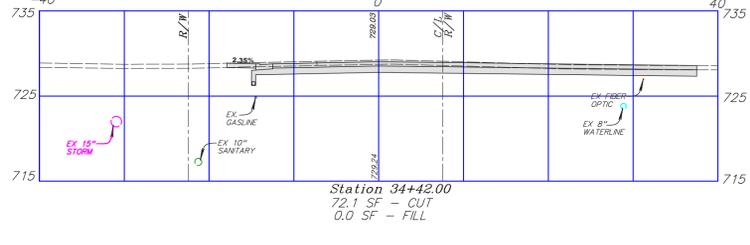
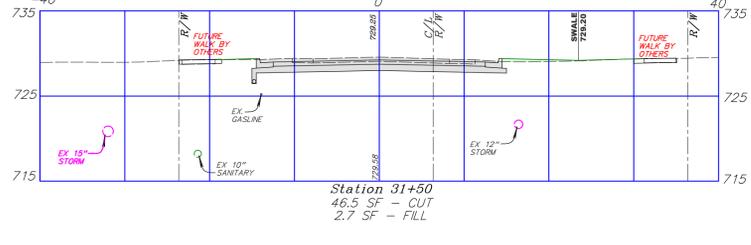
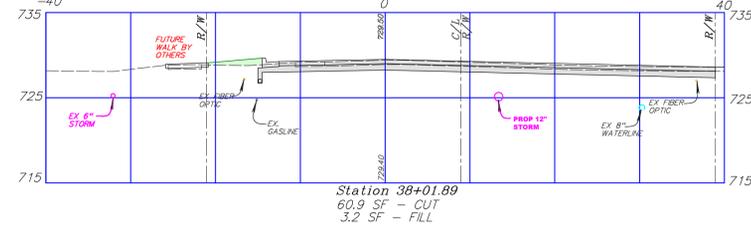
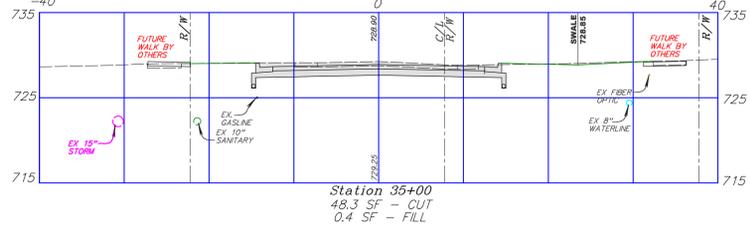
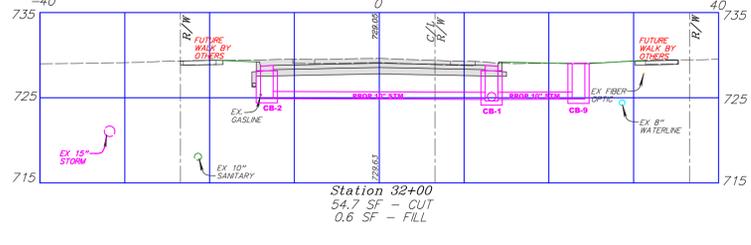
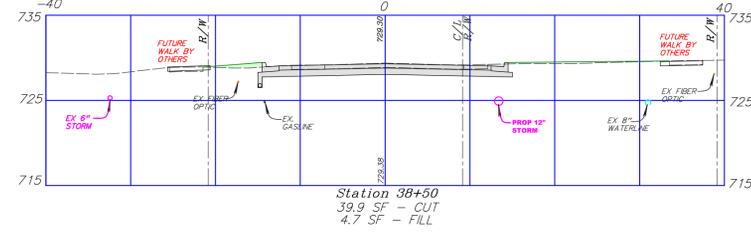
