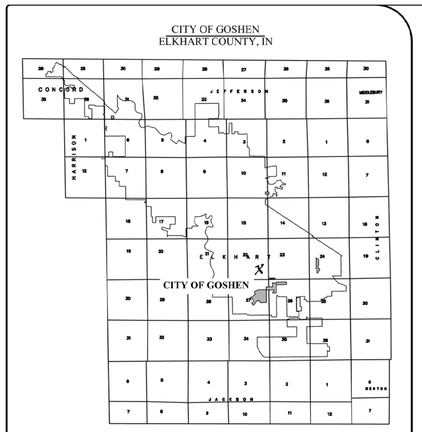
EISENHOWER DRIVE NORTH & SOUTH
PAVEMENT REPLACEMENT
JN: 2020-0013



UTILITIES

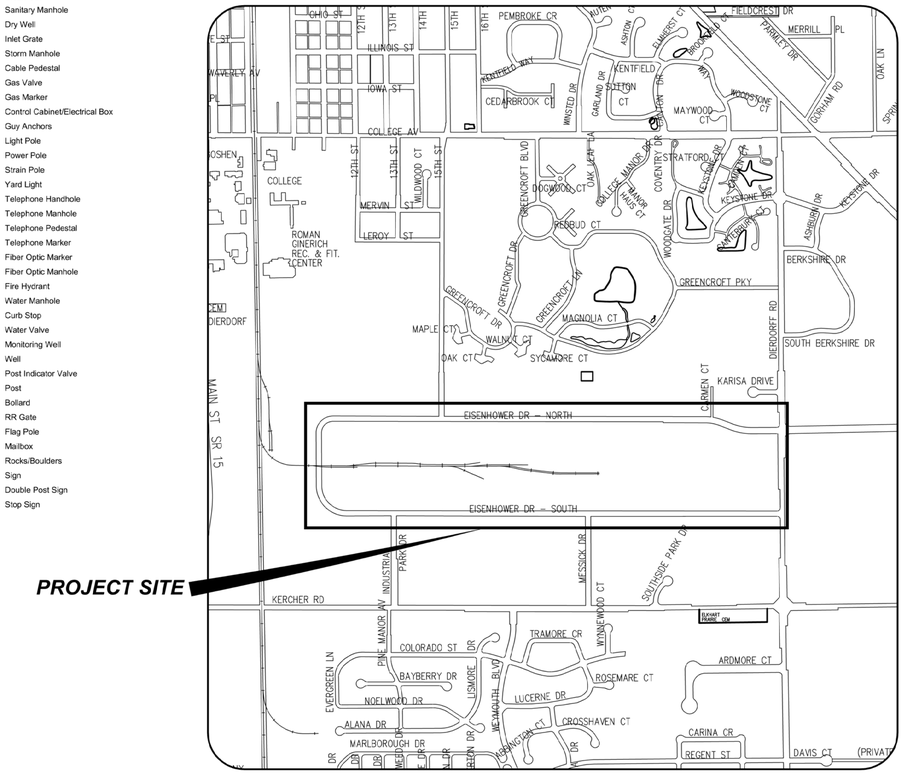
GAS	NIPSCO 300 E. KERCHER ROAD GOSHEN, INDIANA 46526 1-574-535-0264
ELECTRIC	NIPSCO 300 E. KERCHER ROAD GOSHEN, INDIANA 46526 1-574-535-0259
TELEPHONE	FRONTIER 24373 COUNTY ROAD 45 ELKHART, INDIANA 46516 1-574-535-4549
	NEW PARIS TELEPHONE/ COMMUNITY FIBER 19066 MARKET STREET NEW PARIS, INDIANA 46553 1-574-831-2179
TV	COMCAST CABLE 4045 EDISON LAKES PARKWAY MISHAWAKA, INDIANA 46545 1-574-252-2562
WATER & SEWER	GOSHEN UTILITIES 308 N. 5th STREET GOSHEN, INDIANA 46528 1-574-533-9399
UTILITY LOCATE	HOLEY MOLEY 1-800-382-5544 OR 811

ADMINISTRATION

MAYOR	JEREMY P. STUTSMAN
CITY CLERK-TREASURER	ADAM SCHARF
COMMON COUNCIL	JIM McKEE - DISTRICT ONE
	DOUG NISLEY - DISTRICT TWO
	MATT SCHROCK - DISTRICT THREE
	MEGAN EICHORN - DISTRICT FOUR
	GILBERTO PEREZ - DISTRICT FIVE
	BRETT F. WEDDELL - AT LARGE
	JULIA KING - AT LARGE
BOARD OF PUBLIC WORKS AND SAFETY	JEREMY P. STUTSMAN - MAYOR
	MICHAEL A. LANDIS - MEMBER
	MARY NICHOLS - MEMBER

SURVEY LEGEND

- Existing Monument (Origin Unknown Unless Otherwise Noted)
- PK Nail Found
- 'X' Scribed Found
- Control Point
- Misc. Manhole
- Clean Out
- Sanitary Manhole
- Dry Well
- Inlet Grate
- Storm Manhole
- Cable Pedestal
- Gas Valve
- Gas Marker
- Control Cabinet/Electrical Box
- Guy Anchors
- Light Pole
- Power Pole
- Strain Pole
- Yard Light
- Telephone Handhole
- Telephone Manhole
- Telephone Pedestal
- Telephone Marker
- Fiber Optic Marker
- Fiber Optic Manhole
- Fire Hydrant
- Water Manhole
- Curb Stop
- Water Valve
- Monitoring Well
- Well
- Post Indicator Valve
- Post
- Bollard
- RR Gate
- Flag Pole
- Mailbox
- Rocks/Boulders
- Sign
- Double Post Sign
- Stop Sign



VICINITY MAP

PROJECT DESCRIPTION

REMOVAL OF EXISTING ASPHALT PAVEMENT ON EISENHOWER DRIVE, NORTH AND SOUTH, AND REPLACEMENT WITH FULL DEPTH ASPHALT PAVEMENT. RECONSTRUCTION OF EXISTING RAILROAD CROSSING ON WEST END OF EISENHOWER DRIVE TO MATCH NEW PAVEMENT.

FOR THE PROTECTION OF UNDERGROUND UTILITIES, CONTRACTOR SHALL CALL UNDERGROUND PLANT PROTECTION A MINIMUM OF THREE WORKING DAYS PRIOR TO EXCAVATING IN THE VICINITY OF THE UTILITY LINES. ALL "HOLEY MOLEY" PARTICIPATING MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE PART OF THE "HOLEY MOLEY" PLANT PROTECTION SYSTEM.

PER CHAPTER 30, SECTION 38.3 OF RECOMMENDED STANDARDS FOR WASTEWATER FACILITIES, SEWER (STORM & SANITARY) TO WATER MAIN HORIZONTAL SEPARATION SHALL BE 10' AND VERTICAL SEPARATION SHALL BE 18".

IF ANY ERRORS BECOME APPARENT, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY FOR CLARIFICATION OR REDESIGN.

THE CONTRACTOR SHALL CONFORM TO THE CURRENT STANDARDS AND SPECIFICATIONS OF THE LOCAL GOVERNMENT, INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT, INDIANA DEPARTMENT OF NATURAL RESOURCES, AND THE INDIANA DEPARTMENT OF TRANSPORTATION.

CONTRACTORS SHALL MAKE WHATEVER SOIL BORINGS NECESSARY TO FULLY ACQUAINT THEMSELVES WITH CONDITIONS AS THEY EXIST SO THAT THEY MAY FULLY UNDERSTAND THE CONDITIONS THAT MAY AFFECT THE COST OF THE WORK. FAILURE TO MAKE SUCH BORINGS OR ANY BORING MADE THAT DOES NOT PROVIDE A COMPLETE UNDERSTANDING OF THE CONDITIONS ENCOUNTERED SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR CARRYING OUT ALL THE WORK TO COMPLETION AS SHOWN ON THE PLAN, OR AS SPECIFIED, AT THE PRICE SPECIFIED TO BE PAID FOR THE WORK. WHERE THE RESULTS OF ANY TEST BORINGS ARE SHOWN ON THE PLANS, THE INFORMATION IS NOT GUARANTEED AND THE CONTRACTOR MUST SATISFY HIMSELF AS TO THE CHARACTER OF MATERIALS THAT MAY BE ENCOUNTERED.

CONTRACTOR SHALL ADHERE TO THE EROSION CONTROL REQUIREMENTS DEVELOPED FOR THIS PROJECT AND AS APPROVED BY THE LOCAL SOIL AND WATER OFFICE.

WORK ON THIS PROJECT MAY REQUIRE CONFINED SPACE ENTRY. CONTRACTOR EMPLOYEES ENTERING CONFINED SPACES OWNED BY THE CITY SHALL BE TRAINED TO ENTER CONFINED SPACES, SHALL BE PROPERLY EQUIPPED TO MAKE CONFINED SPACE ENTRY, AND SHALL PREPARE AND FILE THE PROPER CONFINED SPACE ENTRY PLAN. THE CITY SHALL NOT BE HELD LIABLE FOR ANY PERSONAL DAMAGES BY THE CONTRACTOR'S EMPLOYEE'S RESULTING FROM A POORLY EXECUTED CONFINED SPACE ENTRY.

UTILITY LOCATIONS

UTILITY LOCATIONS ARE APPROXIMATED FROM RECORD INFORMATION AND MUST BE VERIFIED PRIOR TO CONSTRUCTION. PIPE INVERTS HAVE BEEN MEASURED WITH AS MUCH ACCURACY AS CAN BE ACHIEVED WITHOUT CONFINED SPACE ENTRY. THE CONSTRUCTOR SHALL BE RESPONSIBLE FOR VERIFYING UTILITY LOCATIONS AND ELEVATIONS AS NECESSARY FOR THE PROPER CONSTRUCTION OF THE DETAILED IMPROVEMENTS.

VERTICAL CONTROL

BENCHMARK TBM "1"
'X' SET ON WEST BOLT ON TRAFFIC STRAIN POLE
ELEV: 814.26 NAVD 88

BENCHMARK TBM "2"
'X' SET IN NORTHWEST HAT BOLD OF FIRE HYDRANT
STA. 249+19.48
ELEV: 811.50 NAVD 88

BENCHMARK "3"
BENCHTIE ON THE NORTH SIDE OF UTILITY POLE NO. 1068822
STA. 240+03.77
ELEV: 810.46 NAVD 88

BENCHMARK TBM "4"
'X' SET IN NORTHEAST HAT BOLT OF FIRE HYDRANT
STA. 226+57.35
ELEV: 806.86 NAVD 88

BENCHMARK TBM "5"
SQUARE CUT IN NORTH SIDE OF CONCRETE LIGHT POLE BASE
STA. 217+72.35
ELEV: 809.21 NAVD 88

BENCHMARK TBM "6"
SQUARE CUT IN NORTH SIDE OF CONCRETE LIGHT POST BASE
STA. 210+61.04
ELEV: 809.16 NAVD 88

BENCHMARK TBM "7"
'X' SET ON NORTH HAT BOLT OF FIRE HYDRANT
STA. 102+77.14
ELEV: 807.25 NAVD 88

BENCHMARK TBM "8"
'X' SET IN NORTHEAST HAT BOLT OF FIRE HYDRANT
STA. 108+39.52
ELEV: 808.11 NAVD 88

BENCHMARK TBM "9"
SQUARE CUT ON TOP OF CURB
STA. 116+80.73
ELEV: 807.64 NAVD 88

BENCHMARK TBM "10"
'X' SET IN NORTHEAST HAT BOLT OF FIRE HYDRANT
STA. 123+99.19
ELEV: 807.93 NAVD 88

BENCHMARK TBM "11"
'X' FOUND ON NORTHEAST HAT BOLT OF FIRE HYDRANT
STA. 135+22.40
ELEV: 810.09 NAVD 88

BENCHMARK TBM "12"
'X' FOUND ON NORTHWEST HAT BOLT OF FIRE HYDRANT
STA. 144+96.38
ELEV: 811.14 NAVD 88

BENCHMARK TBM "13"
BENCHTIE SET IN UTILITY POLE
ELEV: 813.15 NAVD 88

HORIZONTAL CONTROL

SEE SHEET X-2517-02

SHEET DESCRIPTION

X-2517-01	COVER SHEET
X-2517-02	HORIZONTAL CONTROL POINTS
X-2517-03	TRAFFIC CONTROL PLAN
X-2517-04	PAVEMENT CORE REPORTS
X-2517-05	ROADWAY AND RAILROAD MARKINGS/SIGNS DETAILS
X-2517-05A	PAVEMENT MARKING PLAN
X-2517-06	RAILROAD CROSSING DETAILS
X-2517-07	N. EISENHOWER DR. - PLAN & PROFILE STA. 200+00 TO 205+25
X-2517-08	N. EISENHOWER DR. - PLAN & PROFILE STA. 205+00 TO 211+00
X-2517-09	N. EISENHOWER DR. - PLAN & PROFILE STA. 210+50 TO 216+50
X-2517-10	N. EISENHOWER DR. - PLAN & PROFILE STA. 216+00 TO 222+00
X-2517-11	N. EISENHOWER DR. - PLAN & PROFILE STA. 221+00 TO 226+50
X-2517-12	N. EISENHOWER DR. - PLAN & PROFILE STA. 227+00 TO 233+00
X-2517-13	N. EISENHOWER DR. - PLAN & PROFILE STA. 232+50 TO 238+50
X-2517-14	N. EISENHOWER DR. - PLAN & PROFILE STA. 238+00 TO 244+00
X-2517-15	N. EISENHOWER DR. - PLAN & PROFILE STA. 243+50 TO 249+50
X-2517-16	N. EISENHOWER DR. - PLAN & PROFILE STA. 249+00 TO 253+50
X-2517-17	N. EISENHOWER DR. - PLAN & PROFILE STA. 253+00 TO 256+00.01
X-2517-18	S. EISENHOWER DR. - PLAN & PROFILE STA. 100+00 TO 105+50
X-2517-19	S. EISENHOWER DR. - PLAN & PROFILE STA. 104+75 TO 110.75
X-2517-20	S. EISENHOWER DR. - PLAN & PROFILE STA. 110+50 TO 116+50
X-2517-21	S. EISENHOWER DR. - PLAN & PROFILE STA. 116+00 TO 122+00
X-2517-22	S. EISENHOWER DR. - PLAN & PROFILE STA. 121+50 TO 127+50
X-2517-23	S. EISENHOWER DR. - PLAN & PROFILE STA. 127+00 TO 133+00
X-2517-24	S. EISENHOWER DR. - PLAN & PROFILE STA. 132+50 TO 138+50
X-2517-25	S. EISENHOWER DR. - PLAN & PROFILE STA. 138+00 TO 144+00
X-2517-26	S. EISENHOWER DR. - PLAN & PROFILE STA. 143+50 TO 149+50
X-2517-27	S. EISENHOWER DR. - PLAN & PROFILE STA. 149+00 TO 155+00
X-2517-28	S. EISENHOWER DR. - PLAN & PROFILE STA. 154+00 TO 156+78.85
X-2517-29	INDUSTRIAL PARK DR. - PLAN & PROFILE STA. 10+00 TO 12+50
X-2517-30	MESSICK DR. - PLAN & PROFILE STA. 10+00 TO 12+50
X-2517-31	S. 15TH STREET. - PLAN & PROFILE STA. 10+00 TO 12+50
X-2517-32	EROSION CONTROL MEASURES
X-2517-33	EROSION CONTROL MEASURES
X-2517-34	EROSION CONTROL MEASURES
X-2517-35	EROSION CONTROL MEASURES
X-2517-36	EROSION CONTROL MEASURES
X-2517-37	EROSION CONTROL MEASURES
X-2517-38	EROSION CONTROL MEASURES
X-2517-39	EROSION CONTROL MEASURES

TOPOGRAPHIC SURVEY NOTES

THIS TOPOGRAPHIC SURVEY WAS PERFORMED IN JUNE/JULY, 2020 FOR THE CITY OF GOSHEN AND IS FOR THEIR USE ONLY.

THIS IS NOT A BOUNDARY SURVEY. RIGHT-OF-WAY LINES AND PROPERTY LINES ARE BASED ON LIMITED FIELD EVIDENCE AND LIMITED RESEARCH. ALL RIGHT-OF-WAY AND PROPERTY LINES SHOWN ARE APPARENT.

HORIZONTAL DATUM IS BASED UPON THE INDIANA STATE PLANE COORDINATE SYSTEM, EAST ZONE, GPS DERIVED UTILIZING THE INCORS NETWORK.

BASIS OF ELEVATION IS GPS DERIVED UTILIZING THE INCORS NETWORK, NAVD88 DATUM.

IN 2005 JPR PREPARED AT TOPOGRAPHIC SURVEY FOR THE CITY OF GOSHEN FOR THE GOSHEN INDUSTRIAL PARK STORM DRAINAGE REVIEW PROJECT, JPR PROJECT NO. 2005-0067, DRAWING NO. X-1385. THIS DRAWING WAS UTILIZED TO DEPICT LOCATIONS OF STRUCTURES FROM THE 2005 SURVEY THAT WERE NOT OBSERVED DURING THE COURSE OF THIS CURRENT TOPOGRAPHIC SURVEY.

