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CITY OF HOLLAND

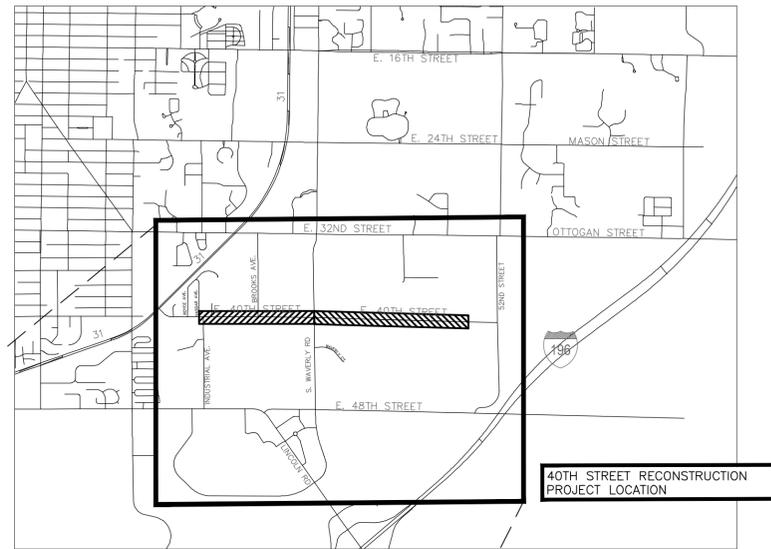
PLAN AND PROFILE OF PROPOSED 40TH STREET RECONSTRUCTION PROJECT

ALLEGAN COUNTY, MICHIGAN
JOB NUMBER: HO24001

40TH STREET FROM INDUSTRIAL AVE. TO EAST CITY LIMIT



TRAFFIC DATA						
ROUTE	2025 ADT	2045 ADT	COMMERCIAL %	POSTED SPEED	DESIGN SPEED	LOCATION
E. 40TH STREET	1,414	2,084	12%	40	45	INDUSTRIAL AVE TO S. WAVERLY



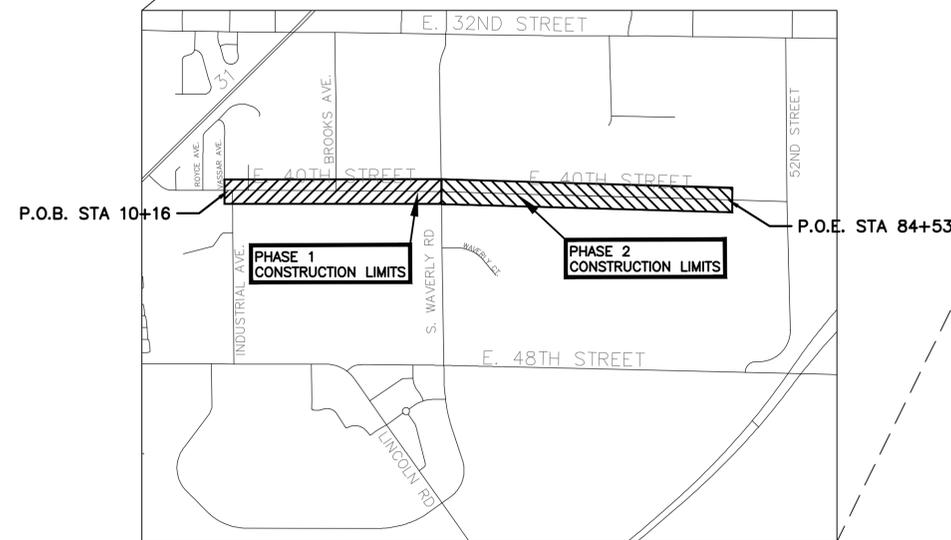
LOCATION MAP
1" = 1/2 MILE

THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE PERFORMED ACCORDING TO THE MICHIGAN DEPARTMENT OF TRANSPORTATION 2020 STANDARD SPECIFICATIONS FOR CONSTRUCTION, SPECIAL PROVISIONS, AND SUPPLEMENTAL SPECIFICATIONS.

THE PROPOSED IMPROVEMENTS COVERED BY THESE PLANS ARE DESIGNED IN ACCORDANCE WITH A POLICY ON DESIGN OF HIGHWAYS AND STREETS, AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO), 2018 EDITION, MMUTCD 2011 EDITION, AND THE MICHIGAN DEPARTMENT OF TRANSPORTATION LOCAL AGENCY PROGRAMS GUIDELINES FOR GEOMETRICS 2017 EDITION: SECTION C (4R), EXCEPT AS NOTED HEREIN.

ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE ACCORDING TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, MICHIGAN 2011 EDITION.

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 17,2013, THE CONTRACTOR SHALL DIAL 1-800-82-7171, A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE PART OF THE "MISS DIG" ALERT SYSTEM.



SITE MAP
1" = 500 FEET

HOLLAND BOARD OF PUBLIC WORKS

BRIAN RICHEY, P.E. #6201065244 _____ DATE _____

HOLLAND BOARD OF PUBLIC WORKS
ORGANIZATION

625 HASTINGS AVE HOLLAND, MI 49423
ADDRESS

(616) 355-1500
TELEPHONE NO.

CITY OF HOLLAND

BRIAN JAY WHITE, P.E. #6201050126 _____ DATE _____

CITY OF HOLLAND
ORGANIZATION

333 WYNGARDEN WAY HOLLAND, MI 49423
ADDRESS

(616) 928-2400
TELEPHONE NO.



TWO PHASE ROAD RECONSTRUCTION AND UTILITY REPLACEMENT PROJECT:
PHASE 1: FULL ROAD RECONSTRUCTION ON 0.605 MI. OF E. 40TH STREET AND UPSIZING THE EXISTING SANITARY SEWER AND WATER MAIN.
PHASE 2: FULL ROAD RECONSTRUCTION ON 0.742 MI. OF E. 40TH STREET AND INSTALLATION OF NEW STORM AND SANITARY SEWERS.

JOB NO. HO24001 SHEET 1 OF 37

SPALDING DEDECKER Engineering and Surveying
Excellence Since 1954
905 South Blvd. East, Rochester Hills, MI 48307
Phone: (248) 844-5400 | Fax: (248) 844-5404

PREPARED UNDER THE SUPERVISION OF:

LYNELLE E. BERKENPAS, P.E. #6201057578 _____ DATE _____

SPALDING DEDECKER
ORGANIZATION

905 E SOUTH BLVD, ROCHESTER HILLS, MI 48307
ADDRESS

(248) 844-5400
TELEPHONE NO.

LEGEND

- MANHOLE
- ⊕ CATCH BASIN
- CO SEWER CLEAN OUT
- ⊕ GAS METER
- ⊕ GAS SHUT OFF VALVE
- ⊕ VALVE BOX
- ⊕ GATE VALVE & WELL
- ⊕ WATER SHUT OFF VALVE
- ⊕ FIRE HYDRANT
- ⊕ SPRINKLER VALVE BOX
- ⊕ LAWN SPRINKLER HEAD
- UNVERIFIED MAPPED OBJECT
- ⊕ ELECTRIC RISER OR METER
- ⊕ TELEPHONE RISER
- ⊕ CABLE TV RISER
- ⊕ AIR CONDITION UNIT
- ⊕ UTILITY POLE
- ⊕ UTILITY POLE W/ LAMP EXTENSION (ARROW INDICATES DIRECTION OF ARM)
- ⊕ LIGHT POLE
- ⊕ LIGHT POLE WITH LAMP EXTENSION
- ⊕ TRAFFIC SIGNAL
- ⊕ POLE W/ TRAFFIC SIGNAL (OVER ROAD)
- GUY WIRE
- ⊕ GROUND LEVEL / DECORATIVE LIGHTING
- ⊕ FLAG POLE
- METAL OR CONC. POST
- ⊕ MAILBOX
- ⊕ SIGN
- ⊕ WATER FOUNTAIN
- ⊕ PARKING METER
- ⊕ BILLBOARD OR LARGE SIGN
- ⊕ BASKETBALL HOOP
- ⊕ BOULDER
- ⊕ STATUE OR SCULPTURE
- ⊕ BENCH
- ⊕ BIKE RACK
- ⊕ DETECTABLE WARNING STRIP
- ⊕ PICNIC TABLE
- ⊕ SOCCER GOAL
- STUMP
- ⊕ DS-S DOWNSPOT INTO STORM DRAIN
- ⊕ DS-G DOWNSPOT TO GROUND
- CONIFEROUS TREE
- DECIDUOUS TREE
- ✱ DECIDUOUS SHRUB
- ✱ CONIFEROUS SHRUB
- ⊕ SECTION CORNER
- △ SDA#10 TRAVERSE POINT
- ① STRUCTURE NUMBER
- ② SDA POINT No.
- ③ SPOT ELEVATION
- TC TOP OF CURB ELEVATION
- GU GUTTER ELEVATION
- TP TOP OF PAVEMENT ELEVATION
- EM EDGE OF METAL ELEVATION
- TW TOP OF WALK ELEVATION
- TWALL TOP OF WALL ELEVATION
- BWALL BOTTOM OF WALL ELEVATION
- GR GROUND ELEVATION
- UG UNDERGROUND
- FO FIBER OPTIC
- CONC CONCRETE
- ASPH ASPHALT
- OVHG OVERHANG
- FG FUTURE GROUND ELEVATION
- DL DOOR EDGE ELEVATION
- F.I. FOUND IRON
- F.I.P. FOUND IRON PIPE
- MON FOUND MONUMENT
- F.P.K. FOUND P.K. NAIL
- S.I. SET IRON W/SDA CAP
- S.P.K. SET P.K. NAIL
- S.P.K./TAG SET P.K. NAIL W/SDA TAG
- MAG/TAG SET MAGNETIC NAIL W/SDA TAG
- M MEASURED
- R RECORD
- C CALCULATED
- INV. INVERT ELEVATION
- CMP CORRUGATED METAL PIPE
- ⊕ GAS
- ⊕ SH SANITARY SEWER (SH)
- ⊕ ST STORM SEWER (STM)
- ⊕ WM WATERMAIN (WM)
- ⊕ OH OVERHEAD WIRE
- ⊕ CS COMBINED SEWER
- ⊕ STE STEAM LINE
- OIL LINE
- F UG FIBER (COMM.)
- E UG ELECTRIC (ELEC.)
- PH UG PHONE (PH)
- C UG CABLE (CBL)
- ⊕ CHAIN LINK FENCE (CL)
- ⊕ WOOD FENCE
- ⊕ WOVEN WIRE FENCE (WW)
- ⊕ GUARD RAIL
- ⊕ EDGE OF BRUSHWOODS
- ⊕ CENTERLINE OF DITCH
- ⊕ CULVERT
- ⊕ MAJOR CONTOUR
- ⊕ MINOR CONTOUR
- ⊕ BOUNDARY LINES
- ⊕ ROW LINES
- ⊕ SECTION LINES
- ⊕ PROPERTY LINES
- ⊕ BUILDING
- ⊕ ASPHALT
- ⊕ CONCRETE
- ⊕ GRAVEL / DIRT / MULCH
- ⊕ BRICK / PAVERS
- ⊕ WATER
- ⊕ WATER W/ VEGETATION

GENERAL PLAN NOTES

UNDERGROUND UTILITIES

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 53, 1974, THE CONTRACTOR SHALL DIAL 1-800-462-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

EXISTING WATER MAINS AND SANITARY MAINS

THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING UNDERGROUND UTILITIES AND APPURTENANCES DURING THE CONSTRUCTION OF THE PROPOSED ROAD AND UNDERGROUND STRUCTURES. THE HOLLAND BPW WILL STAKE EXISTING SANITARY SEWERS, LATERALS, WATER MAINS, AND WATER SERVICES. TELEPHONE 365-1644 FOR LOCATIONS.

EXISTING UTILITY ELEVATIONS

LOCATION AND SIZE OF EXISTING UNDERGROUND UTILITIES SHOWN THROUGHOUT THESE DOCUMENTS WERE ESTABLISHED FROM THE BEST AVAILABLE INFORMATION. THE INFORMATION SHOULD NOT BE INTERPRETED AS EXACT NOR SHOULD THOSE MARKED FACILITIES BE ASSUME TO BE THE ONLY UTILITIES IN THE AREA. NEITHER ENGINEER OR OWNER GUARANTEES THIS INFORMATION TO BE FULLY ACCURATE OR COMPLETE.

PROTECTION OF THE WORKSITE

THE CONTRACTOR SHALL CONDUCT OPERATIONS SUCH THAT THERE ARE NO OPEN EXCAVATION AREAS LEFT UNATTENDED DURING THE DAY OR OVERNIGHT. IF THE CONTRACTOR IS UNABLE TO DO THIS, PROTECTIVE FENCING SHALL BE PROVIDED AND ERECTED TO COMPLETELY ENCLOSE THE OPEN EXCAVATION AREA AT CONTRACTOR'S EXPENSE.

PAVEMENT MARKINGS

ALL PERMANENT PAVEMENT MARKINGS, SHAPES AND DIMENSIONS SHALL CONFORM WITH MDT PAVEMENT MARKING TYPICALS PAVE-900 THRU 985 SERIES UNLESS SPECIFIED OTHERWISE BY SPECIAL PROVISION OR AS SHOWN ON THE PLANS.

MATERIAL HANDLING AND STORAGE

MATERIAL DELIVERED TO THE CONSTRUCTION SITE SHALL BE NEATLY AND COMPACTLY PLACED ALONG THE SIDES OF THE ROADWAY IN SUCH A WAY AS TO CAUSE THE LEAST INCONVENIENCE TO PROPERTY OWNERS AND THE GENERAL PUBLIC AND IS NOT TO BE PLACED WITHIN TWENTY (20) FEET OF ANY FIRE HYDRANT. PRIVATE DRIVES AND STREET CROSSINGS SHALL BE PROTECTED FROM DAMAGE AND CLEAR LINE-OF-SIGHT MAINTAINED.

MONUMENT BOXES

IT IS THE INTENT THAT ALL GOVERNMENT CORNERS, SHOWN OR NOT SHOWN ON THIS PROJECT, BE PRESERVED AND THAT MONUMENT BOXES BE PLACED OR ADJUSTED WHERE NECESSARY. ALL PROPERTY IRONS AND MONUMENTS, IF DISTURBED OR DESTROYED BY THE CONTRACTOR'S OPERATION, SHALL BE REPLACED BY A LICENSED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE. THIS WORK WILL INCLUDE TEMPORARY WITNESSING, INSTALLATION OF NEW MONUMENTS, PERMANENT WITNESSING, AND RECORDING ACCORDING TO THE APPROPRIATE MICHIGAN PUBLIC ACTS.

DEWATERING / BYPASS PUMPING

PAYMENT FOR ANY DEWATERING OR BYPASS PUMPING PERFORMED DURING THE PROJECT SHALL BE INCLUDED IN THE PAY ITEMS PROVIDED AND WILL NOT BE MEASURED OR PAID FOR SEPARATELY.

SAWCUTTING

DOUBLE SAWCUTTING FULL DEPTH PRIOR TO REMOVALS SHALL BE REQUIRED AT THE LIMITS OF REMOVAL OF SIDEWALK, APPROACHES, CURB AND GUTTER AND PAVEMENT AS DETERMINED BY THE ENGINEER. PAYMENT FOR ALL SAW CUTS SHALL BE INCLUDED IN ITEMS PROVIDED.

ECHELON PAVING

THE SURFACE COURSE SHALL BE PLACED USING ECHELON PAVING. TWO PAVERS SHALL BE MOBILIZED TO THE JOB SITE AND WORK SIMULTANEOUSLY TO CONSTRUCT HOT CONSTRUCTION JOINTS ALONG THE PROPOSED LANE LINES (UNDER PAVEMENT MARKINGS), UNLESS OTHERWISE DIRECTED BY THE ENGINEER. ALL COSTS FOR THIS WORK SHALL BE INCLUDED IN THE MAINLINE PAVING PAY ITEM. ANY SIDE STREET AND APPROACH WORK SHALL BE PAVED PRIOR TO THE MAINLINE PAVING. THE MAINLINE PAVERS SHALL NOT PICK UP TO DO ADJACENT WORK ONCE THE MAINLINE PAVING HAS BEGUN.

PAVEMENT REMOVAL

PAVEMENT REMOVAL AS SHOWN ON THE PLANS SHALL BE AT THE DISCRETION OF THE ENGINEER. IF IN HIS JUDGMENT, AREAS OF PAVEMENT MAY BE LEFT IN PLACE, OR ADDITIONAL AREAS ADDED TO PROVIDE THE PROPER CROSS-SECTION AND BASE, ADJUSTMENTS MAY BE MADE IN THE QUANTITIES.

SOIL EROSION MEASURES

PLACE TEMPORARY SEED AND MULCH AS SOON AS POSSIBLE. THE CONTRACTOR SHALL REMOVE ACCUMULATIONS OF DEBRIS CAUSED BY HIS OPERATIONS. PAVEMENT SHALL BE CLEANED AT THE END OF EACH DAY. ALL CATCH BASIN INLETS SHALL BE FITTED WITH FABRIC DROPS AND MAINTAINED THROUGHOUT THE PROJECT.

NOISE

THE CONTRACTOR SHALL TAKE SPECIAL MEASURES TO LIMIT NOISE FROM EQUIPMENT AND TEMPORARY FACILITIES THAT ARE PERMITTED BY THE ENGINEER TO OPERATE OUTSIDE OF NORMAL WORKING HOURS, SUCH AS DEWATERING PUMPS, GENERATORS, ETC. NOISE REDUCING MEASURES SUCH AS MUFFLERS, QUIET PACKS, SOUND BARRIERS, ETC. SHALL BE UTILIZED SO THAT BETWEEN THE HOURS OF 7:00 P.M. AND 7:00 A.M., THE CONTRACTOR SHALL LIMIT THE AMBIENT NOISE LEVEL TO BELOW 75 DECIBELS AS MEASURED AT THE NEAREST RIGHT-OF-WAY LINE. MULTIPLE NOISE REDUCING MEASURES MAY BE REQUIRED FOR EACH FACILITY OR PIECE OF EQUIPMENT. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT IS CONSIDERED AS HAVING BEEN INCLUDED IN THE CONTRACT UNIT PRICES BID FOR RELATED ITEMS OF WORK.

SIGNS

PERMANENT SIGNS SHALL BE SALVAGED, MAINTAINED AND RE-INSTALLED AS INDICATED ON THE PLANS AT LOCATIONS APPROVED BY THE ENGINEER AND SHALL CONFORM TO MDT SIGNING TYPICAL PLANS SIGN-100 THRU 890 SERIES UNLESS SPECIFIED BY SPECIAL PROVISION. ALL STOP SIGNS SHALL BE KEPT IN SERVICE THROUGHOUT THE ENTIRE PROJECT.

EMERGENCY & GENERAL ACCESS

THE CONTRACTOR SHALL AT ALL TIMES PROVIDE EMERGENCY ACCESS TO THE PROPERTY IN THE VICINITY OF THE CONSTRUCTION FOR POLICE AND FIRE EQUIPMENT. REASONABLE ACCESS MUST BE MAINTAINED TO COMMERCIAL ESTABLISHMENTS AND RESIDENCES AT ALL TIMES. THE CONTRACTOR SHALL GIVE PROPERTY OWNERS WRITTEN NOTICE 3 WORKING DAYS PRIOR TO DRIVEWAY CONSTRUCTION OR CLOSURES.

TEMPORARY ACCESS

TEMPORARY GRAVEL FOR DRIVEWAYS, INTERSECTIONS, ETC. SHALL BE INSTALLED AT THE DIRECTION OF THE ENGINEER AND SHALL BE PAID AS: "MAINTENANCE GRAVEL."

INSPECTION

IN NO INSTANCE WILL ANY ACTION OR OMISSION ON THE PART OF THE INSPECTOR RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF COMPLETING THE WORK ACCORDING TO THE PLANS AND SPECIFICATIONS, IN ACCORDANCE WITH SECTION 104.01C OF THE MDT 2020 STANDARD SPECIFICATIONS FOR CONSTRUCTION.

MATERIAL DISPOSITION

SIGNED RELEASES MUST BE OBTAINED AND PROVIDED TO THE CITY/BPW BEFORE ANY SOIL IS DEPOSITED ONTO PRIVATE PROPERTY.

UTILITY POLES

THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN AND PROTECT UTILITY POLES ADJACENT TO EXCAVATIONS AND CONSTRUCTION RELATED OPERATIONS, INCLUDING BUT NOT LIMITED TO, HOLDING THE POLES IN PLACE DURING EXCAVATION OPERATIONS. THE CONTRACTOR SHALL CONTACT THE BPW OR OTHER UTILITY A MINIMUM OF 24 HOURS PRIOR TO ANY EXCAVATION, WITHIN A DISTANCE EQUAL TO THE DEPTH (GREATER THAN 3 FEET) OF THE PROPOSED EXCAVATION NEAR A UTILITY POLE. FOR APPROVAL OF THE METHOD THE CONTRACTOR INTENDS TO USE TO MAINTAIN AND PROTECT THE POLES. THE COST TO MAINTAIN AND PROTECT UTILITY POLES SHALL BE CONSIDERED INCLUDED IN THE PAY ITEMS PROVIDED.

CONCRETE FINISH

SIDEWALK AND OTHER FLATWORK SHALL BE TEXTURED WITH MEDIUM BROOM FINISH.

CONCRETE

NO HIGH EARLY CONCRETE SHALL BE PERMITTED TO BE PLACED ONSITE WITHOUT SPECIFIC WRITTEN AUTHORIZATION FROM THE ENGINEER.

TURF RESTORATION

PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE PAY ITEMS _SLOPE RESTORATION, MODIFIED AND _SLOPE RESTORATION, SECOND SEEDING.

SOIL BORINGS

SOIL BORING INFORMATION IS DEPICTED IN THE REMOVAL SHEETS FOR REFERENCE ONLY. THE GEOTECHNICAL REPORT BY SOILS AND STRUCTURES ON SEPTEMBER 17 2024 IS AVAILABLE IN THE REQUEST FOR PROPOSALS FOR ADDITIONAL INFORMATION.

NOTES APPLYING TO STANDARD PLANS

WHERE THE FOLLOWING ITEMS ARE CALLED FOR ON THE PLANS, THEY ARE TO BE CONSTRUCTED ACCORDING TO THE STANDARD PLAN GIVEN BELOW OPPOSITE EACH ITEM UNLESS OTHERWISE INDICATED. PLEASE NOTE THE DETAILS PRESENTED BELOW ARE FROM THE CURRENT EDITION OF THE MDT ROAD AND BRIDGE STANDARD PLANS.

STANDARD PLANS

DRAINAGE STRUCTURES	R-1-G
COVER B	R-7-F
COVER D	R-9-D
FOR USE IN VALLEY GUTTER SECTIONS	
MONUMENT BOXES	R11-E
COVER G	R-12-E
FOR USE IN YARD AREAS	
COVER K	R-15-G
FOR USE IN CURBED AREAS	
CURB RAMP AND DETECTABLE WARNING DETAILS	R-28-K
DRIVEWAY OPENINGS & APPROACHES, AND CONCRETE SIDEWALKS	R-29-J
CONCRETE CURB AND CONCRETE CURB & GUTTER	R-30-G
GRANULAR BLANKET, UNDERDRAINS, OUTLET ENDINGS FOR UNDERDRAINS, AND SEWER BULKHEADS	R-80-F*
UTILITY TRENCHES	R-83-C
SOIL EROSION & SEDIMENTATION CONTROL MEASURES	R-96-E
SEEDING AND TREE PLANTING	R-100-I*
	*(SPECIAL DETAIL)

TRAFFIC AND SAFETY STANDARD PLANS

GROUND DRIVEN SIGN SUPPORTS FOR TEMP SIGNS	WZD-100-A
TEMPORARY TRAFFIC CONTROL DEVICES	WZD-125-E

MISC QUANTITIES		
Item	Quantity	Unit
Mobilization, Max 10%	1	Lsum
Sewer, Rem, Less than 24 inch	100	Ft
_Vertical Exploration	4	Ea
_Subgrade Undercutting, Type II	200	Cyd
_Machine Grading, Modified	74	Sta
Erosion Control, Silt Fence	200	Ft
_Tree Preservation	1	Lsum
_Concrete Washout Area	2	Ea
_Gate Box, Adj, Case 1	7	Ea
_Television Laterals Post-Construction (Sanitary)	1	Lsum
_Television Laterals Pre-Construction (Sanitary)	1	Lsum
_Television Sanitary Main Post-Construction (Sanitary)	1	Lsum
_Television Sanitary Main Pre-Construction (Sanitary)	1	Lsum
Video Taping Sewer and Culv Pipe	100	Ft
_Yard Drain	100	Ft
Maintenance Gravel	200	Ton
Non Haz Contaminated Material Handling and Disposal, LM	100	Cyd
Hand Patching	10	Ton
_Irrigation System Repair, Allowance	20000	Dir
_Slope Restoration, Modified	9875	Syd
Mulch Blanket	100	Syd
Monument Box	3	Ea
Monument Preservation	3	Ea
Tree, Rem, 6 inch to 18 Inch	6	Ea
_Audio-Visual Route Survey	1	Lsum

QUANTITIES - PAVEMENT MARKINGS & SIGNING		
Item	Quantity	Unit
Sign, Type II, Erect, Salv	3	Ea
Pavt Mrkg, Polyurea, Railroad Sym	2	Ea
Pavt Mrkg, Polyurea, Lt Turn Arrow Sym	6	Ea
Pavt Mrkg, Polyurea, Rt Turn Arrow Sym	3	Ea
Pavt Mrkg, Polyurea, 4 inch, Yellow	16315	Ft
Pavt Mrkg, Polyurea, 4 inch, White	14660	Ft
Pavt Mrkg, Polyurea, 6 inch, Crosswalk	560	Ft
Pavt Mrkg, Polyurea, 24 Inch, Stop Bar	260	Ft

UTILITY CONTACTS

ELECTRIC "MISSDIG" 811
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 JASON BROWN
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 BD1636@ATT.COM



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Holland
 MICHIGAN



Know what's below.
 Call before you dig.

PRIOR TO CONSTRUCTION, ALL LOCATIONS AND DEPTHS OF EXISTING UTILITIES (IN CONFLICT WITH PROPOSED IMPROVEMENTS) SHALL BE VERIFIED IN THE FIELD. CALL MISS DIG 3 WORKING DAYS PRIOR TO CONSTRUCTION.

UTILITY NOTE

UTILITY INFORMATION ON THIS DRAWING MAY BE FROM INFORMATION DISCLOSED TO THIS FIRM BY THE VARIOUS UTILITY COMPANIES, CITY/COUNTY AGENCIES AND OTHER VARIOUS SOURCES. UNDERGROUND UTILITIES WHICH ARE ON PRIVATE PROPERTY ARE USUALLY NOT DELINEATED UPON A UTILITY COMPANY'S PUBLISHED PLANS. THEIR LOCATION, IF SHOWN UPON THIS SURVEY, ARE APPROXIMATED FROM FOUND PAINT MARKS/STAKES, ETC. AS LOCATED BY THIS FIRM FROM SOURCES WHICH ARE UNKNOWN. NO GUARANTEE IS GIVEN AS TO THE COMPLETENESS OR ACCURACY THEREOF.

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40TH STREET RECONSTRUCTION

GENERAL NOTES

SECTION 04/05

TOWN 4N RANGE 15W

CITY/TOWNSHIP HOLLAND

COUNTY ALLEGAN

NO.	DATE	SUBMITTAL

VERIFY SCALES

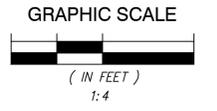
BAR IS ONE INCH ON ORIGINAL DRAWING
 IF NOT ONE INCH ON THIS SHEET,
 ADJUST SCALES ACCORDINGLY

DRAFTER A. TEMPLE	03-04-26
DESIGNER A. TEMPLE	03-04-26
CHECKED BY C. HARRINGTON	03-04-26
PROJECT MANAGER L. BERKENPAS	03-04-26
DEPARTMENT MANAGER APPROVAL J. SCHROT	03-04-26

JOB NO. H024001	DRAWING NO. H024001N01
SCALE: NTS	SHEET NO. 2 OF 37



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40TH STREET RECONSTRUCTION

TYPICAL SECTIONS 1

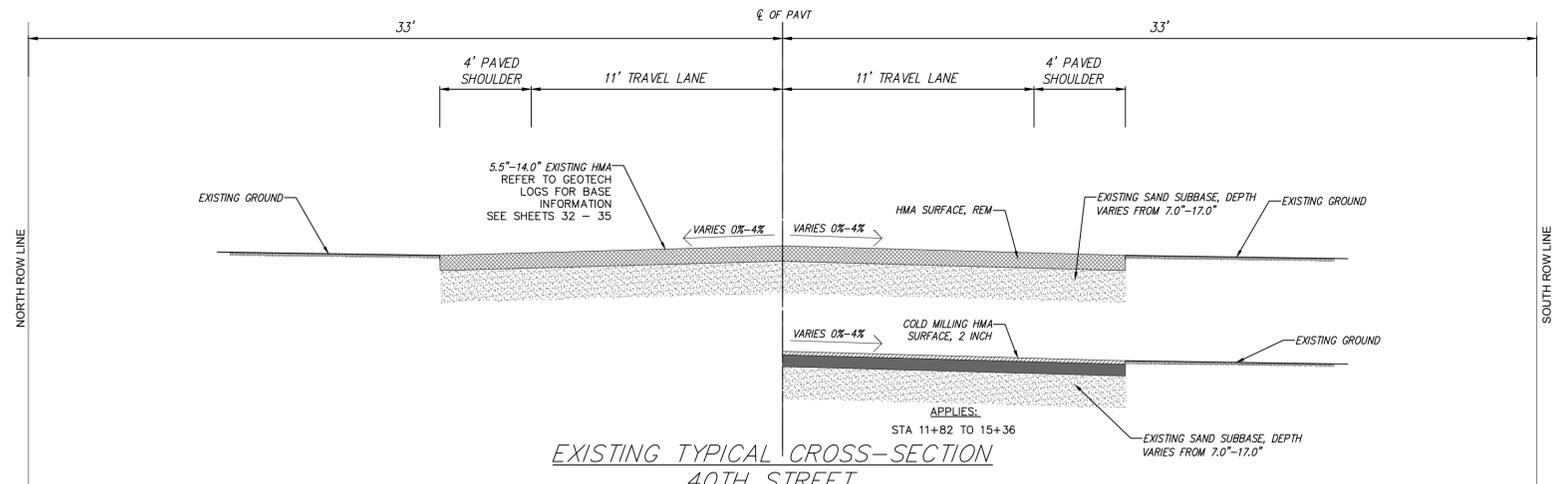
SECTION 04/05
 TOWN 4N RANGE 15W
 CITY/TOWNSHIP HOLLAND
 COUNTY ALLEGAN

NO.	DATE	SUBMITTAL

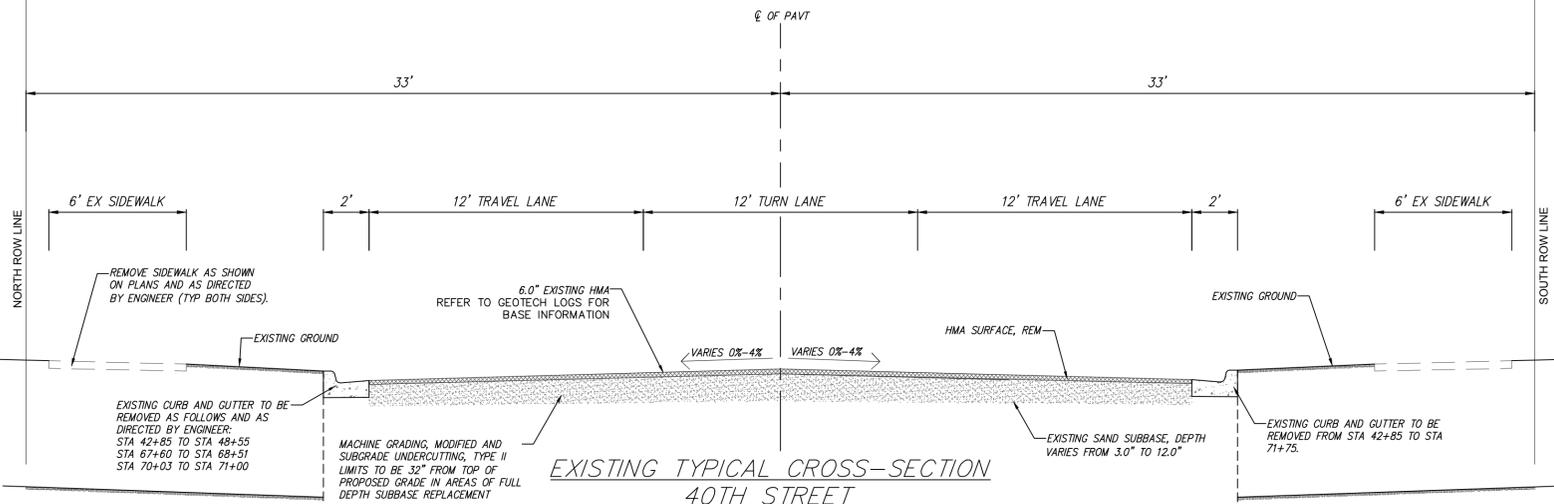
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DRAFTER A. TEMPLE	03-04-26
DESIGNER A. TEMPLE	03-04-26
CHECKED BY C. HARRINGTON	03-04-26
PROJECT MANAGER L. BERKENPAS	03-04-26
DEPARTMENT MANAGER APPROVAL J. SCHROTT	03-04-26