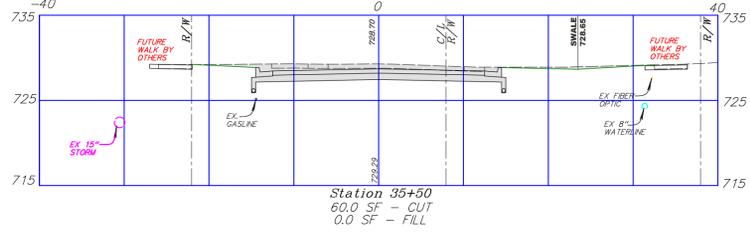
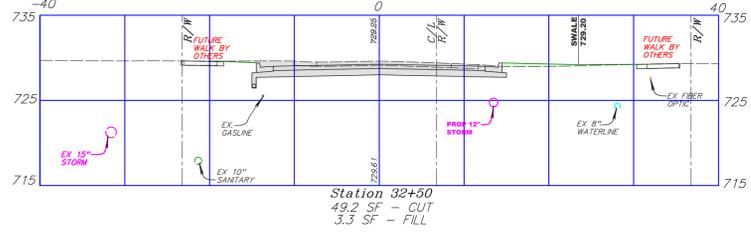
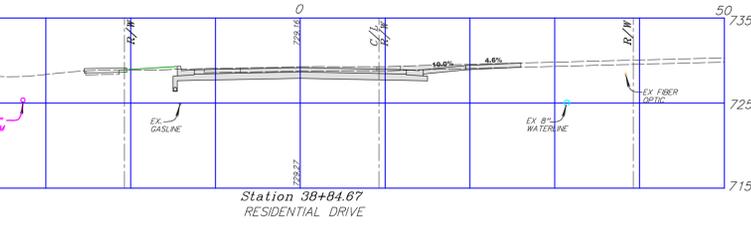
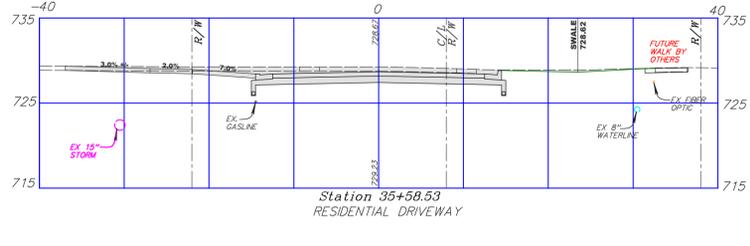
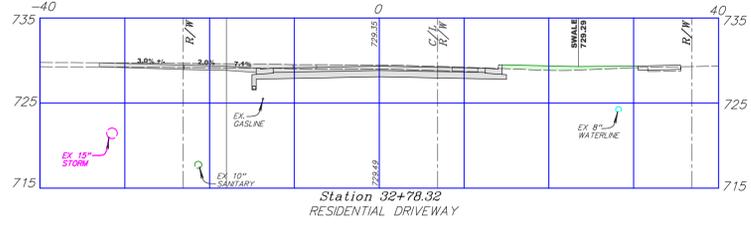
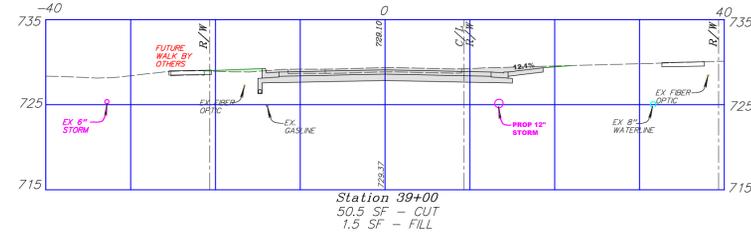