ENGINEERING BY:

GOSHEN CITY ENGINEERING
204 E. JEFFERSON STREET
GOSHEN, IN 46528

SURVEY BY:

JONES PETRIE RAFINSKI
300 NIBCO PARKWAY, SUITE 250
ELKHART, IN 46516

DESCRIPTION	BY	DATE

JUSTIN K. SAILOR — REGISTERED — NO. 10200087 — STATE OF INDIANA — PROFESSIONAL ENGINEER — 11/19/2020

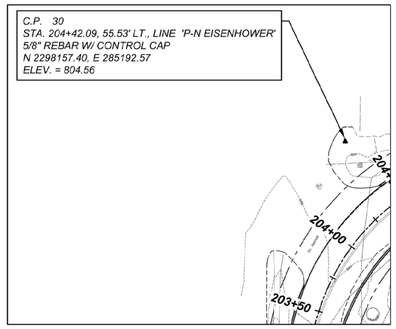
The City Of Goshen
Department of Public Works & Safety
Office of Engineering
204 East Jefferson Street, Goshen, Indiana 46528
Phone: 574-534-2201 Fax: 574-533-8626

Eisenhower Drive North & South Pavement Replacement

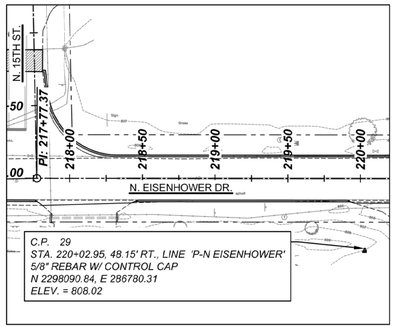
Cover Sheet

Project Number: 2020-0013	
Designed By: J. Hoffman	Approved By: D. Sailor, P.E.
Drafted By: J. Hoffman	Date: 11/19/2020
Scale: Not To Scale	

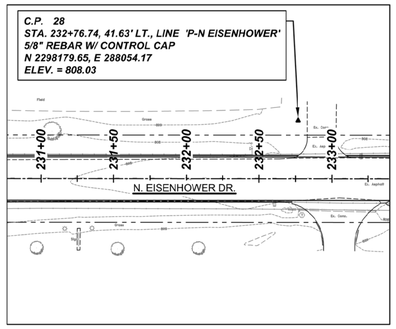
X-2517-01



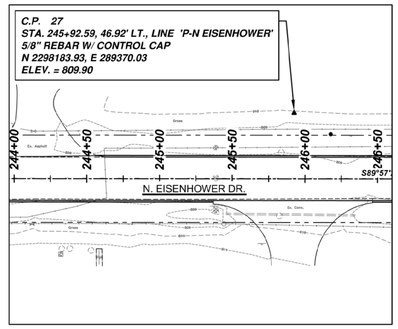
CONTROL POINT 30
STA. 204+42.09



CONTROL POINT 29
STA. 220+02.95



CONTROL POINT 28
STA. 232+76.74



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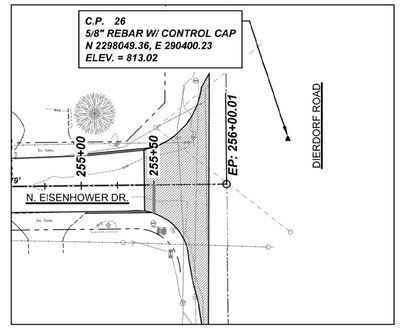
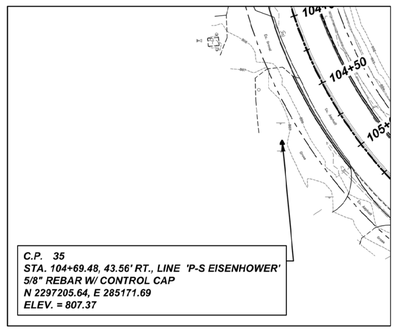
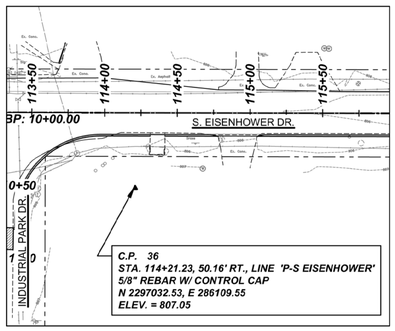
STA. 245+92.59



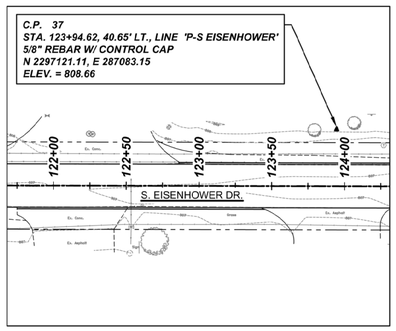
CONTROL POINT 26



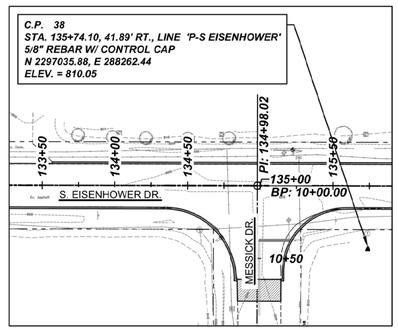
CONTROL POINT 35
STA. 104+69.48



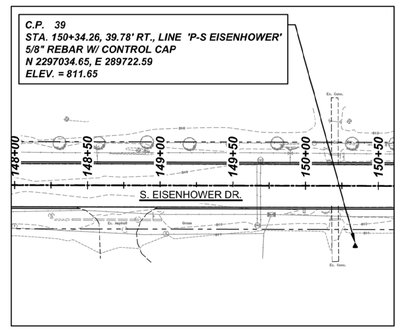
CONTROL POINT 36
STA. 114+21.23



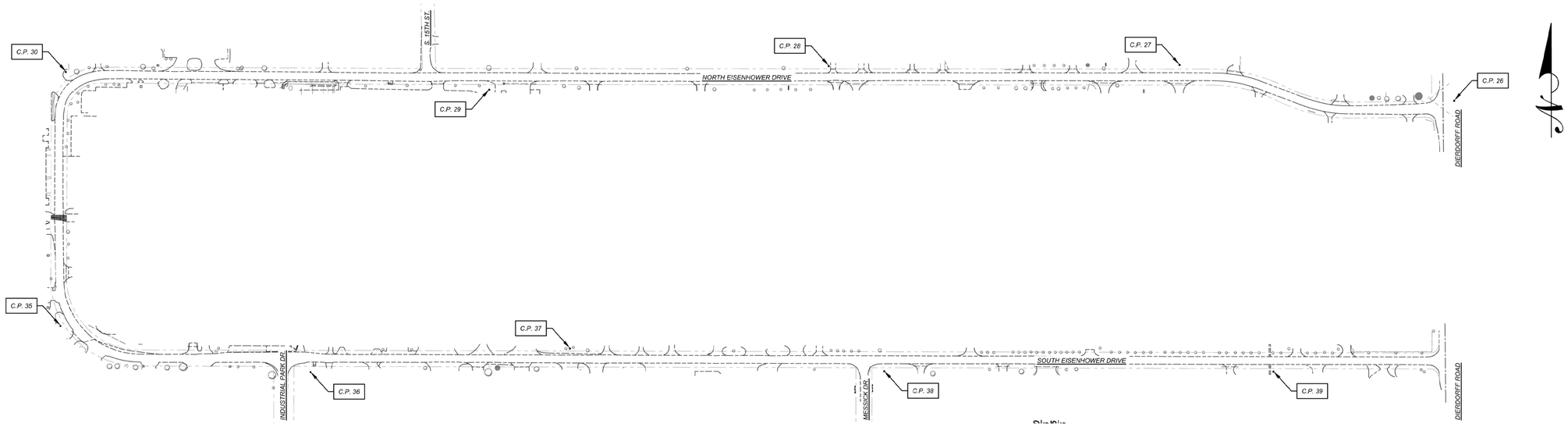
CONTROL POINT 37
STA. 123+94.62



CONTROL POINT 38
STA. 135+74.10

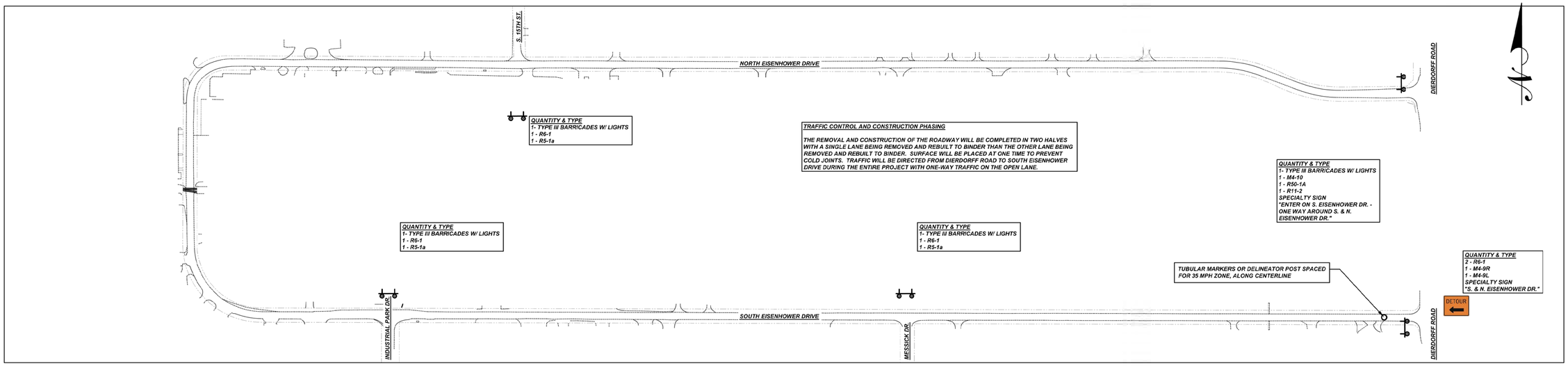


CONTROL POINT 39
STA. 150+34.26



HORIZONTAL CONTROL POINTS LOCATION MAP

SCALE = N.T.S.



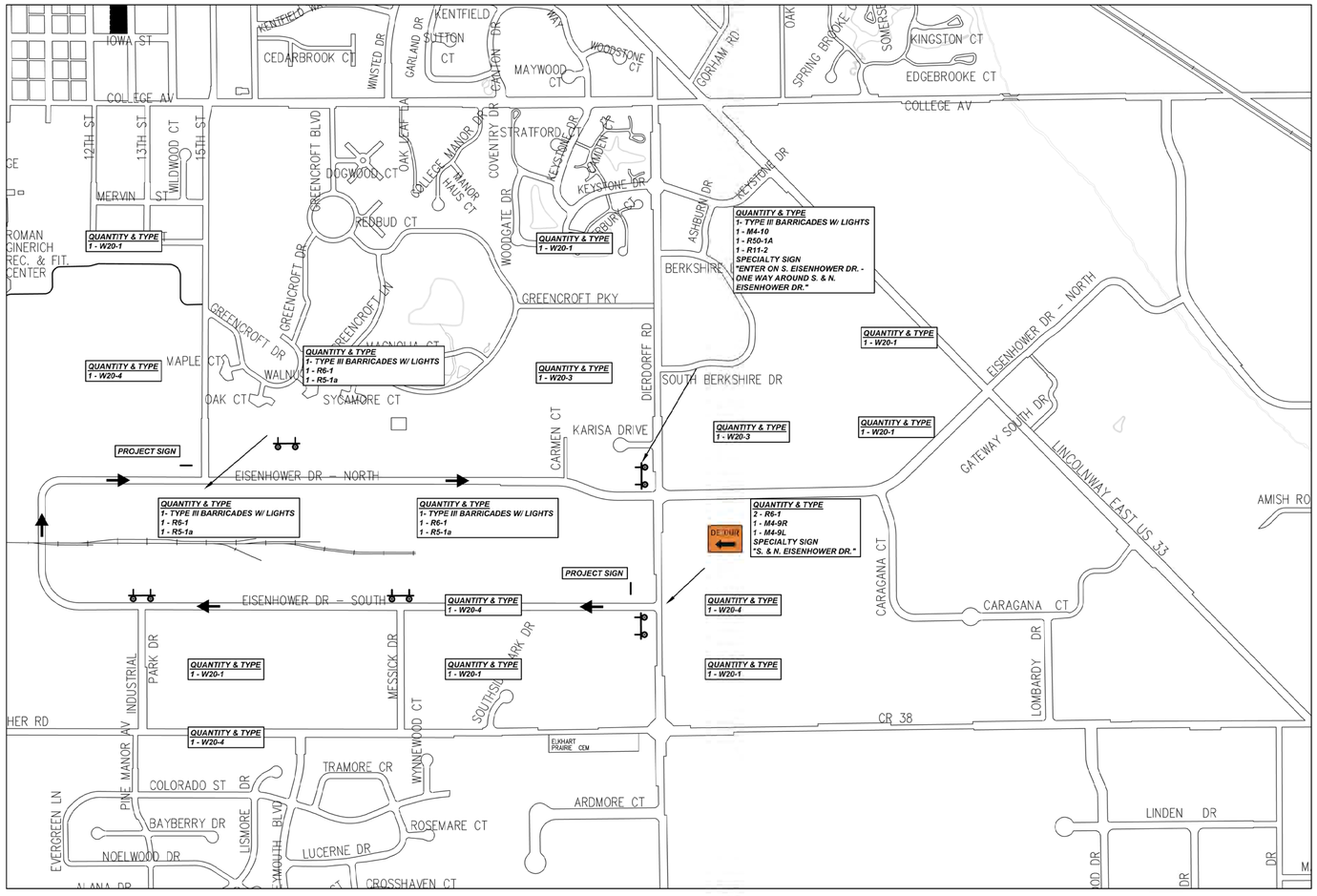
TRAFFIC CONTROL PLAN

SCALE = N.T.S.

TRAFFIC CONTROL PLAN NOTES

GOSHEN INDUSTRIAL PARK IS A HIGH DENSITY INDUSTRIAL AREA WITH SIGNIFICANT EMPLOYEE AND FREIGHT MOVEMENTS. THE TRAFFIC CONTROL PLAN SHOWN IS ANTICIPATED TO BE THE PHASE 2 PLAN. THE PHASE 1 PLAN, NOT SHOWN, REQUIRES THE CLOSURE OF THE WEST END OF THE HORSE SHOE TO ALLOW FOR THE REMOVAL AND REPLACEMENT OF THE RAILROAD TRACKS. ONCE THE TRACKS ARE REPLACED, TEMPORARY PAVEMENT IS TO BE INSTALLED TO PERMIT THE ONE-WAY SOUTH TO NORTH TRAFFIC PATTERN TO BE IMPLEMENTED. THIS TRAFFIC PATTERN IS TO PERSIST THROUGH THE PROJECT ALLOWING ONE LANE AT A TIME TO BE RECONSTRUCTED.

CONTRACTOR IS TO ANTICIPATE THE PLACEMENT OF TEMPORARY PADS IN THE REMOVED LANE FOR THE BUSINESS ACCESS AND WB-62 SEMI-TRACTOR MOVEMENT. SOME BUSINESSES HAVE LOADING DOCKS THAT REQUIRE TRACTORS TO ENTER THE OPPOSITE LANE TO ACCESS THEIR LOADING DOCK.



OVERALL TRAFFIC CONTROL PLAN

SCALE = N.T.S.

NO.	DESCRIPTION	BY	DATE

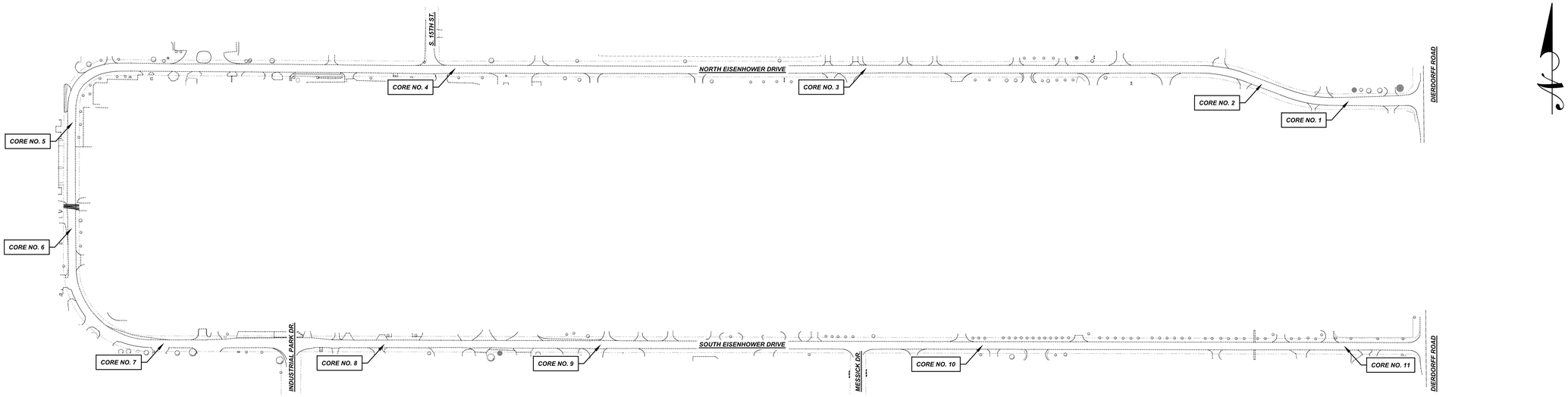
JUSTIN K. SAILOR — REGISTERED NO. 10200087 STATE OF INDIANA — PROFESSIONAL ENGINEER — 11/19/2020

The City Of Goshen
Department of Public Works & Safety
Office of Engineering
204 East Jefferson Street, Goshen, Indiana 46528
Phone: 574-534-2201 Fax: 574-533-8626

Eisenhower Drive North & South Pavement Replacement

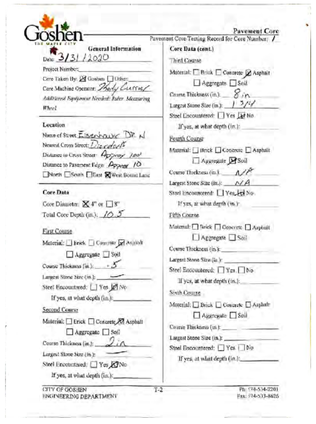
Traffic Control Plan

Project Number:	2020-0013
Designed By: J. Hoffman	Approved By: D. Sailor, P.E.
Drafted By: J. Hoffman	Date: 11/19/2020
Scale:	Not To Scale
	X-2517-03

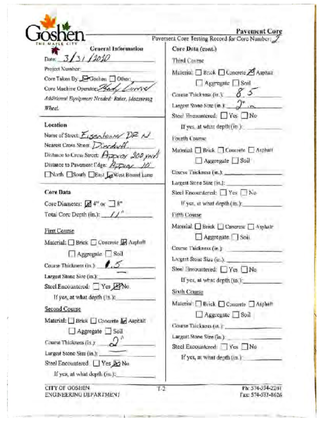


PAVEMENT CORES LOCATION MAP

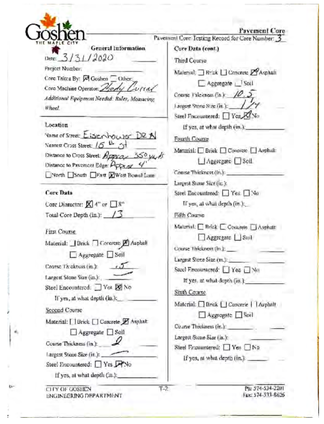
SCALE = N.T.S.