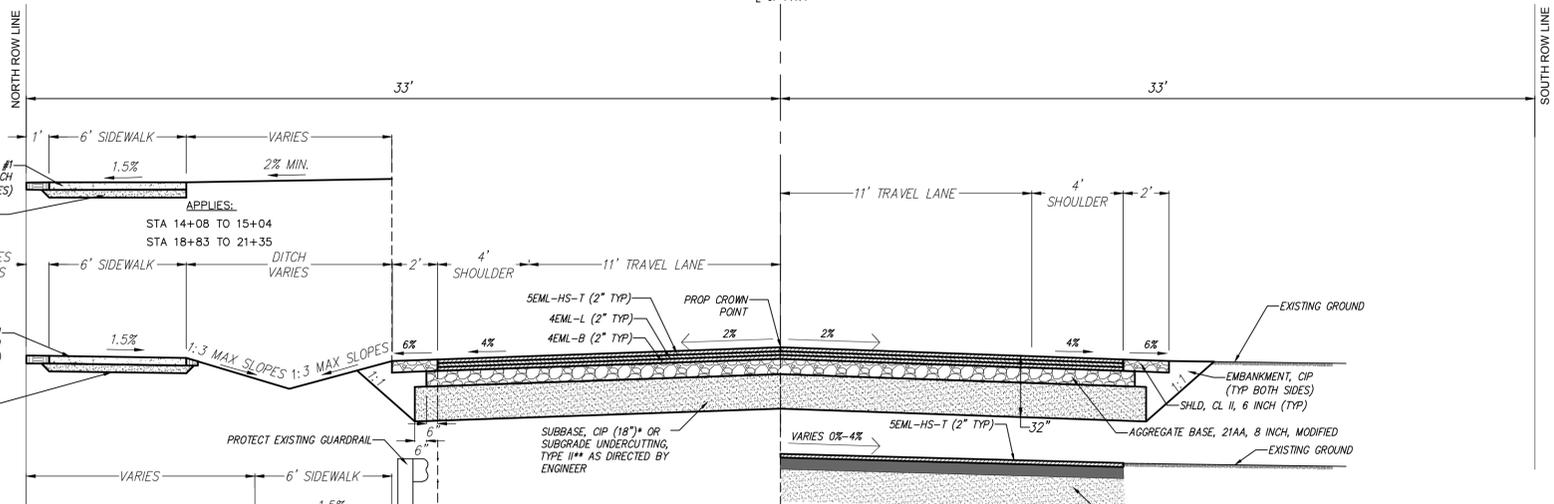
JOB NO. H024001	DRAWING NO. H024001TYP
SCALE 1"=4'	SHEET NO. 3 OF 37



EXISTING TYPICAL CROSS-SECTION
 40TH STREET
 STA 10+50 (POB) TO STA 42+85
 STA 73+50 TO STA 84+53 (POE)



EXISTING TYPICAL CROSS-SECTION
 40TH STREET
 STA 42+85 TO STA 73+50



PROPOSED TYPICAL CROSS-SECTION
 40TH STREET
 STA 10+50 (POB) TO STA 39+82
 STA 83+00 TO STA 84+53 (POE)

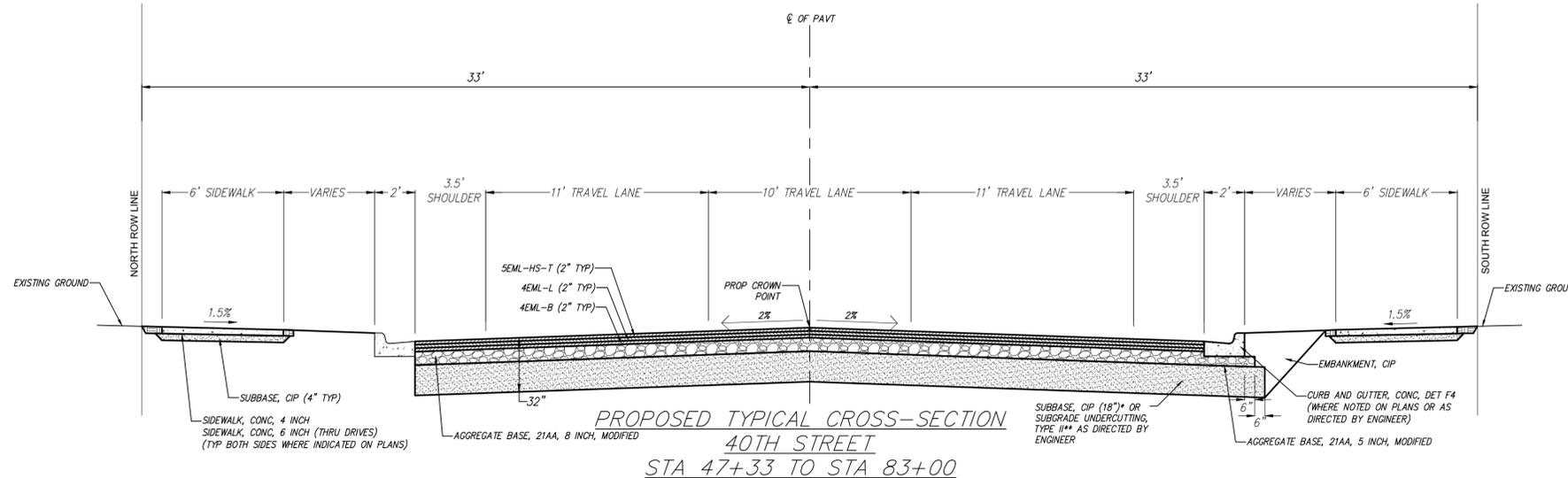
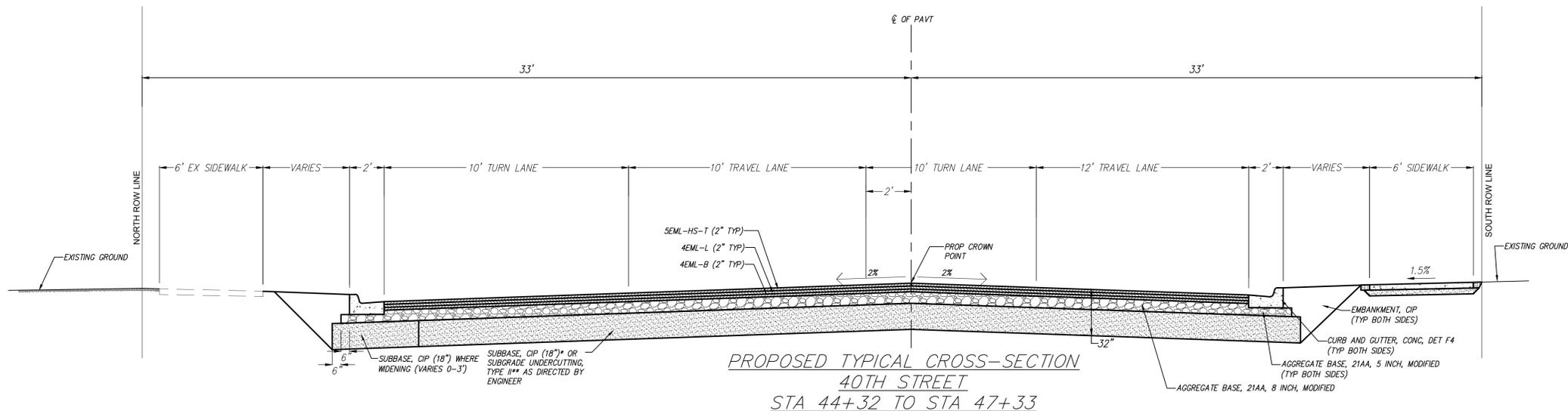
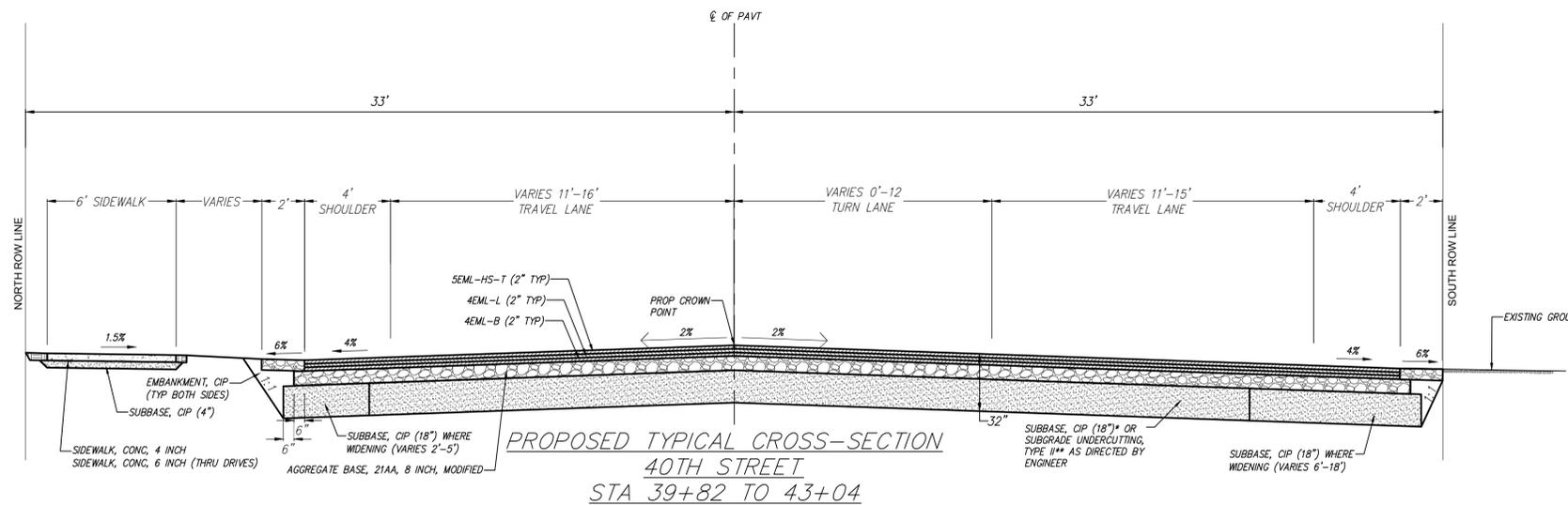
ID NO.	BID ITEM	RATE (LBS/STD)	PERFORMANCE GRADE	REMARKS
5EML-HS-T	HMA, 5EML, HIGH STRESS	220	70-28P	AWI = 260 MIN 2.0 INCHES (TOP COURSE)
4EML-L	HMA, 4EML	220	64-28	2.0 INCHES (LEVELING COURSE)
4EML-B	HMA, 4EML	220	64-28	2.0 INCHES (BASE COURSE)
HA	HMA APPROACH	680	64-28	6.0 INCHES ((2) 2" LIFTS OF 4EML, (1) 2" LIFT OF 5EML)
HP	HAND PATCHING	AS-DIRECTED	64-28	APPROVED 4E MIX (MAX 2.5 INCH LIFT)
	*BOND COAT	0.05-0.10 GAL		

*FOR INFORMATION ONLY
 ASPHALT NOTES:
 1. FURNISH ASPHALT CEMENT (AC) BINDER NOT EXCEEDING 17% RAP BINDER BY WEIGHT OF TOTAL BINDER (PER 1) PER APPLICABLE SPECIAL PROVISIONS ON ALL MAINLINE MIXTURES.
 2. REGRESS AIR VIDS TO 3.5% ON ALL MAINLINE MIXTURES.

P:\cadd\Mar_4_2026_23 PM by user: 1219 - Saved: 3/4/2026 by user: 1219
 J:\H024001 - 40TH STREET RECONSTRUCTION\DWG\H024001TYP.dwg

- * SUBBASE, CIP ONLY TO BE UTILIZED AS DIRECTED BY ENGINEER TO INCREASE ROAD GRADE TO MEET PROPOSED FINAL GRADES.
- ** SUBGRADE UNDERCUTTING, TYPE II SHALL BE UTILIZED AS DIRECTED BY ENGINEER IN AREAS OF UNSUITABLE SUBGRADE

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 ** SUBGRADE UNDERCUTTING, TYPE II SHALL BE UTILIZED AS DIRECTED BY ENGINEER IN AREAS OF UNSUITABLE SUBGRADE

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Holland
 MICHIGAN

GRAPHIC SCALE
 (IN FEET)
 1:4




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 Call before you dig.**

PRIOR TO CONSTRUCTION, ALL LOCATIONS AND DEPTHS OF EXISTING UTILITIES (IN CONFLICT WITH PROPOSED IMPROVEMENTS) SHALL BE VERIFIED IN THE FIELD. CALL MISS DIG 3 WORKING DAYS PRIOR TO CONSTRUCTION.

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40TH STREET RECONSTRUCTION

TYPICAL SECTIONS 2

NO.	DATE	SUBMITTAL

SECTION 04/05
 TOWN 4N RANGE 15W
 CITY/TOWNSHIP HOLLAND
 COUNTY ALLEGAN

VERIFY SCALES	VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DRAFTER B. CARLSTROM	03-04-26
DESIGNER A. TEMPLE	03-04-26
CHECKED BY C. HARRINGTON	03-04-26
PROJECT MANAGER L. BERKENPAS	03-04-26
DEPARTMENT MANAGER APPROVAL J. SCHROT	03-04-26

JOB NO. H024001	DRAWING NO. H024001TYP
SCALE: 1"=4'	SHEET NO. 4 OF 37



Holland
MICHIGAN

GRAPHIC SCALE

(IN FEET)
1:40



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40TH STREET RECONSTRUCTION

REMOVALS AND SESC
STA 30+50 TO STA
50+50

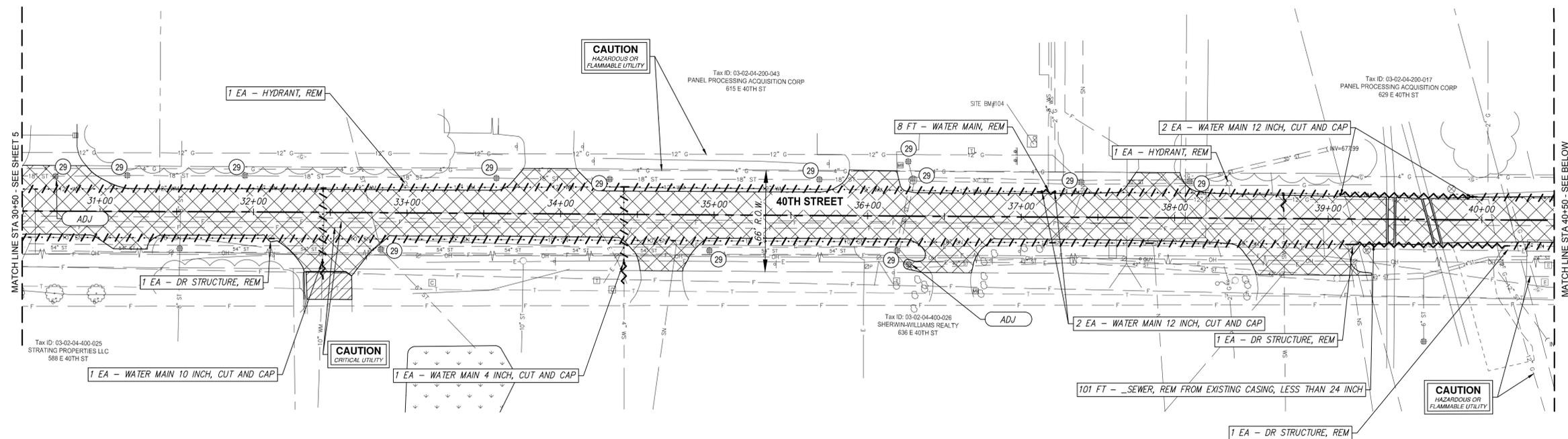
SECTION 04/05
TOWN 4N RANGE 15W
CITY/TOWNSHIP HOLLAND
COUNTY ALLEGAN

NO.	DATE	SUBMITTAL

VERIFY SCALES
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DRAFTER A. TEMPLE	03-04-26
DESIGNER A. TEMPLE	03-04-26
CHECKED BY C. HARRINGTON	03-04-26
PROJECT MANAGER L. BERKENPAS	03-04-26
DEPARTMENT MANAGER APPROVAL J. SCHROT	03-04-26

JOB NO. H024001	DRAWING NO. H024001REM1
SCALE: 1:40	SHEET NO. 6 OF 37

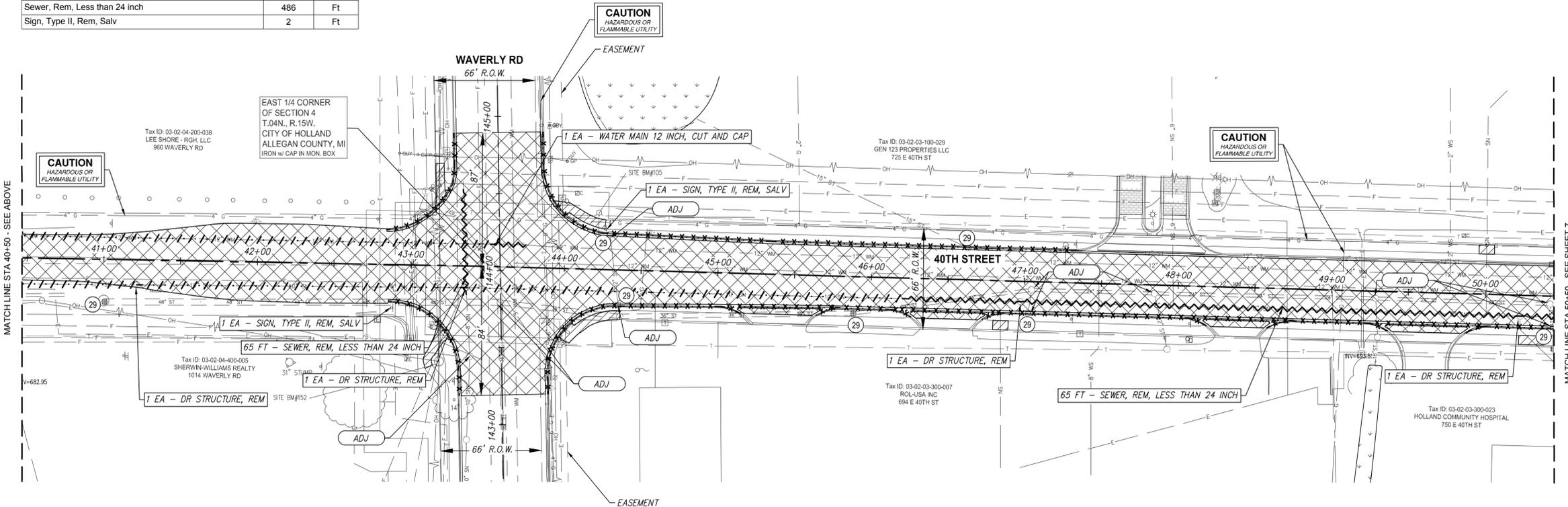


QUANTITIES - THIS SHEET

Item	Quantity	Unit
Curb and Gutter, Rem	1388	Ft
HMA Surface, Rem	10737	Syd
Pavt, Rem	95	Syd
Sidewalk, Rem	145	Syd
Dr Structure, Temp Lowering	13	Ea
Dr Structure Cover, Adj, Case 1	13	Ea
Erosion Control, Inlet Protection, Fabric Drop	20	Ea
_Water Main, 4 Inch, Cut and Cap	1	Ea
_Water Main, 10 Inch, Cut and Cap	1	Ea
_Water Main, 12 Inch, Cut and Cap	5	Ea
_Water Main, Rem	133	Ft
_Utility, Abandon	1309	Ft
Hydrant, Rem	2	Ea
Dr Structure, Rem	7	Ea
_Sewer, Rem From Existing Casing, Less Than 24 Inch	101	Ft
Sewer, Rem, Less than 24 inch	486	Ft
Sign, Type II, Rem, Salv	2	Ft

LEGEND

- HMA SURFACE REMOVAL
- COLD MILL HMA SURFACE
- SIDEWALK REMOVAL
- CURB AND GUTTER REMOVAL
- SEWER AND WATER MAIN REMOVAL
- SEWER AND WATER MAIN ABANDON
- STRUCTURE ADJUSTMENT/ TEMP LOWERING
- INLET PROTECTION FABRIC DROP
- WETLAND





Holland
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1:40



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40TH STREET RECONSTRUCTION

REMOVALS AND RESC
STA 50+50 TO STA
70+50

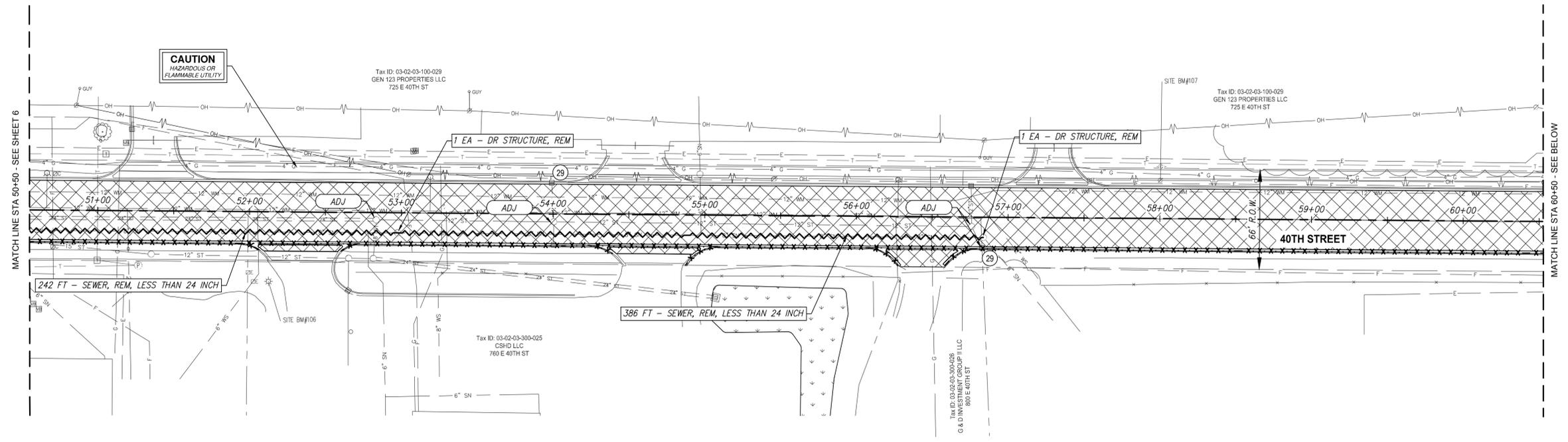
SECTION 04/05
TOWN 4N RANGE 15W
CITY/TOWNSHIP HOLLAND
COUNTY ALLEGAN

NO.	DATE	SUBMITTAL

VERIFY SCALES
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DRAFTER A. TEMPLE	03-04-26
DESIGNER A. TEMPLE	03-04-26
CHECKED BY C. HARRINGTON	03-04-26
PROJECT MANAGER L. BERKENPAS	03-04-26
DEPARTMENT MANAGER APPROVAL J. SCHROT	03-04-26

JOB NO. H024001	DRAWING NO. H024001REM1
SCALE: 1:40	SHEET NO. 7 OF 37

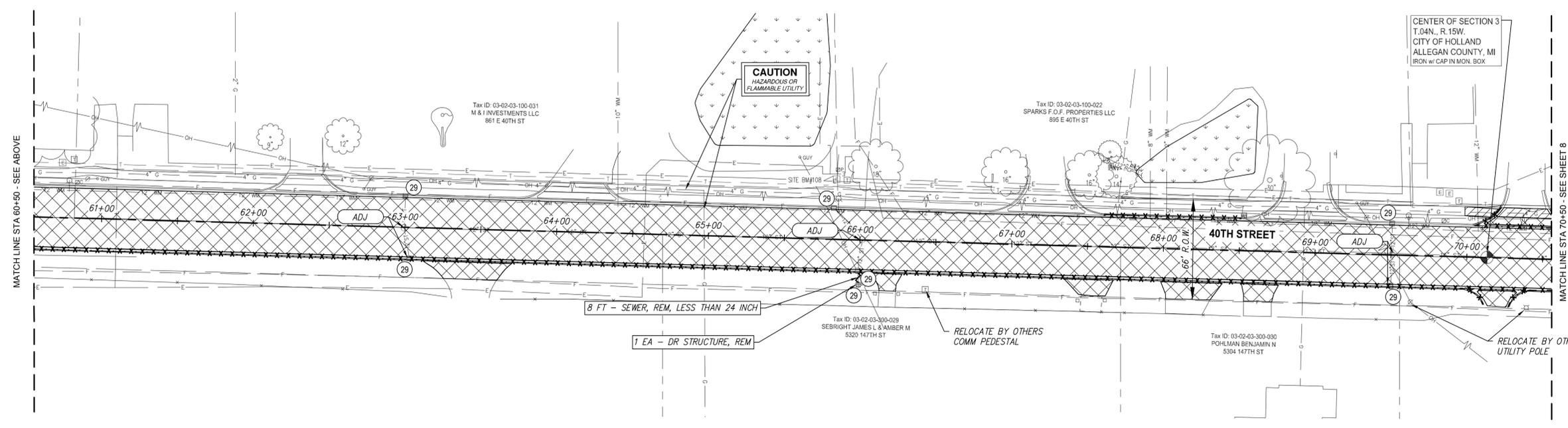


QUANTITIES - THIS SHEET

Item	Quantity	Unit
Curb and Gutter, Rem	2270	Ft
HMA Surface, Rem	8995	Syd
Dr Structure, Temp Lowering	9	Ea
Dr Structure Cover, Adj, Case 1	9	Ea
Erosion Control, Inlet Protection, Fabric Drop	9	Ea
Sidewalk, Rem	915	Syd
Dr Structure, Rem	3	Ea
Sewer, Rem, Less than 24 inch	636	Ft

LEGEND

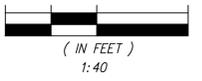
- HMA SURFACE REMOVAL
- COLD MILL HMA SURFACE
- SIDEWALK REMOVAL
- CURB AND GUTTER REMOVAL
- SEWER AND WATER MAIN REMOVAL
- SEWER AND WATER MAIN ABANDON
- STRUCTURE ADJUSTMENT/ TEMP LOWERING
- INLET PROTECTION FABRIC DROP
- WETLAND



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40TH STREET RECONSTRUCTION

REMOVALS AND SESC
STA 70+50 TO STA 90+50

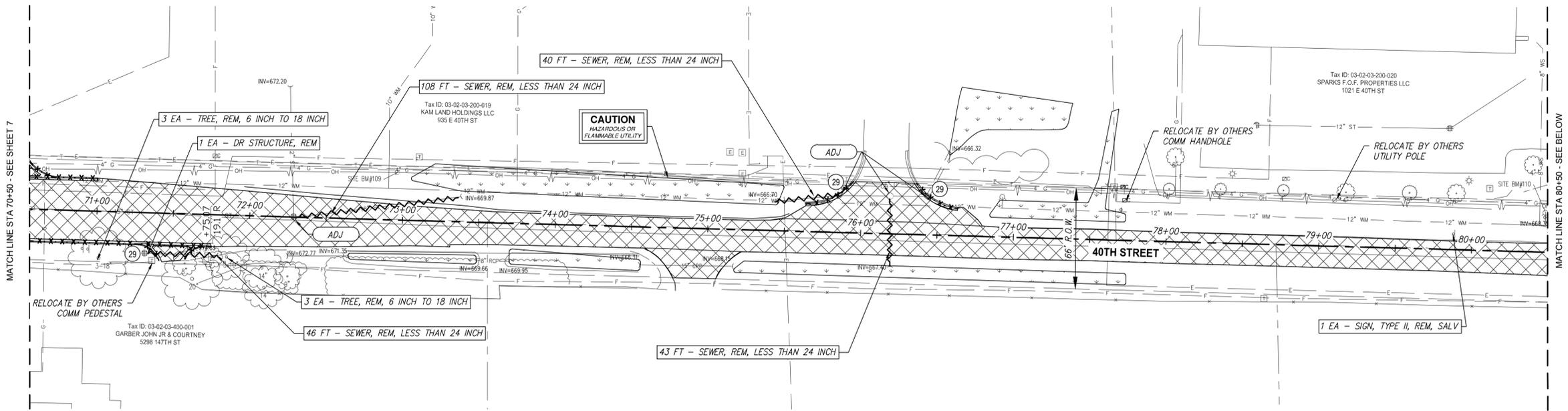
SECTION 04/05
TOWN 4N RANGE 15W
CITY/TOWNSHIP HOLLAND
COUNTY ALLEGAN

NO.	DATE	SUBMITTAL

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DRAFTER A. TEMPLE	03-04-26
DESIGNER A. TEMPLE	03-04-26
CHECKED BY C. HARRINGTON	03-04-26
PROJECT MANAGER L. BERKENPAS	03-04-26
DEPARTMENT MANAGER APPROVAL J. SCHROT	03-04-26

JOB NO. H024001	DRAWING NO. H024001REM1
SCALE: 1:40	SHEET NO. 8 OF 37

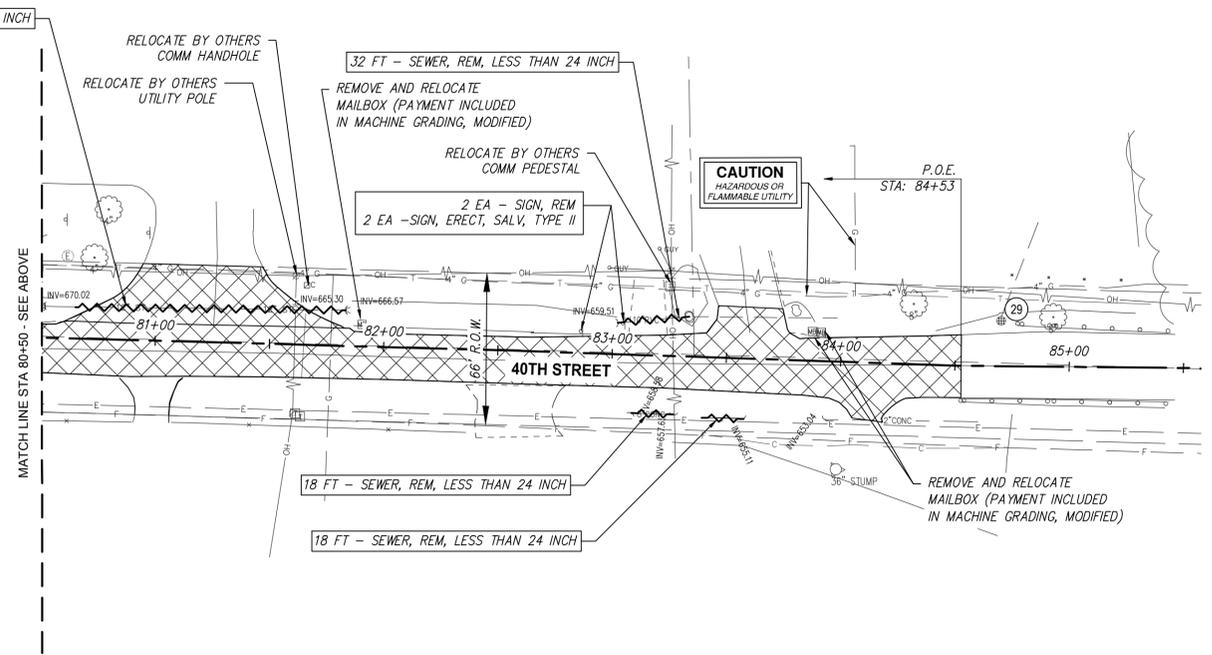


QUANTITIES - THIS SHEET

Item	Quantity	Unit
Curb and Gutter, Rem	285	Ft
HMA Surface, Rem	4391	Syd
Sewer, Rem, Less than 24 inch	423	Ft
Dr Structure, Rem	1	Ea
Dr Structure, Temp Lowering	4	Ea
Dr Structure Cover, Adj, Case 1	5	Ea
Erosion Control, Inlet Protection, Fabric Drop	3	Ea
Sign, Type II, Rem, Salv	1	Ea

LEGEND

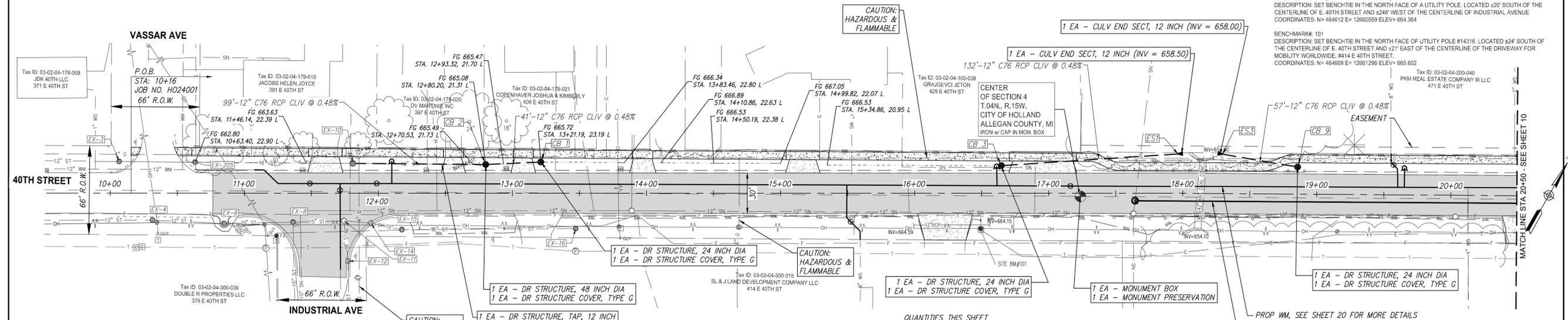
- HMA SURFACE REMOVAL
- COLD MILL HMA SURFACE
- SIDEWALK REMOVAL
- CURB AND GUTTER REMOVAL
- SEWER AND WATER MAIN REMOVAL
- SEWER AND WATER MAIN ABANDON
- STRUCTURE ADJUSTMENT/ TEMP LOWERING
- INLET PROTECTION FABRIC DROP
- WETLAND



BENCHMARK DESCRIPTIONS

BENCHMARK# 100 (NOT SHOWN ON SHEET)
 DESCRIPTION: SET BENCHMARK IN THE NORTH FACE OF A UTILITY POLE. LOCATED ±20' SOUTH OF THE CENTERLINE OF E. 40TH STREET AND ±248' WEST OF THE CENTERLINE OF INDUSTRIAL AVENUE. COORDINATES: N= 464612 E= 1266559 ELEV= 664.364

BENCHMARK# 101
 DESCRIPTION: SET BENCHMARK IN THE NORTH FACE OF UTILITY POLE #14316. LOCATED ±24' SOUTH OF THE CENTERLINE OF E. 40TH STREET AND ±21' EAST OF THE CENTERLINE OF THE DRIVEWAY FOR MOBILITY WORLDWIDE. #414 E 40TH STREET. COORDINATES: N= 464609 E= 12661296 ELEV= 665.602



SIDEWALK TABLE

STA	BACK OF WALK OFFSET FROM CL ALIGNMENT	PROPOSED BACK OF WALK ELEVATION
10+61.12'	33.8' (L)	663.50
10+90.18'	33.6' (L)	663.82
11+40.18'	33.3' (L)	664.43
11+47.98'	33.3' (L)	664.04
11+73.00'	33.1' (L)	664.21
12+48.55'	32.6' (L)	665.74
12+63.55'	32.65' (L)	666.07
12+80.21'	32.4' (L)	665.24
13+00.61'	32.3' (L)	665.99
13+15.61'	32.2' (L)	665.90
13+89.69'	31.8' (L)	666.55
14+02.60'	31.7' (L)	666.73