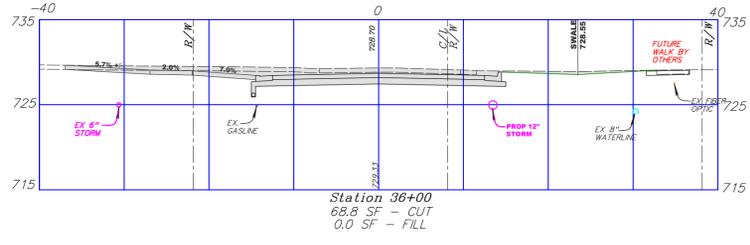
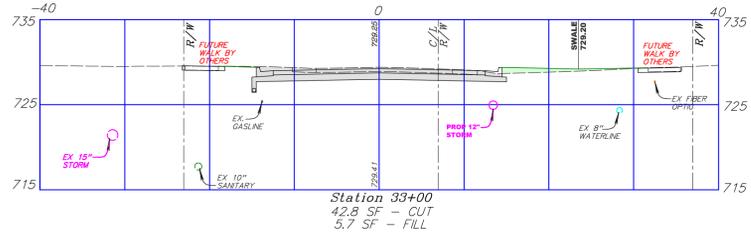
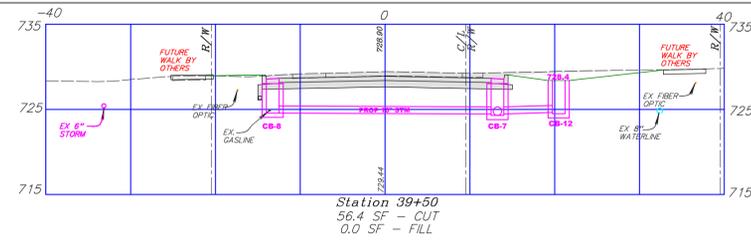
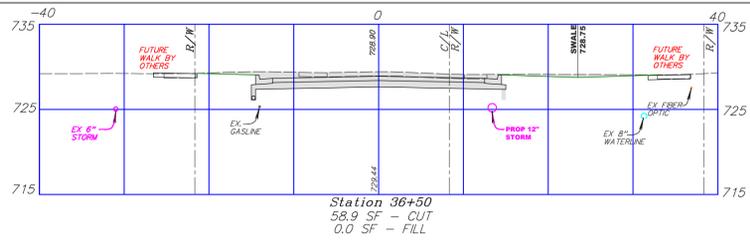
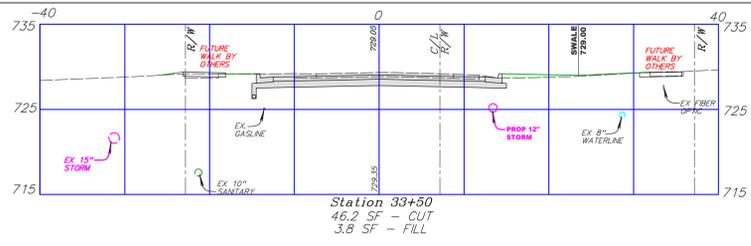
2-11-26 FOR BIDS