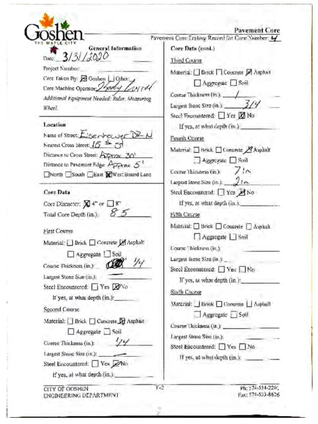
CORE NO. 1 REPORT
STA. 257+24±



CORE NO. 2 REPORT
STA. 249+70±



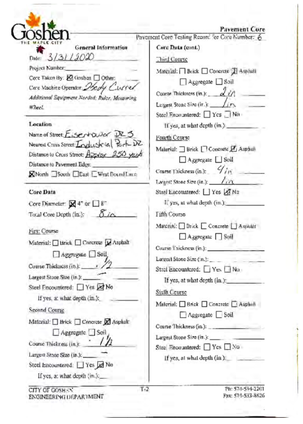
CORE NO. 3 REPORT
STA. 234+40±



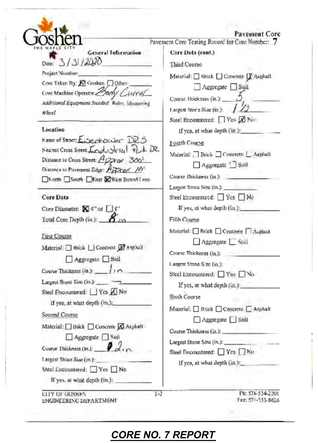
CORE NO. 4 REPORT
STA. 218+65±



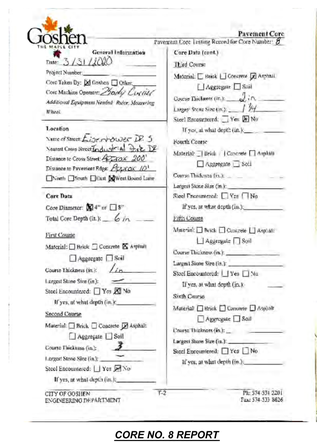
CORE NO. 5 REPORT
STA. 202+45±



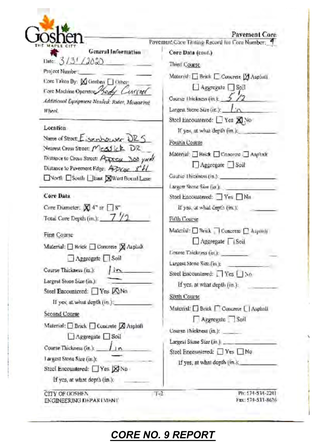
CORE NO. 6 REPORT
STA. 101+60±



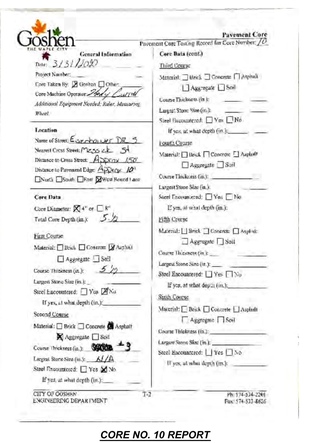
CORE NO. 7 REPORT
STA. 108+35±



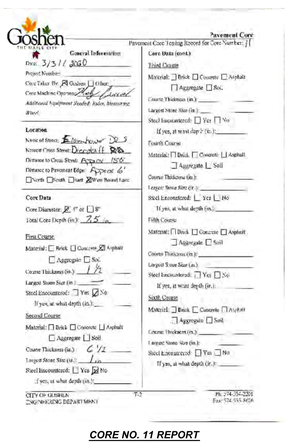
CORE NO. 8 REPORT
STA. 116+80±



CORE NO. 9 REPORT
STA. 125+10±



CORE NO. 10 REPORT
STA. 139+75±



CORE NO. 11 REPORT
STA. 157+82±

NO.	DESCRIPTION	BY	DATE

JUSTIN K. SAILOR
REGISTERED
NO. 10200087
STATE OF
INDIANA
PROFESSIONAL ENGINEER

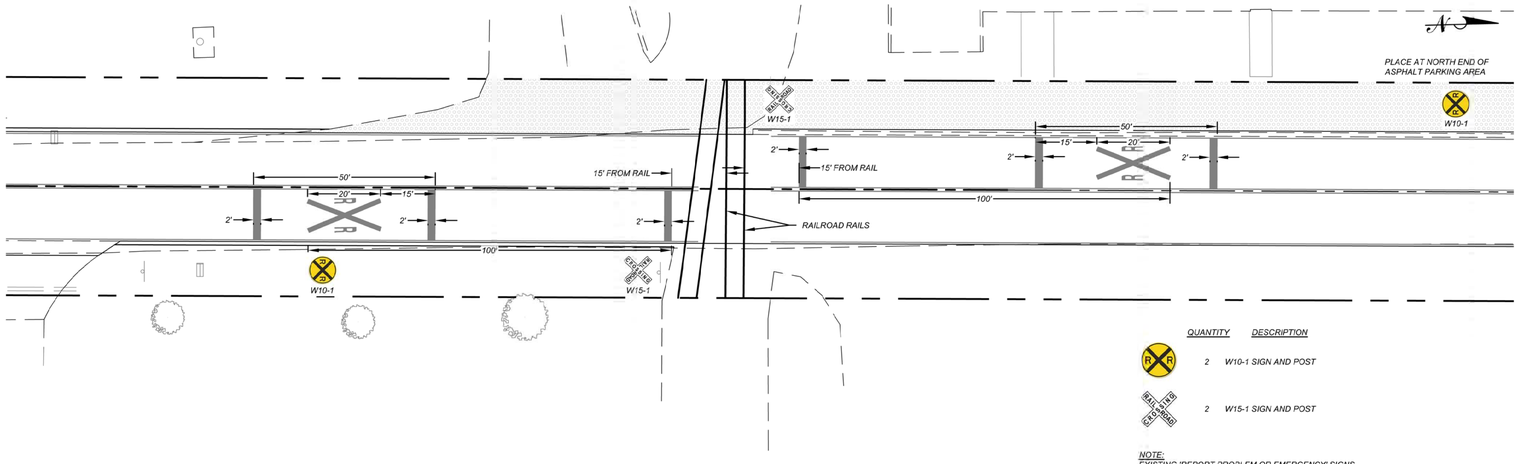
The City Of Goshen
Department of Public Works & Safety
Office of Engineering
204 East Jefferson Street, Goshen, Indiana 46528
Phone: 574-534-2201 Fax: 574-533-8626

Eisenhower Drive North & South Pavement Replacement

Pavement Core Reports

Project Number:	2020-0013
Designed By: J. Hoffman	Approved By: D. Sailor, P.E.
Drafted By: J. Hoffman	Date: 11/19/2020
Scale:	Not To Scale

X-2517-04

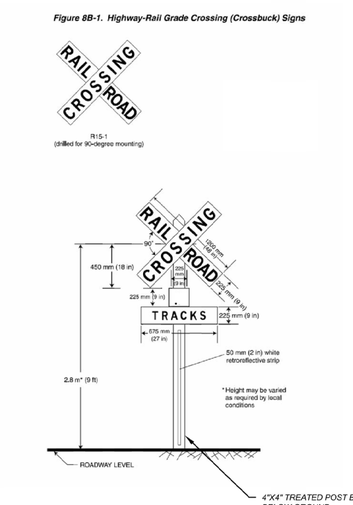


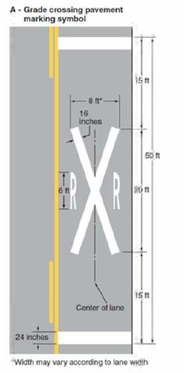
QUANTITY	DESCRIPTION
2	W10-1 SIGN AND POST
2	W15-1 SIGN AND POST

NOTE:
EXISTING 'REPORT PROBLEM OR EMERGENCY' SIGNS TO BE TRANSFERRED TO NEW POST, INCIDENTAL

RAILROAD CROSSING PAVEMENT MARKINGS AND SIGNS

NOT TO SCALE

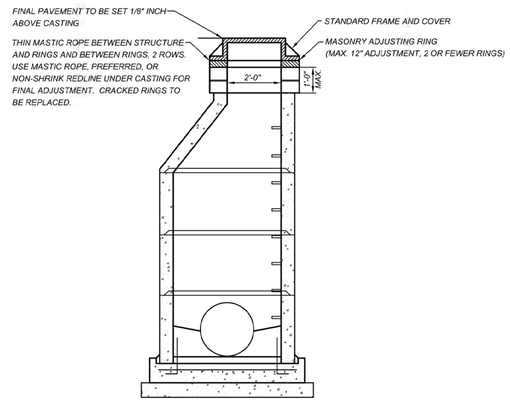




NOTE:
PREFORMED THERMOPLASTIC PANEL TO BE USED FOR LETTERING

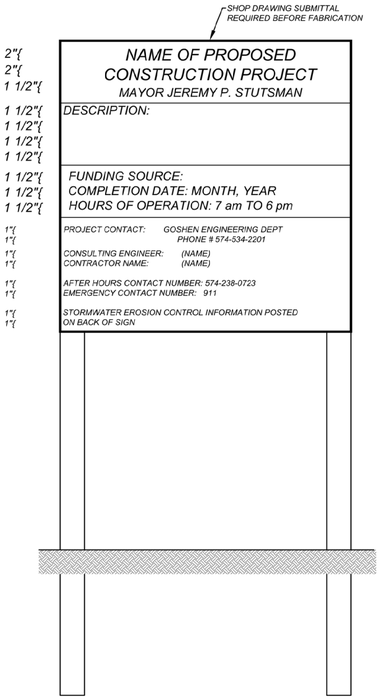
RAILROAD CROSSING DETAIL

NOT TO SCALE



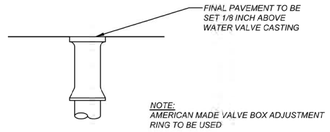
STRUCTURE CASTING ADJUSTING DETAIL

NOT TO SCALE



PROJECT CONSTRUCTION SIGN

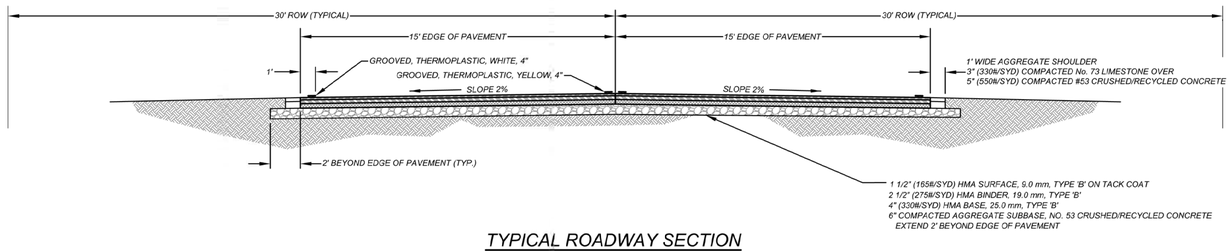
NOT TO SCALE



NOTE:
AMERICAN MADE VALVE BOX ADJUSTMENT RING TO BE USED

WATER VALVE ADJUSTING DETAIL

NOT TO SCALE



TYPICAL ROADWAY SECTION

NOT TO SCALE

REV.	DESCRIPTION	BY	DATE

JUSTIN K. SAILOR REGISTERED NO. 10200087 STATE OF INDIANA PROFESSIONAL ENGINEER
11/19/2020

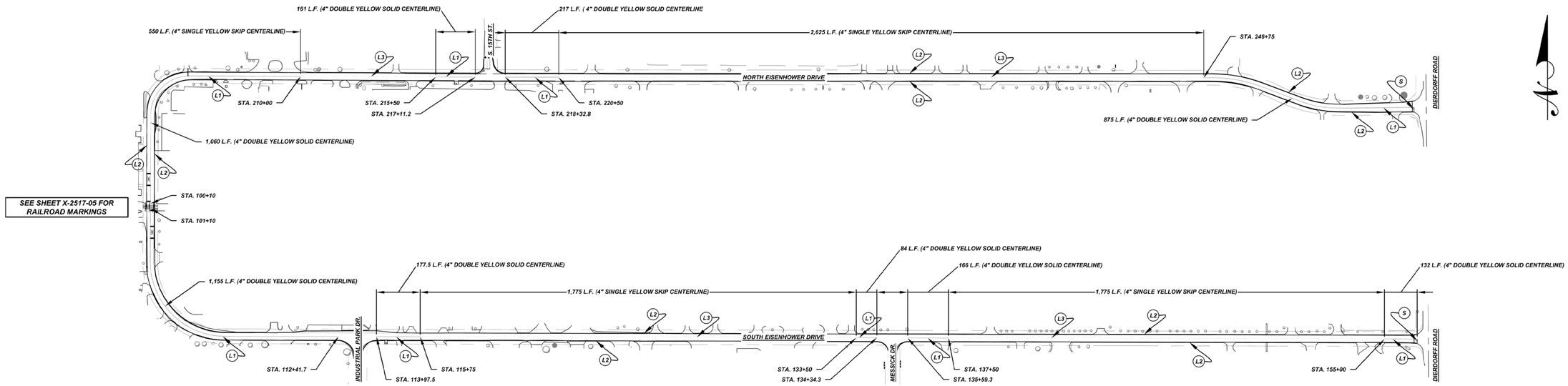
The City Of Goshen
Department of Public Works & Safety
Office of Engineering
204 East Jefferson Street, Goshen, Indiana 46528
Phone: 574-534-2201 Fax: 574-533-8626

Eisenhower Drive North & South Pavement Replacement

Roadway and Railroad Markings/Signs Details

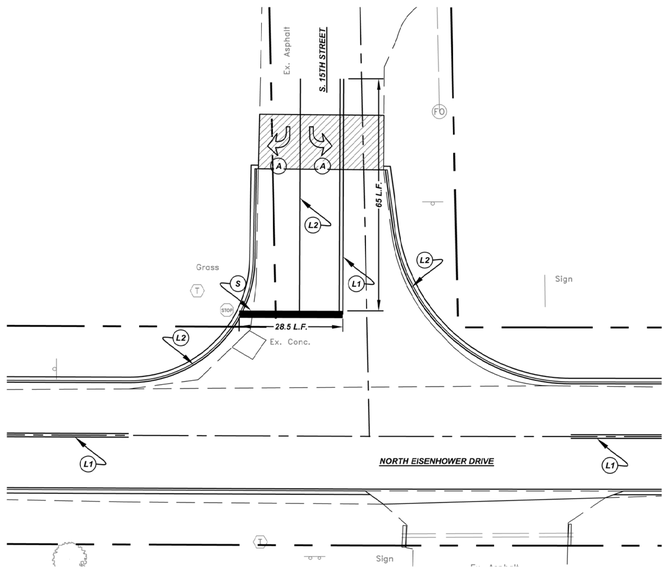
Project Number:	2020-0013
Designed By: J. Hoffman	Approved By: D. Sailor, P.E.
Drafted By: J. Hoffman	Date: 11/19/2020
Scale:	Not To Scale

X-2517-05



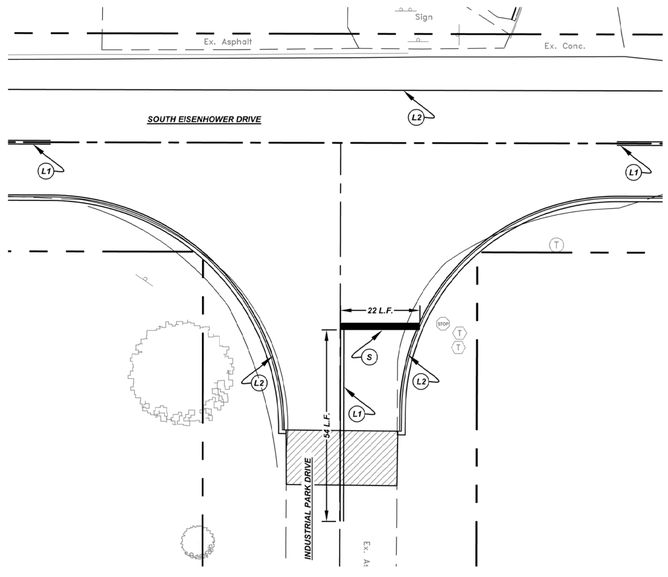
PAVEMENT MARKING PLAN

SCALE = N.T.S.