SIDEWALK TABLE

STA	BACK OF WALK OFFSET FROM CL ALIGNMENT	PROPOSED BACK OF WALK ELEVATION
14+50.19'	31.4' (L)	665.75
15+04.11'	31' (L)	666.68
15+29.11'	30.9' (L)	666.92
15+98.54'	30.5' (L)	665.85
16+73.19'	30.0' (L)	663.84
17+18.19'	29.7' (L)	663.13
17+30.28'	29.6' (L)	662.52
18+82.59'	29.3' (L)	660.97
18+98.33'	29.3' (L)	661.55
19+49.97'	29.3' (L)	662.15
19+99.98'	29.4' (L)	662.10
20+24.98'	29.4' (L)	662.00

CAUTION: HAZARDOUS & FLAMMABLE

QUANTITIES THIS SHEET ALTERNATE #1

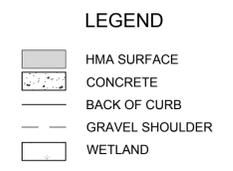
Item	Quantity	Unit
Subbase, CIP	82	Cyd
Sidewalk, Conc, 4 inch	5081	Sft
Sidewalk, Conc, 6 inch	870	Sft
Curb Ramp, Conc, 6 inch	107	Sft
Detectable Warning Surface, Modified	12	Ft

QUANTITIES THIS SHEET

Item	Quantity	Unit
Subgrade Undercutting, Type II	920	Cyd
Subbase, CIP	48	Cyd
Aggregate Base, 21AA, 8 inch, Modified	3574	Syd
Shld, Cl II, 6 inch	348	Syd
HMA, 4EML	887	Ton
HMA, 5EML, High Stress	443	Ton
Driveway, Nonreinf Conc, 6 inch	286	Syd
Dr Structure, 24 inch Dia	3	Ea
Dr Structure, 48 inch Dia	1	Ea
Dr Structure Cover, Type G	4	Ea
Dr Structure, Tap, 12 inch	1	Ea
Sewer, Cl IV, 12 inch, Tr Det B	329	Ft
Culv End Sect, 12 inch	2	Ea
Monument Box	1	Ea
Monument Preservation	1	Ea

DRIVEWAY TABLE

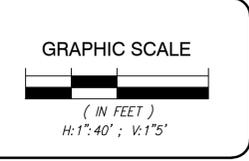
STATION	DRIVEWAY, NONREINF CONC, 6 INCH (SYD)
11+50, L	34
12+50, L	21
13+10, L	21
14+00, L	21
15+15, L	27
16+25, R	79
16+96, L	52
20+50, R	31



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40TH STREET RECONSTRUCTION

CONSTRUCTION PLAN STA 10+50 TO STA 20+50

SECTION 04/05
 TOWN 4N RANGE 15W
 CITY/TOWNSHIP HOLLAND
 COUNTY ALLEGAN

NO.	DATE	SUBMITTAL

VERIFY SCALES
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 IF NOT ONE INCH ON THIS SHEET,
 ADJUST SCALES ACCORDINGLY

DRAFTER: A. TEMPLE 03-04-26
 DESIGNER: A. TEMPLE 03-04-26
 CHECKED BY: C. HARRINGTON 03-04-26
 PROJECT MANAGER: L. BERKENPAS 03-04-26
 DEPARTMENT MANAGER APPROVAL: J. SCHROT 03-04-26

JOB NO: HO24001 DRAWING NO: HO24001CON1
 SCALE: H: 1" = 40' ; V: 1" = 5' SHEET NO: 9 OF 37

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Holland
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GRAPHIC SCALE
 (IN FEET)
 H: 1" = 40' ; V: 1" = 5'



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40TH STREET RECONSTRUCTION

CONSTRUCTION PLAN STA 20+50 TO STA 30+50

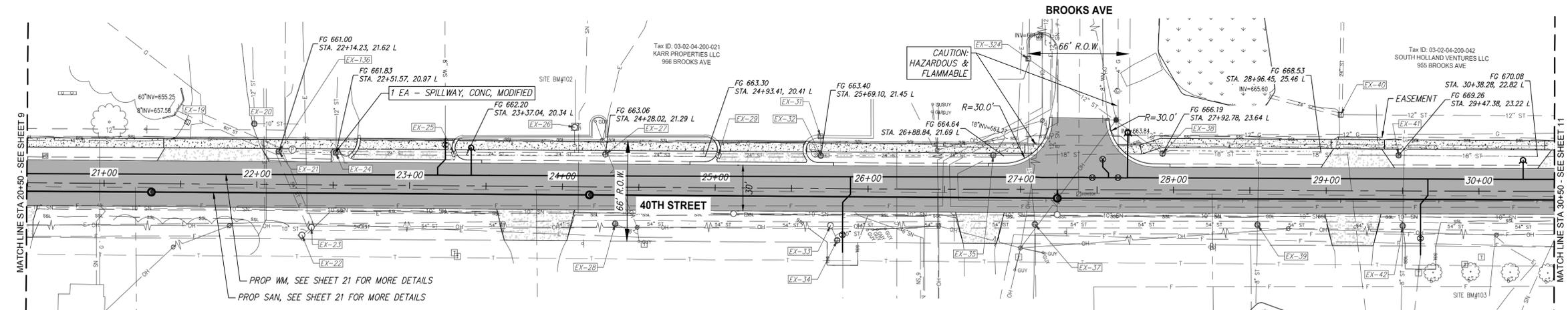
SECTION 04/05
 TOWN 4N RANGE 15W
 CITY/TOWNSHIP HOLLAND
 COUNTY ALLEGAN

NO.	DATE	SUBMITTAL

VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 IF NOT ONE INCH ON THIS SHEET,
 ADJUST SCALES ACCORDINGLY

DRAFTER A. TEMPLE	03-04-26
DESIGNER A. TEMPLE	03-04-26
CHECKED BY C. HARRINGTON	03-04-26
PROJECT MANAGER L. BERKENPAS	03-04-26
DEPARTMENT MANAGER APPROVAL J. SCHROTT	03-04-26

JOB NO. H024001	DRAWING NO. H024001CON1
SCALE H: 1" = 40' ; V: 1" = 5'	SHEET NO. 10 OF 37



DRIVEWAY TABLE

STATION	DRIVEWAY, NONREINF CONC, 6 INCH (SYD)
21+75, L	71
23+00, L	54
23+75, R	104
25+25, L	49
26+75, R	60
29+10, L	60
29+10, R	74

SIDEWALK TABLE

STA	BACK OF WALK OFFSET FROM CL ALIGNMENT	PROPOSED BACK OF WALK ELEVATION
20+74.98'	29.4' (L)	663.05
20+99.98'	29.5' (L)	662.91
21+24.98'	29.5' (L)	661.73
21+38.86'	29.5' (L)	661.96
22+03.86'	29.6' (L)	661.70
22+64.02'	29.6' (L)	661.90
23+31.61'	29.7' (L)	661.96
23+49.98'	29.7' (L)	662.43
24+31.58'	29.8' (L)	663.35
24+96.39'	29.8' (L)	663.56
24+99.79'	29.8' (L)	663.58
25+61.10'	29.9' (L)	664.07

SIDEWALK TABLE

STA	BACK OF WALK OFFSET FROM CL ALIGNMENT	PROPOSED BACK OF WALK ELEVATION
26+85.08'	29.7' (L)	665.31
27+02.68'	29.7' (L)	665.71
27+68.88'	29.5' (L)	666.00
27+78.13'	29.5' (L)	666.24
27+91.30'	33.7' (L)	666.59
29+03.06'	33.4' (L)	669.44
29+38.06'	33.4' (L)	669.64
29+50.09'	33.3' (L)	670.20
30+42.92'	33.1' (L)	670.12

QUANTITIES THIS SHEET

Item	Quantity	Unit
Subgrade Undercutting, Type II	920	Cyd
Curb and Gutter, Conc, Det F4	105	Ft
Curb and Gutter, Conc, Det B2	96	Ft
Subbase, CIP	79	Cyd
Aggregate Base, 21AA, 8 inch, Modified	3575	Syd
Shld, Cl II, 6 inch	319	Syd
HMA, 4EML	887	Ton
HMA, 5EML, High Stress	443	Ton
Driveway Opening, Conc, Det M	153	Ft
Driveway, Nonreinf Conc, 6 inch	472	Syd
Spillway, Conc, Modified	1	Ea

QUANTITIES THIS SHEET ALTERNATE #1

Item	Quantity	Unit
Subbase, CIP	76	Cyd
Sidewalk, Conc, 4 inch	4163	Sft
Sidewalk, Conc, 6 inch	1333	Sft
Curb Ramp, Conc, 6 inch	124	Sft
Curb Ramp Opening, Conc	16	Ft
Detectable Warning Surface, Modified	14	Ft

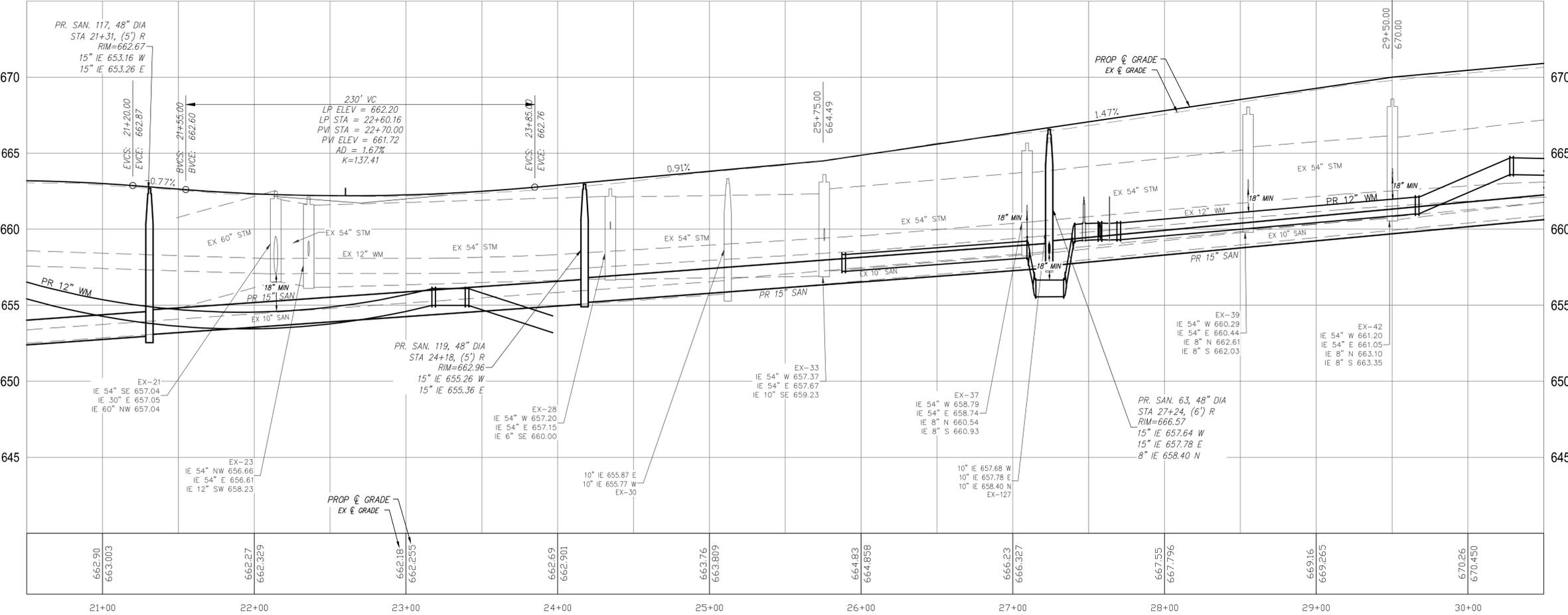
BENCHMARK DESCRIPTIONS

BENCH-MARK# 102
 DESCRIPTION: SET CHISELED X IN THE SOUTH-EAST RIM OF A STORM MANHOLE, LOCATED ±26' NORTH OF THE CENTERLINE OF E. 40TH STREET BETWEEN THE DRIVEWAYS FOR OMNI DIE & ENGINEERING, #966 BROOKS AVENUE.
 COORDINATES: N= 464668 E= 12662056 ELEV= 663.254

BENCH-MARK# 103
 DESCRIPTION: SET BENTHIE IN THE SOUTHEAST FACE OF A UTILITY POLE, LOCATED ±30' SOUTH OF THE CENTERLINE OF E. 40TH STREET AND ±67' EAST OF THE DRIVEWAY FOR CLOSET DESIGN, #588 E 40TH STREET.
 COORDINATES: N= 464597 E= 12662658 ELEV= 670.212

LEGEND

- HMA SURFACE
- CONCRETE
- BACK OF CURB
- GRAVEL SHOULDER
- WETLAND



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LEGEND

- HMA SURFACE
- CONCRETE
- BACK OF CURB
- GRAVEL SHOULDER
- WETLAND

QUANTITIES THIS SHEET

Item	Quantity	Unit
Subgrade Undercutting, Type II	893	Cyd
Subbase, CIP	125	Cyd
Aggregate Base, 21AA, 8 inch, Modified	3471	Syd
Shld, CI II, 6 inch	323	Syd
HMA, 4EML	861	Ton
HMA, 5EML, High Stress	430	Ton
Driveway, Nonreinf Conc, 6 inch	751	Syd

QUANTITIES THIS SHEET ALTERNATE #1

Item	Quantity	Unit
Subbase, CIP	82	Cyd
Sidewalk, Conc, 4 inch	5026	Sft
Sidewalk, Conc, 6 inch	978	Sft
Detectable Warning Surface, Modified	12	Ft

DRIVEWAY TABLE

STATION	DRIVEWAY, NONREINF CONC, 6 INCH (SYD)
30+70, L	81
31+10, R	30
32+50, R	147
34+00, L	69
34+60, R	78
36+00, L	57
36+50, R	73
38+00, L	56
38+75, R	159

SIDEWALK TABLE

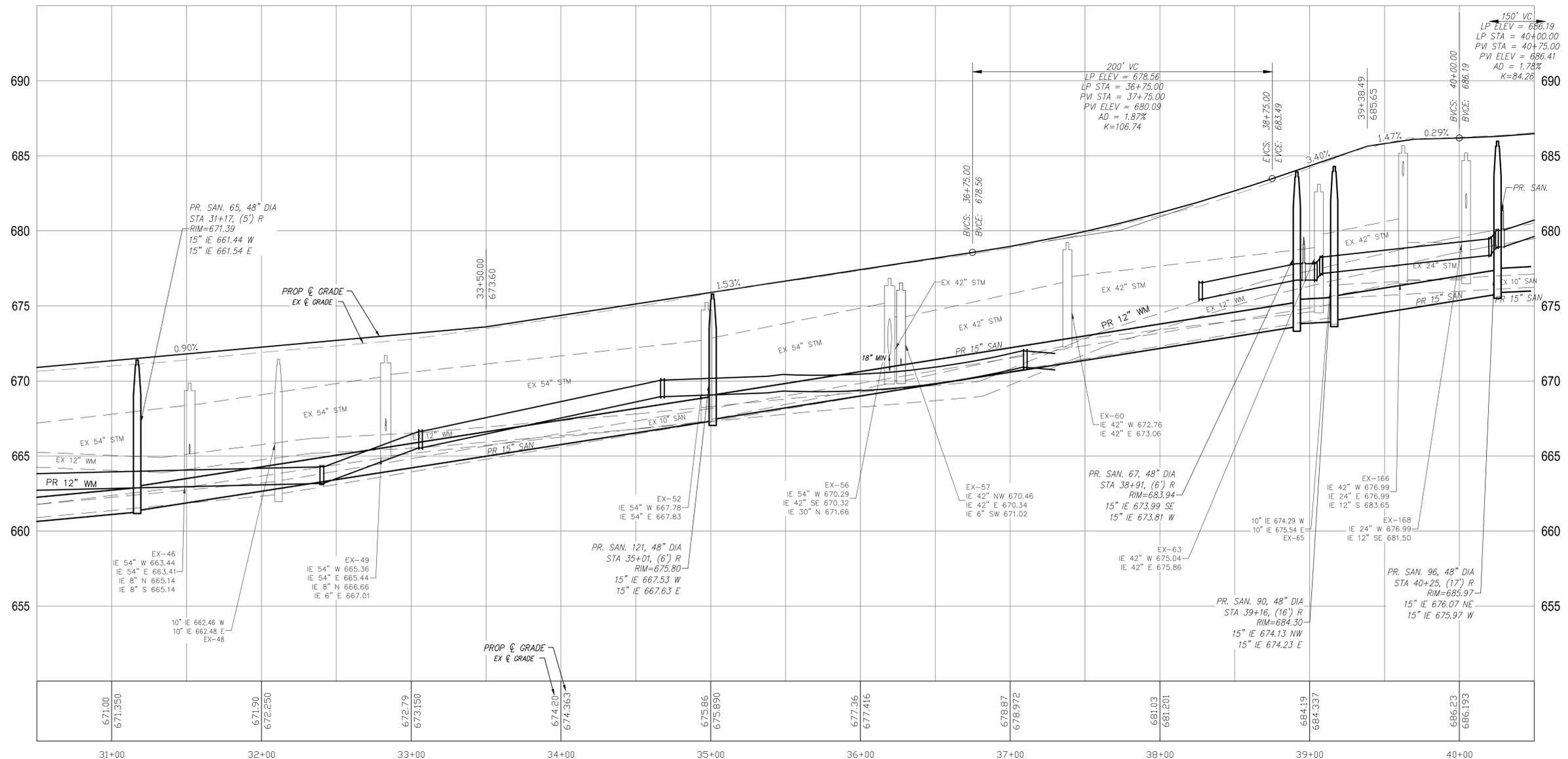
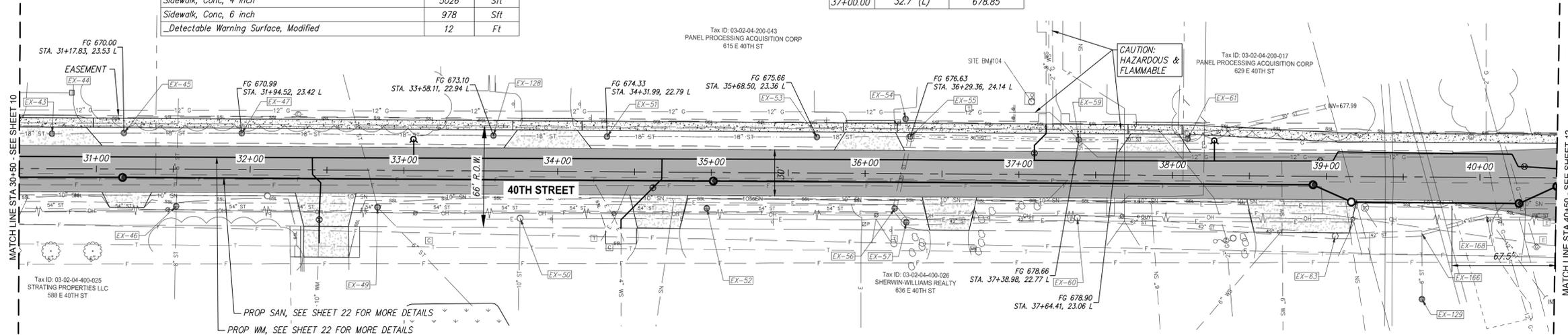
STA	BACK OF WALK OFFSET FROM CL ALIGNMENT	PROPOSED BACK OF WALK ELEVATION
30+73.50'	33' (L)	670.06
30+97.92'	32.9' (L)	670.49
31+50.09'	32.8' (L)	671.01
32+30.00'	32.7' (L)	672.70
33+70.70'	32.7' (L)	674.66
34+15.70'	32.7' (L)	674.90
35+85.84'	32.7' (L)	676.38
36+20.84'	32.7' (L)	676.52
37+00.00'	32.7' (L)	678.85

SIDEWALK TABLE

STA	BACK OF WALK OFFSET FROM CL ALIGNMENT	PROPOSED BACK OF WALK ELEVATION
37+70.93'	32.7' (L)	679.87
38+05.93'	32.7' (L)	679.73
38+10.93'	32.7' (L)	679.93
39+01.28'	28.7' (L)	683.53
39+07.02'	28.5' (L)	683.80
39+37.81'	28.5' (L)	685.26
39+63.42'	28.5' (L)	685.87
40+09.69'	28.5' (L)	684.08

BENCHMARK DESCRIPTIONS

BENCHMARK# 104
 DESCRIPTION: SET CHISELED SQUARE NEAR THE SOUTHEAST CORNER OF CONCRETE UTILITY PAD. LOCATED 447' NORTH OF THE CENTERLINE OF E. 40TH STREET AND 380' WEST OF THE DRIVEWAY FOR EAST HOLLAND PANEL PRODUCTS #615 E. 40TH STREET.
 COORDINATES: N=484668 E=12663357 ELEV=679.182



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GRAPHIC SCALE
 (IN FEET)
 H:1":40' ; V:1":5'

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40TH STREET RECONSTRUCTION

CONSTRUCTION PLAN STA 30+50 TO STA 40+50

SECTION 04/05
 TOWN 4N RANGE 15W
 CITY/TOWNSHIP HOLLAND
 COUNTY ALLEGAN

NO.	DATE	SUBMITTAL

VERIFY SCALES
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DRAFTER A. TEMPLE	03-04-26
DESIGNER A. TEMPLE	03-04-26
CHECKED BY C. HARRINGTON	03-04-26
PROJECT MANAGER L. BERKENPAS	03-04-26
DEPARTMENT MANAGER APPROVAL J. SCHROTT	03-04-26

JOB NO. H024001	DRAWING NO. H024001CON1
SCALE H:1":40' ; V:1":5'	SHEET NO. 11 OF 37

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GRAPHIC SCALE
 (IN FEET)
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40TH STREET RECONSTRUCTION

CONSTRUCTION PLAN STA 40+50 TO STA 50+50

SECTION 04/05
 TOWN 4N RANGE 15W
 CITY/TOWNSHIP HOLLAND
 COUNTY ALLEGAN

NO.	DATE	SUBMITTAL

VERIFY SCALES
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DRAFTER A. TEMPLE	03-04-26
DESIGNER A. TEMPLE	03-04-26
CHECKED BY C. HARRINGTON	03-04-26
PROJECT MANAGER L. BERKENPAS	03-04-26
DEPARTMENT MANAGER APPROVAL J. SCHROT	03-04-26

JOB NO. H024001	DRAWING NO. H024001CON1
SCALE H: 1" = 40' ; V: 1" = 5'	SHEET NO. 12 OF 37

QUANTITIES THIS SHEET ALTERNATE #1

Subbase, CIP	32	Cyd
Sidewalk, Conc, 4 inch	1545	Sft
Curb Ramp, Conc, 6 inch	834	Sft
-Detectable Warning Surface, Modified	34	Ft

QUANTITIES THIS SHEET

Item	Quantity	Unit
Subgrade Undercutting, Type II	1672	Cyd
Curb and Gutter, Conc, Det F4	1033	Ft
Sidewalk, Conc, 4 inch	280	Sft
Curb Ramp, Conc, 6 inch	350	Sft
Curb Ramp Opening, Conc	92	Ft
-Detectable Warning Surface, Modified	22	Ft
Subbase, CIP	9	Cyd
Aggregate Base, 21AA, 5 inch, Modified	397	Syd
Aggregate Base, 21AA, 8 inch, Modified	6055	Syd
HMA, 4EML	1532	Ton
HMA, 5EML, High Stress	766	Ton
Driveway Opening, Conc, Det M	304	Ft
Driveway, Nonrein Conc, 6 inch	91	Syd

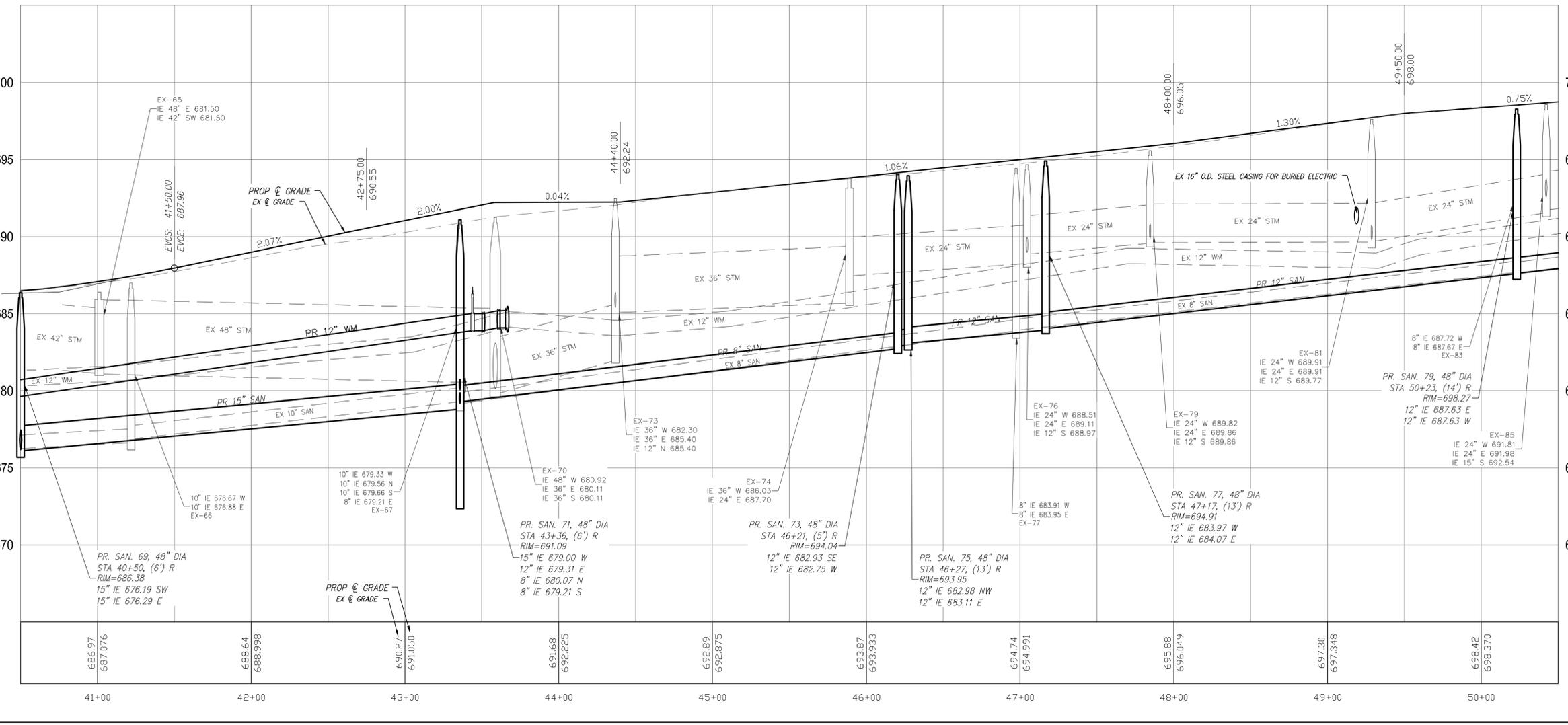
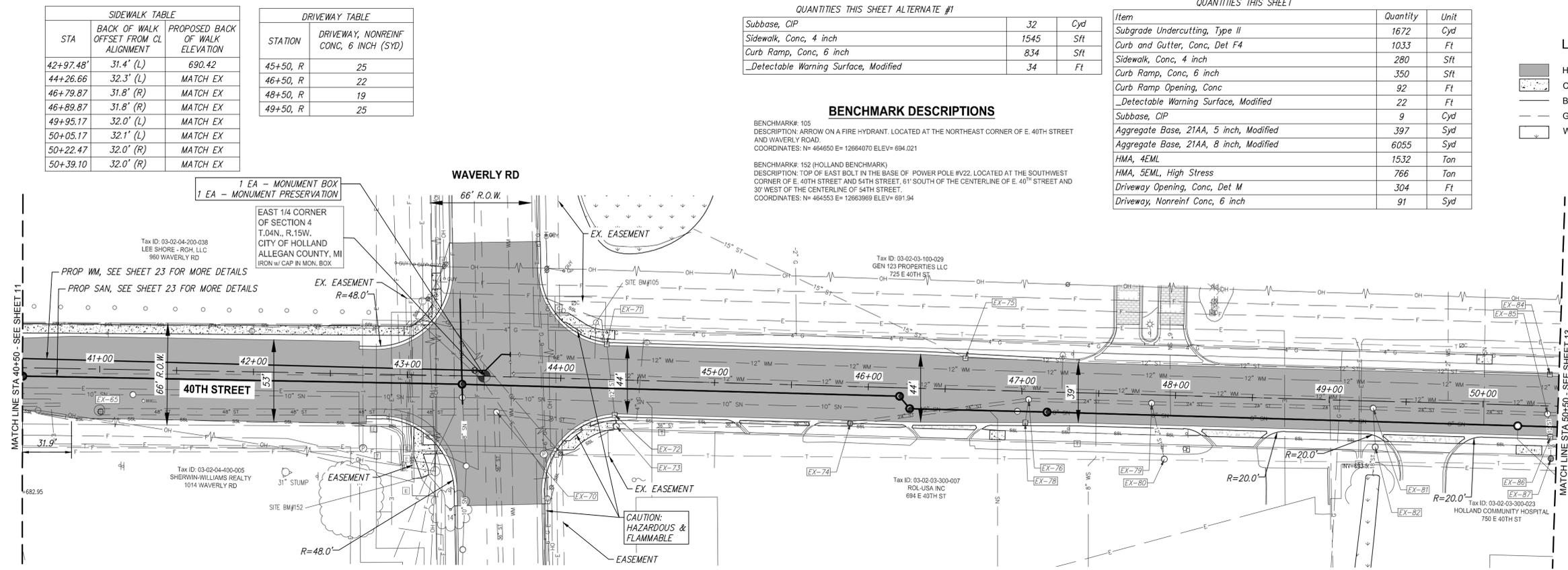
LEGEND

- HMA SURFACE
- CONCRETE
- BACK OF CURB
- GRAVEL SHOULDER
- WETLAND

BENCHMARK DESCRIPTIONS

BENCHMARK# 105
 DESCRIPTION: ARROW ON A FIRE HYDRANT, LOCATED AT THE NORTHEAST CORNER OF E. 40TH STREET AND WAVERLY ROAD.
 COORDINATES: N= 464650 E= 12664070 ELEV= 694.021

BENCHMARK# 152 (HOLLAND BENCHMARK)
 DESCRIPTION: TOP OF EAST BOLT IN THE BASE OF POWER POLE #V22, LOCATED AT THE SOUTHWEST CORNER OF E. 40TH STREET AND 54TH STREET, 61' SOUTH OF THE CENTERLINE OF E. 40TH STREET AND 30' WEST OF THE CENTERLINE OF 54TH STREET.
 COORDINATES: N= 464553 E= 12663969 ELEV= 691.94



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LEGEND

- HMA SURFACE
- CONCRETE
- BACK OF CURB
- GRAVEL SHOULDER
- WETLAND

DRIVEWAY TABLE	
STATION	DRIVEWAY, NONREINF CONC, 6 INCH (SYD)
52+50, R	26
54+50, R	27
56+50, R	25

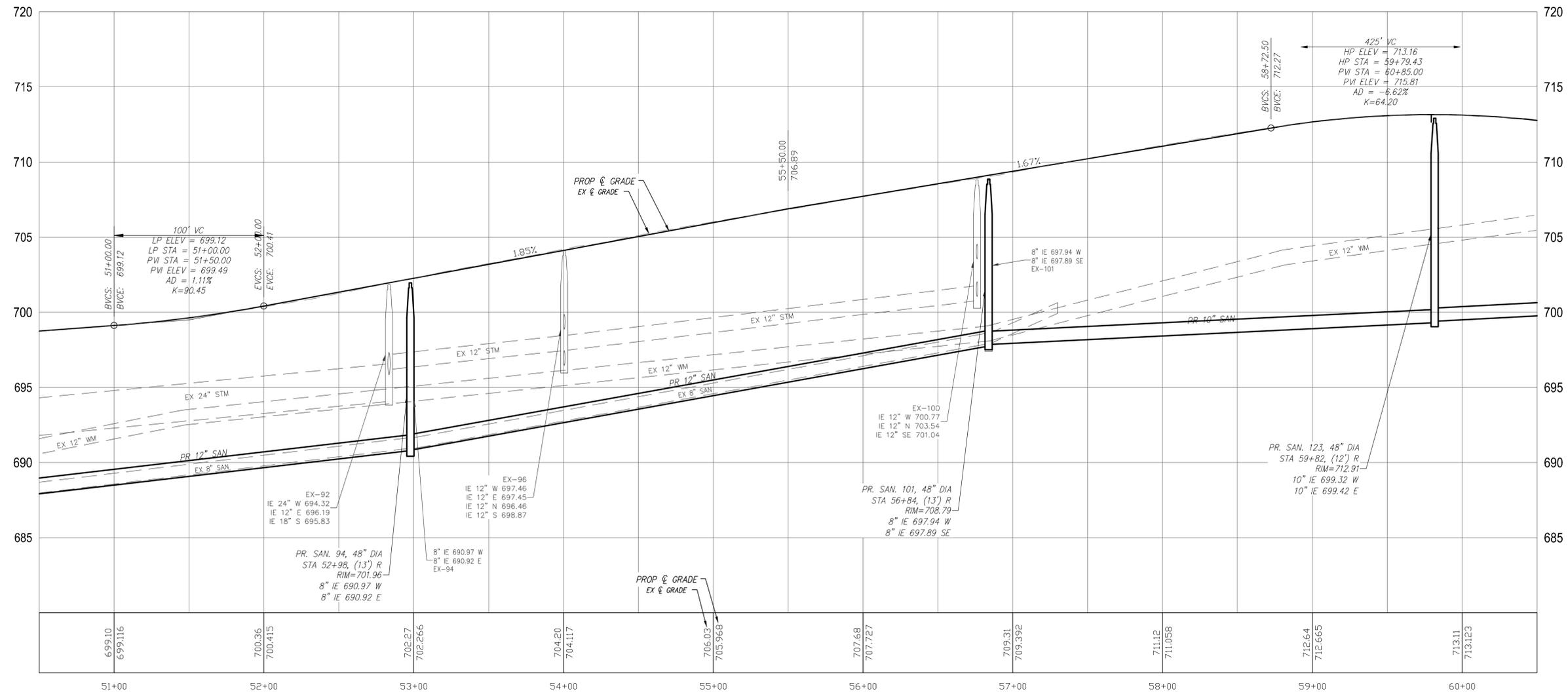
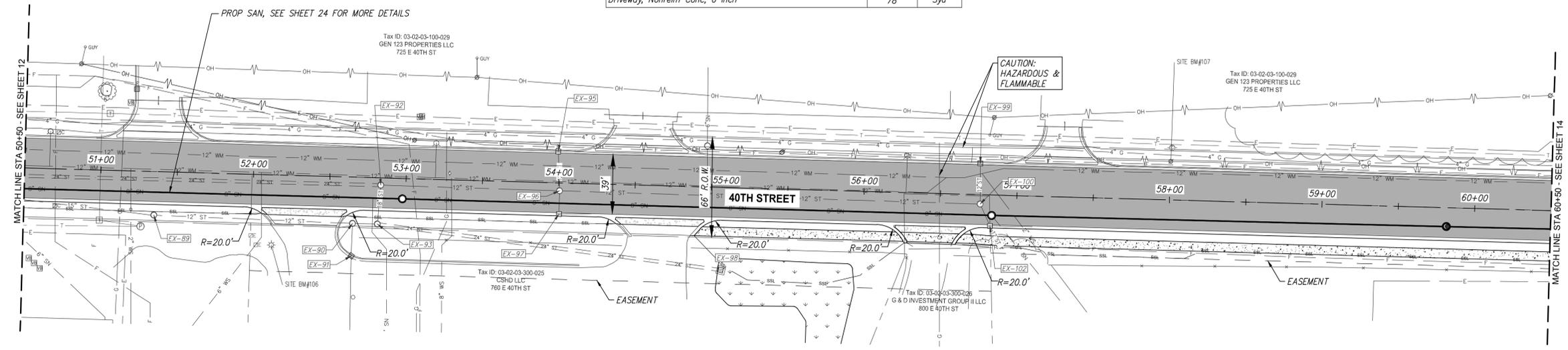
SIDEWALK TABLE		
STA	BACK OF WALK OFFSET FROM CL ALIGNMENT	PROPOSED BACK OF WALK ELEVATION
54+89.44	32' (R)	MATCH EX
56+26.47	32' (R)	707.94
56+61.07	32' (R)	708.52
56+71.07	32' (R)	708.80
56+88.59	33' (R)	709.35