PLAN & PROFILE
STA. 36+50 TO STA. 42+50
NORTHLAND DRIVE RECONSTRUCTION
VILLAGE OF KALIDA, OHIO

SCALE 1" = 20'
 JOB #21-085

DRAWN BY KMB
 12-2-25
 SHEET - 5
 OF 7 SHEETS

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2-11-26 FOR BIDS

**CROSS SECTIONS
STA. 31+25 TO STA. 41+00
NORTHLAND DRIVE RECONSTRUCTION
VILLAGE OF KALIDA, OHIO**

SCALE: 1"=20' (11x17)
SCALE: 1"=10' (24x36)

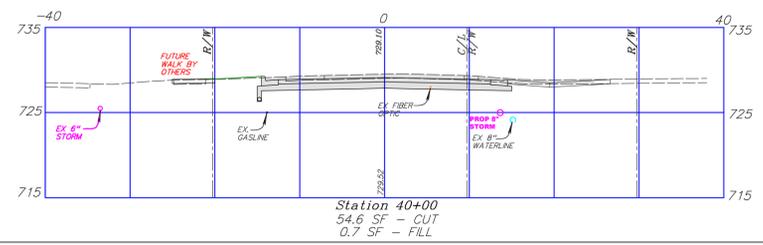
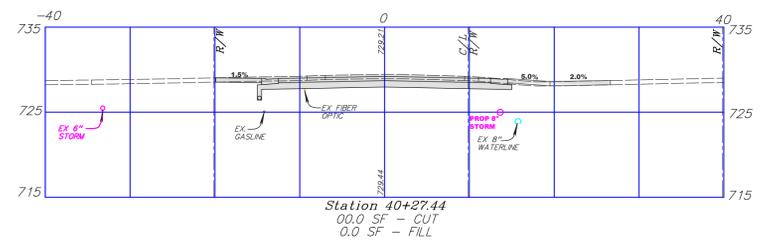
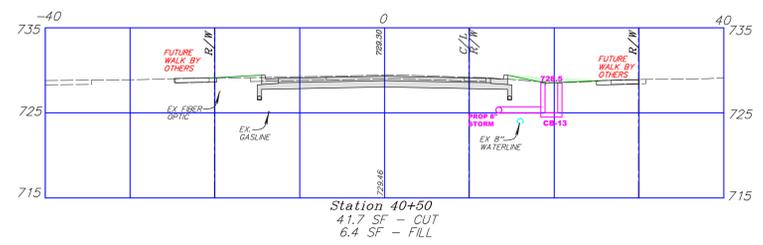
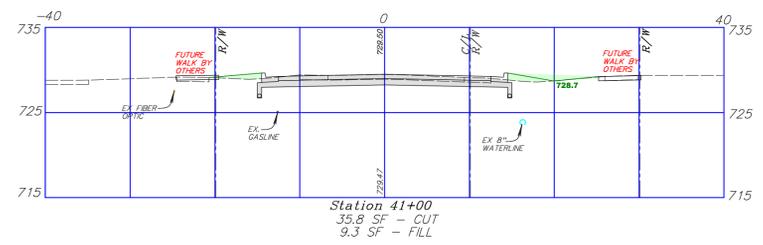
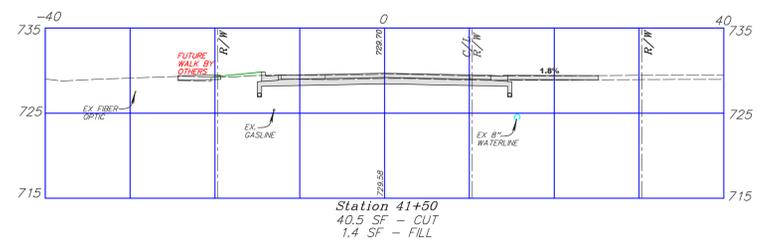
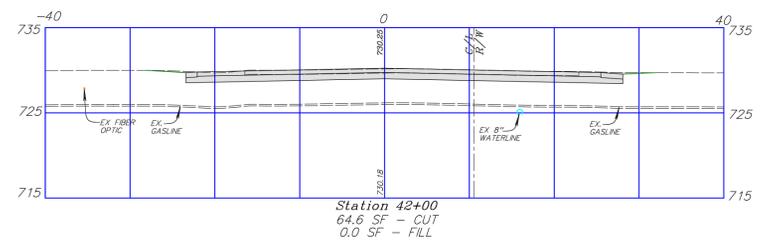
REVISED

DESIGNED BY KMB
12/2/25

SHEET - 6
OF 7 SHEETS

2-11-26 FOR BIDS

CROSS SECTIONS
STA. 41+50 TO STA. 42+00
NORTHLAND DRIVE RECONSTRUCTION
VILLAGE OF KALIDA, OHIO



SCALE: 1"=20' (11x17)
 SCALE: 1"=10' (24x36)

REVISED	
DESIGNED BY	KMB 12/2/25
SHEET - 7	
OF 7 SHEETS	