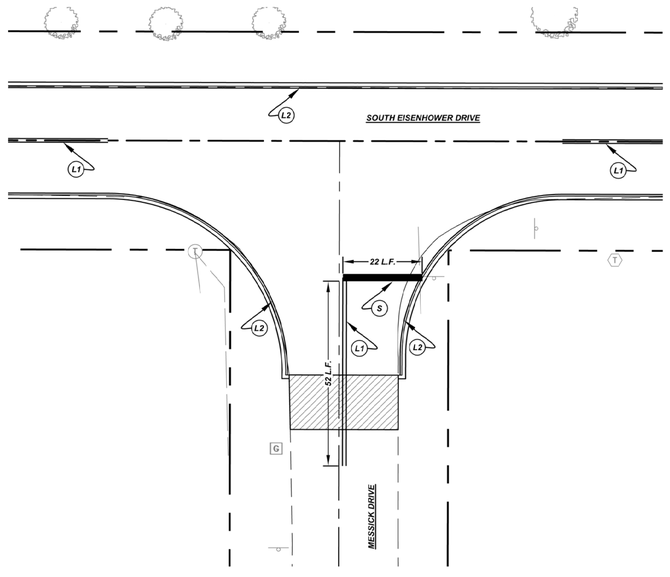
NORTH EISENHOWER DRIVE AND S. 15TH STREET

SCALE = 1" = 30'



SOUTH EISENHOWER DRIVE AND INDUSTRIAL PARK DRIVE

SCALE = 1" = 30'



NORTH EISENHOWER DRIVE AND MESSICK DRIVE

SCALE = 1" = 30'

LEGEND

28	PAVEMENT, FULL DEPTH, 1¾" HMA SURFACE OVER 3" HMA BINDER OVER 4" HMA BASE OVER 6" No. 53 CRUSHED CONCRETE	82	4" TOPSOIL. INDOT TYPE 'U' (NO CLOVER), STRAW WITH TACKIFIER	S	24", STOP BAR, THERMOPLASTIC, WHITE
30	1' AGGREGATE SHOULDER, 3" No. 73 LIMESTONE OVER 5" No. 53 CRUSHED/RECYCLED CONCRETE	L1	4", DOUBLE, THERMOPLASTIC, YELLOW (GROOVED)	A	ARROW, THERMOPLASTIC, WHITE
45	3" No. 73 LIMESTONE DRIVE	L2	4", SINGLE, THERMOPLASTIC, WHITE (GROOVED)	M	RELOCATE/ADJUST MAILBOX
63	ADJUST CASTING	L3	4", SKIP, THERMOPLASTIC, YELLOW (GROOVED)		

REV.	DESCRIPTION	BY	DATE

DUSTIN K. SAILOR — REGISTERED NO. 10200087 STATE OF INDIANA PROFESSIONAL ENGINEER — 11/19/2020

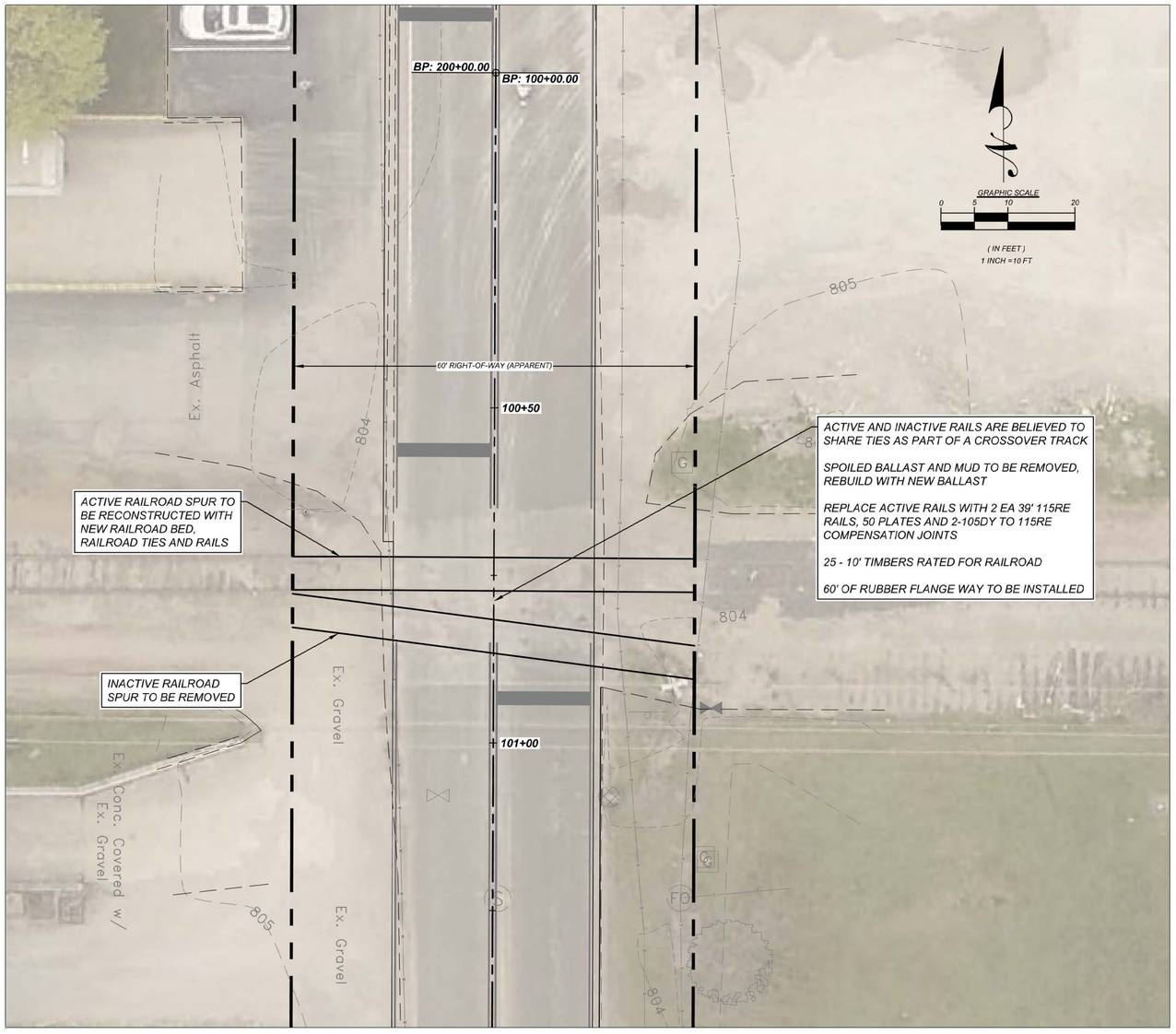
The City Of Goshen
Department of Public Works & Safety
Office of Engineering
204 East Jefferson Street, Goshen, Indiana 46528
Phone: 574-534-2201 Fax: 574-533-8626

Eisenhower Drive North & South Pavement Replacement

Pavement Marking Plan

Project Number: 2020-0013	
Designed By: J. Hoffman	Approved By: D. Sailor, P.E.
Drafted By: J. Hoffman	Date: 11/19/2020
Scale: Not To Scale	

X-2517-5A



RAILROAD CROSSING REPLACEMENT PLAN
SCALE = 1" = 10'

NOTES:

1. *RAILROAD SPUR IS USED BY BERRY PLASTICS LOCATED AT 1413 EISENHOWER DRIVE SOUTH*

2. *BERRY PLASTICS CONTACT IS*

   DAVID RIGGS
   OPERATIONS MANAGER
   BUSINESS NUMBER: 574-975-9942
   CELL NUMBER: 574-859-3373

3. *RAILROAD SPUR IS PRIVATELY OPERATED AND HAS HAD MAINTENANCE PROVIDED ON THE SPUR BY THE FOLLOWING COMPANIES. THESE COMPANIES ARE BEING PROVIDED AS A RESOURCE FOR THE PRIME CONTRACTOR*

   A. INDUSTRIAL RAILROAD SERVICES
   P.O. BOX 925
   ANGOLA, IN 46703

   ATTENTION: DAN BOSDIEKER
   BUSINESS NUMBER: 419-877-5000
   CELL NUMBER: 419-340-8158

   B. MIDWEST RAILROAD
   18303 SUGAR CREEK ROAD
   BOWLING GREEN, OH 43402
   BUSINESS NUMBER: 304-421-4739

4. *BERRY PLASTICS RECEIVES RAIL CARS EVERY TWO DAYS. WORK TO REMOVE AND RESTORE TRACKS SHALL BE COORDINATED WITH BERRY PLASTICS SO THEY ARE NOT WITHOUT RAIL CAR SERVICE WHEN REQUIRED*

5. *WASTE MATERIAL TO BE REMOVED OFF SITE*

6. *CONTRACTOR TO FOLLOW NORFOLK SOUTHERN RAILROAD COMPANY SPECIFICATIONS FOR DESIGN AND CONSTRUCTION OF PRIVATELY OWNED INDUSTRIAL TRACKS, REVISED JULY 2020, STANDARDS ARE AVAILABLE ONLINE*

REV.	DESCRIPTION	BY	DATE

DUSTIN K. SAILOR REGISTERED NO. 10200087 STATE OF INDIANA PROFESSIONAL ENGINEER 11/19/2020

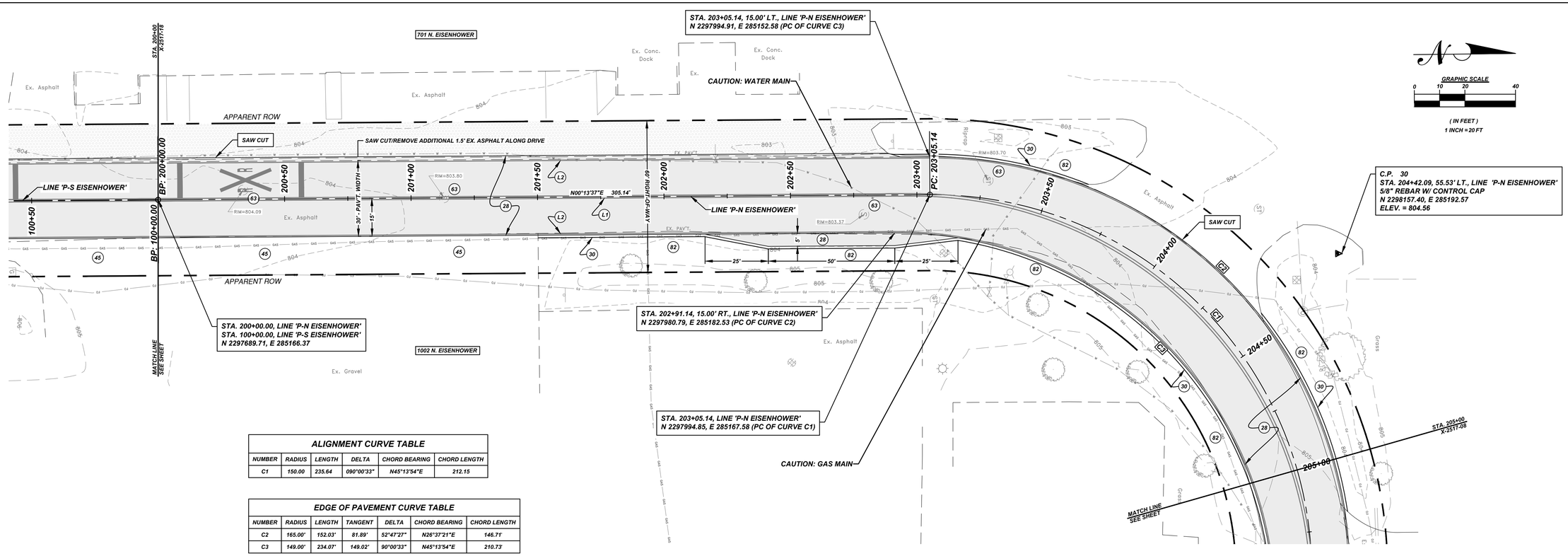
The City Of Goshen
Department of Public Works & Safety
Office of Engineering
204 East Jefferson Street, Goshen, Indiana 46528
Phone: 574-534-2201 Fax: 574-533-8626

Eisenhower Drive North & South Pavement Replacement

Railroad Crossing Details

Project Number:	2020-0013
Designed By: J. Hoffman	Approved By: D. Sailor, P.E.
Drafted By: J. Hoffman	Date: 11/19/2020
Scale:	Not To Scale

X-2517-06



ALIGNMENT CURVE TABLE

NUMBER	RADIUS	LENGTH	DELTA	CHORD BEARING	CHORD LENGTH
C1	150.00	235.64	090°00'33"	N45°13'54"E	212.15

EDGE OF PAVEMENT CURVE TABLE

NUMBER	RADIUS	LENGTH	TANGENT	DELTA	CHORD BEARING	CHORD LENGTH
C2	165.00'	152.03'	81.89'	52°47'27"	N26°37'21"E	146.71'
C3	149.00'	234.07'	149.02'	90°00'33"	N45°13'54"E	210.73'

PLAN - N. EISENHOWER DR. - STA. 200+00 TO STA. 205+00

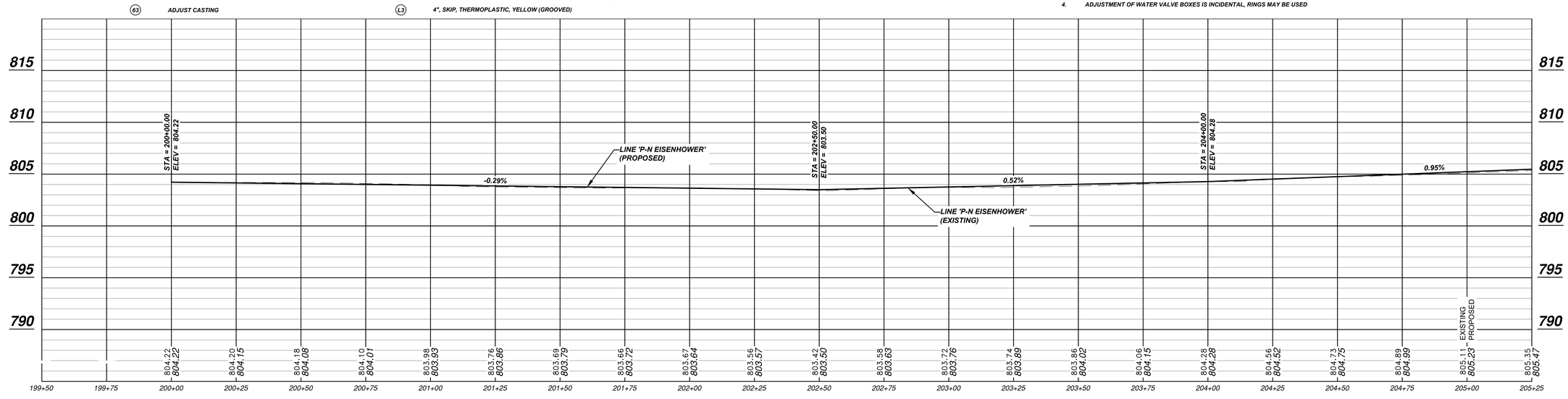
SCALE 1" = 20' H

LEGEND

(28)	PAVEMENT, FULL DEPTH, 1 1/2" HMA SURFACE OVER 2 1/2" HMA BINDER OVER 4" HMA BASE OVER 6" No. 53 CRUSHED CONCRETE	
(30)	1' AGGREGATE SHOULDER, 3" No. 73 LIMESTONE OVER 5" No. 53 CRUSHED/RECYCLED CONCRETE	
(45)	3" No. 73 LIMESTONE DRIVE	
(63)	ADJUST CASTING	
(82)	4" TOPSOIL. INDOT TYPE 'U' (NO CLOVER), STRAW WITH TACKIFIER	
(L1)	4", DOUBLE, THERMOPLASTIC, YELLOW (GROOVED)	
(L2)	4", SINGLE, THERMOPLASTIC, WHITE (GROOVED)	
(L3)	4", SKIP, THERMOPLASTIC, YELLOW (GROOVED)	
(S)	24", STOP BAR, THERMOPLASTIC, WHITE	
(A)	ARROW, THERMOPLASTIC, WHITE	
(M)	RELOCATE/ADJUST MAILBOX	

GENERAL NOTES:

1. SAW CUT EXISTING PAVEMENT EDGE PRIOR TO PLACING NEW PAVEMENT. DAMAGED EDGES MUST BE CORRECTED
2. ALL DRIVEWAYS MUST REMAIN OPEN TO BUSINESSES DURING PROJECT, MILLINGS OR AGGREGATE MAY BE PLACED ACROSS REMOVED LANE
3. AT THE END OF EACH WORK DAY, ALL PUBLIC UTILITIES MUST BE FULLY FUNCTIONAL. IF A UTILITY IS DAMAGED, IT MUST BE RESTORED THE SAME DAY
4. ADJUSTMENT OF WATER VALVE BOXES IS INCIDENTAL, RINGS MAY BE USED



PROFILE - N. EISENHOWER DR. - STA. 200+00 TO STA. 205+00

SCALE 1" = 20' H, 5' V

NO.	DESCRIPTION	DATE	BY
1	REVISED DINSER THICKNESS FROM 3" TO 2 1/2" ON P&P LEGEND	12/03/2020	DKS

The City Of Goshen
Department of Public Works & Safety
Office of Engineering
204 East Jefferson Street, Goshen, Indiana 46528
Phone: 574-534-2201 Fax: 574-533-8626

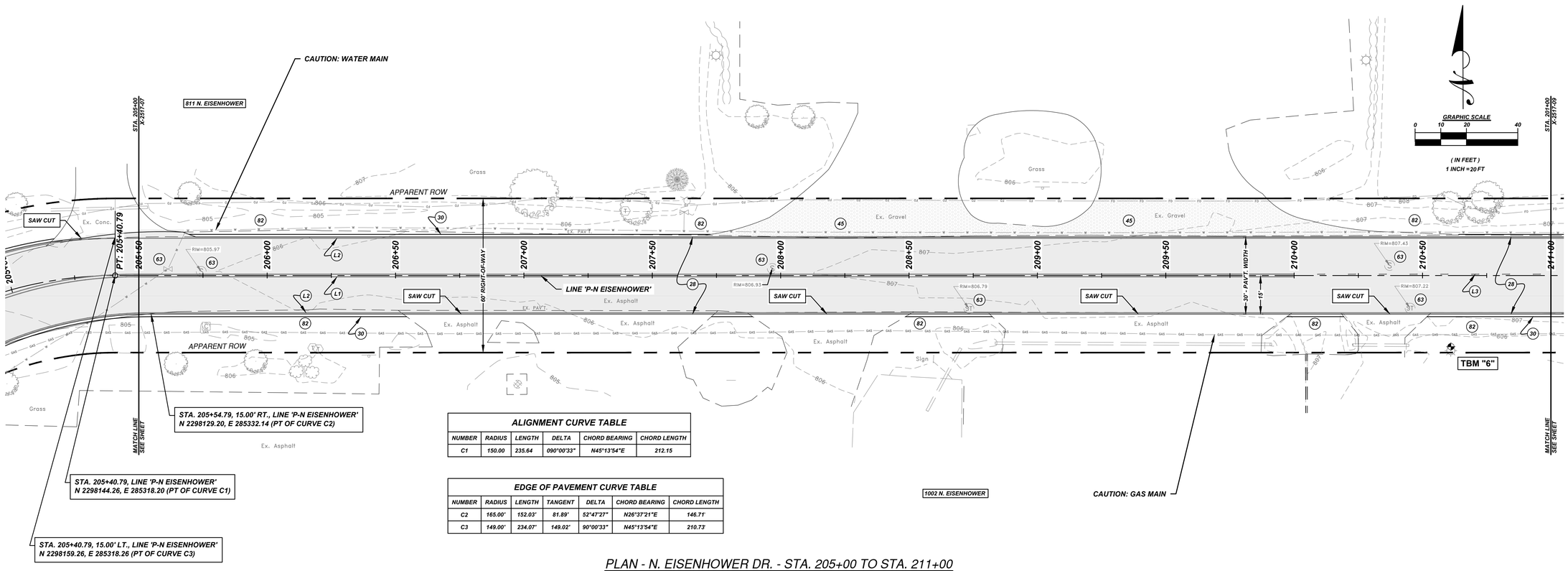
JUSTIN K. SAILOR NO. 10200087 STATE OF INDIANA REGISTERED PROFESSIONAL ENGINEER

Eisenhower Drive North & South Pavement Replacement

N. EISENHOWER ROAD PLAN & PROFILE
STA. 200+00 TO STA. 205+00

Project Number:	2020-0013
Designed By: J. Hoffman	Approved By: D. Sailor, P.E.
Drafted By: J. Hoffman	Date: 11/19/2020
Scale:	1" = 20' H, 5' V