QUANTITIES THIS SHEET		
Item	Quantity	Unit
Subgrade Undercutting, Type II	1152	Cyd
Sidewalk, Conc, 4 inch	3119	Sft
Sidewalk, Conc, 6 inch	203	Sft
Curb and Gutter, Conc, Det F4	876	Ft
Subbase, CIP	45	Cyd
Aggregate Base, 21AA, 5 inch, Modified	308	Syd
Aggregate Base, 21AA, 8 inch, Modified	4340	Syd
HMA, 4EML	1098	Ton
HMA, 5EML, High Stress	549	Ton
Driveway Opening, Conc, Det M	232	Ft
Driveway, Nonrein Conc, 6 inch	78	Syd

BENCHMARK DESCRIPTIONS

BENCHMARK# 106
 DESCRIPTION: SET CHISELED SQUARE IN THE TOP NORTHWEST CORNER OF CONCRETE LIGHT POLE BASE, LOCATED ±42' SOUTH OF THE CENTERLINE OF E. 40TH STREET AND ±21' WEST OF THE WEST DRIVEWAY FOR HAGGERTY LOGISTICS, #760 E. 40TH STREET.
 COORDINATES: N= 464547 E= 12664858 ELEV= 701.955

BENCHMARK# 107
 DESCRIPTION: SET BENCHMARK IN THE SOUTH FACE OF A UTILITY POLE, LOCATED ±25' NORTH OF THE CENTERLINE OF E. 40TH STREET AND 70' EAST OF THE EAST MOST DRIVEWAY FOR TIARA YACHTS, #725 E. 40TH STREET.
 COORDINATES: N= 464599 E= 12665447 ELEV= 712.243



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 (IN FEET)
 H: 1" = 40' ; V: 1" = 5'

811
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40TH STREET RECONSTRUCTION

CONSTRUCTION PLAN STA 50+50 TO STA 60+50

SECTION 04/05
 TOWN 4N RANGE 15W
 CITY/TOWNSHIP HOLLAND
 COUNTY ALLEGAN

NO.	DATE	SUBMITTAL

VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 IF NOT ONE INCH ON THIS SHEET,
 ADJUST SCALES ACCORDINGLY

DRAFTER A. TEMPLE	03-04-26
DESIGNER A. TEMPLE	03-04-26
CHECKED BY C. HARRINGTON	03-04-26
PROJECT MANAGER L. BERKENPAS	03-04-26
DEPARTMENT MANAGER APPROVAL J. SCHROT	03-04-26

JOB NO. H024001	DRAWING NO. H024001CON1
SCALE H: 1" = 40' ; V: 1" = 5'	SHEET NO. 13 OF 37

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DRIVEWAY TABLE	
STATION	DRIVEWAY, NONREINF CONC, 6 INCH (SYD)
69+00, R	71
70+18, R	14
70+50, L	25

QUANTITIES THIS SHEET			
Item	Quantity	Unit	
Subgrade Undercutting, Type II	1160	Cyd	
Sidewalk, Conc, 4 inch	5291	Sft	
Sidewalk, Conc, 6 inch	1016	Sft	
Curb and Gutter, Conc, Det F4	927	Ft	
Subbase, CIP	86	Cyd	
Aggregate Base, 21AA, 5 inch, Modified	323	Syd	
Aggregate Base, 21AA, 8 inch, Modified	4351	Syd	
HMA, 4EML	1101	Ton	
HMA, 5EML, High Stress	550	Ton	
Driveway Opening, Conc, Det M	234	Ft	
Driveway, Nonreinf Conc, 6 inch	110	Syd	

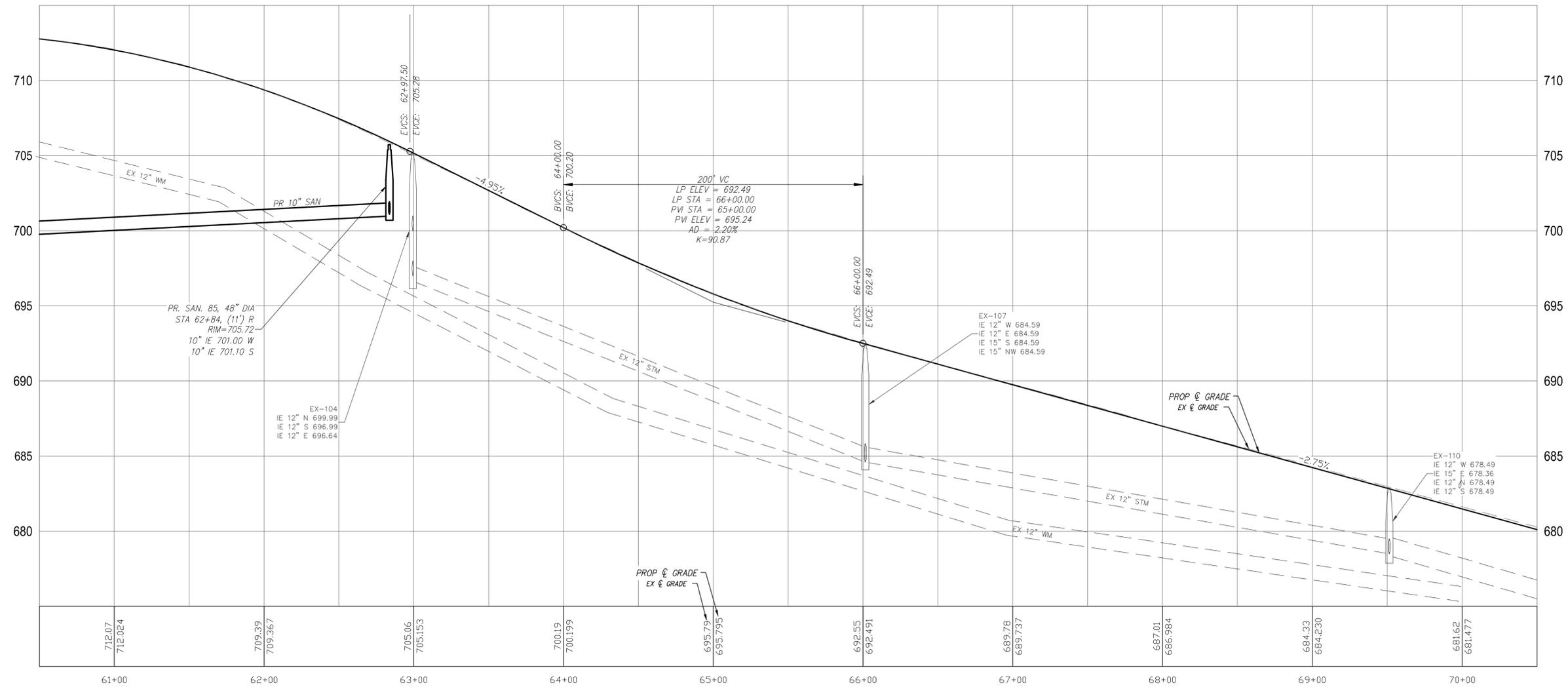
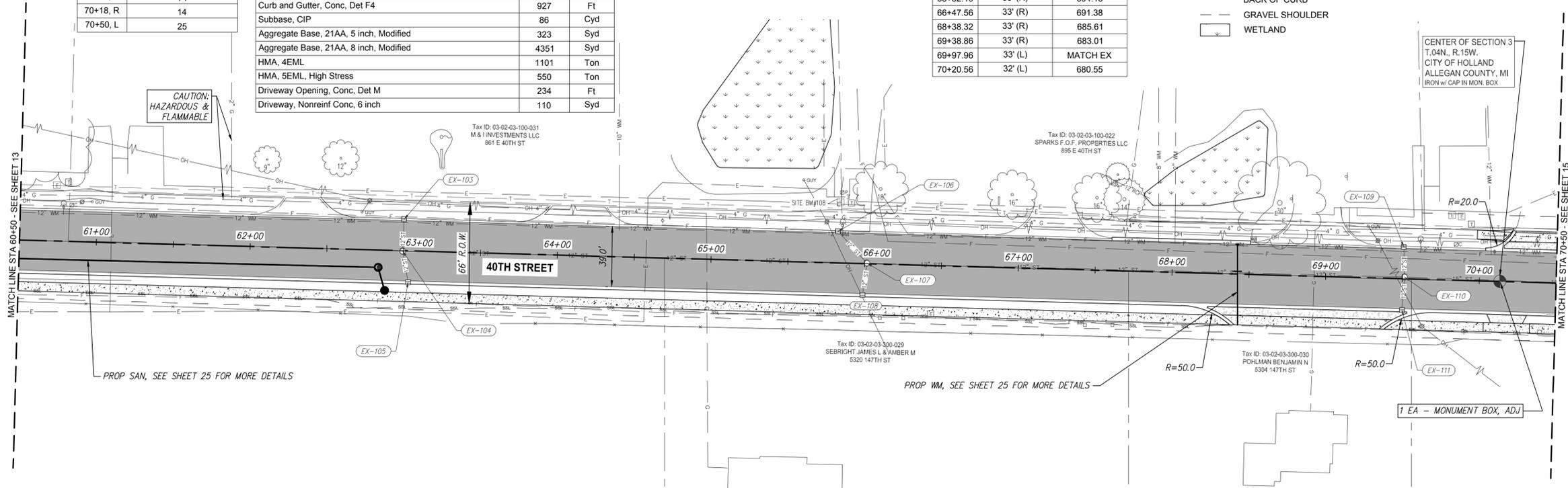
SIDEWALK TABLE		
STA	BACK OF WALK OFFSET FROM CL ALIGNMENT	PROPOSED BACK OF WALK ELEVATION
65+52.19	33' (R)	694.13
66+47.56	33' (R)	691.38
68+38.32	33' (R)	685.61
69+38.86	33' (R)	683.01
69+97.96	33' (L)	MATCH EX
70+20.56	32' (L)	680.55

LEGEND

- HMA SURFACE
- CONCRETE
- BACK OF CURB
- GRAVEL SHOULDER
- WETLAND

BENCHMARK DESCRIPTIONS

BENCHMARK# 108
 DESCRIPTION: SET CHISELED SQUARE IN THE NORTHWEST CORNER OF TRANSFORMER PAD, LOCATED 240' NORTH OF THE CENTERLINE OF E. 40TH STREET AND 230' WEST OF THE DRIVEWAY FOR NUVAR INCORPORATED, #895 E. 40TH STREET.
 COORDINATES: N= 464594 E= 12666229 ELEV= 693.027



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Holland MICHIGAN

GRAPHIC SCALE
 (IN FEET)
 H: 1" = 40' ; V: 1" = 5'

811
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40TH STREET RECONSTRUCTION

CONSTRUCTION PLAN STA 60+50 TO STA 70+50

SECTION 04/05
 TOWN 4N RANGE 15W
 CITY/TOWNSHIP HOLLAND
 COUNTY ALLEGAN

NO.	DATE	SUBMITTAL

VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 IF NOT ONE INCH ON THIS SHEET,
 ADJUST SCALES ACCORDINGLY

DRAFTER A. TEMPLE	03-04-26
DESIGNER A. TEMPLE	03-04-26
CHECKED BY C. HARRINGTON	03-04-26
PROJECT MANAGER L. BERKENPAS	03-04-26
DEPARTMENT MANAGER APPROVAL J. SCHROT	03-04-26

JOB NO. H024001	DRAWING NO. H024001CON2
SCALE H: 1" = 40' ; V: 1" = 5'	SHEET NO. 14 OF 37

QUANTITIES THIS SHEET		
Item	Quantity	Unit
Subgrade Undercutting, Type II	1157	Cyd
Sidewalk, Conc, 4 inch	11005	Sft
Sidewalk, Conc, 6 inch	870	Sft
Curb and Gutter, Conc, Det F4	1874	Ft
Subbase, CIP	161	Cyd
Aggregate Base, 21AA, 5 inch, Modified	591	Syd
Aggregate Base, 21AA, 8 inch, Modified	4334	Syd
HMA, 4EML	1097	Ton
HMA, 5EML, High Stress	548	Ton
Driveway Opening, Conc, Det M	255	Ft
Driveway, Nonreinf Conc, 6 inch	113	Syd
Dr Structure, 24 inch Dia	6	Ea
Dr Structure, 48 inch Dia	5	Ea
Dr Structure Cover, Type B	4	Ea
Dr Structure Cover, Type G	3	Ea
Dr Structure Cover, Type K	4	Ea
Sewer Tap, 12 inch	1	Ea
Sewer, Cl IV, 12 inch, Tr Det B	186	Ft
Sewer, Cl IV, 18 inch, Tr Det B	289	Ft
Sewer, Cl IV, 24 inch, Tr Det B	250	Ft
Spillway, Conc, Modified	2	Ea

DRIVEWAY TABLE		
STATION	DRIVEWAY, NONREINF CONC, 6 INCH (SYD)	
71+50, R	12	
74+00, R	42	
76+00, L	34	
77+75, R	25	

SIDEWALK TABLE		
STA	BACK OF WALK OFFSET FROM CL ALIGNMENT	PROPOSED BACK OF WALK ELEVATION
70+54.78	32.1' (L)	679.86
71+06.42	32.8' (R)	678.74
71+54.60	32.7' (R)	677.41
72+41.27	32.4' (L)	675.10
72+90.30	30.1' (L)	674.00
73+08.11	30.0' (L)	673.68
73+47.89	32.5' (L)	673.11
73+83.10	32.5' (R)	672.25
74+49.91	32.5' (R)	671.70
75+92.99	32.7' (L)	670.57
76+37.14	32.5' (L)	670.25
76+52.16	30.0' (L)	670.45

SIDEWALK TABLE		
STA	BACK OF WALK OFFSET FROM CL ALIGNMENT	PROPOSED BACK OF WALK ELEVATION
76+57.52	30.0' (L)	670.45
76+74.71	32.5' (L)	670.4
77+43.97	32.5' (R)	670.63
77+51.36	32.5' (R)	669.61
77+87.84	32.5' (R)	670.36

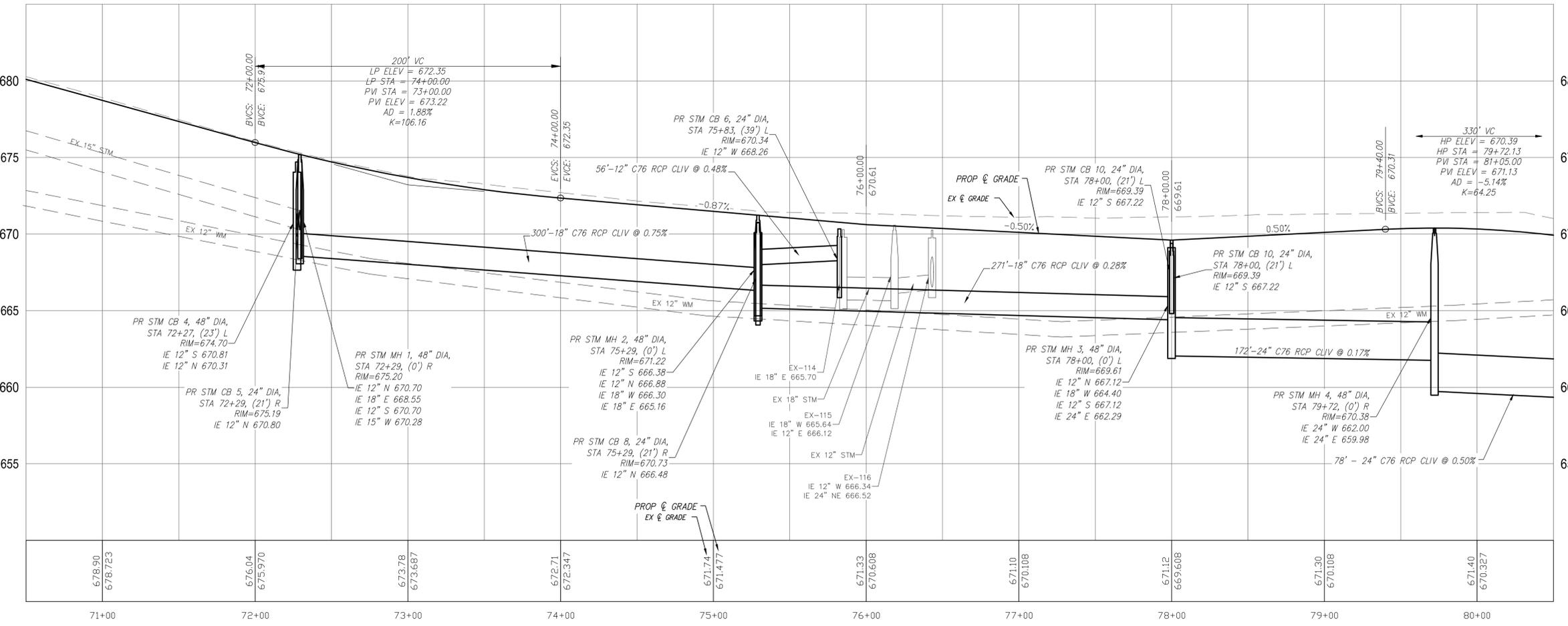
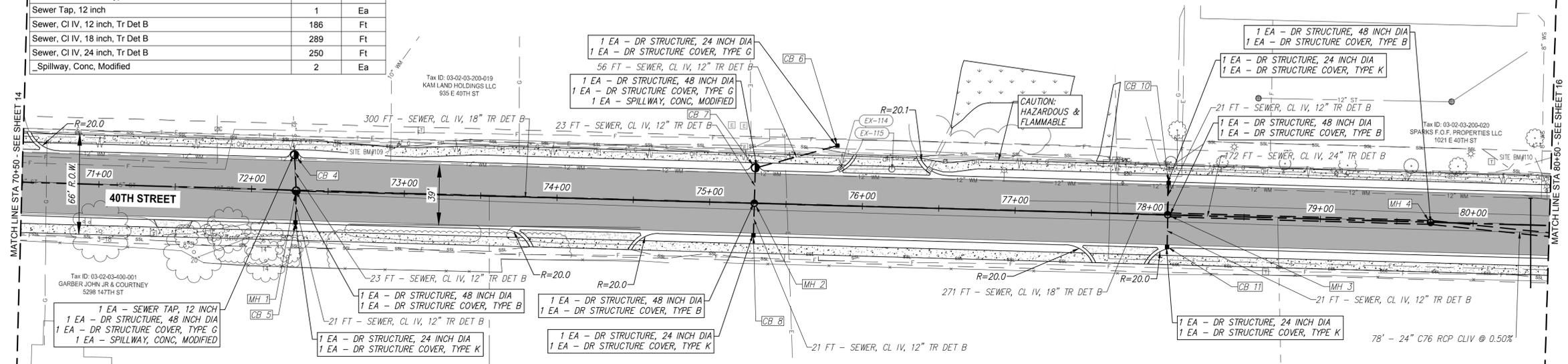
LEGEND

- HMA SURFACE
- CONCRETE
- BACK OF CURB
- GRAVEL SHOULDER
- WETLAND

BENCHMARK DESCRIPTIONS

BENCHMARK# 109
DESCRIPTION: ARROW ON A FIRE HYDRANT, LOCATED ±25' NORTH OF THE CENTERLINE OF E. 40TH STREET AND ±250' EAST OF THE CENTERLINE OF THE DRIVEWAY FOR KAM PLASTICS, 935 E. 40TH STREET.
COORDINATES: N= 464558 E= 12666938 ELEV= 673.778

BENCHMARK# 110
DESCRIPTION: ARROW ON A FIRE HYDRANT, LOCATED ±28' NORTH OF THE CENTERLINE OF 147TH AVENUE AND ±70' WEST OF THE DRIVEWAY FOR NUVAR EAST, #1011 E. 40TH STREET.
COORDINATES: N= 464537 E= 12667695 ELEV= 671.693



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Holland MICHIGAN

GRAPHIC SCALE

(IN FEET)
H: 1" = 40' ; V: 1" = 5'

811
Know what's below.
Call before you dig.

PRIOR TO CONSTRUCTION, ALL LOCATIONS AND DEPTHS OF EXISTING UTILITIES (IN CONFLICT WITH PROPOSED IMPROVEMENTS) SHALL BE VERIFIED IN THE FIELD. CALL MISS DIG 3 WORKING DAYS PRIOR TO CONSTRUCTION.

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40TH STREET RECONSTRUCTION

CONSTRUCTION PLAN STA 70+50 TO STA 80+50

SECTION 04/05
TOWN 4N RANGE 15W
CITY/TOWNSHIP HOLLAND
COUNTY ALLEGAN

NO.	DATE	SUBMITTAL

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
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ADJUST SCALES ACCORDINGLY

DRAFTER A. TEMPLE	03-04-26
DESIGNER A. TEMPLE	03-04-26
CHECKED BY C. HARRINGTON	03-04-26
PROJECT MANAGER L. BERKENPAS	03-04-26
DEPARTMENT MANAGER APPROVAL J. SCHROT	03-04-26

JOB NO. H024001	DRAWING NO. H024001CON2
SCALE H: 1" = 40' ; V: 1" = 5'	SHEET NO. 15 OF 37

Plotted: Mar 4, 2026, 2:46 PM by user: 1219 - Saved: 3/4/2026 by user: 1219
 J:\H024001 - 40TH STREET RECONSTRUCTION\DWG\H024001CON2.dwg

DRIVEWAY TABLE	
STATION	DRIVEWAY, NONREINF CONC, 6 INCH (SYD)
81+20, R	26
81+20, L	43
83+15, L	18
83+50, L	18

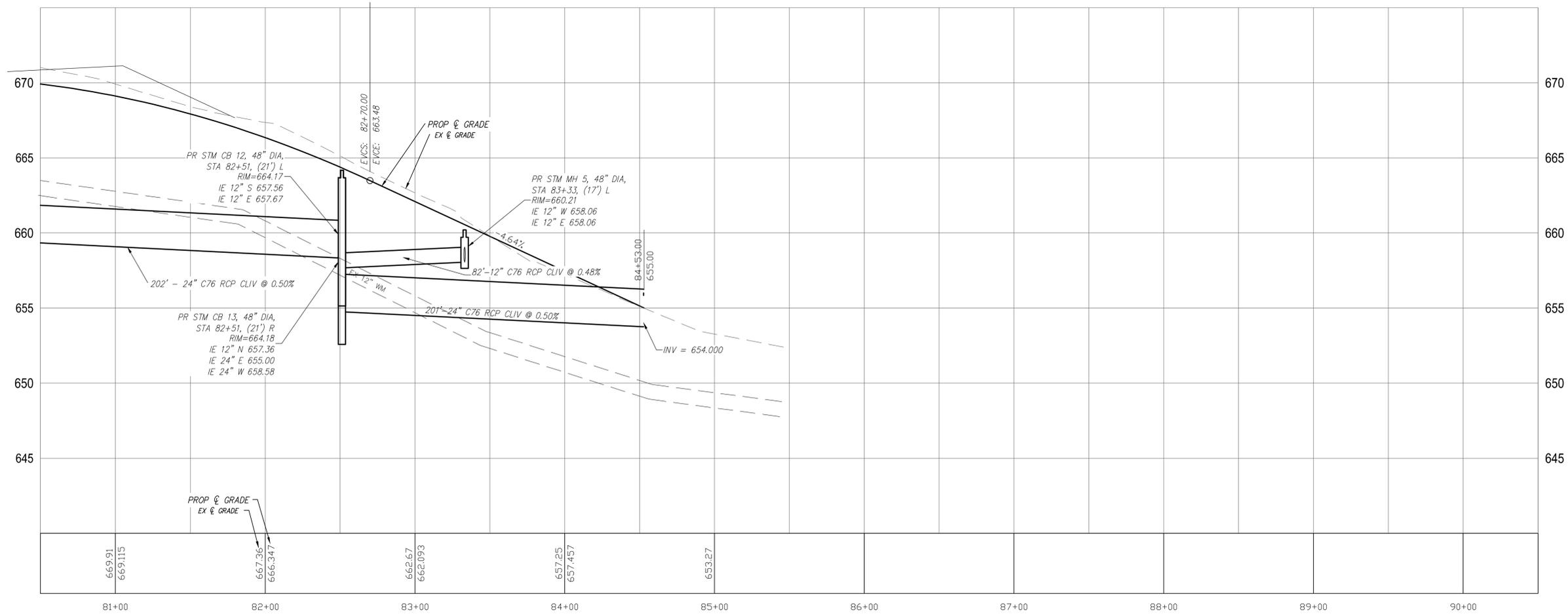
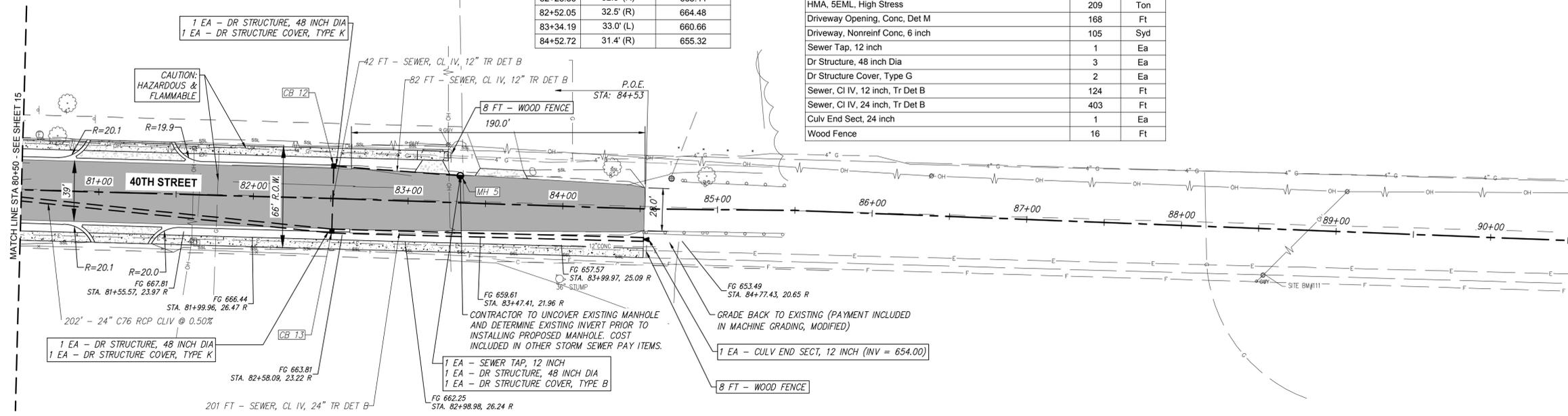
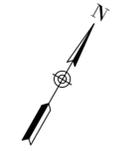
SIDEWALK TABLE		
STA	BACK OF WALK OFFSET FROM CL ALIGNMENT	PROPOSED BACK OF WALK ELEVATION
80+91.26	32.5' (L)	669.23
80+96.06	32.5' (R)	669.10
81+35.06	32.5' (R)	668.59
81+48.76	32.5' (L)	667.85
81+70.23	32.5' (L)	667.51
82+11.01	32.5' (L)	666.12
82+28.56	32.5' (R)	665.44
82+52.05	32.5' (R)	664.48
83+34.19	33.0' (L)	660.66
84+52.72	31.4' (R)	655.32

QUANTITIES THIS SHEET		
Item	Quantity	Unit
Subgrade Undercutting, Type II	449	Cyd
Sidewalk, Conc, 4 inch	3322	Sft
Sidewalk, Conc, 6 inch	688	Sft
Curb and Gutter, Conc, Det F4	353	Ft
Subbase, CIP	54	Cyd
Aggregate Base, 21AA, 5 inch, Modified	145	Syd
Aggregate Base, 21AA, 8 inch, Modified	1671	Syd
Shld, CI II, 6 inch	674	Syd
HMA, 4EML	418	Ton
HMA, 5EML, High Stress	209	Ton
Driveway Opening, Conc, Det M	168	Ft
Driveway, Nonreinf Conc, 6 inch	105	Syd
Sewer Tap, 12 inch	1	Ea
Dr Structure, 48 inch Dia	3	Ea
Dr Structure Cover, Type G	2	Ea
Sewer, CI IV, 12 inch, Tr Det B	124	Ft
Sewer, CI IV, 24 inch, Tr Det B	403	Ft
Culv End Sect, 24 inch	1	Ea
Wood Fence	16	Ft

- LEGEND**
- HMA SURFACE
 - CONCRETE
 - BACK OF CURB
 - GRAVEL SHOULDER
 - WETLAND

BENCHMARK DESCRIPTIONS

BENCHMARK# 111
 DESCRIPTION: SET MAG NAIL IN THE NORTH FACE OF A UTILITY POLE. LOCATED 25' SOUTH OF THE CENTERLINE OF 147TH AVENUE AND 435' EAST OF THE CENTERLINE OF DRIVEWAY FOR HOUSE #5236 147TH AVENUE.
 COORDINATES: N= 464457 E= 12668499 ELEV= 653.424



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GRAPHIC SCALE

(IN FEET)
 H: 1" = 40' ; V: 1" = 5'

811
 Know what's below.
 Call before you dig.

PRIOR TO CONSTRUCTION, ALL LOCATIONS AND DEPTHS OF EXISTING UTILITIES (IN CONFLICT WITH PROPOSED IMPROVEMENTS) SHALL BE VERIFIED IN THE FIELD. CALL MISS DIG 3 WORKING DAYS PRIOR TO CONSTRUCTION.