X-2517-07



ALIGNMENT CURVE TABLE					
NUMBER	RADIUS	LENGTH	DELTA	CHORD BEARING	CHORD LENGTH
C1	150.00	235.64	090°00'33"	N45°13'54"E	212.15

EDGE OF PAVEMENT CURVE TABLE						
NUMBER	RADIUS	LENGTH	TANGENT	DELTA	CHORD BEARING	CHORD LENGTH
C2	165.00'	152.03'	81.89'	52°47'27"	N26°37'21"E	146.71'
C3	149.00'	234.07'	149.02'	90°00'33"	N45°13'54"E	210.73'

PLAN - N. EISENHOWER DR. - STA. 205+00 TO STA. 211+00

SCALE 1" = 20' H

LEGEND

⚠ 28	PAVEMENT, FULL DEPTH, 1 1/2" HMA SURFACE OVER 2 1/2" HMA BINDER OVER 4" HMA BASE OVER 6" No. 53 CRUSHED CONCRETE	82	4" TOPSOIL, INDOT TYPE 'U' (NO CLOVER), STRAW WITH TACKIFIER	S	24", STOP BAR, THERMOPLASTIC, WHITE
30	1' AGGREGATE SHOULDER, 3" No. 73 LIMESTONE OVER 5" No. 53 CRUSHED/RECYCLED CONCRETE	L1	4", DOUBLE, THERMOPLASTIC, YELLOW (GROOVED)	A	ARROW, THERMOPLASTIC, WHITE
45	3" No. 73 LIMESTONE DRIVE	L2	4", SINGLE, THERMOPLASTIC, WHITE (GROOVED)	M	RELOCATE/ADJUST MAILBOX
63	ADJUST CASTING	L3	4", SKIP, THERMOPLASTIC, YELLOW (GROOVED)		

GENERAL NOTES:

1. SAW CUT EXISTING PAVEMENT EDGE PRIOR TO PLACING NEW PAVEMENT. DAMAGED EDGES MUST BE CORRECTED
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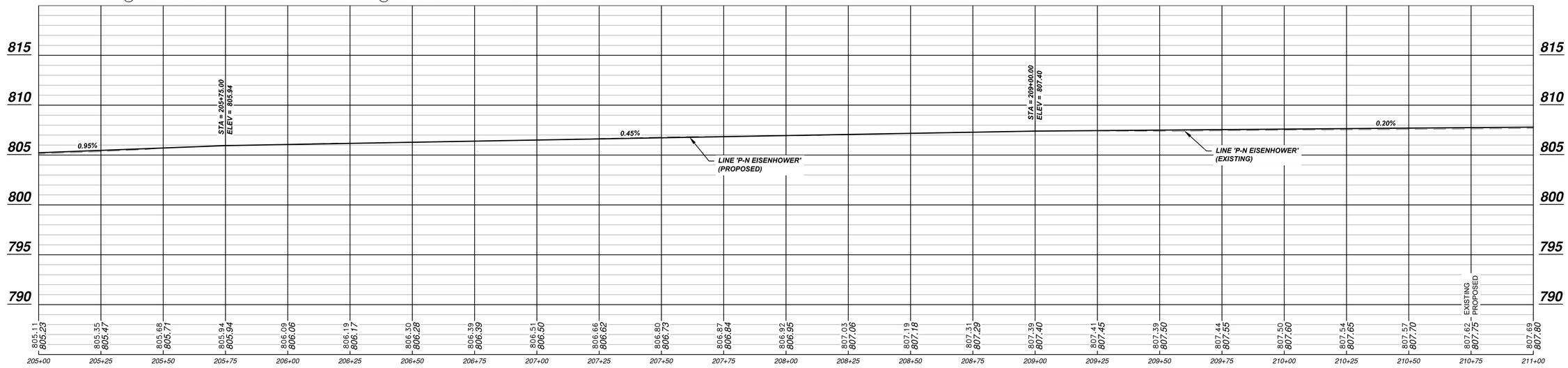
3. AT THE END OF EACH WORK DAY, ALL PUBLIC UTILITIES MUST BE FULLY FUNCTIONAL. IF A UTILITY IS DAMAGED, IT MUST BE RESTORED THE SAME DAY
4. ADJUSTMENT OF WATER VALVE BOXES IS INCIDENTAL, RINGS MAY BE USED

BENCHMARK TBM "6"

SQUARE CUT IN NORTH SIDE OF CONCRETE LIGHT POLE BASE
ELEVATION 809.16 FEET NGVD88.

ELEV. = 809.16



PROFILE - N. EISENHOWER DR. - STA. 205+00 TO STA. 211+00

SCALE 1" = 20' H, 5' V

BY	DATE	DESCRIPTION
DKS	12/03/2020	REVISED DINSER THICKNESS FROM 3" TO 2 1/2" ON P&P LEGEND
		REV.

DUSTIN K. SAILOR — NO. 10220087 — STATE OF INDIANA — REGISTERED PROFESSIONAL ENGINEER

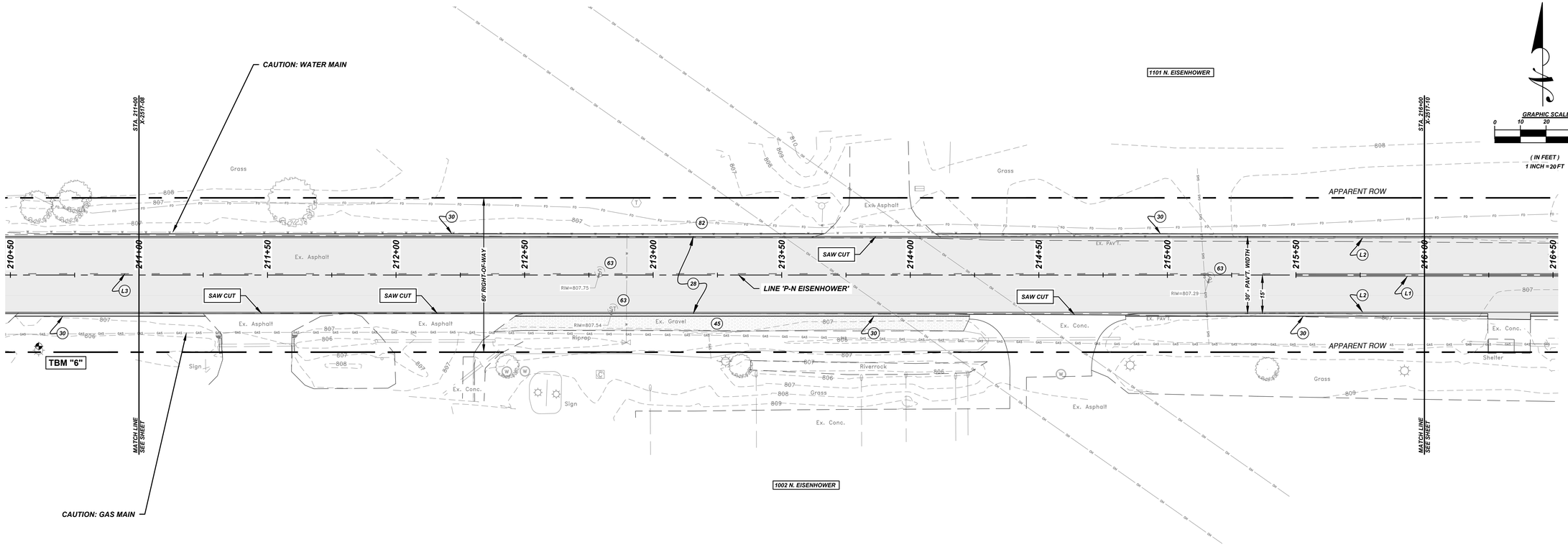
The City Of Goshen
Department of Public Works & Safety
Office of Engineering
204 East Jefferson Street, Goshen, Indiana 46528
Phone: 574-534-2201 Fax: 574-533-8626

Eisenhower Drive North & South Pavement Replacement

N. EISENHOWER ROAD PLAN & PROFILE
STA. 205+00 TO STA. 211+00

Project Number:	2020-0013
Designed By: J. Hoffman	Approved By: D. Sailor, P.E.
Drafted By: J. Hoffman	Date: 11/19/2020
Scale:	1" = 20' H, 5' V

X-2517-08



PLAN - N. EISENHOWER DR. - STA. 210+50 TO STA. 216+00

SCALE 1" = 20' H

LEGEND

⚠ 28	PAVEMENT, FULL DEPTH, 1 1/2" HMA SURFACE OVER 2 1/2" HMA BINDER OVER 4" HMA BASE OVER 6" No. 53 CRUSHED CONCRETE	82	4" TOPSOIL, INDOT TYPE 'U' (NO CLOVER), STRAW WITH TACKIFIER	S	24", STOP BAR, THERMOPLASTIC, WHITE
30	1' AGGREGATE SHOULDER, 3" No. 73 LIMESTONE OVER 5" No. 53 CRUSHED/RECYCLED CONCRETE	L1	4", DOUBLE, THERMOPLASTIC, YELLOW (GROOVED)	A	ARROW, THERMOPLASTIC, WHITE
45	3" No. 73 LIMESTONE DRIVE	L2	4", SINGLE, THERMOPLASTIC, WHITE (GROOVED)	M	RELOCATE/ADJUST MAILBOX
63	ADJUST CASTING	L3	4", SKIP, THERMOPLASTIC, YELLOW (GROOVED)		

GENERAL NOTES:

1. SAW CUT EXISTING PAVEMENT EDGE PRIOR TO PLACING NEW PAVEMENT. DAMAGED EDGES MUST BE CORRECTED
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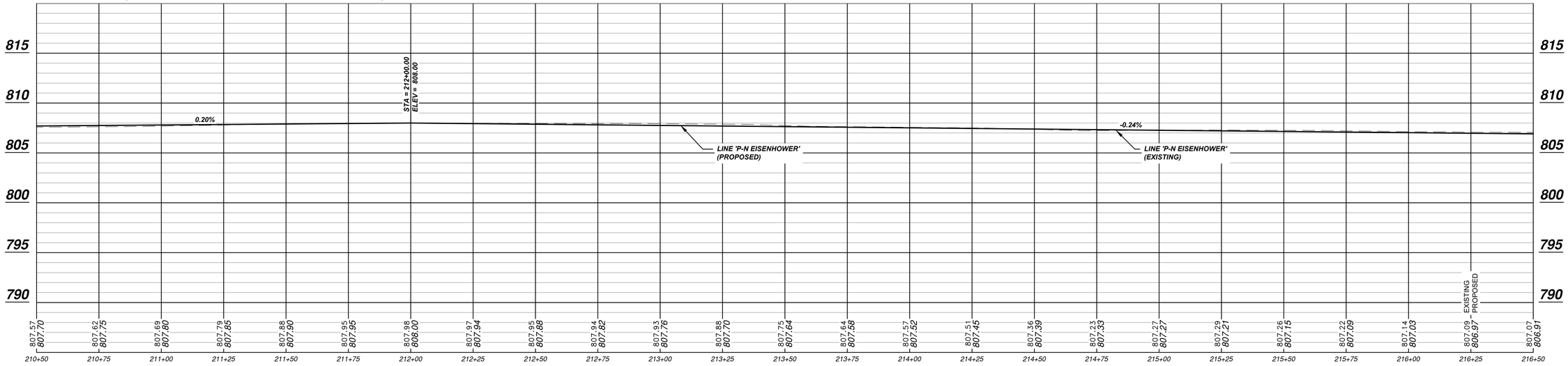
3. AT THE END OF EACH WORK DAY, ALL PUBLIC UTILITIES MUST BE FULLY FUNCTIONAL. IF A UTILITY IS DAMAGED, IT MUST BE RESTORED THE SAME DAY
4. ADJUSTMENT OF WATER VALVE BOXES IS INCIDENTAL, RINGS MAY BE USED

BENCHMARK TBM "6"

SQUARE CUT IN NORTH SIDE OF CONCRETE LIGHT POLE BASE
ELEVATION 809.16 FEET NGVD88.

ELEV. = 809.16



PROFILE - N. EISENHOWER DR. - STA. 210+50 TO STA. 216+00

SCALE 1" = 20' H, 5' V

NO	DESCRIPTION	BY	DATE
1	REVISED DINSER THICKNESS FROM 3" TO 2 1/2" ON P&P LEGEND	DKS	12/8/2020

JUSTIN K. SAILOR — NO. 10200087 — STATE OF INDIANA — REGISTERED PROFESSIONAL ENGINEER

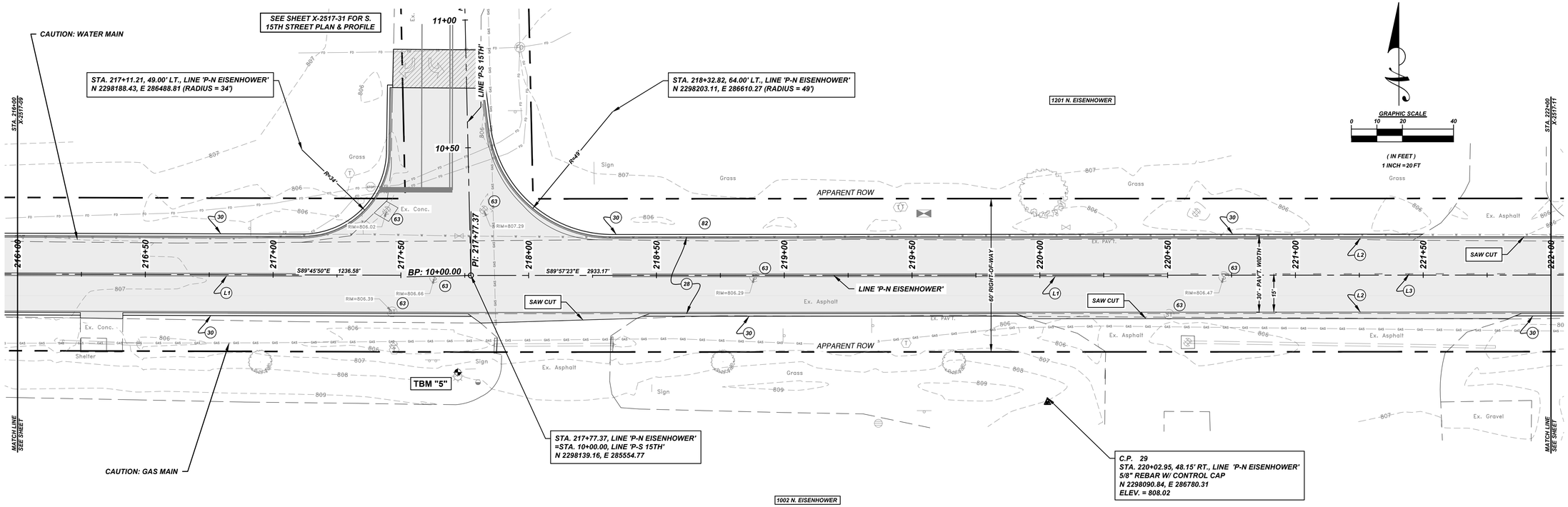
The City Of Goshen
Department of Public Works & Safety
Office of Engineering
204 East Jefferson Street, Goshen, Indiana 46528
Phone: 574-534-2201 Fax: 574-533-8626

Eisenhower Drive North & South Pavement Replacement

N. EISENHOWER ROAD PLAN & PROFILE
STA. 210+50 TO STA. 216+00

Project Number:	2020-0013
Designed By: J. Hoffman	Approved By: D. Sailor, P.E.
Drafted By: J. Hoffman	Date: 11/19/2020
Scale:	1" = 20' H, 5' V

X-2517-09



PLAN - N. EISENHOWER DR. - STA. 216+00 TO STA. 222+00

SCALE 1" = 20' H

LEGEND

⚠ 28	PAVEMENT, FULL DEPTH, 1 1/2" HMA SURFACE OVER 2 1/2" HMA BINDER OVER 4" HMA BASE OVER 6" No. 53 CRUSHED CONCRETE	82	4" TOPSOIL, INDOT TYPE 'U' (NO CLOVER), STRAW WITH TACKIFIER	S	24", STOP BAR, THERMOPLASTIC, WHITE
30	1' AGGREGATE SHOULDER, 3" No. 73 LIMESTONE OVER 5" No. 53 CRUSHED/RECYCLED CONCRETE	L1	4", DOUBLE, THERMOPLASTIC, YELLOW (GROOVED)	A	ARROW, THERMOPLASTIC, WHITE
45	3" No. 73 LIMESTONE DRIVE	L2	4", SINGLE, THERMOPLASTIC, WHITE (GROOVED)	M	RELOCATE/ADJUST MAILBOX
63	ADJUST CASTING	L3	4", SKIP, THERMOPLASTIC, YELLOW (GROOVED)		

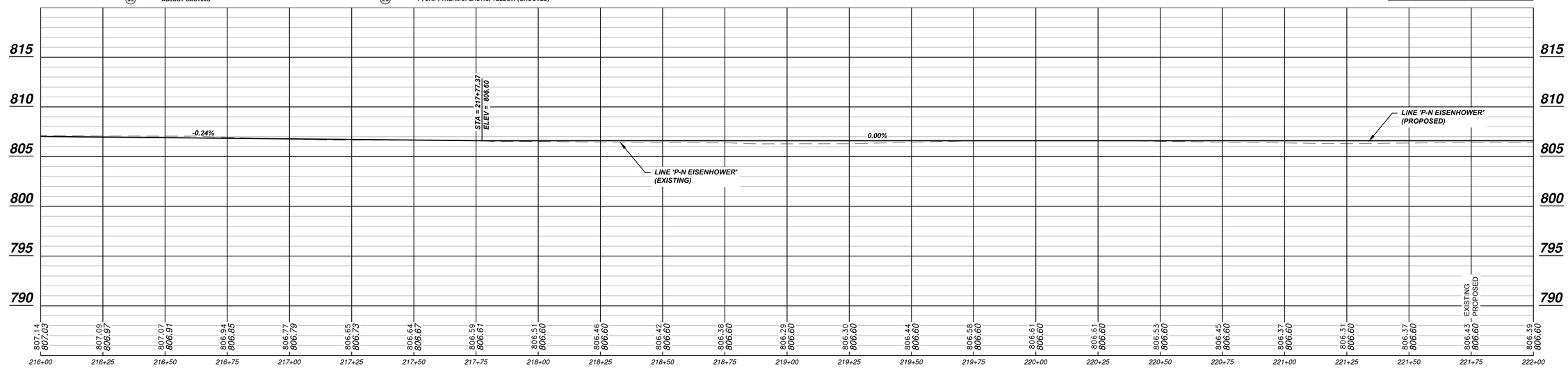
GENERAL NOTES:

1. SAW CUT EXISTING PAVEMENT EDGE PRIOR TO PLACING NEW PAVEMENT. DAMAGED EDGES MUST BE CORRECTED
2. ALL DRIVEWAYS MUST REMAIN OPEN TO BUSINESSES DURING PROJECT, MILLINGS OR AGGREGATE MAY BE PLACED ACROSS REMOVED LANE
3. AT THE END OF EACH WORK DAY, ALL PUBLIC UTILITIES MUST BE FULLY FUNCTIONAL. IF A UTILITY IS DAMAGED, IT MUST BE RESTORED THE SAME DAY
4. ADJUSTMENT OF WATER VALVE BOXES IS INCIDENTAL, RINGS MAY BE USED

BENCHMARK TBM "5"

SQUARE CUT IN NORTH SIDE OF CONCRETE LIGHT POLE BASE
ELEVATION 809.21 FEET NGVD88.