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40TH STREET RECONSTRUCTION

CONSTRUCTION PLAN STA 80+50 TO STA 90+50

SECTION 04/05
 TOWN 4N RANGE 15W
 CITY/TOWNSHIP HOLLAND
 COUNTY ALLEGAN

NO.	DATE	SUBMITTAL

VERIFY SCALES
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DRAFTER A. TEMPLE	03-04-26
DESIGNER A. TEMPLE	03-04-26
CHECKED BY C. HARRINGTON	03-04-26
PROJECT MANAGER L. BERKENPAS	03-04-26
DEPARTMENT MANAGER APPROVAL J. SCHROT	03-04-26

JOB NO. H024001	DRAWING NO. H024001CON2
SCALE H: 1" = 40' ; V: 1" = 5'	SHEET NO. 16 OF 37

Plotted: Mar 4, 2026, 2:16 PM by user: 1219 - Saved: 3/4/2026 by user: 1219
 J:\HN\H024001 - 40TH STREET RECONSTRUCTION\DWG\H024001CON2.dwg



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GRAPHIC SCALE



(IN FEET)
1" = 10'



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**40TH STREET
RECONSTRUCTION**

DETAIL GRADING
INDUSTRIAL AVENUE

SECTION 04/05

TOWN 4N RANGE 15W
CITY/TOWNSHIP HOLLAND
COUNTY ALLEGAN

NO.	DATE	SUBMITTAL

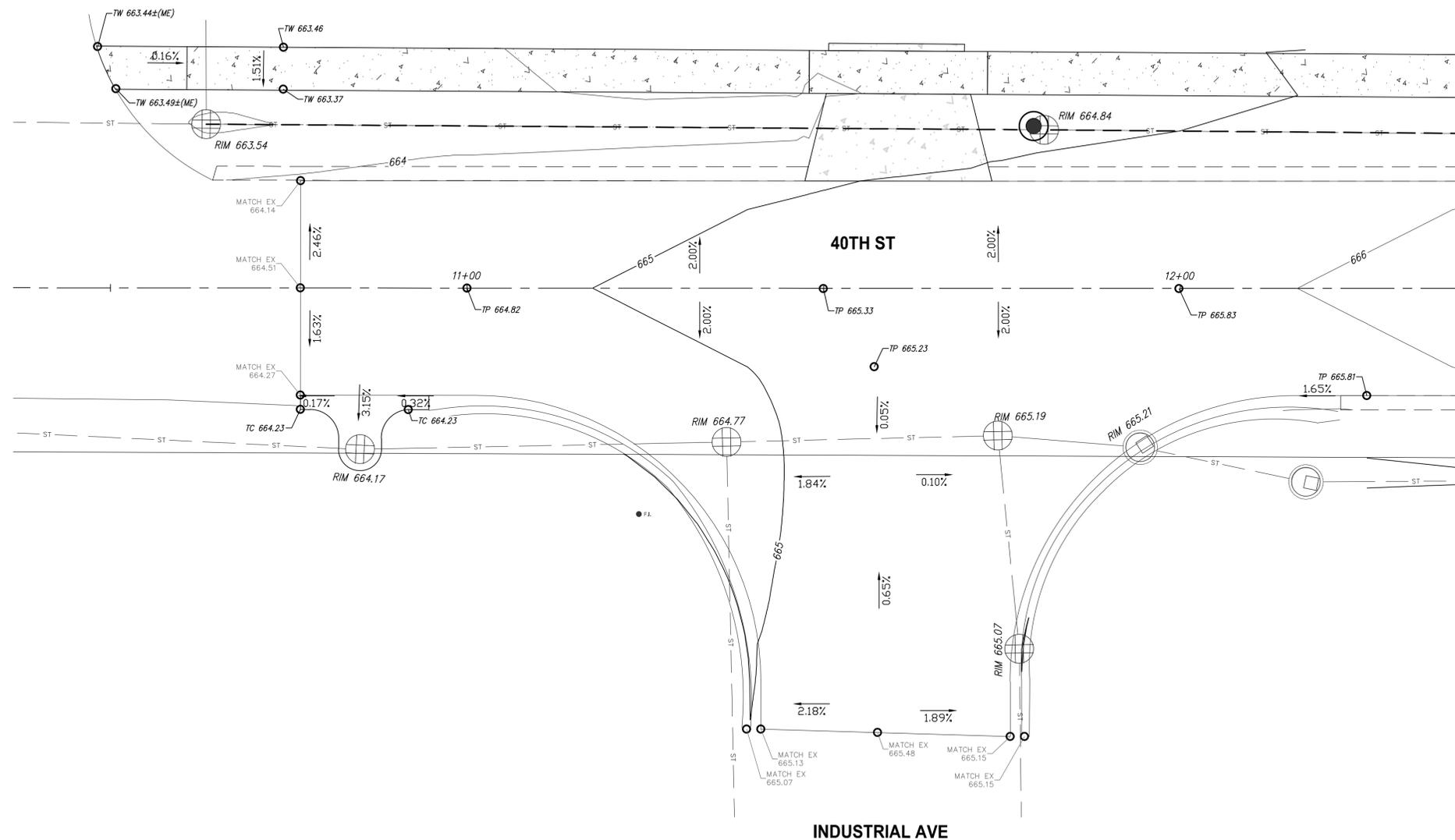
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DRAFTER <i>B. CARLSTROM</i>	03-04-26
DESIGNER <i>B. CARLSTROM</i>	03-04-26
CHECKED BY <i>A. TEMPLE</i>	03-04-26
PROJECT MANAGER <i>L. BERKENPAS</i>	03-04-26
DEPARTMENT MANAGER APPROVAL <i>J. SCHROT</i>	03-04-26

JOB NO. H024001	DRAWING NO. H024001GRP
SCALE: 1" = 40'	SHEET NO. 17 OF 37

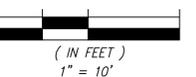
VASSAR AVE





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GRAPHIC SCALE



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40TH STREET RECONSTRUCTION

DETAIL GRADING BROOKS AVENUE

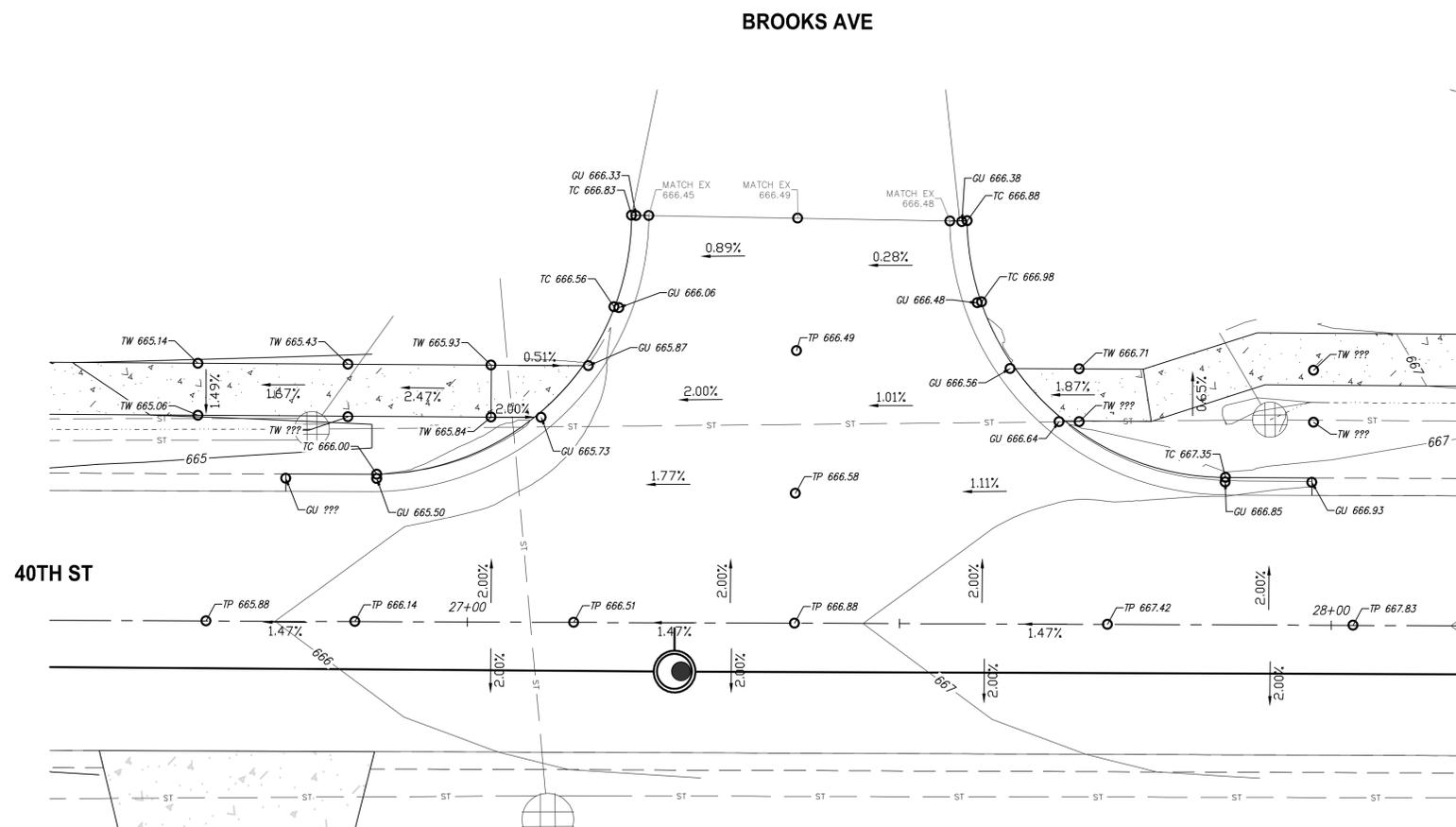
SECTION 04/05
TOWN 4N RANGE 15W
CITY/TOWNSHIP HOLLAND
COUNTY ALLEGAN

NO.	DATE	SUBMITTAL

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DRAFTER B. CARLSTROM	03-04-26
DESIGNER B. CARLSTROM	03-04-26
CHECKED BY A. TEMPLE	03-04-26
PROJECT MANAGER L. BERKENPAS	03-04-26
DEPARTMENT MANAGER APPROVAL J. SCHROT	03-04-26

JOB NO. H024001	DRAWING NO. H024001GRP
SCALE: 1" = 40'	SHEET NO. 18 OF 37



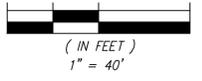


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40TH STREET RECONSTRUCTION

UTILITY PLAN STA 10+50 TO STA 20+50

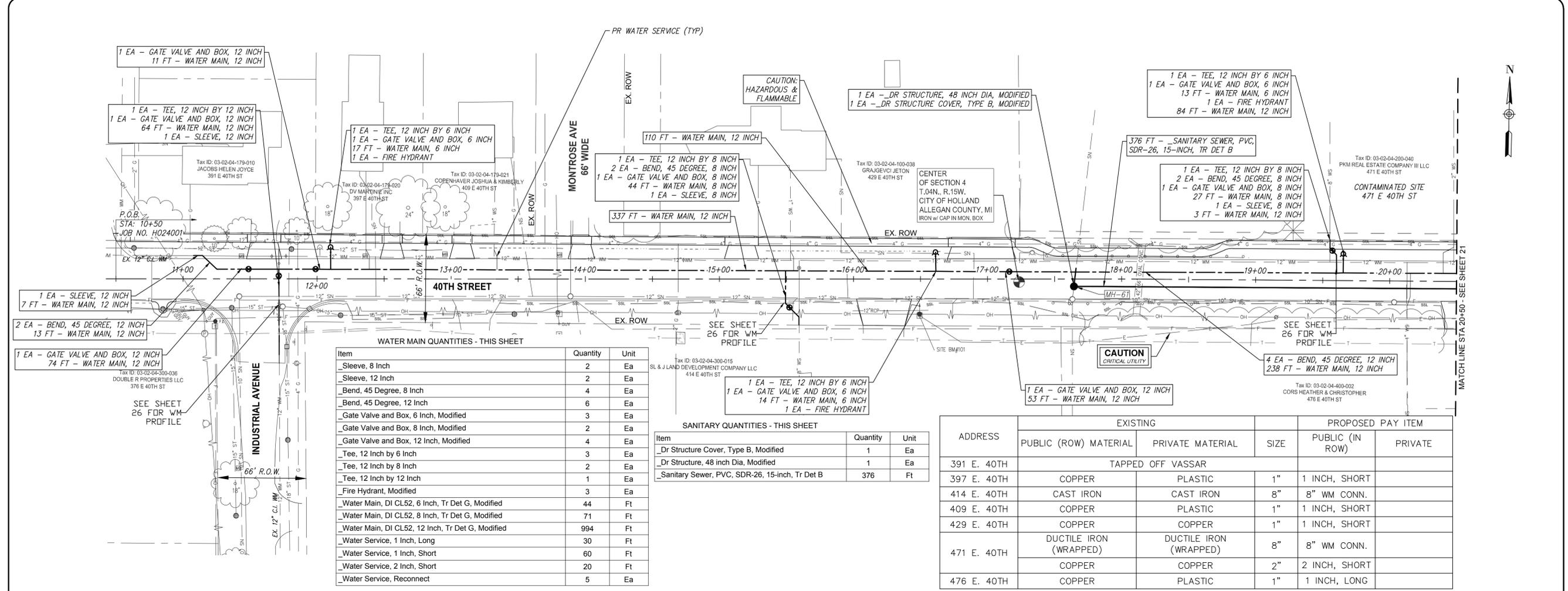
SECTION 04/05
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 COUNTY ALLEGAN

NO.	DATE	SUBMITTAL

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DRAFTER A. TEMPLE	03-04-26
DESIGNER A. TEMPLE	03-04-26
CHECKED BY C. HARRINGTON	03-04-26
PROJECT MANAGER L. BERKENPAS	03-04-26
DEPARTMENT MANAGER APPROVAL J. SCHROT	03-04-26

JOB NO. H024001	DRAWING NO. H024001UTL1
SCALE: 1:40	SHEET NO. 20 OF 37



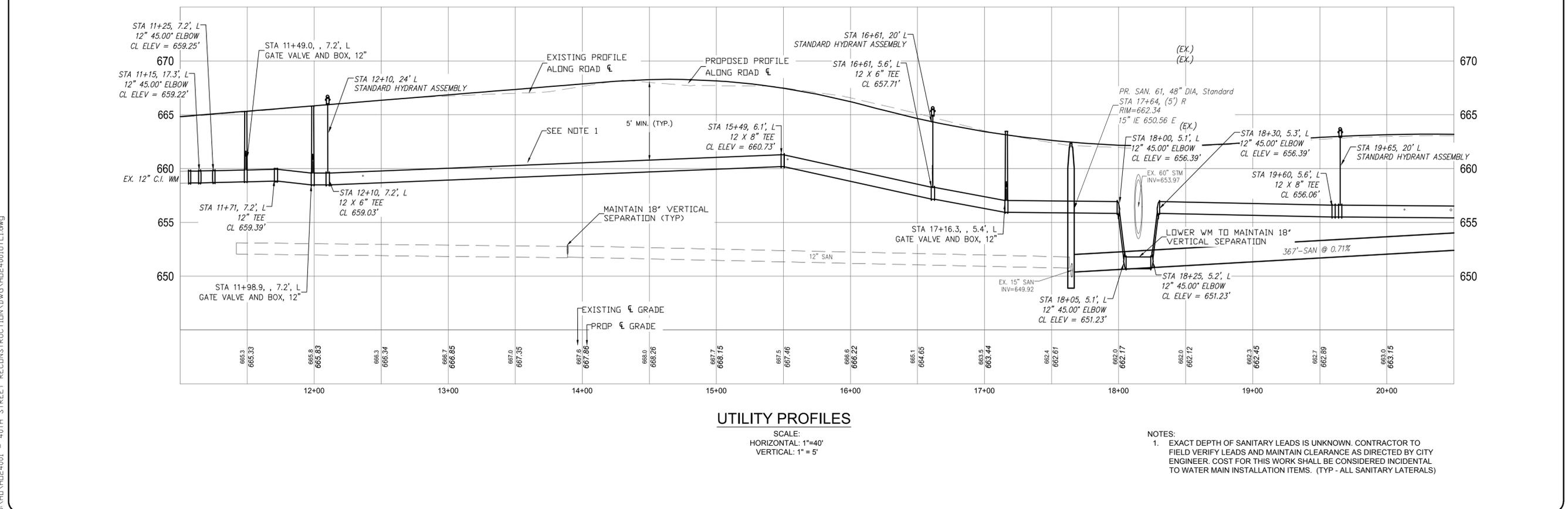
WATER MAIN QUANTITIES - THIS SHEET

Item	Quantity	Unit
_Sleeve, 8 Inch	2	Ea
_Sleeve, 12 Inch	2	Ea
_Bend, 45 Degree, 8 Inch	4	Ea
_Bend, 45 Degree, 12 Inch	6	Ea
_Gate Valve and Box, 6 Inch, Modified	3	Ea
_Gate Valve and Box, 8 Inch, Modified	2	Ea
_Gate Valve and Box, 12 Inch, Modified	4	Ea
_Tee, 12 Inch by 6 Inch	3	Ea
_Tee, 12 Inch by 8 Inch	2	Ea
_Tee, 12 Inch by 12 Inch	1	Ea
_Fire Hydrant, Modified	3	Ea
_Water Main, DI CL52, 6 Inch, Tr Det G, Modified	44	Ft
_Water Main, DI CL52, 8 Inch, Tr Det G, Modified	71	Ft
_Water Main, DI CL52, 12 Inch, Tr Det G, Modified	994	Ft
_Water Service, 1 Inch, Long	30	Ft
_Water Service, 1 Inch, Short	60	Ft
_Water Service, 2 Inch, Short	20	Ft
_Water Service, Reconnect	5	Ea

SANITARY QUANTITIES - THIS SHEET

Item	Quantity	Unit
_Dr Structure Cover, Type B, Modified	1	Ea
_Dr Structure, 48 Inch Dia, Modified	1	Ea
_Sanitary Sewer, PVC, SDR-26, 15-inch, Tr Det B	376	Ft

ADDRESS	EXISTING			PROPOSED PAY ITEM	
	PUBLIC (ROW)	MATERIAL	PRIVATE MATERIAL	SIZE	PUBLIC (IN ROW) PRIVATE
391 E. 40TH	TAPPED OFF VASSAR				
397 E. 40TH	COPPER	PLASTIC	1"	1 INCH, SHORT	
414 E. 40TH	CAST IRON	CAST IRON	8"	8" WM CONN.	
409 E. 40TH	COPPER	PLASTIC	1"	1 INCH, SHORT	
429 E. 40TH	COPPER	COPPER	1"	1 INCH, SHORT	
471 E. 40TH	DUCTILE IRON (WRAPPED)	DUCTILE IRON (WRAPPED)	8"	8" WM CONN.	
	COPPER	COPPER	2"	2 INCH, SHORT	
476 E. 40TH	COPPER	PLASTIC	1"	1 INCH, LONG	



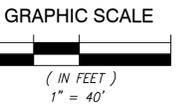
UTILITY PROFILES

SCALE:
 HORIZONTAL: 1"=40'
 VERTICAL: 1" = 5'

NOTES:
 1. EXACT DEPTH OF SANITARY LEADS IS UNKNOWN. CONTRACTOR TO FIELD VERIFY LEADS AND MAINTAIN CLEARANCE AS DIRECTED BY CITY ENGINEER. COST FOR THIS WORK SHALL BE CONSIDERED INCIDENTAL TO WATER MAIN INSTALLATION ITEMS. (TYP - ALL SANITARY LATERALS)



Holland MICHIGAN



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40TH STREET RECONSTRUCTION

UTILITY PLAN STA. 20+50 TO STA. 30+50

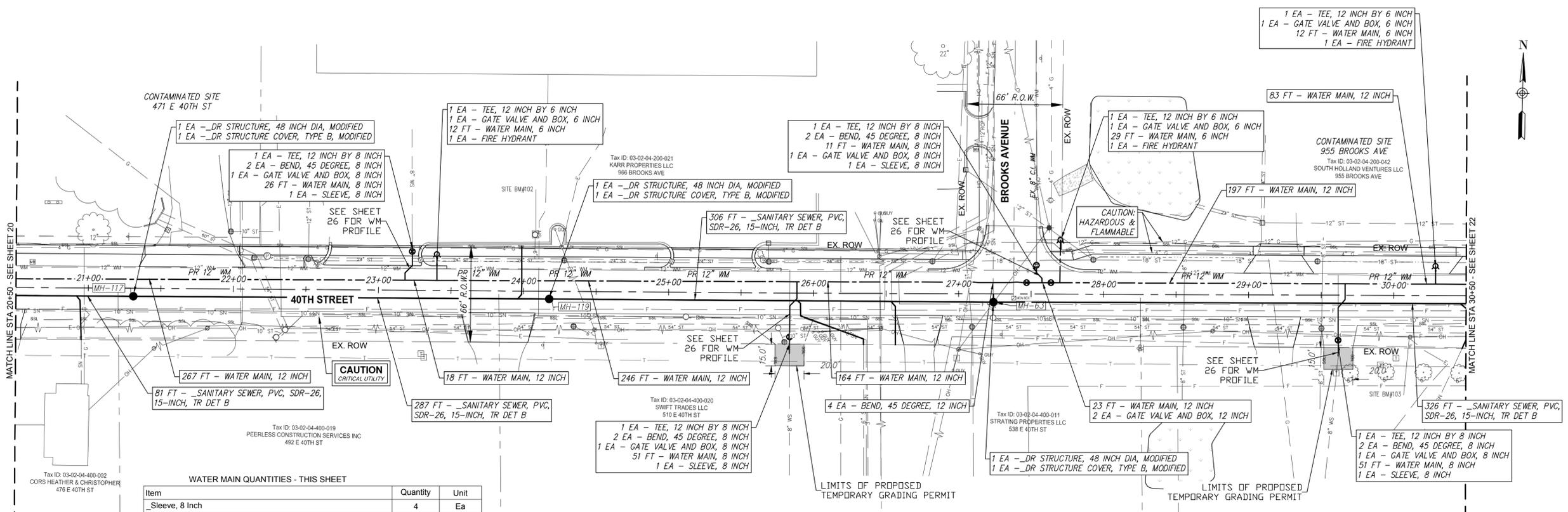
SECTION 04/05
 TOWN 4N RANGE 15W
 CITY/TOWNSHIP HOLLAND
 COUNTY ALLEGAN

NO.	DATE	SUBMITTAL

VERIFY SCALES
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 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DRAFTER A. TEMPLE	03-04-26
DESIGNER A. TEMPLE	03-04-26
CHECKED BY C. HARRINGTON	03-04-26
PROJECT MANAGER L. BERKENPAS	03-04-26
DEPARTMENT MANAGER APPROVAL J. SCHROT	03-04-26

JOB NO. H024001	DRAWING NO. H024001UTL1
SCALE 1:40	SHEET NO. 21 OF 37



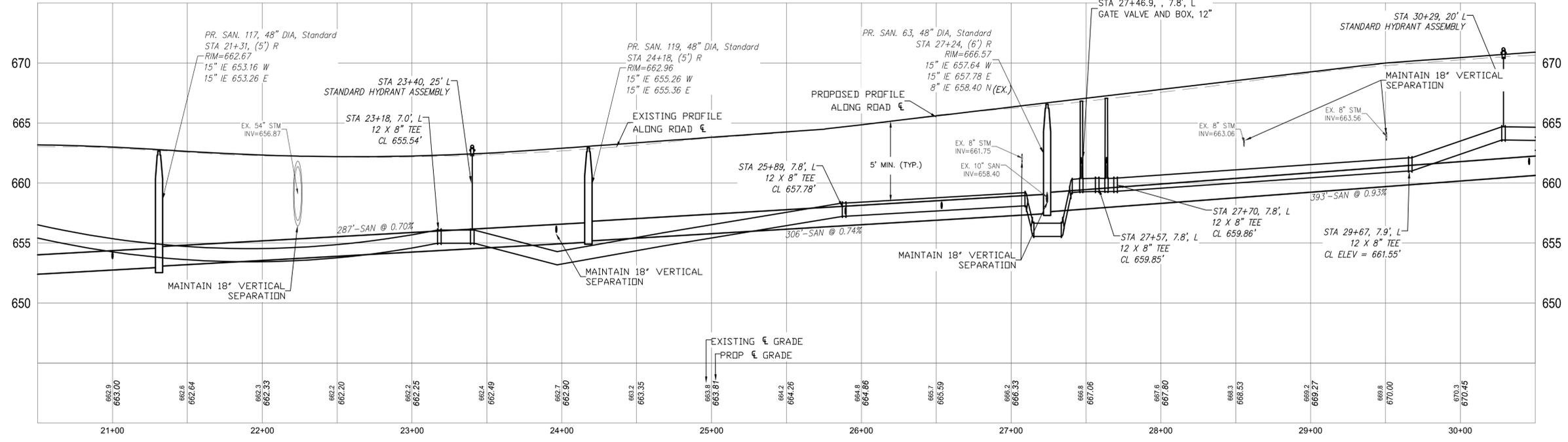
WATER MAIN QUANTITIES - THIS SHEET

Item	Quantity	Unit
_ Sleeve, 8 Inch	4	Ea
_ Bend, 45 Degree, 8 Inch	8	Ea
_ Bend, 45 Degree, 12 Inch	4	Ea
_ Gate Valve and Box, 6 Inch, Modified	3	Ea
_ Gate Valve and Box, 8 Inch, Modified	4	Ea
_ Gate Valve and Box, 12 Inch, Modified	2	Ea
_ Tee, 12 Inch by 6 Inch	3	Ea
_ Tee, 12 Inch by 8 Inch	4	Ea
_ Fire Hydrant, Modified	3	Ea
_ Water Main, DI CL52, 6 Inch, Tr Det G, Modified	53	Ft
_ Water Main, DI CL52, 8 Inch, Tr Det G, Modified	139	Ft
_ Water Main, DI CL52, 12 Inch, Tr Det G, Modified	998	Ft

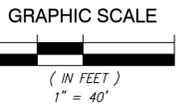
SANITARY QUANTITIES - THIS SHEET

Item	Quantity	Unit
_ Dr Structure Cover, Type B, Modified	3	Ea
_ Dr Structure, 48 inch Dia, Modified	3	Ea
_ Sanitary Sewer, PVC, SDR-26, 15-inch, Tr Det B	1000	Ft
_ Sanitary Lateral, PVC, SDR 26, 6 inch, Tr Det B	160	Ft
_ Wye, 15-inch by 6-inch	5	Ea

ADDRESS	EXISTING			PROPOSED PAY ITEM	
	PUBLIC (ROW) MATERIAL	PRIVATE MATERIAL	SIZE	PUBLIC (IN ROW)	PRIVATE
966 BROOKS AVE.	DUCTILE IRON	DUCTILE IRON	8"	8" WM CONN.	
	TAPPED OFF BROOKS				
510 E. 40TH	DUCTILE IRON (WRAPPED)	DUCTILE IRON (WRAPPED)	8"	8" WM CONN.	
588 E. 40TH	CAST IRON	CAST IRON	8"	8" WM CONN.	
955 BROOKS	TAPPED OFF BROOKS				



UTILITY PROFILES
 SCALE:
 HORIZONTAL: 1"=40'
 VERTICAL: 1"=5'



Know what's below. Call before you dig.
 PRIOR TO CONSTRUCTION, ALL LOCATIONS AND DEPTHS OF EXISTING UTILITIES (IN CONFLICT WITH PROPOSED IMPROVEMENTS) SHALL BE VERIFIED IN THE FIELD. CALL MISS DIG 3 WORKING DAYS PRIOR TO CONSTRUCTION.
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40TH STREET RECONSTRUCTION

UTILITY PLAN STA 30+50 TO STA 40+50

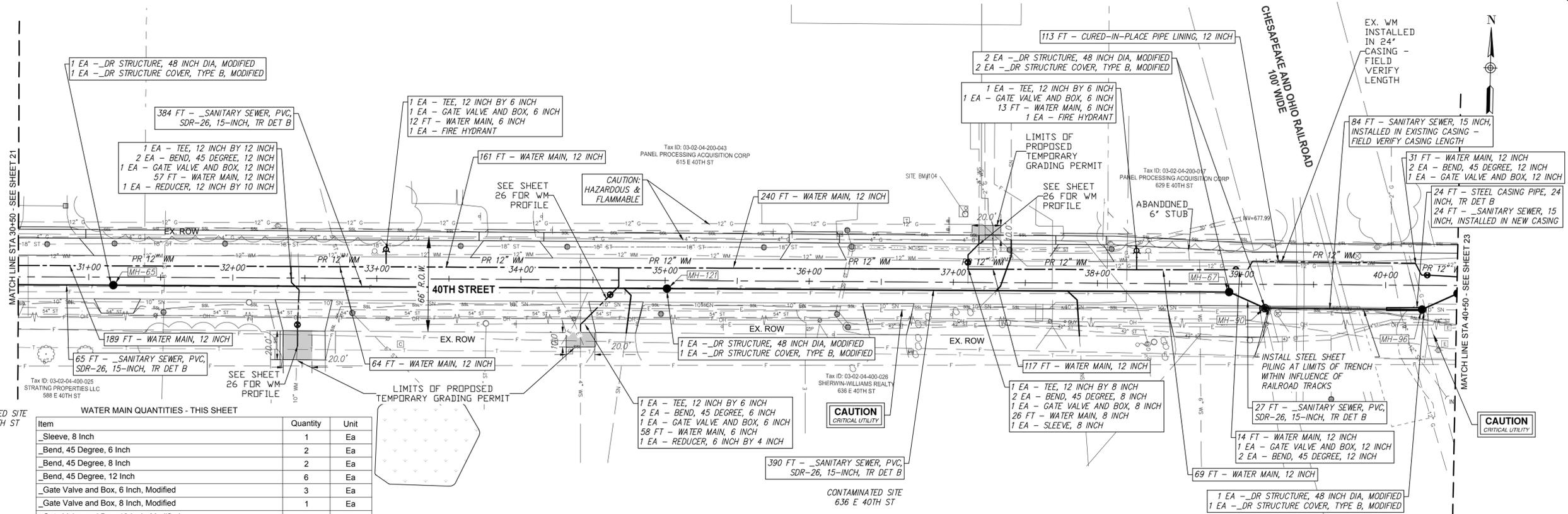
SECTION 04/05
 TOWN 4N RANGE 15W
 CITY/TOWNSHIP HOLLAND
 COUNTY ALLEGAN

NO.	DATE	SUBMITTAL

VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DRAFTER A. TEMPLE	03-04-26
DESIGNER A. TEMPLE	03-04-26
CHECKED BY C. HARRINGTON	03-04-26
PROJECT MANAGER L. BERKENPAS	03-04-26
DEPARTMENT MANAGER APPROVAL J. SCHROT	03-04-26

JOB NO. H024001	DRAWING NO. H024001UTL1
SCALE 1:40	SHEET NO. 22 OF 37



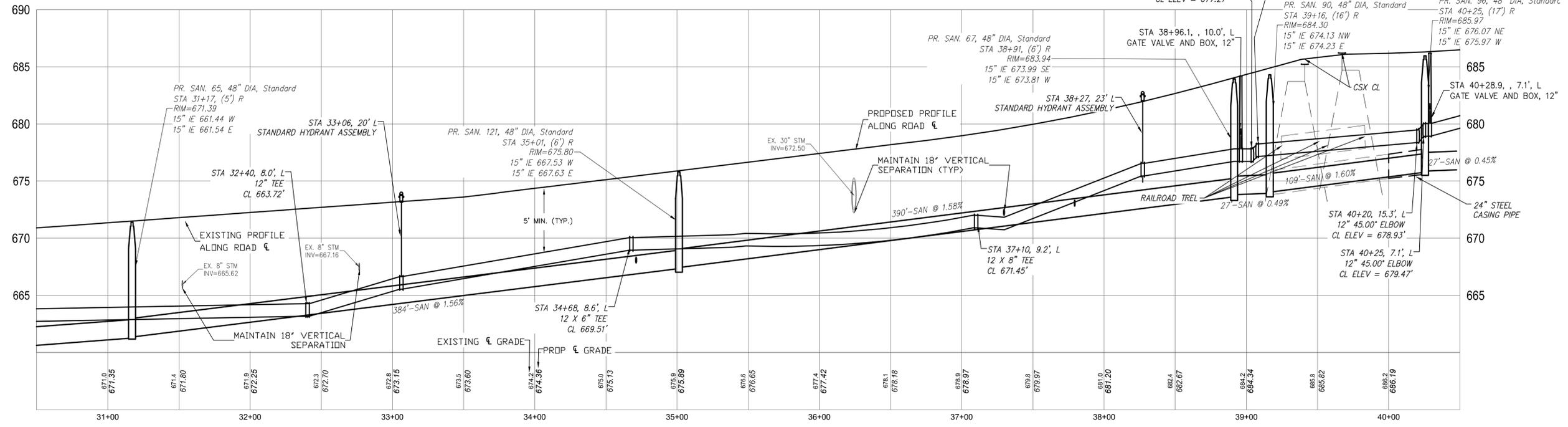
WATER MAIN QUANTITIES - THIS SHEET

Item	Quantity	Unit
_Sleeve, 8 Inch	1	Ea
_Bend, 45 Degree, 6 Inch	2	Ea
_Bend, 45 Degree, 8 Inch	2	Ea
_Bend, 45 Degree, 12 Inch	6	Ea
_Gate Valve and Box, 6 Inch, Modified	3	Ea
_Gate Valve and Box, 8 Inch, Modified	1	Ea
_Gate Valve and Box, 12 Inch, Modified	3	Ea
_Tee, 12 Inch by 6 Inch	3	Ea
_Tee, 12 Inch by 8 Inch	1	Ea
_Tee, 12 Inch by 12 Inch	1	Ea
_Reducer, 6 Inch by 4 Inch	1	Ea
_Reducer, 12 Inch by 10 Inch	1	Ea
_Fire Hydrant, Modified	2	Ea
_Water Main, DI CL52, 6 Inch, Tr Det G, Modified	83	Ft
_Water Main, DI CL52, 8 Inch, Tr Det G, Modified	26	Ft
_Water Main, DI CL52, 12 Inch, Tr Det G, Modified	939	Ft
_Water Service, 2 Inch, Short	20	Ft
_Water Service, Reconnect	1	Ea
_Water Service, 2 Inch, Curb Box to Interior (Over 40 Ft)	200	Ft
_Cured-in-Place Pipe Lining, 12 Inch	113	Ft

SANITARY QUANTITIES - THIS SHEET

Item	Quantity	Unit
_Dr Structure Cover, Type B, Modified	5	Ea
_Dr Structure, 48 inch Dia, Modified	5	Ea
_Sanitary Sewer, PVC, SDR-26, 15-inch, Tr Det B	901	Ft
_Sanitary Lateral, PVC, SDR 26, 6 inch, Tr Det B	96	Ft
_Wye, 15-inch by 6-inch	3	Ea
_Sanitary Sewer, 15 Inch, Installed in Existing Casing	84	Ft
_Sanitary Sewer, 15 Inch, Installed in New Casing	24	Ft
Steel Casing Pipe, 24 Inch, Tr Det B	24	Ft
Steel Sheet Piling, Temp	600	Ft

ADDRESS	EXISTING		PROPOSED PAY ITEM		
	PUBLIC (ROW)	PRIVATE MATERIAL	SIZE	PUBLIC (IN ROW)	PRIVATE
588 E. 40TH	ABANDONED		1"		
636 E. 40TH	DUCTILE IRON	DUCTILE IRON	10"	12" WM CONNECTION	
	DUCTILE IRON	DUCTILE IRON	4"	6" WM CONNECTION	
615 E. 40TH	ABANDONED		6"		
	CAST IRON	CAST IRON	8"	8" WM CONNECTION	
	GALVANIZED	GALVANIZED	2"	2 INCH, SHORT	2 INCH, CURB BOX TO INTERIOR

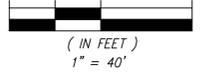


UTILITY PROFILES

SCALE:
 HORIZONTAL: 1"=40'
 VERTICAL: 1"=5'



GRAPHIC SCALE



Know what's below.
Call before you dig.