ELEV. = 809.21



PROFILE - N. EISENHOWER DR. - STA. 216+00 TO STA. 222+00

SCALE 1" = 20' H, 5' V

DATE	BY	DESCRIPTION	REV.
12/30/2020	DKS	REVISED DINSER THICKNESS FROM 3" TO 2 1/2" ON P&P LEGEND	⚠

DUSTIN K. SAILOR — NO. 10200087 — STATE OF INDIANA — REGISTERED PROFESSIONAL ENGINEER

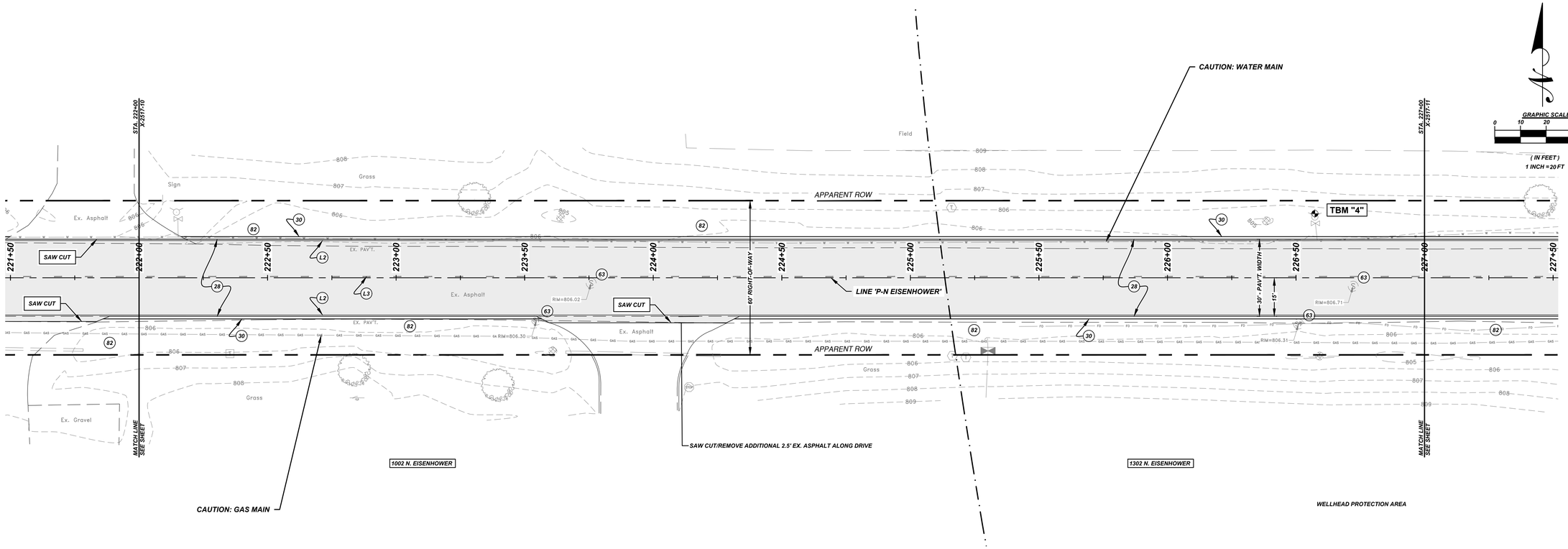
The City Of Goshen
Department of Public Works & Safety
Office of Engineering
204 East Jefferson Street, Goshen, Indiana 46528
Phone: 574-534-2201 Fax: 574-533-8626

Eisenhower Drive North & South Pavement Replacement

N. EISENHOWER ROAD PLAN & PROFILE
STA. 216+00 TO STA. 222+00

Project Number:	2020-0013
Designed By: J. Hoffman	Approved By: D. Sailor, P.E.
Drafted By: J. Hoffman	Date: 11/19/2020
Scale:	1" = 20' H, 5' V

X-2517-10



PLAN - N. EISENHOWER DR. - STA. 221+00 TO STA. 227+00

SCALE 1" = 20' H

LEGEND

⚠ (28)	PAVEMENT, FULL DEPTH, 1 1/2" HMA SURFACE OVER 2 1/2" HMA BINDER OVER 4" HMA BASE OVER 6" No. 53 CRUSHED CONCRETE	(82)	4" TOPSOIL, INDOT TYPE 'U' (NO CLOVER), STRAW WITH TACKIFIER	(S)	24", STOP BAR, THERMOPLASTIC, WHITE
(30)	1' AGGREGATE SHOULDER, 3" No. 73 LIMESTONE OVER 5" No. 53 CRUSHED/RECYCLED CONCRETE	(L1)	4", DOUBLE, THERMOPLASTIC, YELLOW (GROOVED)	(A)	ARROW, THERMOPLASTIC, WHITE
(45)	3" No. 73 LIMESTONE DRIVE	(L2)	4", SINGLE, THERMOPLASTIC, WHITE (GROOVED)	(M)	RELOCATE/ADJUST MAILBOX
(63)	ADJUST CASTING	(L3)	4", SKIP, THERMOPLASTIC, YELLOW (GROOVED)		

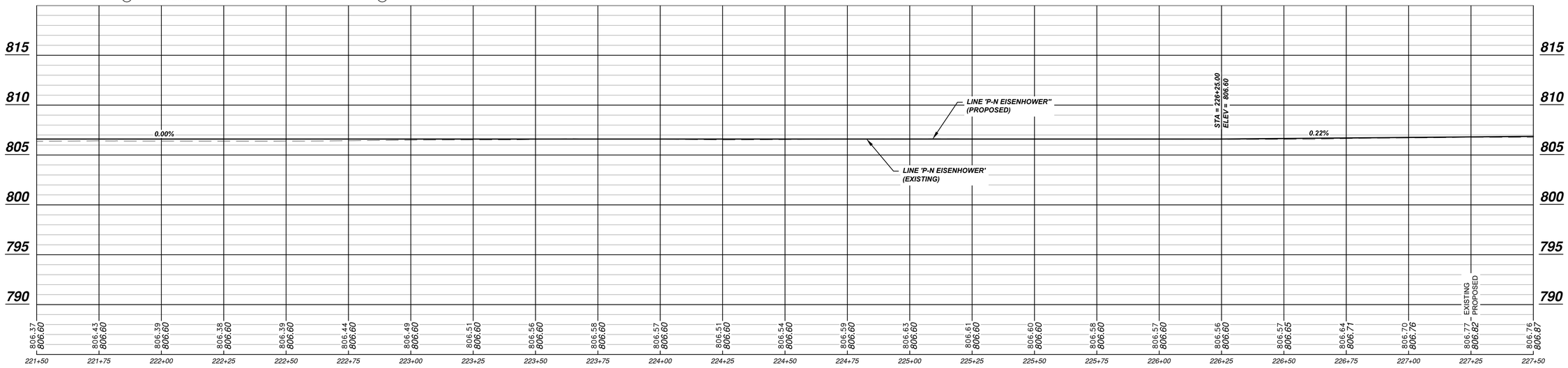
GENERAL NOTES:

1. SAW CUT EXISTING PAVEMENT EDGE PRIOR TO PLACING NEW PAVEMENT. DAMAGED EDGES MUST BE CORRECTED
2. ALL DRIVEWAYS MUST REMAIN OPEN TO BUSINESSES DURING PROJECT, MILLINGS OR AGGREGATE MAY BE PLACED ACROSS REMOVED LANE
3. AT THE END OF EACH WORK DAY, ALL PUBLIC UTILITIES MUST BE FULLY FUNCTIONAL. IF A UTILITY IS DAMAGED, IT MUST BE RESTORED THE SAME DAY
4. ADJUSTMENT OF WATER VALVE BOXES IS INCIDENTAL, RINGS MAY BE USED

BENCHMARK TBM "4"

"X" SET IN NORTHEAST HAT BOLT OF FIRE HYDRANT
ELEVATION 806.86 FEET NGVD88.

ELEV. = 806.86



PROFILE - N. EISENHOWER DR. - STA. 221+00 TO STA. 227+00

SCALE 1" = 20' H, 5' V

REV.	DESCRIPTION	BY	DATE
1	REVISED DINSER THICKNESS FROM 3" TO 2 1/2" ON P&P LEGEND	DKS	12/30/2020

JUSTIN K. SAILOR — REGISTERED — NO 10200087 — STATE OF INDIANA — PROFESSIONAL ENGINEER

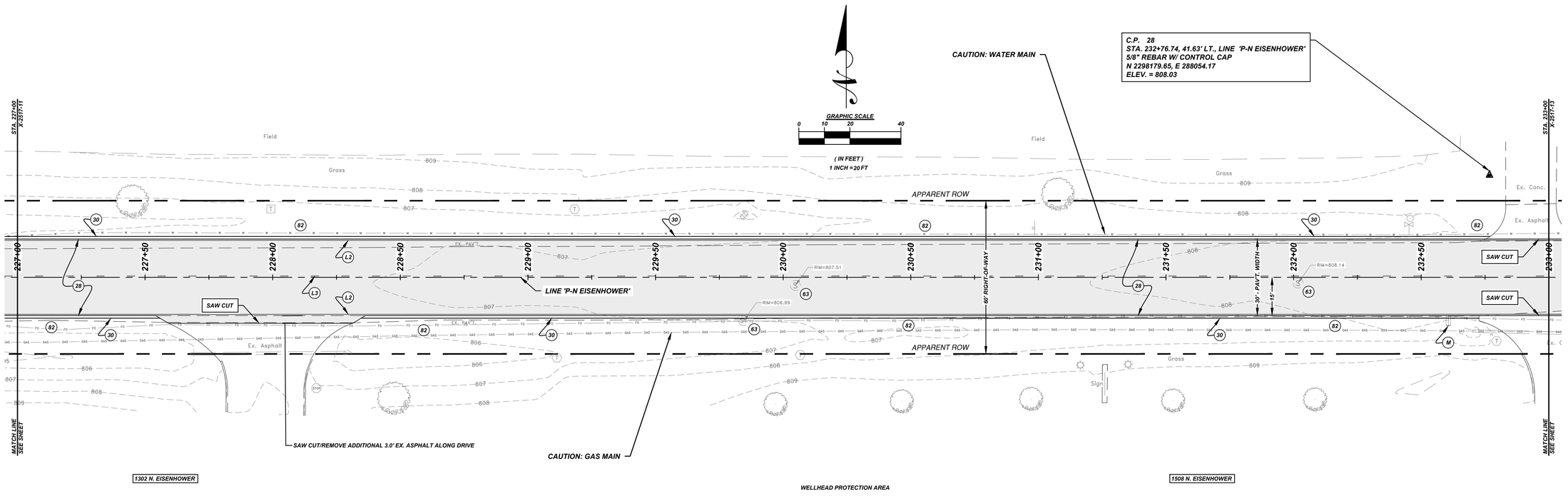
The City Of Goshen
Department of Public Works & Safety
Office of Engineering
204 East Jefferson Street, Goshen, Indiana 46528
Phone: 574-534-2201 Fax: 574-533-8626

Eisenhower Drive North & South Pavement Replacement

N. EISENHOWER ROAD PLAN & PROFILE
STA. 221+00 TO STA. 227+00

Project Number:	2020-0013
Designed By: J. Hoffman	Approved By: D. Sailor, P.E.
Drafted By: J. Hoffman	Date: 11/19/2020
Scale:	1" = 20' H, 5' V

X-2517-11



PLAN - N. EISENHOWER DR. - STA. 227+00 TO STA. 233+00

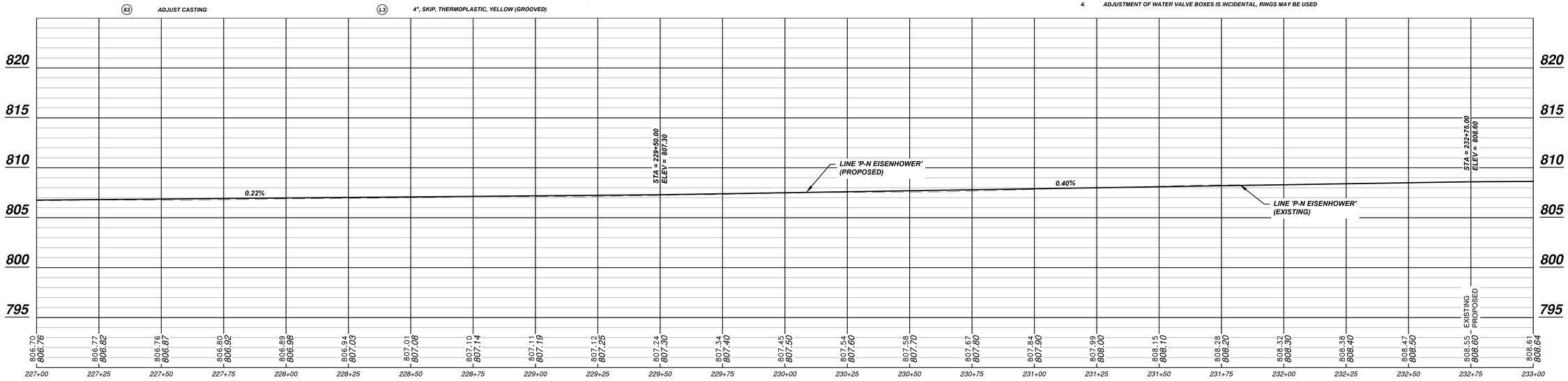
SCALE 1" = 20' H

LEGEND

(28)	PAVEMENT, FULL DEPTH, 1 1/2" HMA SURFACE OVER 2 1/2" HMA BINDER OVER 4" HMA BASE OVER 6" No. 53 CRUSHED CONCRETE	
(30)	1' AGGREGATE SHOULDER, 3" No. 73 LIMESTONE OVER 5" No. 53 CRUSHED/RECYCLED CONCRETE	
(45)	3" No. 73 LIMESTONE DRIVE	
(63)	ADJUST CASTING	
(82)	4" TOPSOIL. INDOT TYPE 'U' (NO CLOVER), STRAW WITH TACKIFIER	
(L1)	4", DOUBLE, THERMOPLASTIC, YELLOW (GROOVED)	
(L2)	4", SINGLE, THERMOPLASTIC, WHITE (GROOVED)	
(L3)	4", SKIP, THERMOPLASTIC, YELLOW (GROOVED)	
(S)	24", STOP BAR, THERMOPLASTIC, WHITE	
(A)	ARROW, THERMOPLASTIC, WHITE	
(M)	RELOCATE/ADJUST MAILBOX	

GENERAL NOTES:

1. SAW CUT EXISTING PAVEMENT EDGE PRIOR TO PLACING NEW PAVEMENT. DAMAGED EDGES MUST BE CORRECTED
2. ALL DRIVEWAYS MUST REMAIN OPEN TO BUSINESSES DURING PROJECT, MILLINGS OR AGGREGATE MAY BE PLACED ACROSS REMOVED LANE
3. AT THE END OF EACH WORK DAY, ALL PUBLIC UTILITIES MUST BE FULLY FUNCTIONAL. IF A UTILITY IS DAMAGED, IT MUST BE RESTORED THE SAME DAY
4. ADJUSTMENT OF WATER VALVE BOXES IS INCIDENTAL, RINGS MAY BE USED



PROFILE - N. EISENHOWER DR. - STA. 227+00 TO STA. 233+00

SCALE 1" = 20' H, 5' V

DATE	BY	DESCRIPTION	REV.
12/03/2020	DKS	REVISED BINDER THICKNESS FROM 3" TO 2 1/2" ON P&P LEGEND	1

The City Of Goshen
Department of Public Works & Safety
Office of Engineering
204 East Jefferson Street, Goshen, Indiana 46528
Phone: 574-534-2201 Fax: 574-533-8626

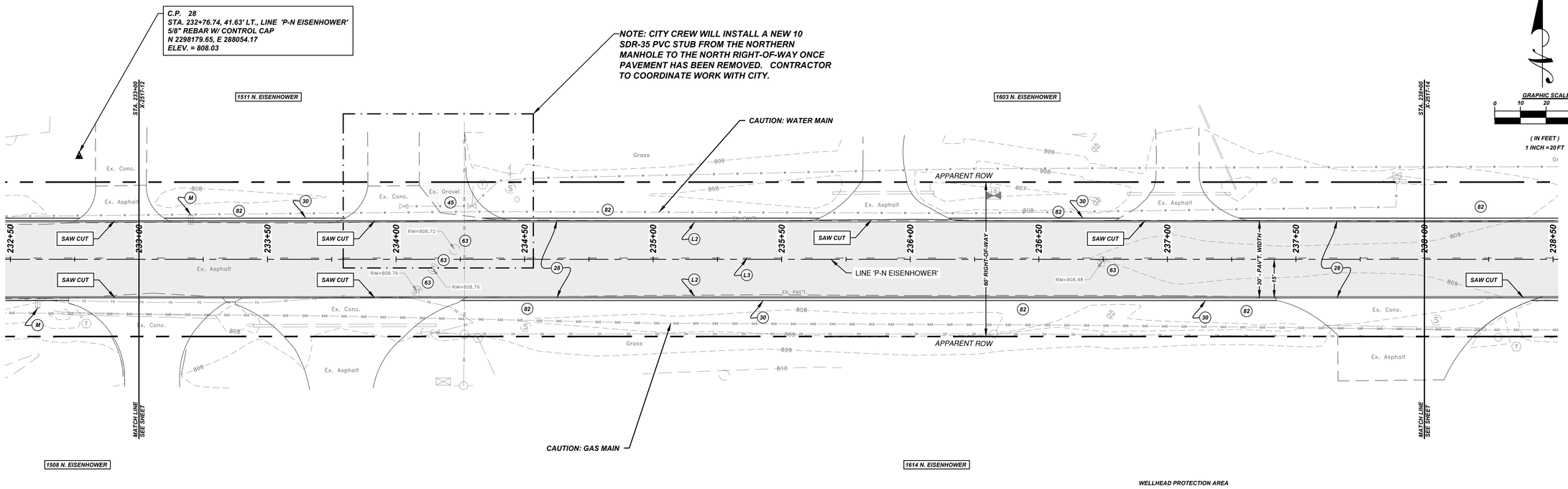
DUSTIN K. SAILOR — REGISTERED — NO. 10200087 — STATE OF INDIANA — PROFESSIONAL ENGINEER

Eisenhower Drive North & South Pavement Replacement

N. EISENHOWER ROAD PLAN & PROFILE
STA. 227+00 TO STA. 233+00

Project Number:	2020-0013
Designed By: J. Hoffman	Approved By: D. Sailor, P.E.
Drafted By: J. Hoffman	Date: 11/19/2020
Scale:	1" = 20' H, 5' V

X-2517-12



PLAN - N. EISENHOWER DR. - STA. 232+00 TO STA. 238+00

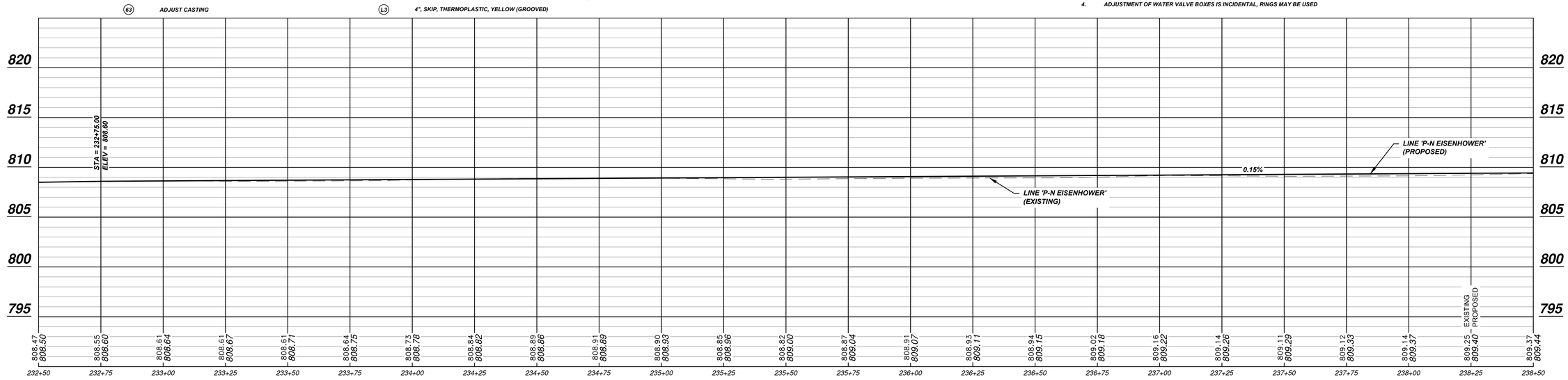
SCALE 1" = 20' H

LEGEND

⚠ 28	PAVEMENT, FULL DEPTH, 1 1/2" HMA SURFACE OVER 2 1/2" HMA BINDER OVER 4" HMA BASE OVER 6" No. 53 CRUSHED CONCRETE	82	4" TOPSOIL. INDOT TYPE 'U' (NO CLOVER), STRAW WITH TACKIFIER	S	24", STOP BAR, THERMOPLASTIC, WHITE
30	1' AGGREGATE SHOULDER, 3" No. 73 LIMESTONE OVER 5" No. 53 CRUSHED/RECYCLED CONCRETE	L1	4", DOUBLE, THERMOPLASTIC, YELLOW (GROOVED)	A	ARROW, THERMOPLASTIC, WHITE
45	3" No. 73 LIMESTONE DRIVE	L2	4", SINGLE, THERMOPLASTIC, WHITE (GROOVED)	M	RELOCATE/ADJUST MAILBOX
63	ADJUST CASTING	L3	4", SKIP, THERMOPLASTIC, YELLOW (GROOVED)		

GENERAL NOTES:

1. SAW CUT EXISTING PAVEMENT EDGE PRIOR TO PLACING NEW PAVEMENT. DAMAGED EDGES MUST BE CORRECTED
2. ALL DRIVEWAYS MUST REMAIN OPEN TO BUSINESSES DURING PROJECT, MILLINGS OR AGGREGATE MAY BE PLACED ACROSS REMOVED LANE
3. AT THE END OF EACH WORK DAY, ALL PUBLIC UTILITIES MUST BE FULLY FUNCTIONAL. IF A UTILITY IS DAMAGED, IT MUST BE RESTORED THE SAME DAY
4. ADJUSTMENT OF WATER VALVE BOXES IS INCIDENTAL, RINGS MAY BE USED



PROFILE - N. EISENHOWER DR. - STA. 232+00 TO STA. 238+00

SCALE 1" = 20' H, 5' V

REV.	DESCRIPTION	BY	DATE
1	REVISED DINSER THICKNESS FROM 3" TO 2 1/2" ON P&P LEGEND	DKS	12/03/2020

The City Of Goshen
Department of Public Works & Safety
Office of Engineering
204 East Jefferson Street, Goshen, Indiana 46528
Phone: 574-534-2201 Fax: 574-533-8626

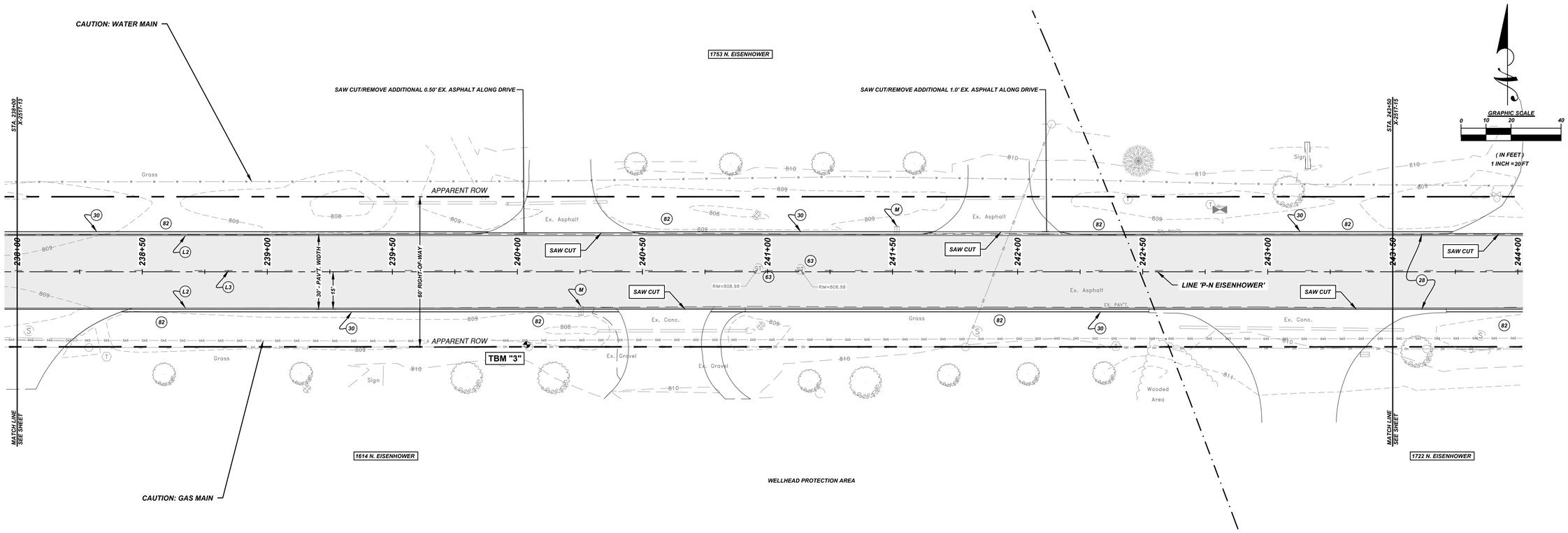
JUSTIN K. SAILOR — REGISTERED — NO 10220087 — STATE OF INDIANA — PROFESSIONAL ENGINEER

Eisenhower Drive North & South
Pavement Replacement

N. EISENHOWER ROAD PLAN & PROFILE
STA. 232+00 TO STA. 238+00

Project Number:	2020-0013
Designed By: J. Hoffman	Approved By: D. Sailor, P.E.
Drafted By: J. Hoffman	Date: 11/19/2020
Scale:	1" = 20' H, 5' V

X-2517-13



PLAN - N. EISENHOWER DR. - STA. 238+00 TO STA. 243+50

SCALE 1" = 20' H

LEGEND

⚠ (28) PAVEMENT, FULL DEPTH, 1 1/2" HMA SURFACE OVER 2 1/2" HMA BINDER OVER 4" HMA BASE OVER 6" No. 53 CRUSHED CONCRETE	(82) 4" TOPSOIL, INDOT TYPE 'U' (NO CLOVER), STRAW WITH TACKIFIER	(S) 24", STOP BAR, THERMOPLASTIC, WHITE
(30) 1' AGGREGATE SHOULDER, 3" No. 73 LIMESTONE OVER 5" No. 53 CRUSHED/RECYCLED CONCRETE	(L1) 4", DOUBLE, THERMOPLASTIC, YELLOW (GROOVED)	(A) ARROW, THERMOPLASTIC, WHITE
(45) 3" No. 73 LIMESTONE DRIVE	(L2) 4", SINGLE, THERMOPLASTIC, WHITE (GROOVED)	(M) RELOCATE/ADJUST MAILBOX
(63) ADJUST CASTING	(L3) 4", SKIP, THERMOPLASTIC, YELLOW (GROOVED)	

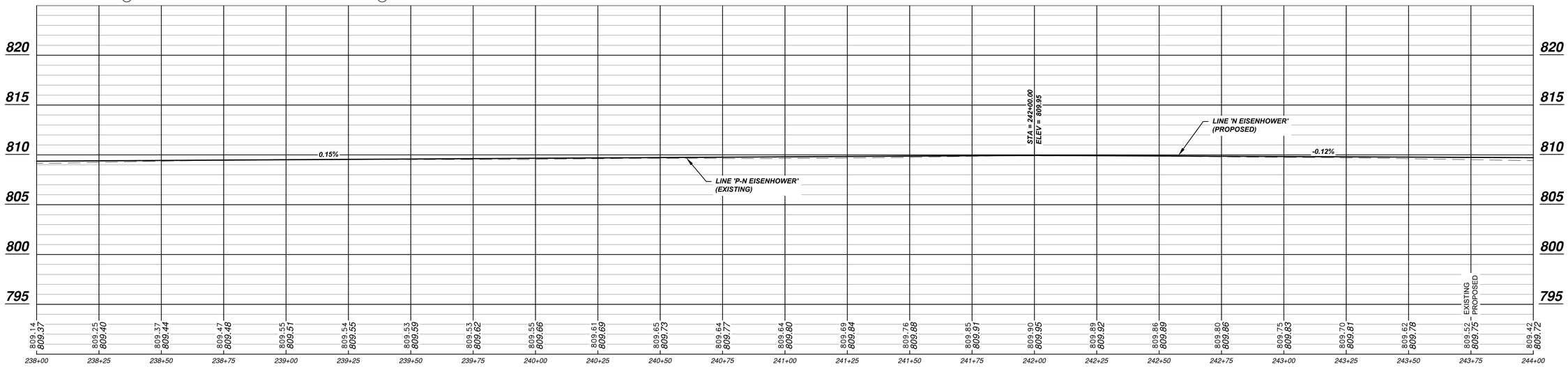
GENERAL NOTES:

1. SAW CUT EXISTING PAVEMENT EDGE PRIOR TO PLACING NEW PAVEMENT. DAMAGED EDGES MUST BE CORRECTED
2. ALL DRIVEWAYS MUST REMAIN OPEN TO BUSINESSES DURING PROJECT, MILLINGS OR AGGREGATE MAY BE PLACED ACROSS REMOVED LANE
3. AT THE END OF EACH WORK DAY, ALL PUBLIC UTILITIES MUST BE FULLY FUNCTIONAL. IF A UTILITY IS DAMAGED, IT MUST BE RESTORED THE SAME DAY
4. ADJUSTMENT OF WATER VALVE BOXES IS INCIDENTAL, RINGS MAY BE USED

BENCHMARK TBM "3"

BENCHTIE ON THE NORTH SIDE OF UTILITY POLE NO. 1068822
ELEVATION 810.46 FEET NGVD88.

ELEV. = 810.46



PROFILE - N. EISENHOWER DR. - STA. 238+00 TO STA. 243+50

SCALE 1" = 20' H, 5' V

DATE	BY	DESCRIPTION	REV.
12/03/2020	DKS	REVISED DINSER THICKNESS FROM 3" TO 2 1/2" ON P&P LEGEND	1

DUSTIN K. SAILOR — NO. 10200087 — STATE OF INDIANA — REGISTERED PROFESSIONAL ENGINEER

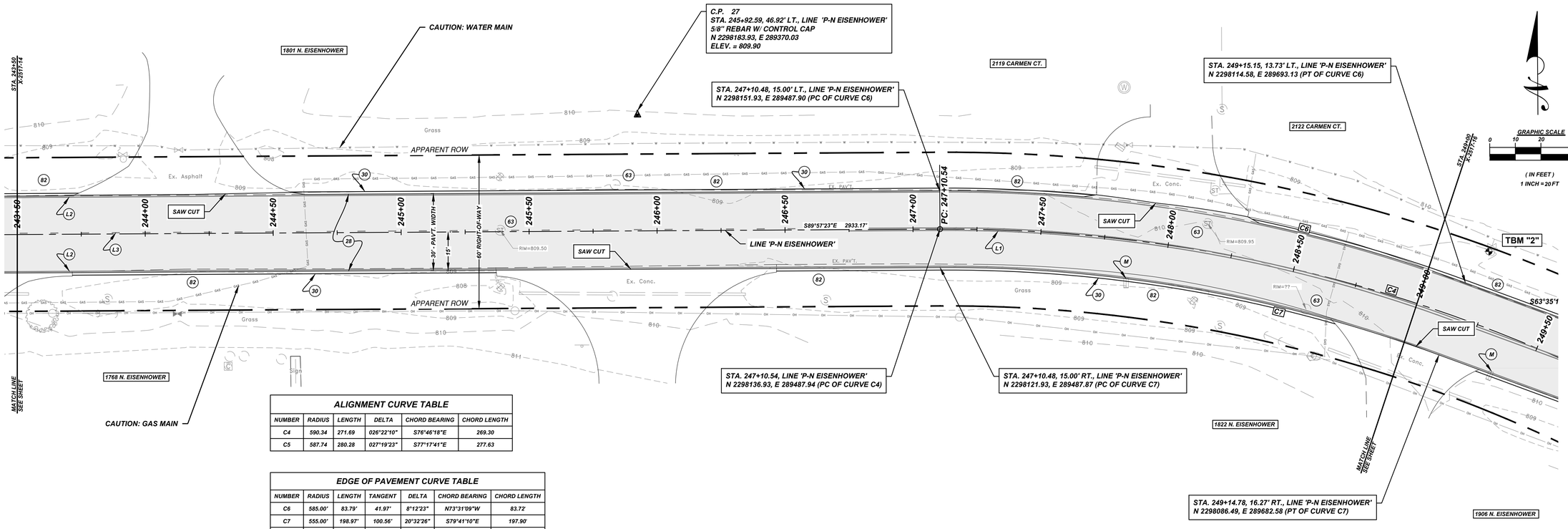
The City Of Goshen
Department of Public Works & Safety
Office of Engineering
204 East Jefferson Street, Goshen, Indiana 46528
Phone: 574-534-2201 Fax: 574-533-8626

Eisenhower Drive North & South Pavement Replacement

N. EISENHOWER ROAD PLAN & PROFILE
STA. 238+00 TO STA. 243+50

Project Number:	2020-0013
Designed By: J. Hoffman	Approved By: D. Sailor, P.E.
Drafted By: J. Hoffman	Date: 11/19/2020
Scale:	1" = 20' H, 5' V

X-2517-14



ALIGNMENT CURVE TABLE					
NUMBER	RADIUS	LENGTH	DELTA	CHORD BEARING	CHORD LENGTH
C4	590.34	271.69	026°22'10"	S76°46'18"E	269.30
C5	587.74	280.28	027°19'23"	S77°17'41"E	277.63