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40TH STREET RECONSTRUCTION

UTILITY PLAN STA 40+50 TO STA 50+50

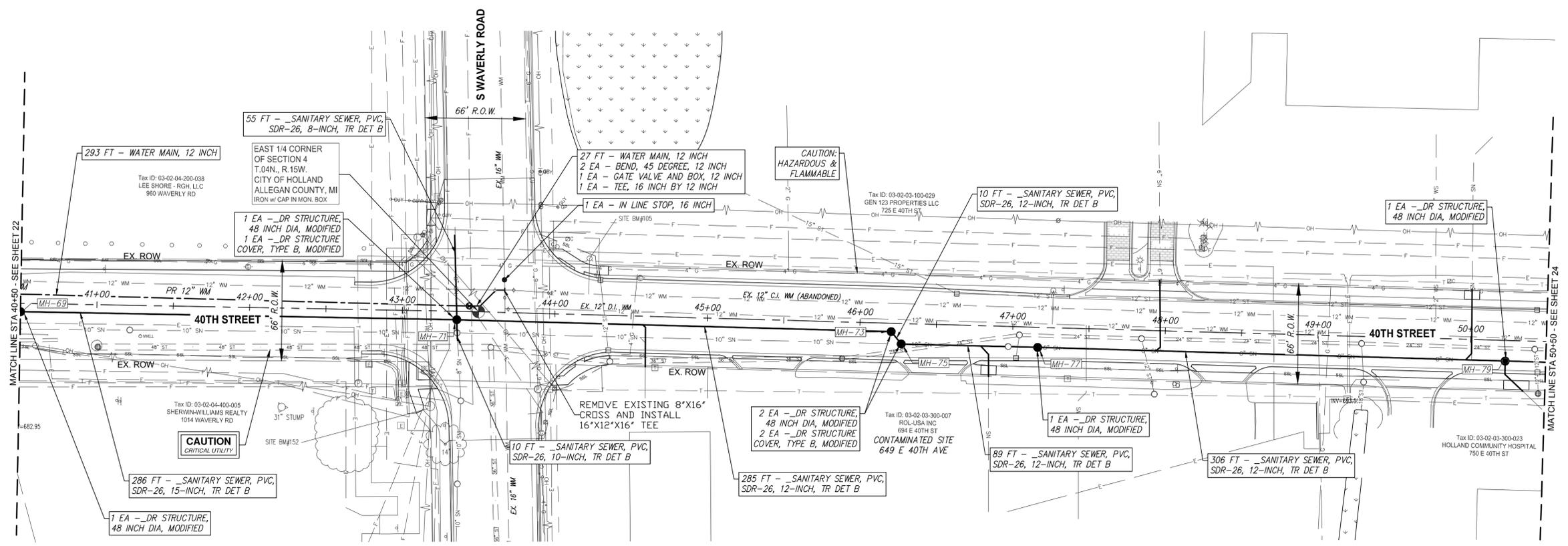
SECTION 04/05
TOWN 4N RANGE 15W
CITY/TOWNSHIP HOLLAND
COUNTY ALLEGAN

NO.	DATE	SUBMITTAL

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

DRAFTER A. TEMPLE	03-04-26
DESIGNER A. TEMPLE	03-04-26
CHECKED BY C. HARRINGTON	03-04-26
PROJECT MANAGER L. BERKENPAS	03-04-26
DEPARTMENT MANAGER APPROVAL J. SCHROT	03-04-26

JOB NO. H024001	DRAWING NO. H024001UTL1
SCALE: 1:40	SHEET NO. 23 OF 37

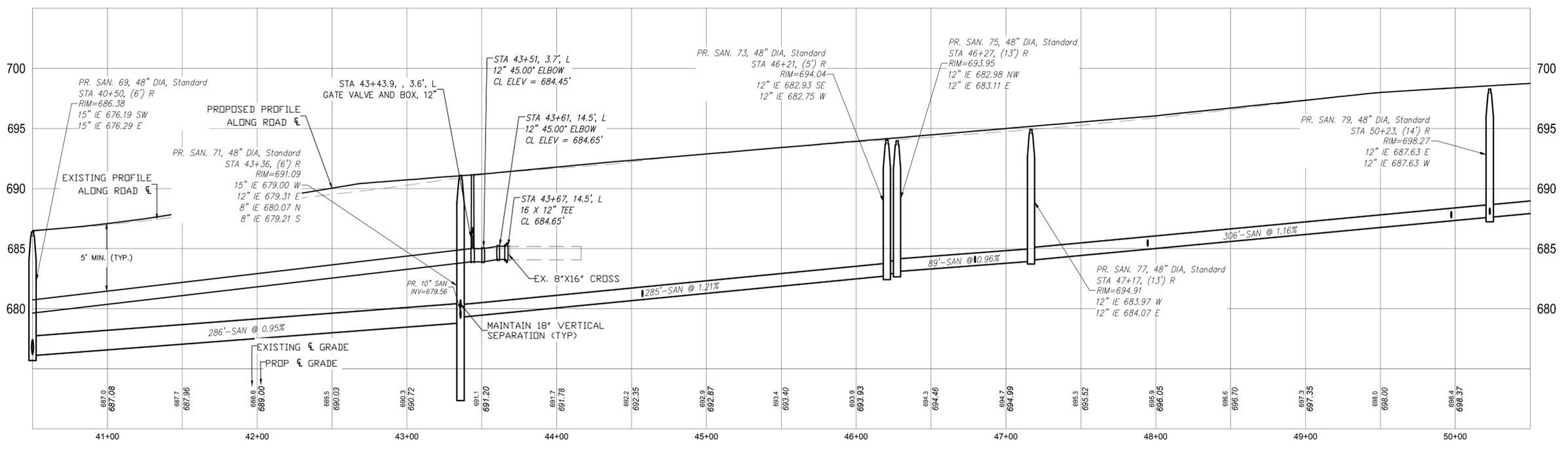


WATER MAIN QUANTITIES - THIS SHEET

Item	Quantity	Unit
_Bend, 45 Degree, 12 Inch	2	Ea
_Gate Valve and Box, 12 Inch, Modified	1	Ea
_Tee, 16 Inch by 12 Inch	1	Ea
_Water Main, DI CL52, 12 Inch, Tr Det G, Modified	320	Ft
_In Line Stop, 16 Inch	1	Ea

SANITARY QUANTITIES - THIS SHEET

Item	Quantity	Unit
_Dr Structure Cover, Type B, Modified	6	Ea
_Dr Structure, 48 inch Dia, Modified	6	Ea
_Sanitary Sewer, PVC, SDR-26, 8-inch, Tr Det B	65	Ft
_Sanitary Sewer, PVC, SDR-26, 12-inch, Tr Det B	716	Ft
_Sanitary Sewer, PVC, SDR-26, 15-inch, Tr Det B	286	Ft
_Sanitary Lateral, PVC, SDR 26, 6 inch, Tr Det B	160	Ft
_Wye, 12-inch by 6-inch	5	Ea



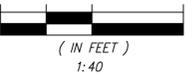
UTILITY PROFILES

SCALE:
HORIZONTAL: 1"=40'
VERTICAL: 1"=5'



Holland
MICHIGAN

GRAPHIC SCALE



Know what's below.
Call before you dig.

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40TH STREET RECONSTRUCTION

UTILITY PLAN STA 50+50 TO STA 60+50

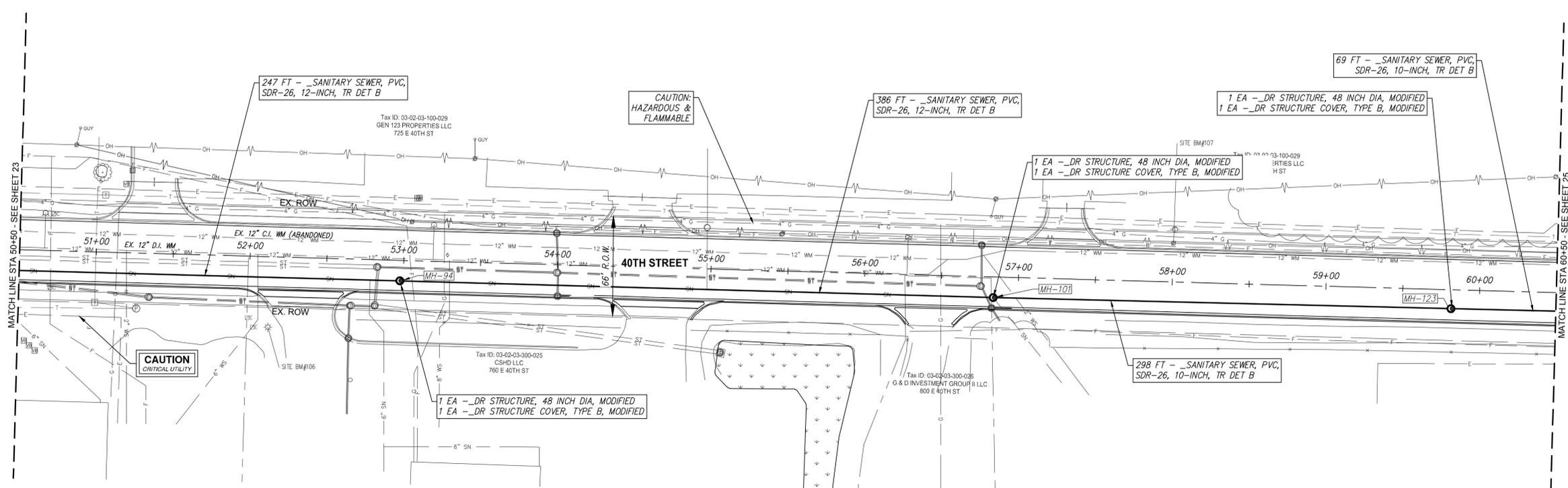
SECTION 04/05
TOWN 4N RANGE 15W
CITY/TOWNSHIP HOLLAND
COUNTY ALLEGAN

NO.	DATE	SUBMITTAL

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
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ADJUST SCALES ACCORDINGLY

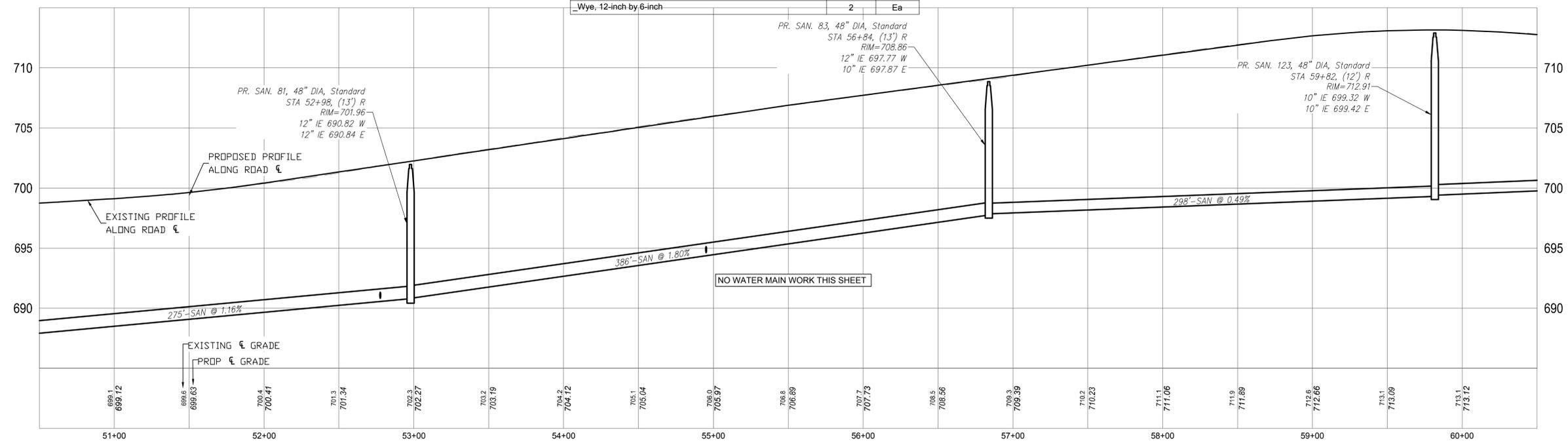
DRAFTER A. TEMPLE	03-04-26
DESIGNER A. TEMPLE	03-04-26
CHECKED BY C. HARRINGTON	03-04-26
PROJECT MANAGER L. BERKENPAS	03-04-26
DEPARTMENT MANAGER APPROVAL J. SCHROT	03-04-26

JOB NO. H024001	DRAWING NO. H024001UTL2
SCALE: 1:40	SHEET NO. 24 OF 37



SANITARY QUANTITIES - THIS SHEET

Item	Quantity	Unit
_Dr Structure Cover, Type B, Modified	3	Ea
_Dr Structure, 48 inch Dia, Modified	3	Ea
_Sanitary Sewer, PVC, SDR-26, 10-inch, Tr Det B	339	Ft
_Sanitary Sewer, PVC, SDR-26, 12-inch, Tr Det B	661	Ft
_Sanitary Lateral, PVC, SDR 26, 6 inch, Tr Det B	64	Ft
_Wye, 12-inch by 6-inch	2	Ea

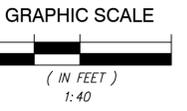


UTILITY PROFILES

SCALE:
HORIZONTAL: 1"=40'
VERTICAL: 1"= 5'



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40TH STREET RECONSTRUCTION

UTILITY PLAN STA
 60+50 TO STA 70+50

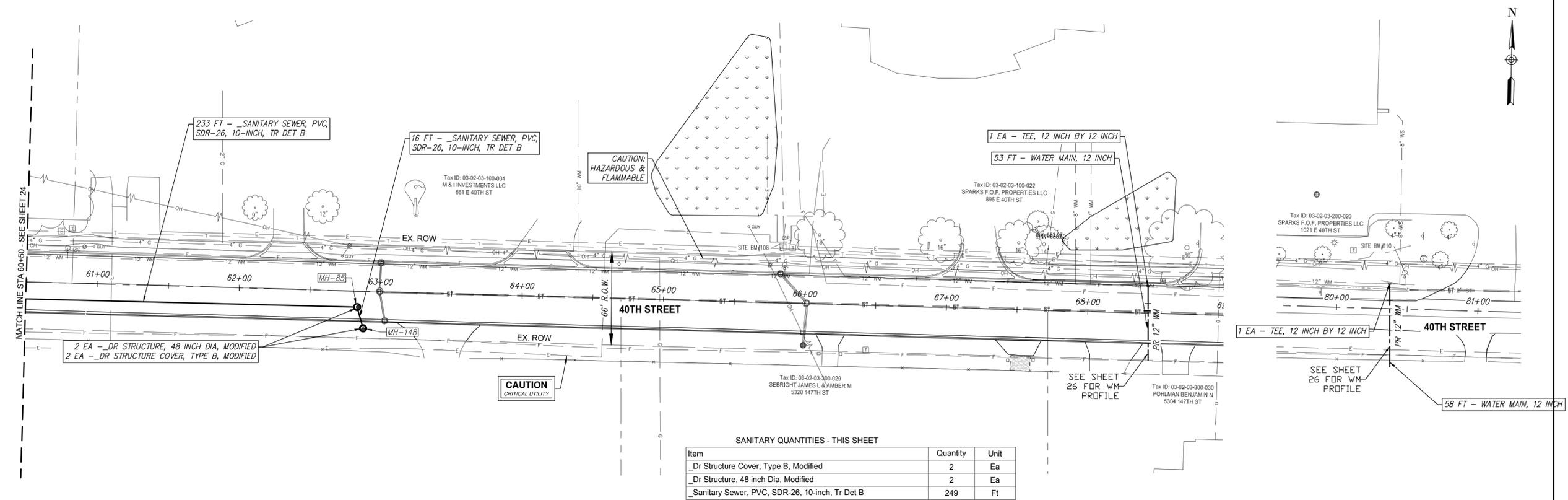
SECTION 04/05
 TOWN 4N RANGE 15W
 CITY/TOWNSHIP HOLLAND
 COUNTY ALLEGAN

NO.	DATE	SUBMITTAL

VERIFY SCALES
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 ADJUST SCALES ACCORDINGLY

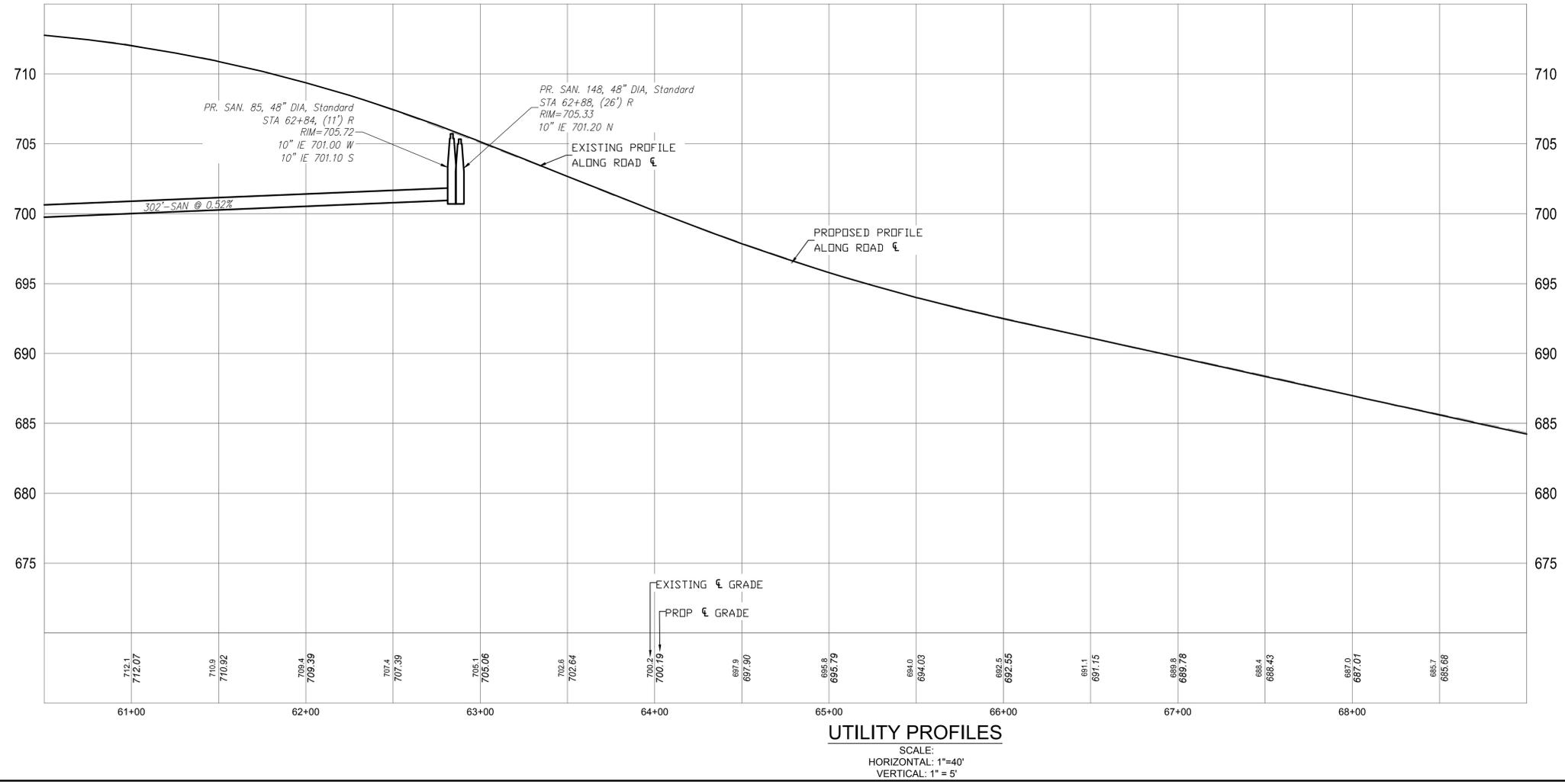
DRAFTER A. TEMPLE	03-04-26
DESIGNER A. TEMPLE	03-04-26
CHECKED BY C. HARRINGTON	03-04-26
PROJECT MANAGER L. BERKENPAS	03-04-26
DEPARTMENT MANAGER APPROVAL J. SCHROT	03-04-26

JOB NO. H024001	DRAWING NO. H024001UTL2
SCALE: 1:40	SHEET NO. 25 OF 37



SANITARY QUANTITIES - THIS SHEET

Item	Quantity	Unit
_Dr Structure Cover, Type B, Modified	2	Ea
_Dr Structure, 48 inch Dia, Modified	2	Ea
_Sanitary Sewer, PVC, SDR-26, 10-inch, Tr Det B	249	Ft

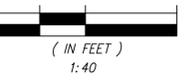


Plotted: Mar 4, 2025, 2:58 PM by user: 1219 - Saved: 12/19/2025 by user: charmington
 J:\H024001 - 40TH STREET RECONSTRUCTION\DWG\H024001UTL2.dwg



Holland
MICHIGAN

GRAPHIC SCALE



Know what's below.
Call before you dig.

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40TH STREET RECONSTRUCTION

WATER MAIN TIE-IN PROFILES

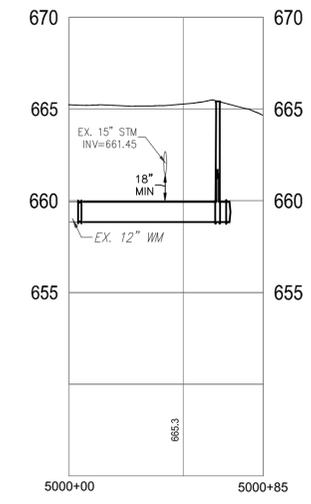
SECTION 04/05
 TOWN 4N RANGE 15W
 CITY/TOWNSHIP HOLLAND
 COUNTY ALLEGAN

NO.	DATE	SUBMITTAL

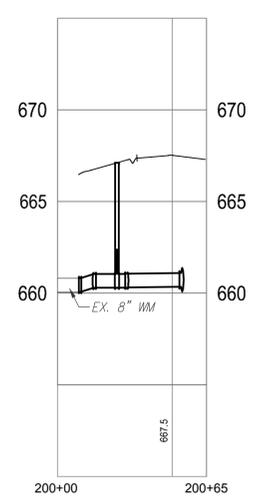
VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 IF NOT ONE INCH ON THIS SHEET,
 ADJUST SCALES ACCORDINGLY

DRAFTER A. JOHNSTONE	03-04-26
DESIGNER A. JOHNSTONE	03-04-26
CHECKED BY B. CARLSTROM	03-04-26
PROJECT MANAGER B. CARLSTROM	03-04-26
DEPARTMENT MANAGER APPROVAL J. SCHROT	03-04-26

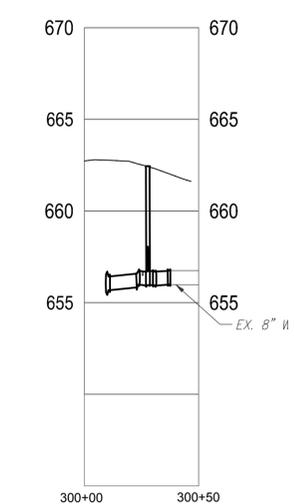
JOB NO. H024001	DRAWING NO. H024001UTL2
SCALE AS SHOWN	SHEET NO. 26 OF 37



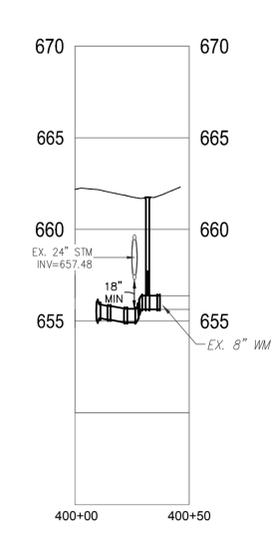
INDUSTRIAL AVE. CONNECTION
STA. 11+72



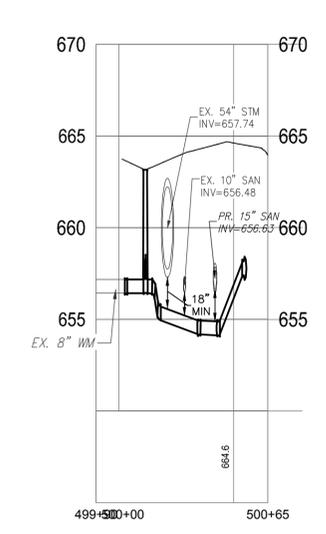
414 E. 40TH 8 IN SERVICE
STA. 15+49



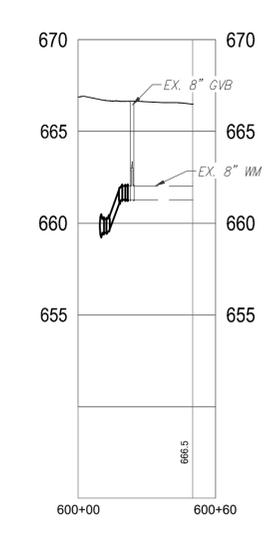
471 E. 40TH 8 IN SERVICE
STA. 19+60



966 BROOKS 8 IN SERVICE
STA. 23+18



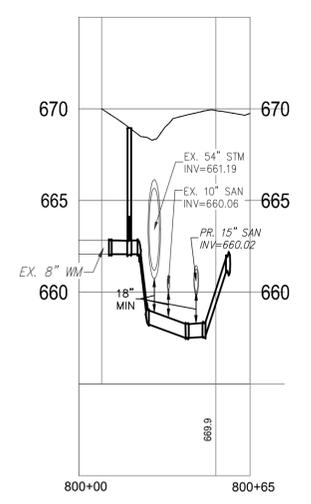
510 E. 40TH 8 IN SERVICE
STA. 25+89



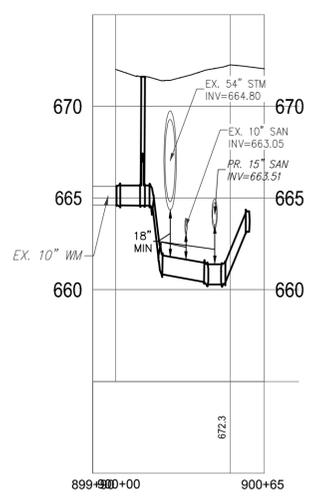
BROOKS ST. CONNECTION
STA. 27+67

WATER MAIN TIE-IN PROFILES

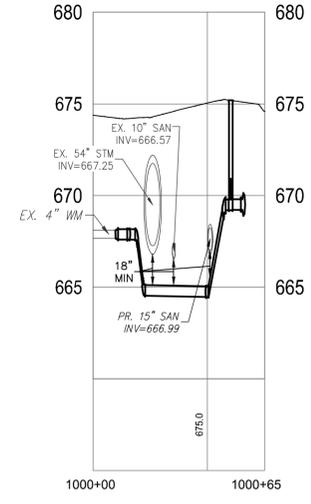
SCALE:
 HORIZONTAL: 1"=40'
 VERTICAL: 1"=5'



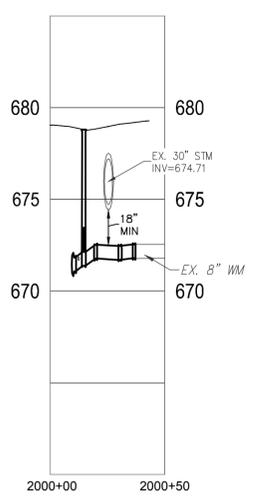
588 E 40TH ST 8 IN SERVICE
STA. 29+67



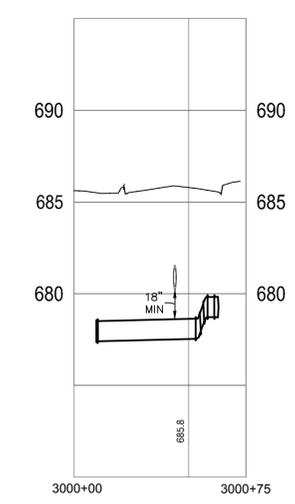
636 E 40TH ST 12 IN SERVICE
STA. 32+40



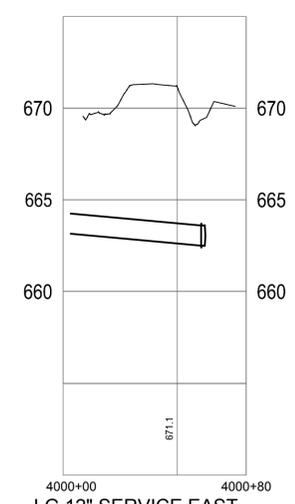
636 E 40TH ST 6 IN SERVICE
STA. 34+68



615 E 40TH ST 8 IN SERVICE
STA. 37+10



LG 12" SERVICE WEST
STA. 68+43



LG 12" SERVICE EAST
STA. 80+38

WATER MAIN TIE-IN PROFILES

SCALE:
 HORIZONTAL: 1"=40'
 VERTICAL: 1"=5'

Plotted: Mon, 4/22/2024, 2:28:28 PM by user: 1219 - Saved: 12/19/2025 by user: charnington
 J:\H024001 - 40TH STREET RECONSTRUCTION\DWG\H024001UTL2.dwg



Holland
MICHIGAN

GRAPHIC SCALE



(IN FEET)
1:40



Know what's below.
Call before you dig.

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40TH STREET RECONSTRUCTION

PAVEMENT MARKING

SECTION 04/05
TOWN 4N RANGE 15W
CITY/TOWNSHIP HOLLAND
COUNTY ALLEGAN

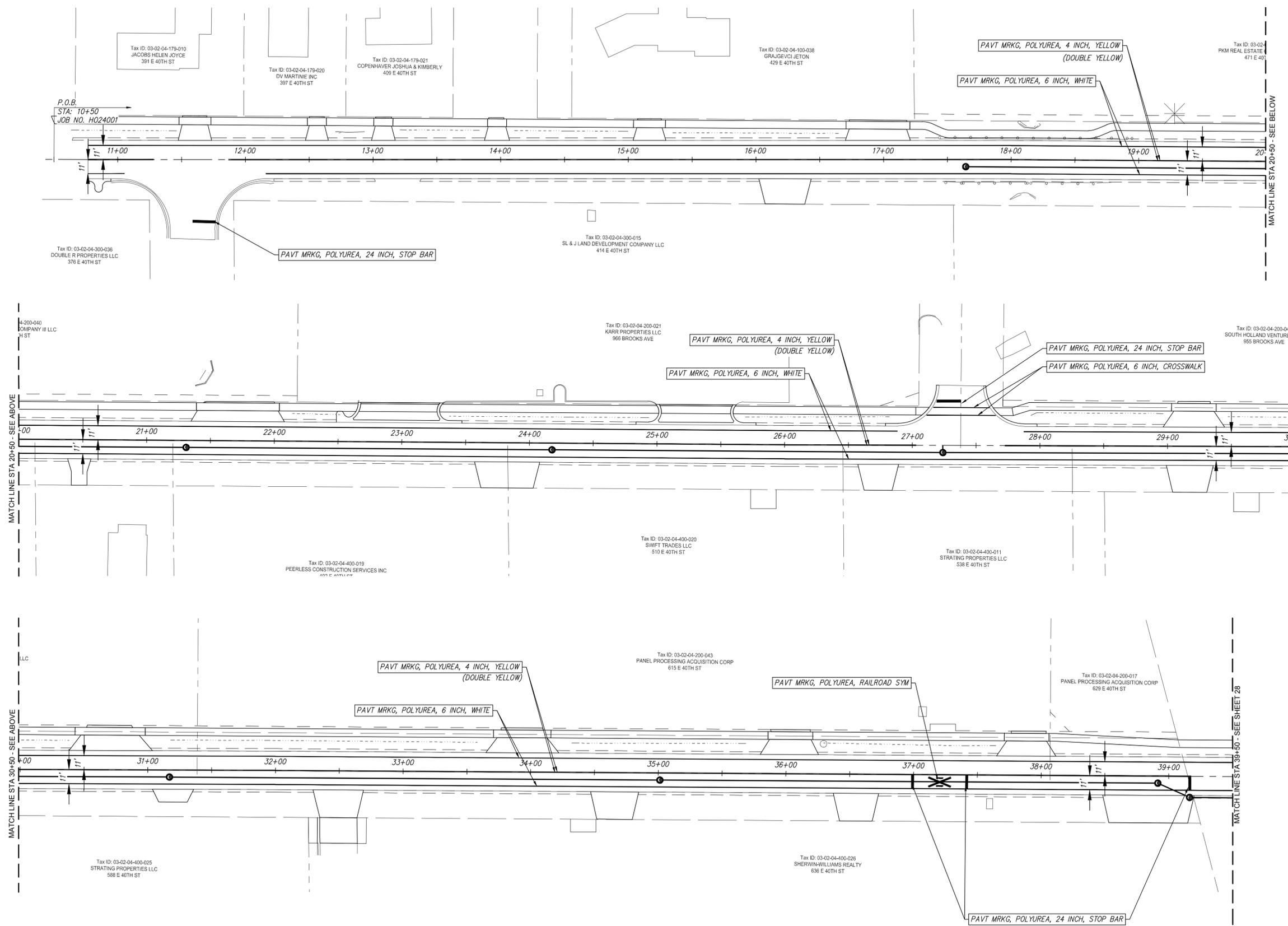
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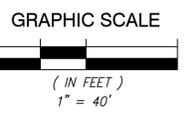
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DESIGNER A. TEMPLE	03-04-26
CHECKED BY C. HARRINGTON	03-04-26
PROJECT MANAGER L. BERKENPAS	03-04-26
DEPARTMENT MANAGER APPROVAL J. SCHROT	03-04-26

JOB NO. H024001	DRAWING NO. H024001PMK
SCALE: 1:40	SHEET NO. 27 OF 37



Plotted: Mar 4, 2026, 2:01 PM by user: 1219 - Saved: 1/6/2026 by user: charrington
 J:\H024001 - 40TH STREET RECONSTRUCTION\DWG\H024001PMK.dwg



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40TH STREET RECONSTRUCTION

PAVEMENT MARKING STA
 39+50 TO STA 69+50

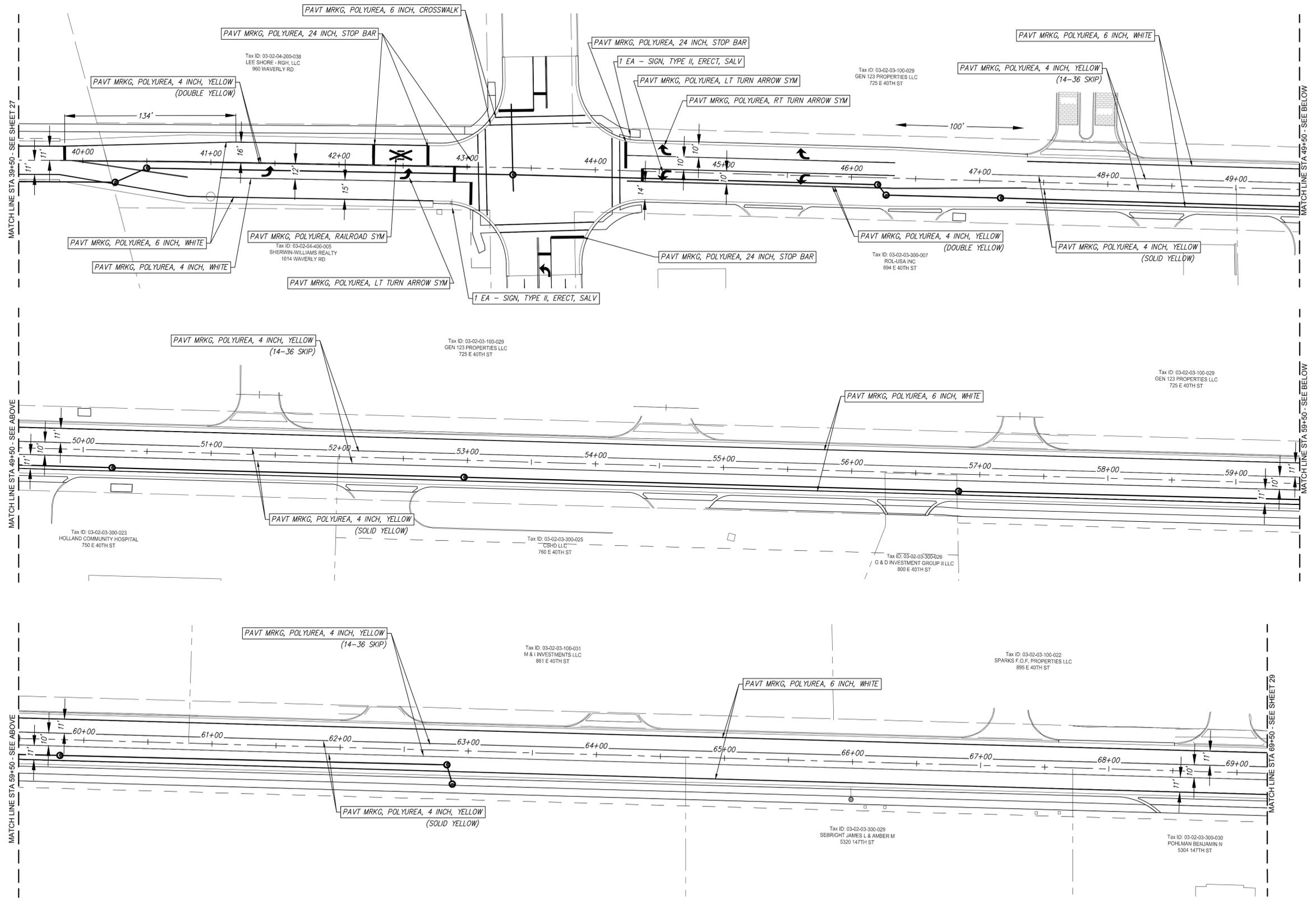
SECTION 04/05
 TOWN 4N RANGE 15W
 CITY/TOWNSHIP HOLLAND
 COUNTY ALLEGAN

NO.	DATE	SUBMITTAL

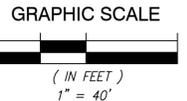
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DESIGNER B. CARLSTROM	03-04-26
CHECKED BY A. TEMPLE	03-04-26
PROJECT MANAGER L. BERKENPAS	03-04-26
DEPARTMENT MANAGER APPROVAL J. SCHROT	03-04-26

JOB NO. H024001	DRAWING NO. H024001PMK
SCALE 1" = 40'	SHEET NO. 28 OF 37



Plotted: Mon, 4/22/2024, 4:59 PM by user: 1219 - Saved: 3/14/2025 by user: 1219
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40TH STREET RECONSTRUCTION

PAVEMENT MARKING STA
 69+50 TO STA 84+50

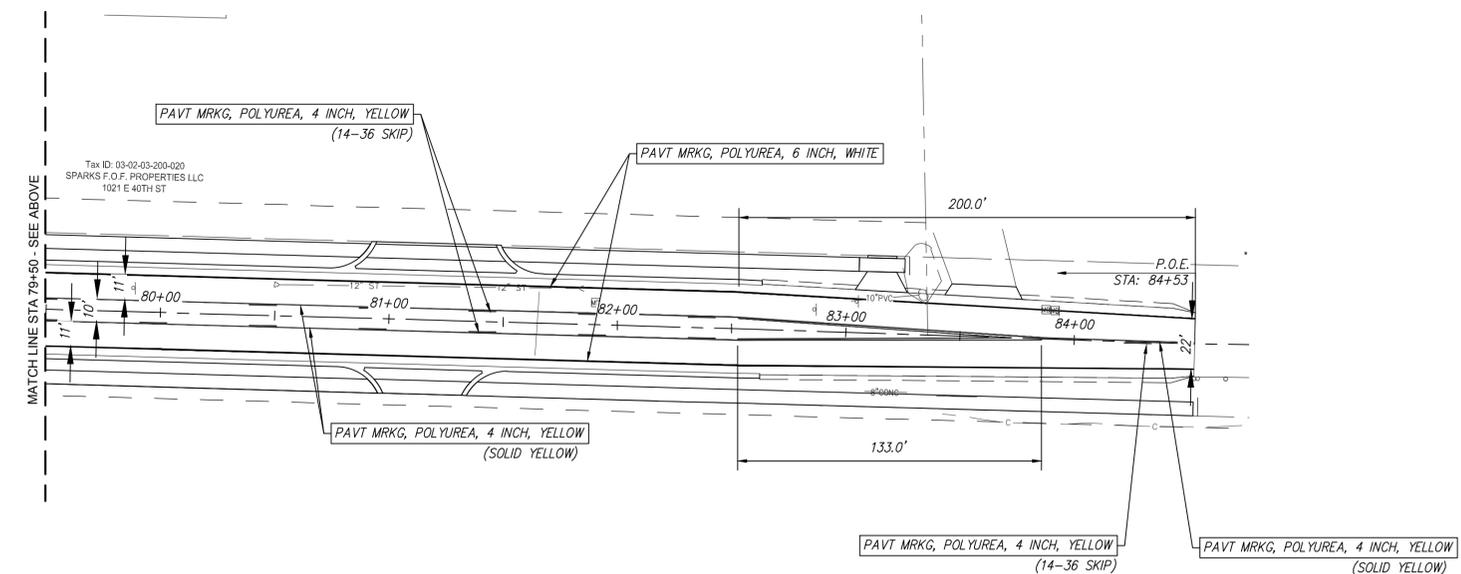
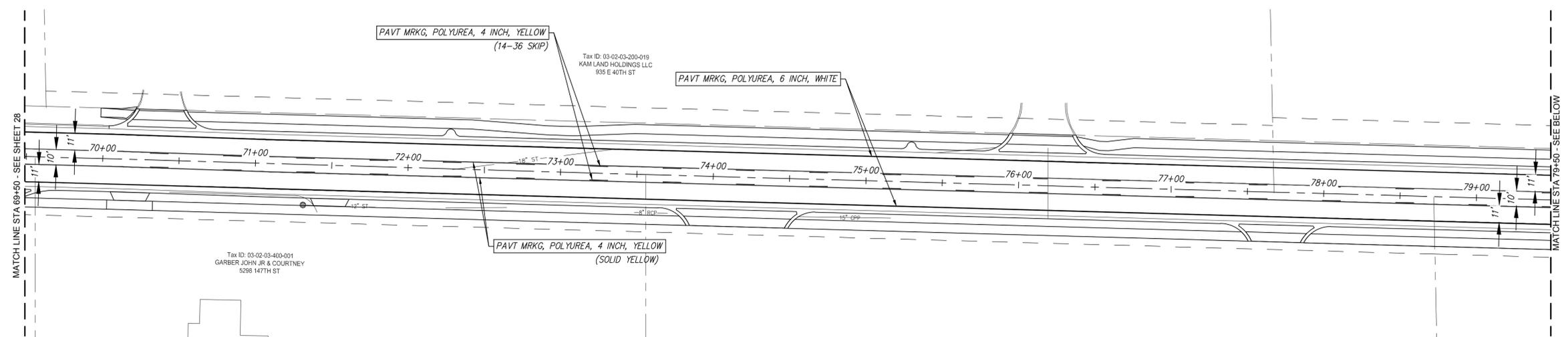
SECTION 04/05
 TOWN 4N RANGE 15W
 CITY/TOWNSHIP HOLLAND
 COUNTY ALLEGAN

NO.	DATE	SUBMITTAL

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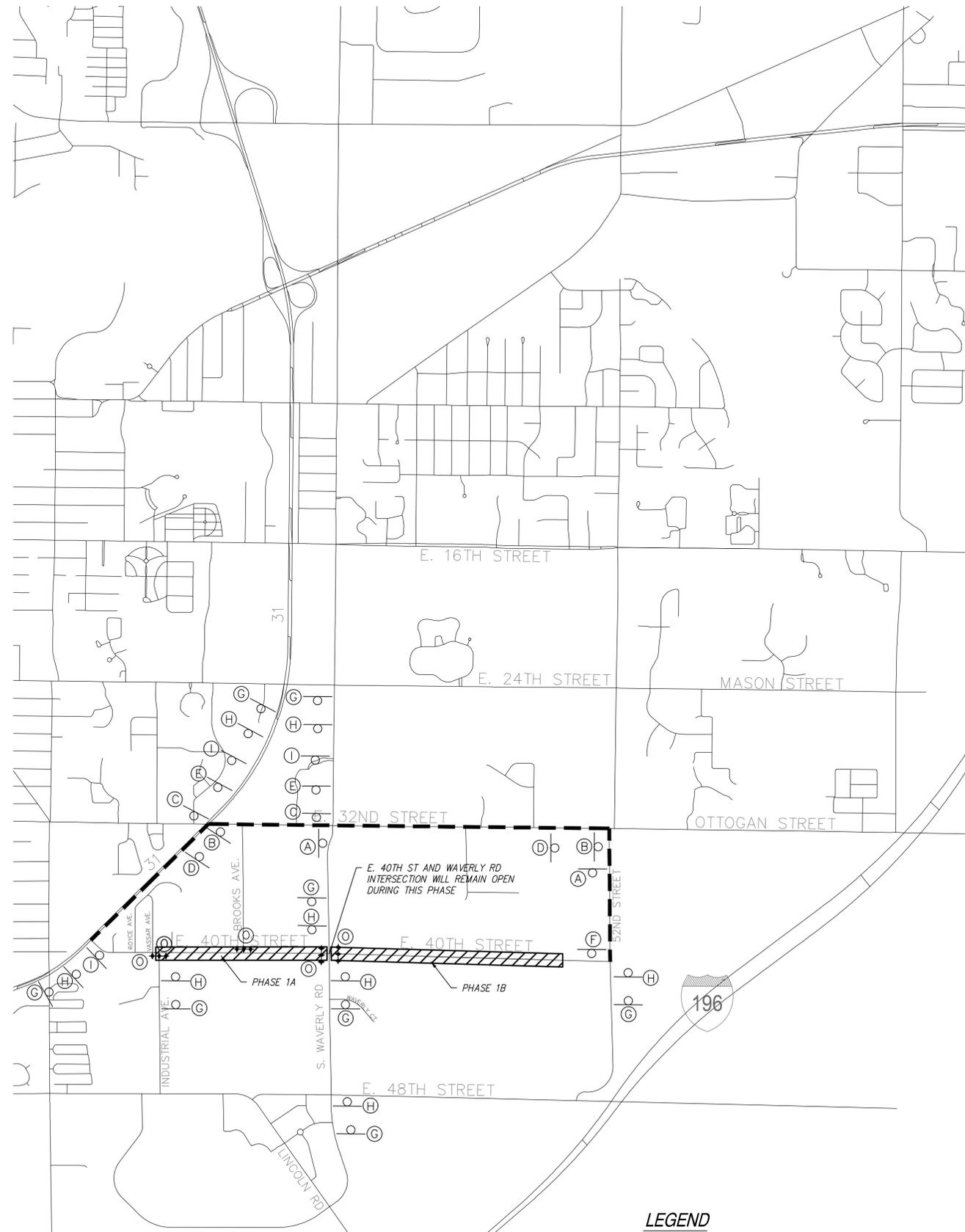
DRAFTER B. CARLSTROM	03-04-26
DESIGNER B. CARLSTROM	03-04-26
CHECKED BY A. TEMPLE	03-04-26
PROJECT MANAGER L. BERKENPAS	03-04-26
DEPARTMENT MANAGER APPROVAL J. SCHROT	03-04-26

JOB NO. H024001	DRAWING NO. H024001PMK
SCALE: 1" = 40'	SHEET NO. 29 OF 37



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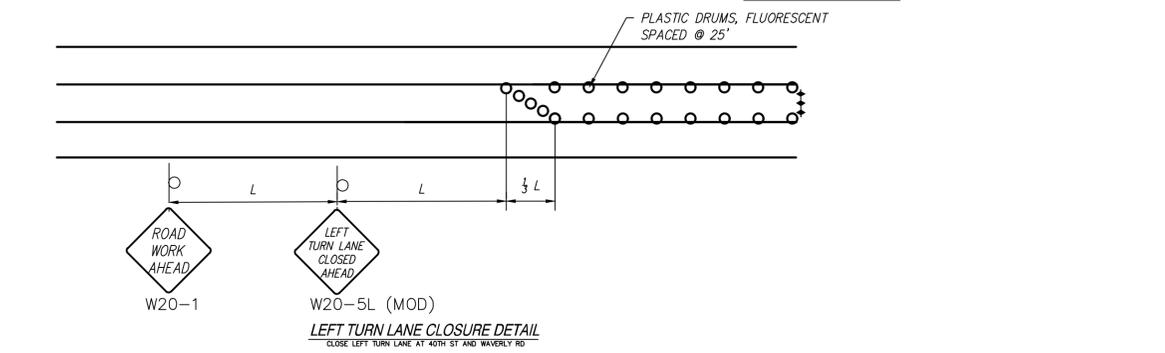
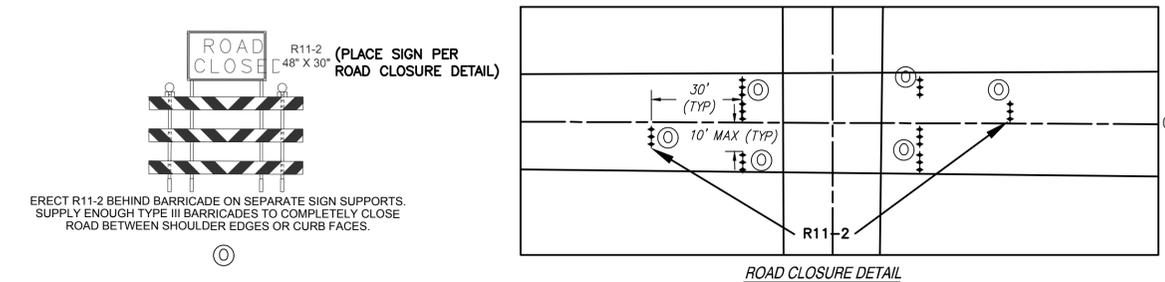
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LEGEND

- BARRICADE, TYPE III
- SIGN
- - - DETOUR ROUTE
- ▨ WORK ZONE

40TH ST SPEC-1 DETOUR M4-9 (A)	40TH ST SPEC-1 DETOUR M4-9 (R) (B)	40TH ST SPEC-1 DETOUR M4-9 (L) (C)	40TH ST SPEC-1 DETOUR M4-9 (RT) (D)	40TH ST SPEC-1 DETOUR M4-9 (LT) (E)	40TH ST SPEC-1 END DETOUR M4-8 (F)
ROAD WORK AHEAD W20-1 40TH ST SPEC-1 (G)	ROAD CLOSED AHEAD W20-3 40TH ST SPEC-1 (H)	DETOUR AHEAD W20-2 40TH ST SPEC-1 (I)	ROAD CLOSED LOCAL TRAFFIC ONLY R11-3 (J)		



- NOTES**
- 40TH ST SHALL BE CLOSED FOR THRU TRAFFIC IN ACCORDANCE WITH THE TRAFFIC CONTROL PLAN. LOCAL TRAFFIC SHALL BE MAINTAINED AT ALL TIMES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AS DIRECTED BY THE ENGINEER. ACCESS FOR TRACTOR TRAILER VEHICLE SHALL BE MAINTAINED AS DIRECTED BY THE ENGINEER.
 - TRAFFIC CONTROL SHALL BE IN CONFORMANCE WITH THE MOST RECENT EDITION OF THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MMUTCD).
 - ALL WORK SHALL BE COORDINATED AROUND TULIP TIME (MAY 6-14) TO LIMIT DISRUPTIONS TO TRAFFIC FLOW.
 - THE TEMPORARY SIGNS SHALL HAVE GROUND DRIVEN SIGN SUPPORTS. DRIVING SIGN SUPPORT IS INCLUDED IN THE PAY ITEM "SIGN, TYPE B, TEMP, PRISMATIC."
 - PLACE SIGNS AT 450' SPACING. ADJUST AS NECESSARY TO FIT FIELD CONDITIONS.
 - ALL TEMPORARY SIGN POSTS DRIVEN INTO THE GROUND, AS SHOWN ON THIS PLAN AND ELSEWHERE USED ON THIS JOB AS NECESSARY SHALL BE DONE ACCORDING TO THE M.D.O.T. DETAIL W2D-100-A.
 - ALL UNDERGROUND UTILITIES SHALL BE LOCATED PRIOR TO DRIVING POSTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING MISS DIG AND SHALL CONDUCT HIS OPERATIONS IN SUCH MANNER AS TO ENSURE THAT THOSE UTILITIES SHALL NOT BE DISTURBED.
 - TEMPORARY PAVEMENT MARKINGS SHALL BE USED TO CONTROL TRAFFIC AS NEEDED. NO SECTION OF NEWLY PAVED ROADWAY SHALL BE USED BY TRAFFIC UNTIL TEMPORARY PAVEMENT MARKINGS HAVE BEEN PROPERLY PLACED. TEMPORARY PAVEMENT MARKINGS SHALL BE 4 FT DASHED AT 50 FT INTERVALS UNLESS SPECIFIED OTHERWISE.
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 - WHEN BUFFER AREAS ARE ESTABLISHED, THERE SHALL BE NO EQUIPMENT OR MATERIALS STORED OR WORK CONDUCTED IN THE BUFFER AREA.

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40TH STREET RECONSTRUCTION

MAINTAINING TRAFFIC PHASE 1

SECTION 04/05
 TOWN 4N RANGE 15W
 CITY/TOWNSHIP HOLLAND
 COUNTY ALLEGAN

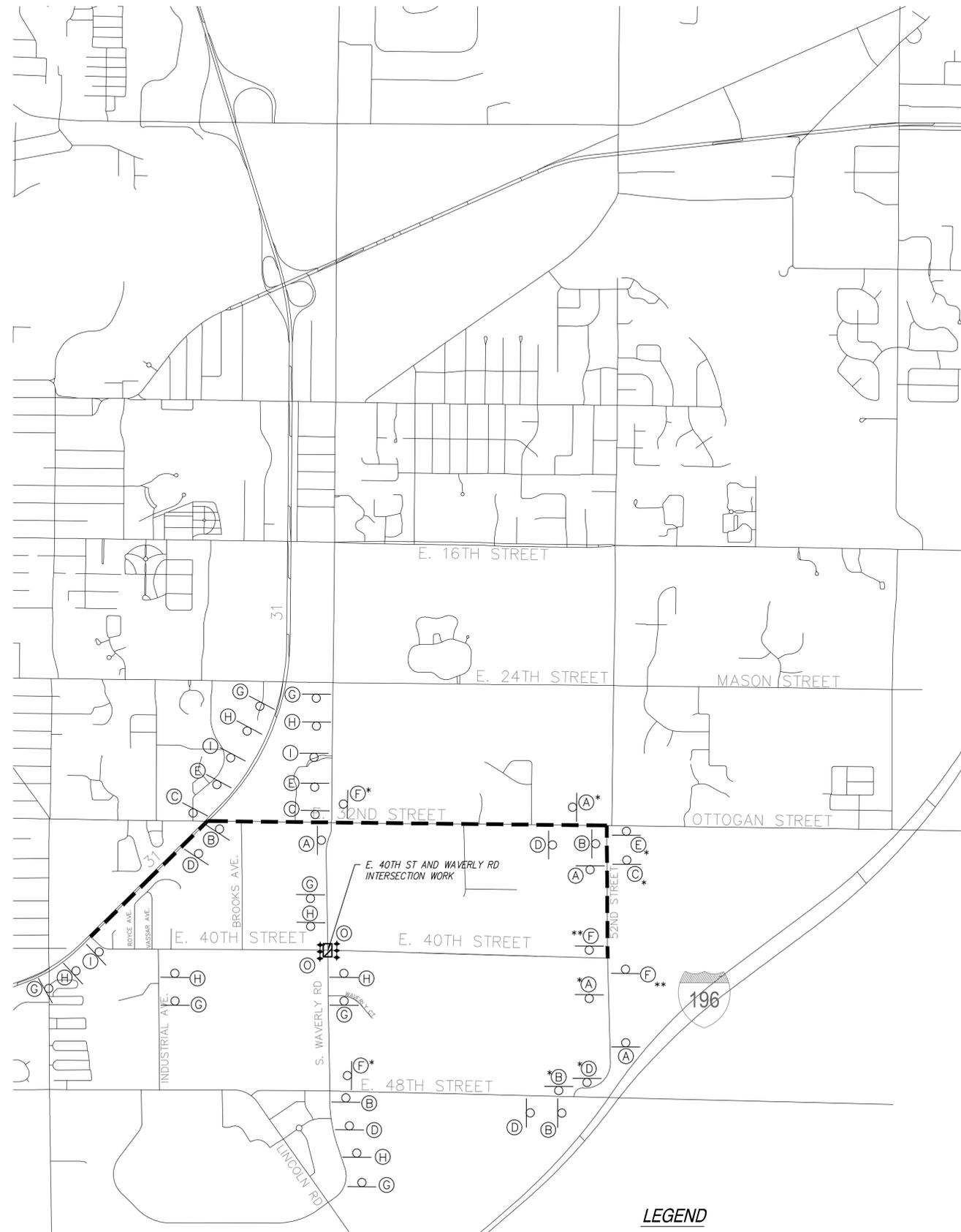
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VERIFY SCALES
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DESIGNER A. TEMPLE	03-04-26
CHECKED BY C. HARRINGTON	03-04-26
PROJECT MANAGER L. BERKENPAS	03-04-26
DEPARTMENT MANAGER APPROVAL J. SCHROT	03-04-26

JOB NO. H024001	DRAWING NO. H024001MOT
SCALE: 1:40	SHEET NO. 30 OF 37

P:\ctf\ed\Mar_4_2026_2:03 PM by user: 1219 - Saved: 11/21/2025 by user: charrrington
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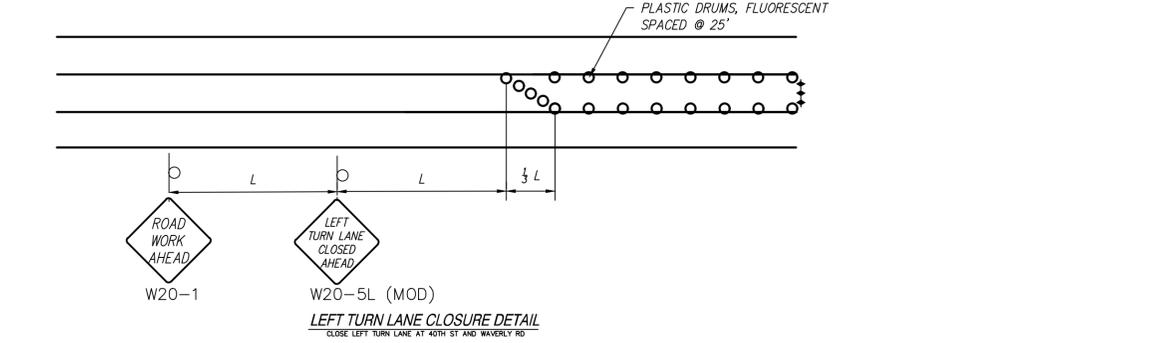
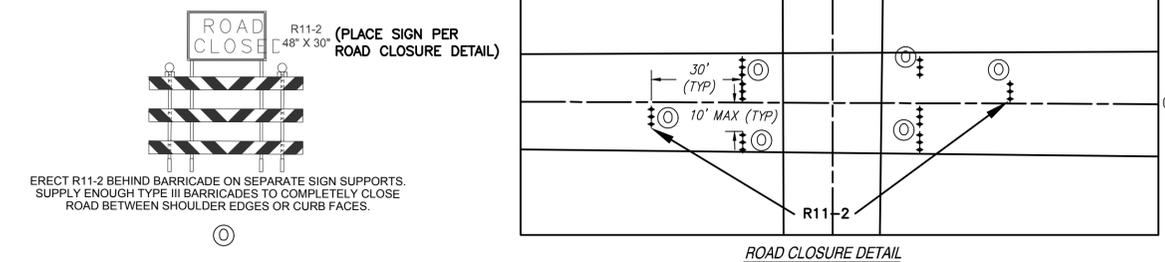
*EXCLUDE SPEC-1 FROM THE SIGN SEQUENCE
 **EXCLUDE SPEC-2 FROM THE SIGN SEQUENCE

LEGEND

- *** BARRICADE, TYPE III
- SIGN
- DETOUR ROUTE
- ▨ WORK ZONE

40TH ST WAVERLY	SPEC-1 SPEC-2										
DETOUR ↑	M4-9	DETOUR →	M4-9 (R)	DETOUR ←	M4-9 (L)	DETOUR ↘	M4-9 (RT)	DETOUR ↙	M4-9 (LT)	END DETOUR	M4-8
(A)		(B)		(C)		(D)		(E)		(F)	

ROAD WORK AHEAD	ROAD CLOSED AHEAD	DETOUR AHEAD	ROAD CLOSED LOCAL TRAFFIC ONLY
W20-1	W20-3	W20-2	R11-3
40TH ST WAVERLY	40TH ST WAVERLY	40TH ST WAVERLY	
SPEC-1 SPEC-2	SPEC-1 SPEC-2	SPEC-1 SPEC-2	
(G)	(H)	(I)	(J)



CONSTRUCTION SIGNING QUANTITIES (SIGN, TYPE B, TEMP, PRISMATIC)				
SIGN CODE	ITEM DESCRIPTION	SIZE (WxH)	QTY	AREA (SFT)
M4-8	DETOUR END	24x30	4	20
M4-9	DETOUR UP	24x30	5	25
M4-9 (R)	DETOUR RIGHT	24x30	5	25
M4-9 (RT)	DETOUR RIGHT ADVANCE	24x30	5	25
M4-9 (L)	DETOUR LEFT	24x30	3	15
M4-9 (LT)	DETOUR LEFT ADVANCE	24x30	3	15
W20-1	ROAD WORK AHEAD	48x48	10	160
W20-2	ROAD CLOSED AHEAD	48x48	3	48
W20-3	ROAD CLOSED AHEAD	48x48	8	128
W20-5L	LEFT TURN LANE CLOSED AHEAD	48x48	2	32
R11-2	ROAD CLOSED	48x30	4	40
TOTAL QTY			52	533

CONSTRUCTION SIGNING QUANTITIES (SIGN, TYPE B, TEMP, PRISMATIC, SPEC)				
SIGN CODE	ITEM DESCRIPTION	SIZE (WxH)	QTY	AREA (SFT)
SPEC-1 (D3-26)	40TH ST (BLACK/ORANGE)	36x12	35	105
SPEC-2 (D3-26)	WAVERLY (BLACK/ORANGE)	42x12	40	140
TOTAL QTY			75	245

MAINTENANCE OF TRAFFIC ITEMS		
ITEM DESCRIPTION	QTY	UNIT
BARRICADE, TYPE III, HIGH INTENSITY, DOUBLE SIDED, LIGHTED, FURN	30	EA
BARRICADE, TYPE III, HIGH INTENSITY, DOUBLE SIDED, LIGHTED, OPER	30	EA
MINOR TRAF DEVICES	1	LSUM
SIGN COVER	2	EA
PLASTIC DRUM, FLUORESCENT, FURN	200	EA
PLASTIC DRUM, FLUORESCENT, OPER	200	EA
SIGN, TYPE B, TEMP, PRISMATIC, FURN	533	SFT
SIGN, TYPE B, TEMP, PRISMATIC, OPER	533	SFT
SIGN, TYPE B, TEMP, PRISMATIC, SPEC, FURN	245	SFT
SIGN, TYPE B, TEMP, PRISMATIC, SPEC, OPER	245	SFT
PEDESTRIAN TYPE II BARRICADE, TEMP	10	EA
SIGN, PORTABLE, CHANGEABLE MESSAGE, NTPC-COMPLIANT, FURN	2	EA
SIGN, PORTABLE, CHANGEABLE MESSAGE, NTPC-COMPLIANT, OPER	2	EA

- NOTES**
- 40TH ST AND WAVERLY RD INTERSECTION SHALL BE CLOSED FOR A MAXIMUM OF ONE WEEK.
 - TRAFFIC CONTROL SHALL BE IN CONFORMANCE WITH THE MOST RECENT EDITION OF THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MMUTCD).
 - ALL WORK SHALL BE COORDINATED AROUND TULIP TIME (MAY 6-14) TO LIMIT DISRUPTIONS TO TRAFFIC FLOW.
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40TH STREET RECONSTRUCTION
 MAINTAINING TRAFFIC PHASE II
 SECTION 04/05
 TOWN 4N RANGE 15W
 CITY/TOWNSHIP HOLLAND
 COUNTY ALLEGAN

NO.	DATE	SUBMITTAL

 VERIFY SCALES
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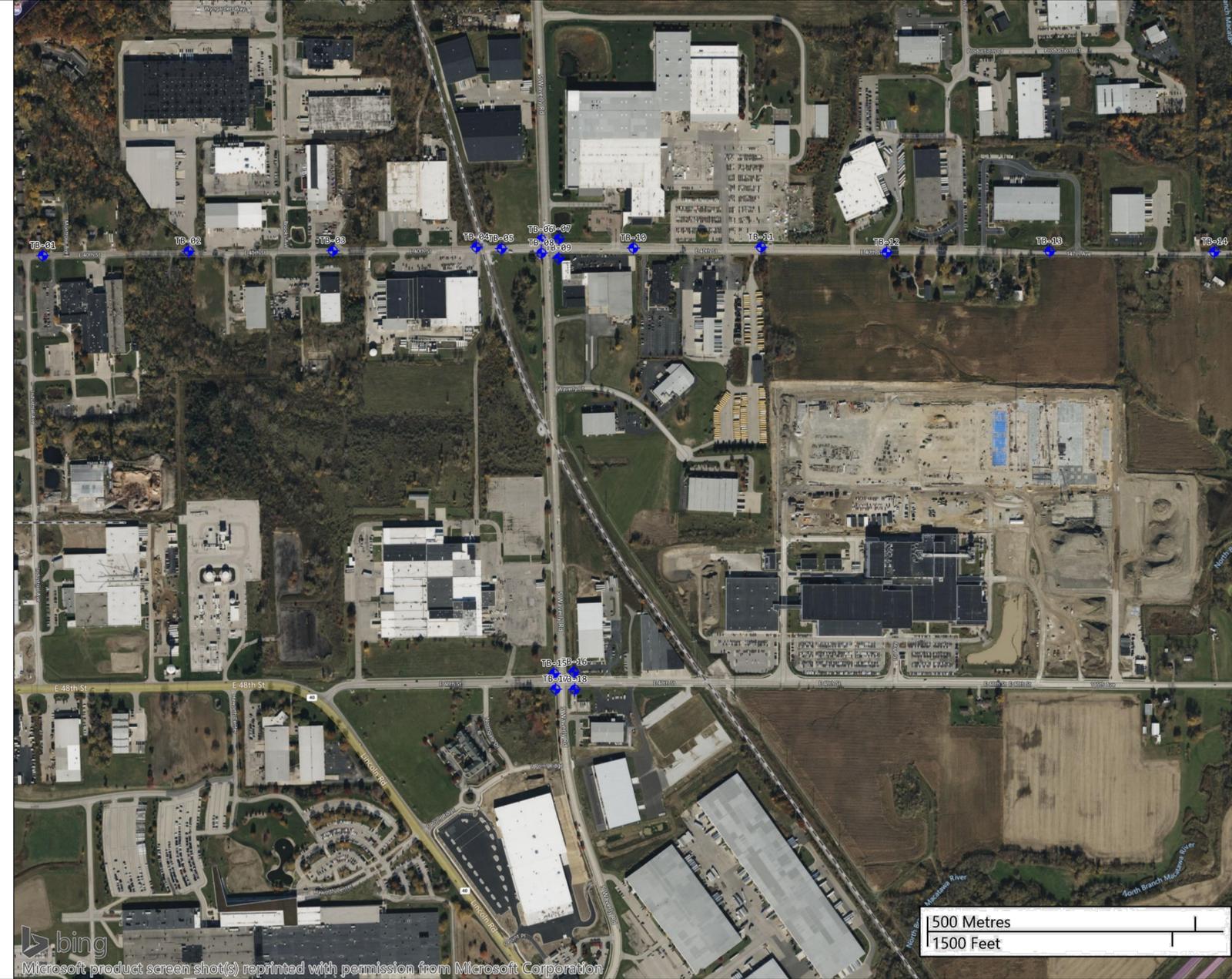
JOB NO. H024001	DRAWING NO. H024001MOT
SCALE: 1:40	SHEET NO. 31 OF 37

Plotted: Mon, 4/20/26, 2:24 PM by user: 1219 - Saved: 11/19/2025 by user: charrington
 J:\H024001 - 40TH STREET RECONSTRUCTION\DWG\H024001SBL.dwg

Project Id: 2024.1758
 Project Title: 40th Street Reconstruction
 Location: Holland, Michigan
 Client: Spalding DeDecker

Title: Site Plan
 Scale: 1:11000
 Engineer: Sepehr Tavassoli
 Contractor:

- Legend Key**
- Locations By Type - Empty
 - ⊕ Locations By Type - BH




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40TH STREET RECONSTRUCTION
 SOIL BORING LOG MAP

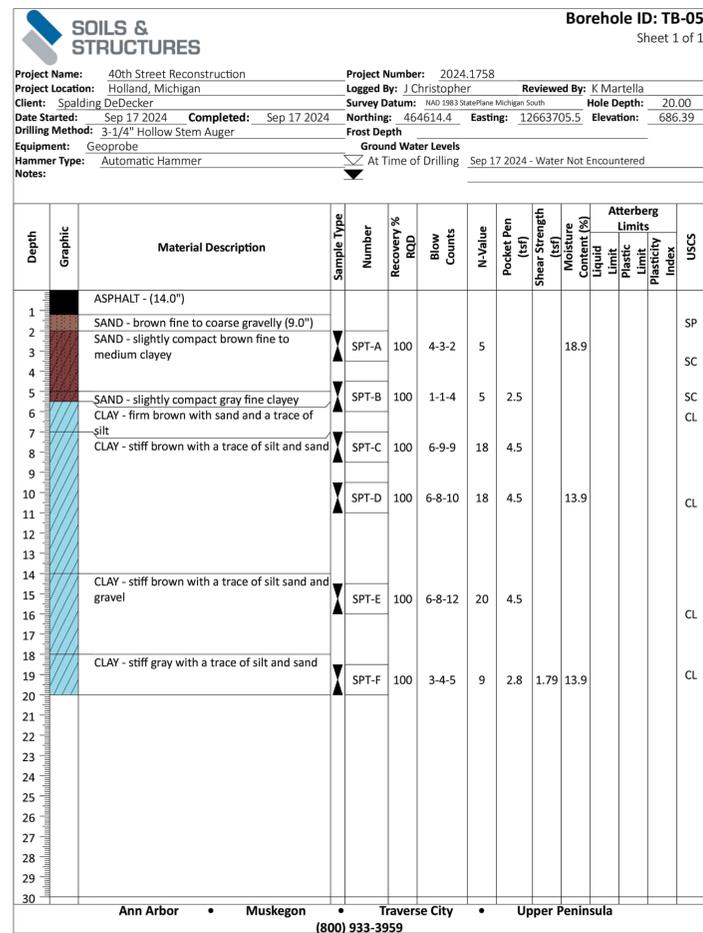
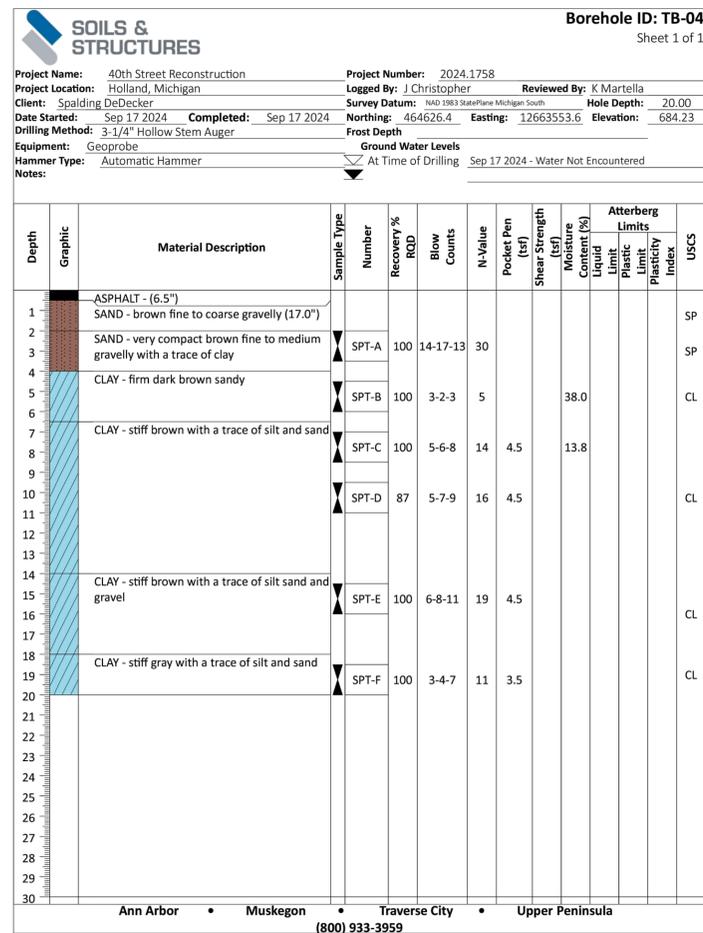
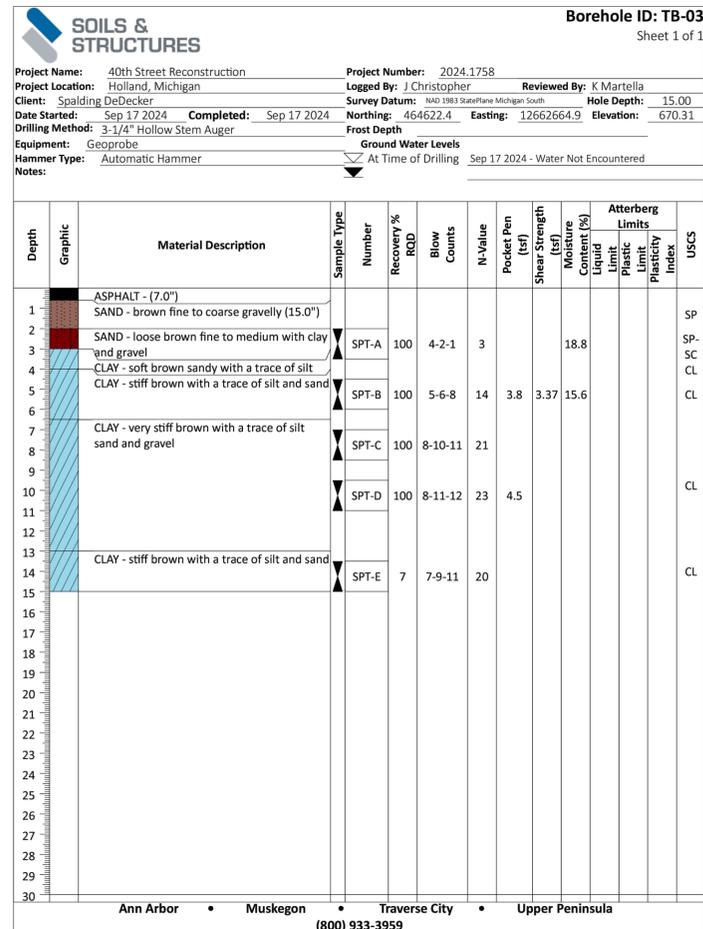
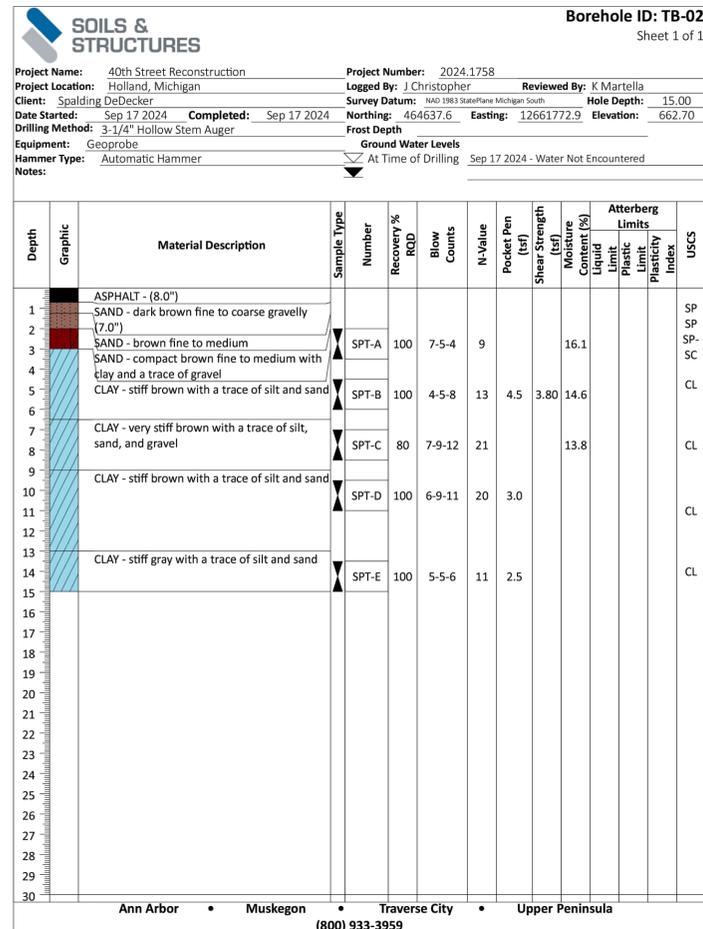
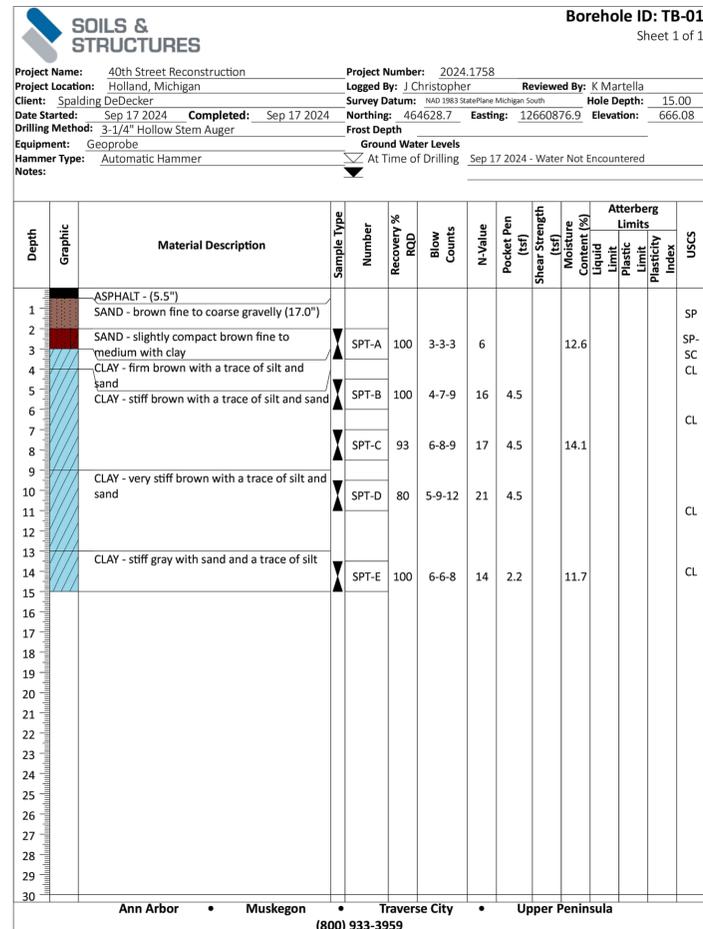
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 TOWN 4N RANGE 15W
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 COUNTY ALLEGAN

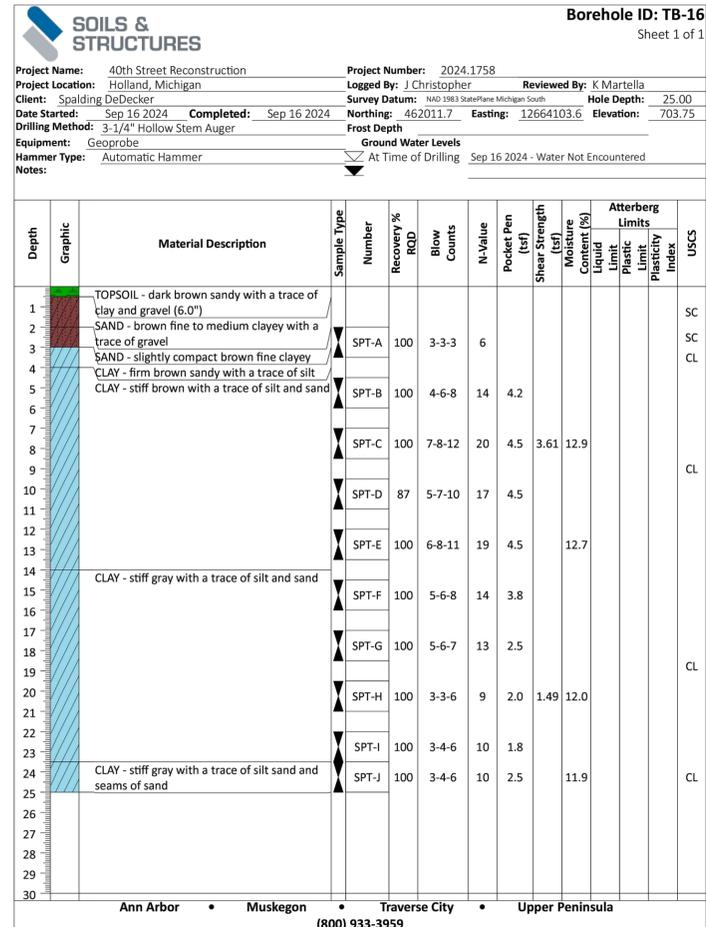
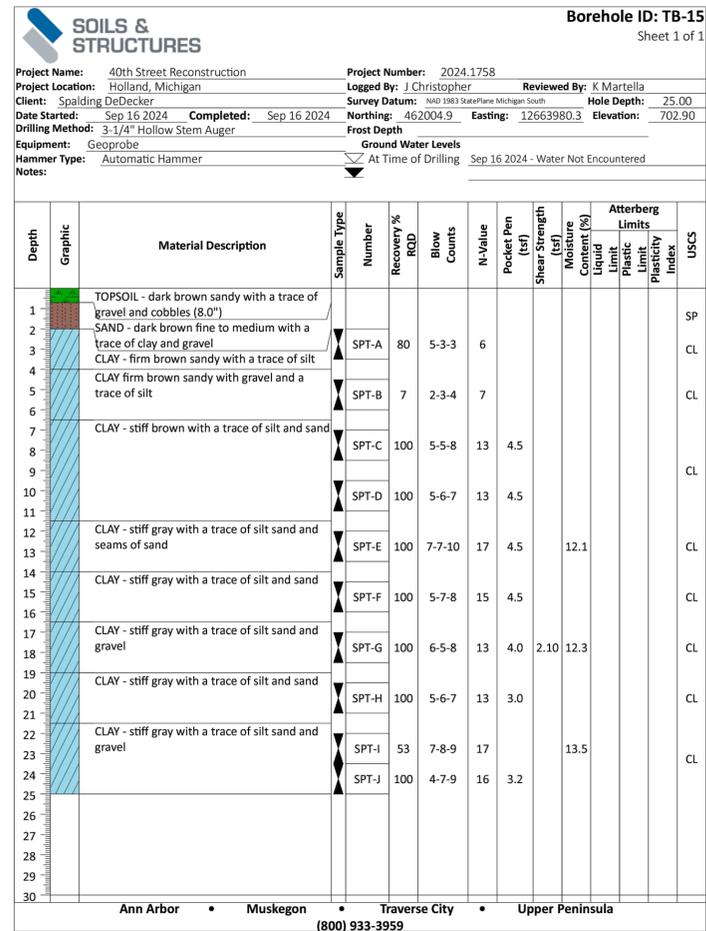
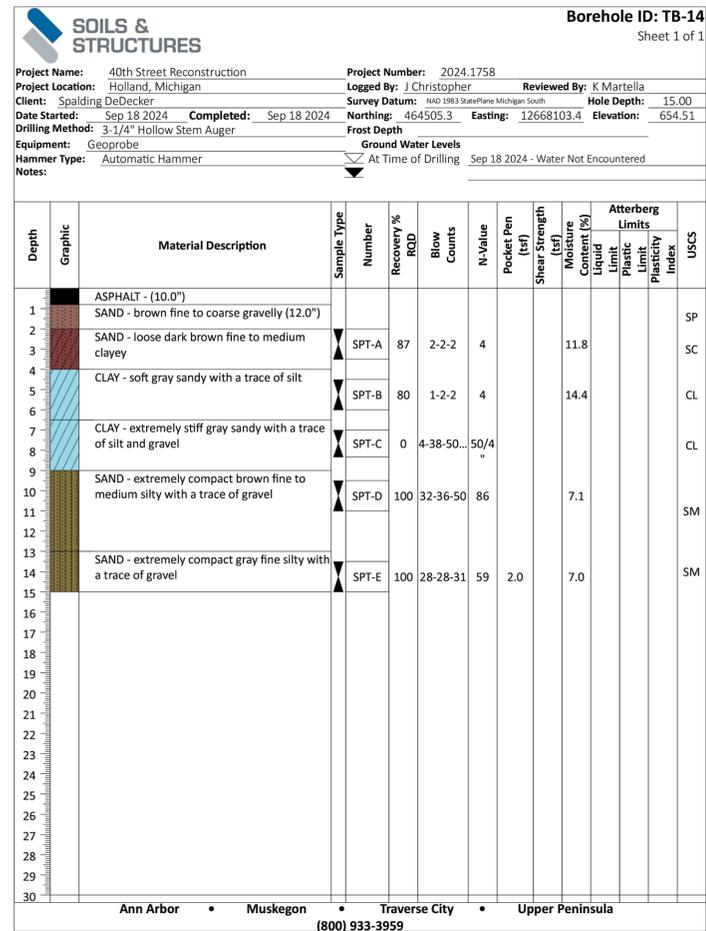
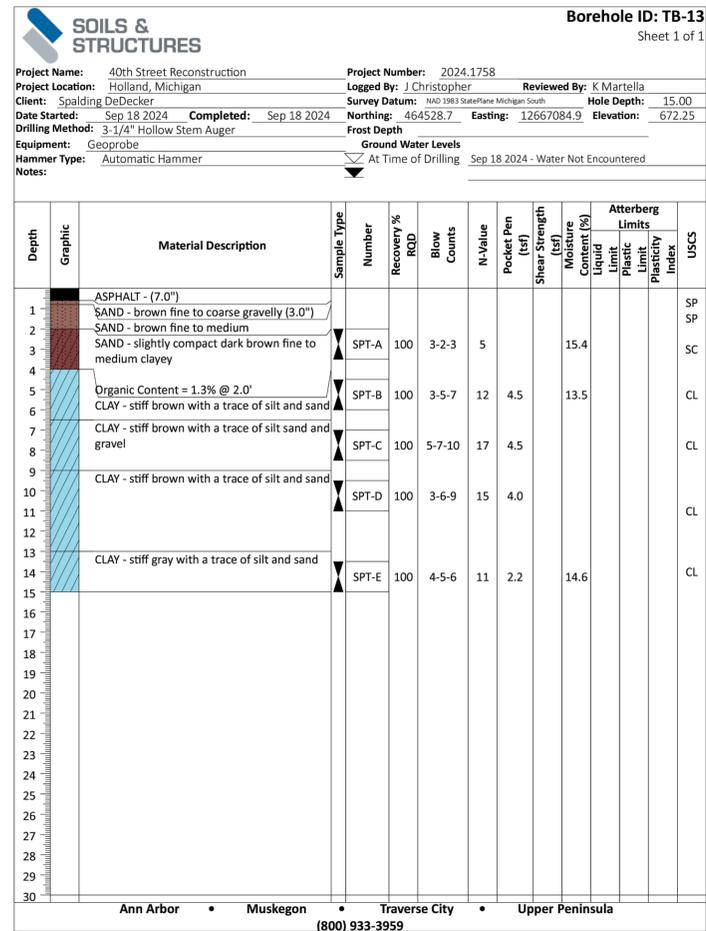
NO.	DATE	SUBMITTAL

VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 IF NOT ONE INCH ON THIS SHEET,
 ADJUST SCALES ACCORDINGLY

DRAFTER A. TEMPLE	03-04-26
DESIGNER A. TEMPLE	03-04-26
CHECKED BY C. HARRINGTON	03-04-26
PROJECT MANAGER L. BERKENPAS	03-04-26
DEPARTMENT MANAGER APPROVAL J. SCHROT	03-04-26

JOB NO. H024001	DRAWING NO. H024001SBL
SCALE: 1:40	SHEET NO. 32 OF 37



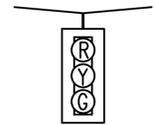


REMOVAL QUANTITIES - THIS SHEET

No.	Pay Item Description	Qty	Unit	Pay Item Code
1	Pedestal Fdn, Rem	1	Ea	8200106
2	Pedestal, Rem	1	Ea	8200110
3	Pushbutton, Rem	2	Ea	8200122
4	TS, Pedestrian, Bracket Arm Mtd, Rem	2	Ea	8200180
5	TS, Pedestrian, Pedestal Mtd, Rem	2	Ea	8200181

NOTES:

- UNDERGROUND CONDUIT ROUTING IS ASSUMED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR. COST TO CONTRACTOR IS INCIDENTAL.
- PEDESTAL FOUNDATIONS SHALL BE COMPLETELY REMOVED.

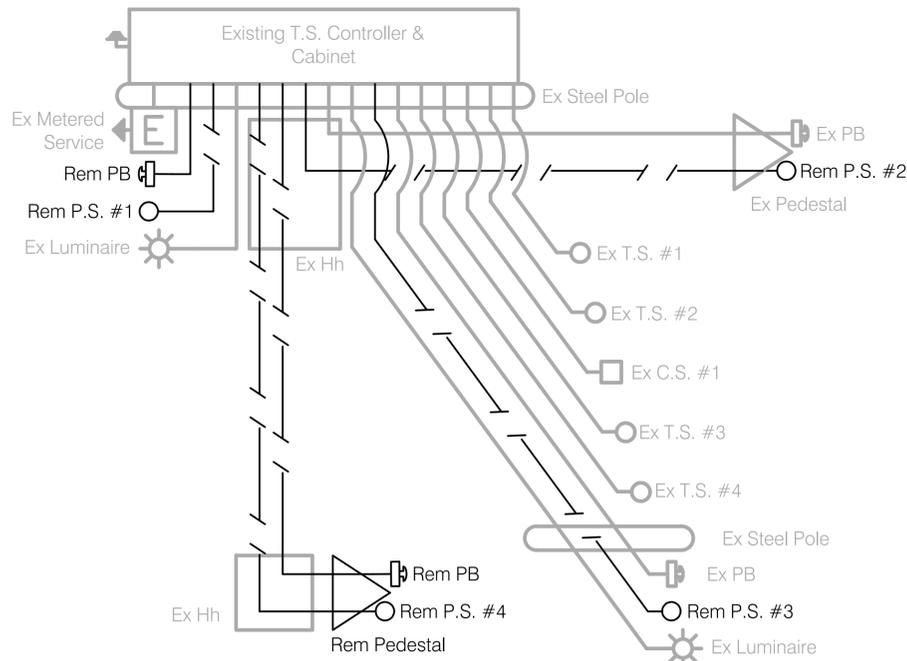


T.S. #1
T.S. #2 (ALL FACES)
T.S. #3 (ALL FACES)
T.S. #4

FOUR WAY CASE SIGN (L.E.D.)

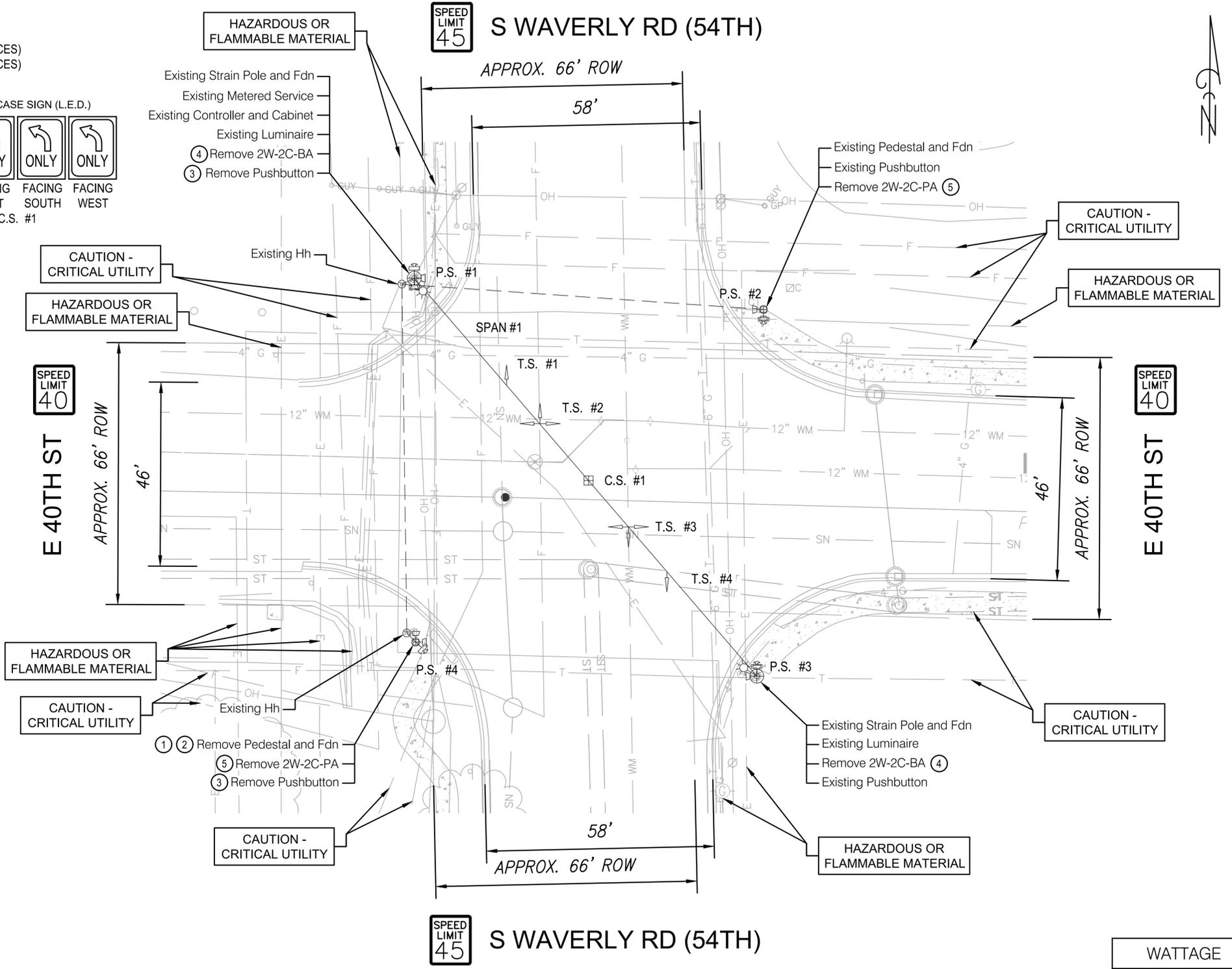


FACING NORTH EAST SOUTH WEST
C.S. #1



REMOVAL WIRING DIAGRAM

NOT TO SCALE



REMOVAL PLAN

SCALE: 1" = 15'

DESCRIPTION	DRN	CKD	APVD	DATE
70% Submittal				Aug. 2025
90% Submittal				Sep. 2025
Final Submittal				Oct. 2025

REFERENCE DRAWINGS	DESIGNED BY	WSP
	DRAWN BY	WSP
	TRACED BY	
	CHECKED BY	HOLLAND



CITY OF HOLLAND
TRANSPORTATION SERVICES DEPARTMENT
CIVIL ENGINEERING DEPARTMENT



CHECKED BY:	
APPROVED BY:	
FILE NO.:	

TRAFFIC SIGNAL MODERNIZATION
AT
WAVERLY ST (54th) and E 40th ST

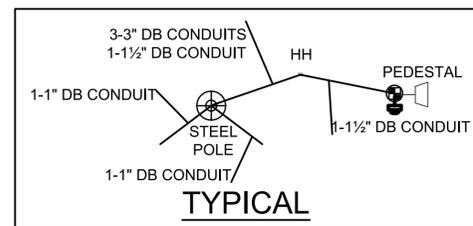
WATTAGE	
OPENINGS:	36
CYCLIC:	402
STEADY:	180
SHEET 36 OF 37 SHEETS	
November 4, 2025	
DRWG NO. LD-	

CONSTRUCTION QUANTITIES - THIS SHEET

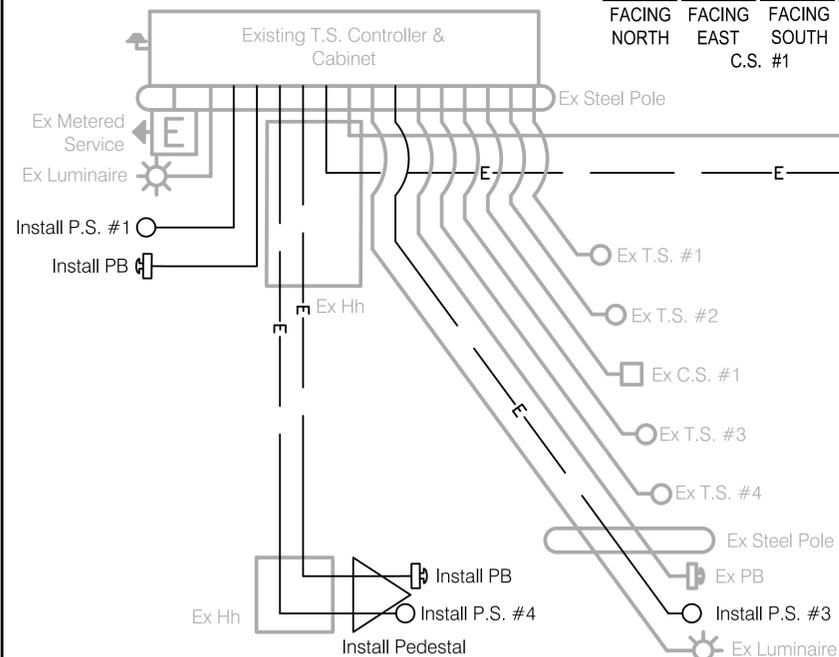
No.	Pay Item Description	Qty	Unit	Pay Item Code
1	Pedestal, Alum	1	Ea	8200100
2	Pedestal, Fdn	1	Ea	8200105
3	Pushbutton and Sign	2	Ea	8200121
4	TS, Pedestrian, Two Way Bracket Arm Mtd (LED) Countdown	2	Ea	8200339
5	TS, Pedestrian, Two Way Pedestal Mtd (LED) Countdown	2	Ea	8200347
	Conduit, DB, 1, 1 1/2 inch	15	Ft	8182048

NOTES:

- COORDINATE PEDESTAL AND PUSHBUTTON INSTALLATION WITH ASSOCIATED SIDEWALK LANDING TO MEET CURRENT ADA DESIGN STANDARDS.
- CONTACT THE HOLLAND BOARD OF PUBLIC WORKS TO COORDINATE FOR THE INSTALLATION OF THE PUSHBUTTON EXTENSION MOUNT ON THE NORTHWEST QUADRANT. SIGN AND PUSHBUTTON INSTALLATION SHOULD FACE SOUTH WITH A RIGHT ARROW TO CROSS WAVERLY RD. CONTACT ERIC CHAO AT 616-355-1627 AT LEAST FOURTEEN DAYS PRIOR TO START OF CONSTRUCTION.
- SEAL UNUSED MOUNTING POINTS ON STRAIN POLES WITH GASKETS OR EQUIVALENT APPROVED BY THE ENGINEER.



ITEMS	QUADRANT	NORTHING	EASTING
PEDESTAL	SW	464565.91	12663963.33

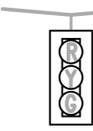


INSTALLATION CABLING DIAGRAM

NOT TO SCALE

CABLES TO BE USED UNLESS SPECIFIED OTHERWISE

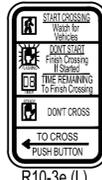
- PEDESTRIAN SIGNAL CABLES ARE 7/C#16 PJ.
- PUSHBUTTON CABLES ARE 2/C#16 SHIELDED PJ.



T.S. #1
T.S. #2 (ALL FACES)
T.S. #3 (ALL FACES)
T.S. #4



P.S. #1
P.S. #2
P.S. #3
P.S. #4



R10-3e (L)

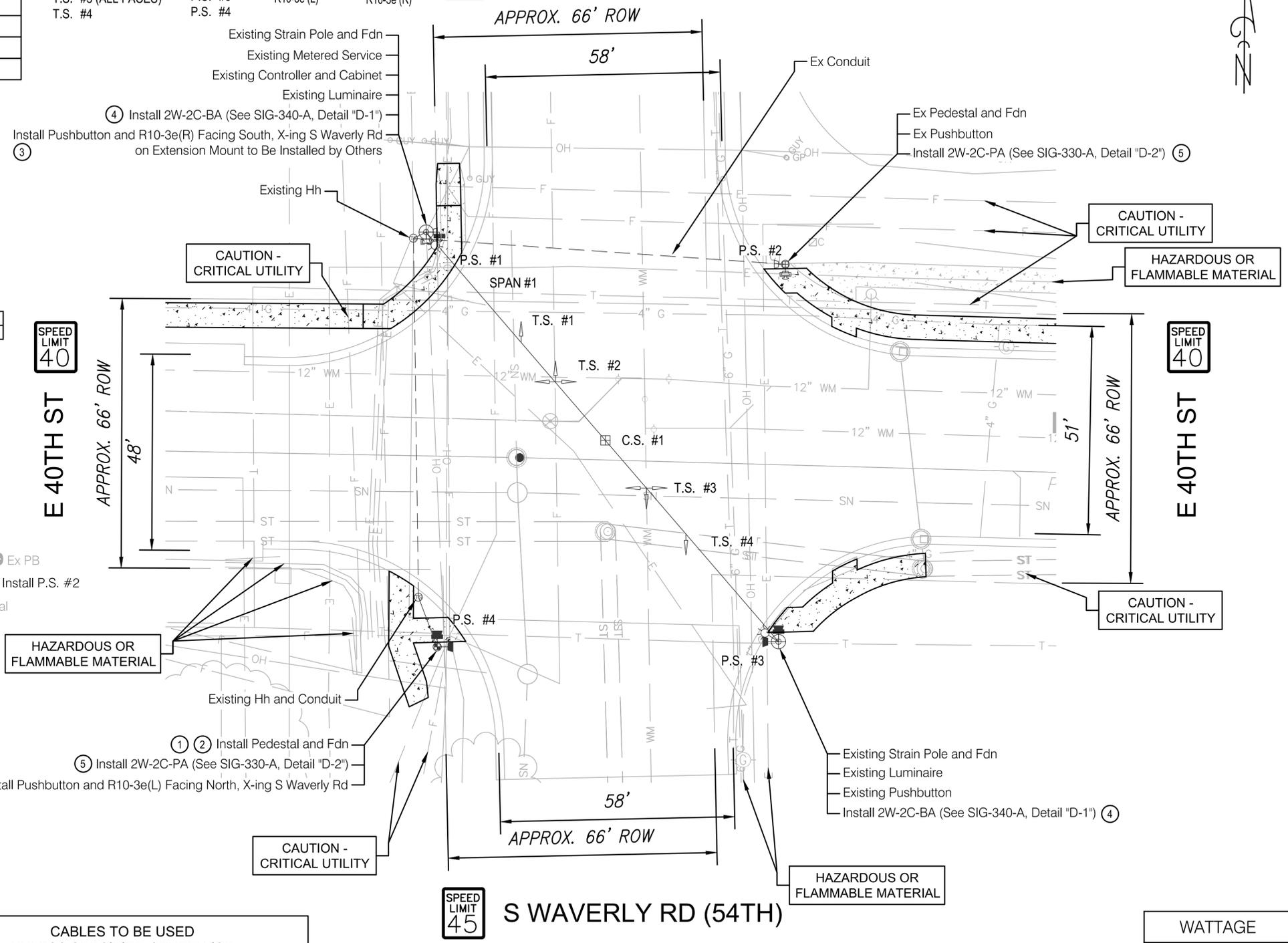


R10-3e (R)



SPEED LIMIT 45

S WAVERLY RD (54TH)



SPEED LIMIT 45

S WAVERLY RD (54TH)

INSTALLATION PLAN

SCALE: 1" = 15'



WATTAGE	
OPENINGS:	36
CYCLIC:	432
STEADY:	180

DESCRIPTION	DRN	CKD	APVD	DATE
70% Submittal				Aug. 2025
90% Submittal				Sep. 2025
Final Submittal				Oct. 2025



CITY OF HOLLAND
TRANSPORTATION SERVICES DEPARTMENT
CIVIL ENGINEERING DEPARTMENT



CHECKED BY:	
APPROVED BY:	
FILE NO.:	

TRAFFIC SIGNAL MODERNIZATION
AT
WAVERLY ST (54th) and E 40th ST

SHEET 37 OF 37 SHEETS
November 4, 2025
DRWG NO. LD-