EDGE OF PAVEMENT CURVE TABLE						
NUMBER	RADIUS	LENGTH	TANGENT	DELTA	CHORD BEARING	CHORD LENGTH
C6	585.00'	83.79'	41.97'	8°12'23"	N73°31'09"W	83.72'
C7	555.00'	198.97'	100.56'	20°32'26"	S79°41'10"E	197.90'
C8	459.00'	89.97'	45.13'	11°13'53"	N75°01'54"W	89.83'
C9	433.00'	116.53'	58.62'	15°25'10"	S77°07'32"E	116.18'

PLAN - N. EISENHOWER DR. - STA. 243+50 TO STA. 249+00

SCALE 1" = 20' H

LEGEND

- (28) PAVEMENT, FULL DEPTH, 1 1/2" HMA SURFACE OVER 2 1/2" HMA BINDER OVER 4" HMA BASE OVER 6" No. 53 CRUSHED CONCRETE
- (30) 1' AGGREGATE SHOULDER, 3" No. 73 LIMESTONE OVER 5" No. 53 CRUSHED/RECYCLED CONCRETE
- (45) 3" No. 73 LIMESTONE DRIVE
- (63) ADJUST CASTING
- (82) 4" TOPSOIL. INDOT TYPE 'U' (NO CLOVER), STRAW WITH TACKIFIER
- (L1) 4", DOUBLE, THERMOPLASTIC, YELLOW (GROOVED)
- (L2) 4", SINGLE, THERMOPLASTIC, WHITE (GROOVED)
- (L3) 4", SKIP, THERMOPLASTIC, YELLOW (GROOVED)
- (S) 24", STOP BAR, THERMOPLASTIC, WHITE
- (A) ARROW, THERMOPLASTIC, WHITE
- (M) RELOCATE/ADJUST MAILBOX

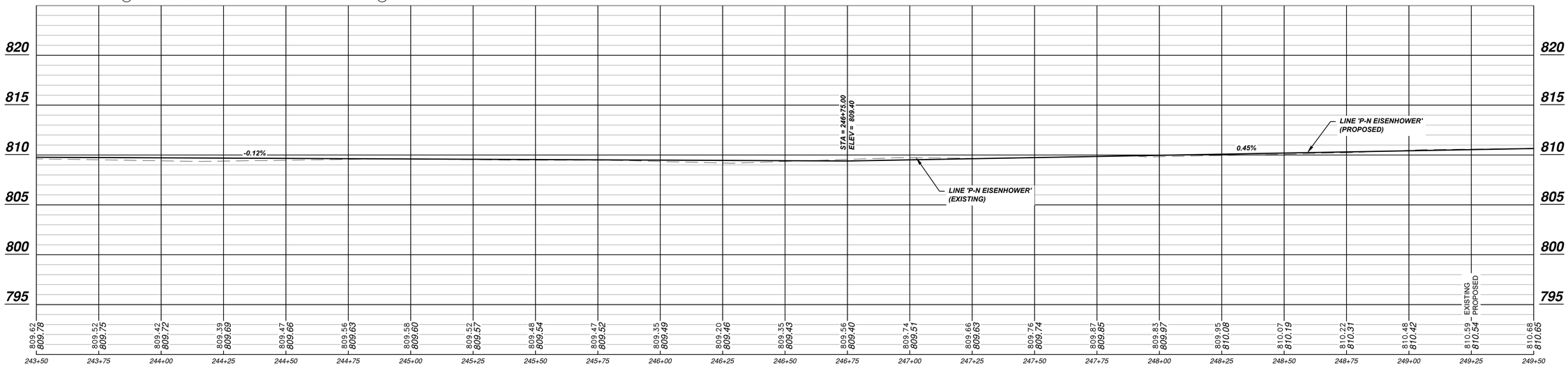
GENERAL NOTES:

1. SAW CUT EXISTING PAVEMENT EDGE PRIOR TO PLACING NEW PAVEMENT. DAMAGED EDGES MUST BE CORRECTED
2. ALL DRIVEWAYS MUST REMAIN OPEN TO BUSINESSES DURING PROJECT, MILLINGS OR AGGREGATE MAY BE PLACED ACROSS REMOVED LANE
3. AT THE END OF EACH WORK DAY, ALL PUBLIC UTILITIES MUST BE FULLY FUNCTIONAL. IF A UTILITY IS DAMAGED, IT MUST BE RESTORED THE SAME DAY
4. ADJUSTMENT OF WATER VALVE BOXES IS INCIDENTAL, RINGS MAY BE USED

BENCHMARK TBM "2"

"X" SET IN NORTHWEST HAT BOLD OF FIRE HYDRANT
ELEVATION 811.50 FEET NGVD88.

ELEV. = 811.50



PROFILE - N. EISENHOWER DR. - STA. 243+50 TO STA. 249+00

SCALE 1" = 20' H, 5' V

REV.	BY	DATE
	DKS	12/30/2020

REVISED DINSER THICKNESS FROM 3" TO 2 1/2" ON P&P LEGEND

DESCRIPTION

DUSTIN K. SAILOR — REGISTERED — NO. 10200087 — STATE OF INDIANA — PROFESSIONAL ENGINEER

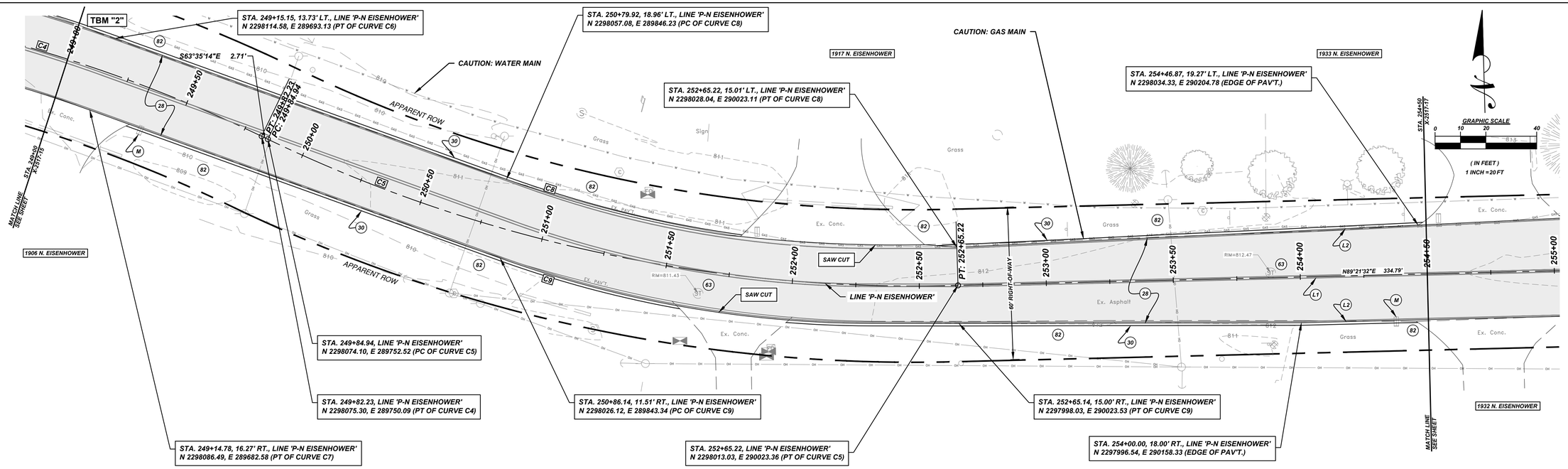
The City Of Goshen
Department of Public Works & Safety
Office of Engineering
204 East Jefferson Street, Goshen, Indiana 46528
Phone: 574-534-2201 Fax: 574-533-8626

Eisenhower Drive North & South Pavement Replacement

N. EISENHOWER ROAD PLAN & PROFILE
STA. 243+50 TO STA. 249+00

Project Number:	2020-0013
Designed By: J. Hoffman	Approved By: D. Sailor, P.E.
Drafted By: J. Hoffman	Date: 11/19/2020
Scale:	1" = 20' H, 5' V

X-2517-15



PLAN - N. EISENHOWER DR. - STA. 249+00 TO STA. 254+50

SCALE 1" = 20' H

LEGEND

⚠2 (28)	PAVEMENT, FULL DEPTH, 1 1/2" HMA SURFACE OVER 2 1/2" HMA BINDER OVER 4" HMA BASE OVER 6" No. 53 CRUSHED CONCRETE	(82)	4" TOPSOIL. INDOT TYPE 'U' (NO CLOVER), STRAW WITH TACKIFIER	(S)	24", STOP BAR, THERMOPLASTIC, WHITE
(30)	1' AGGREGATE SHOULDER, 3" No. 73 LIMESTONE OVER 5" No. 53 CRUSHED/RECYCLED CONCRETE	(L1)	4", DOUBLE, THERMOPLASTIC, YELLOW (GROOVED)	(A)	ARROW, THERMOPLASTIC, WHITE
(45)	3" No. 73 LIMESTONE DRIVE	(L2)	4", SINGLE, THERMOPLASTIC, WHITE (GROOVED)	(M)	RELOCATE/ADJUST MAILBOX
(63)	ADJUST CASTING	(L3)	4", SKIP, THERMOPLASTIC, YELLOW (GROOVED)		

GENERAL NOTES:

1. SAW CUT EXISTING PAVEMENT EDGE PRIOR TO PLACING NEW PAVEMENT. DAMAGED EDGES MUST BE CORRECTED
2. ALL DRIVEWAYS MUST REMAIN OPEN TO BUSINESSES DURING PROJECT, MILLINGS OR AGGREGATE MAY BE PLACED ACROSS REMOVED LANE
3. AT THE END OF EACH WORK DAY, ALL PUBLIC UTILITIES MUST BE FULLY FUNCTIONAL. IF A UTILITY IS DAMAGED, IT MUST BE RESTORED THE SAME DAY
4. ADJUSTMENT OF WATER VALVE BOXES IS INCIDENTAL, RINGS MAY BE USED

BENCHMARK TBM "2"

"X" SET IN NORTHWEST HAT BOLD OF FIRE HYDRANT
ELEVATION 811.50 FEET NGVD88.

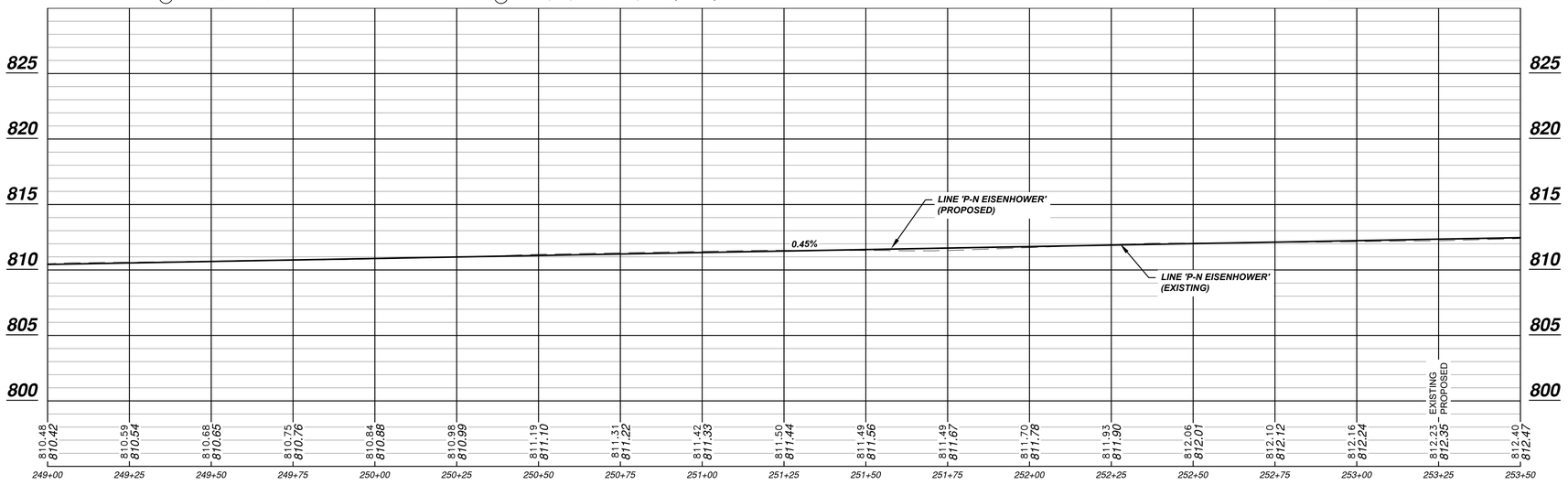
ELEV. = 811.50

ALIGNMENT CURVE TABLE

NUMBER	RADIUS	LENGTH	DELTA	CHORD BEARING	CHORD LENGTH
C4	590.34	271.69	026°22'10"	S76°46'18"E	269.30
C5	587.74	280.28	027°19'23"	S77°17'41"E	277.63

EDGE OF PAVEMENT CURVE TABLE

NUMBER	RADIUS	LENGTH	TANGENT	DELTA	CHORD BEARING	CHORD LENGTH
C6	585.00'	83.79'	41.97'	8°12'23"	N73°31'09"W	83.72'
C7	555.00'	198.97'	100.56'	20°32'26"	S79°41'10"E	197.90'
C8	459.00'	89.97'	45.13'	11°13'53"	N75°01'54"W	89.83'
C9	433.00'	116.53'	58.62'	15°25'10"	S77°07'32"E	116.18'



PROFILE - N. EISENHOWER DR. - STA. 249+00 TO STA. 254+50

SCALE 1" = 20' H, 5' V

NO.	DESCRIPTION	DATE	BY
1	REVISED DINSER THICKNESS FROM 3" TO 2 1/2" ON P&P LEGEND	12/03/2020	DKS

DUSTIN K. SAILOR — NO. 10200087 — STATE OF INDIANA — REGISTERED PROFESSIONAL ENGINEER

The City Of Goshen
Department of Public Works & Safety
Office of Engineering
204 East Jefferson Street, Goshen, Indiana 46528
Phone: 574-534-2201 Fax: 574-533-8626

Eisenhower Drive North & South Pavement Replacement

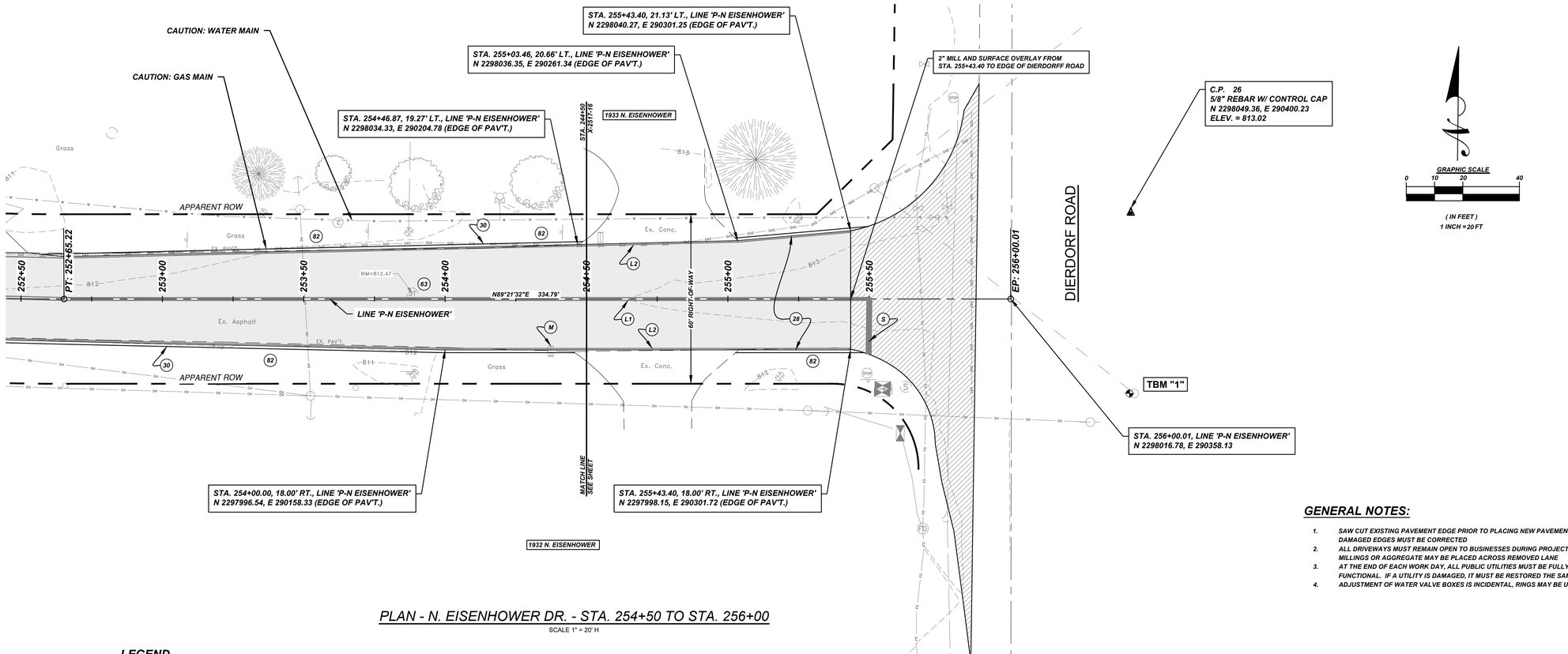
N. EISENHOWER ROAD PLAN & PROFILE
STA. 249+00 TO STA. 254+50

Project Number: 2020-0013

Designed By:	Approved By:
J. Hoffman	D. Sailor, P.E.
Drafted By:	Date:
J. Hoffman	11/19/2020

Scale: 1" = 20' H, 5' V

X-2517-16



PLAN - N. EISENHOWER DR. - STA. 254+50 TO STA. 256+00

SCALE 1" = 20' H

GENERAL NOTES:

1. SAW CUT EXISTING PAVEMENT EDGE PRIOR TO PLACING NEW PAVEMENT. DAMAGED EDGES MUST BE CORRECTED
2. ALL DRIVEWAYS MUST REMAIN OPEN TO BUSINESSES DURING PROJECT, MILLINGS OR AGGREGATE MAY BE PLACED ACROSS REMOVED LANE
3. AT THE END OF EACH WORK DAY, ALL PUBLIC UTILITIES MUST BE FULLY FUNCTIONAL. IF A UTILITY IS DAMAGED, IT MUST BE RESTORED THE SAME DAY
4. ADJUSTMENT OF WATER VALVE BOXES IS INCIDENTAL, RINGS MAY BE USED

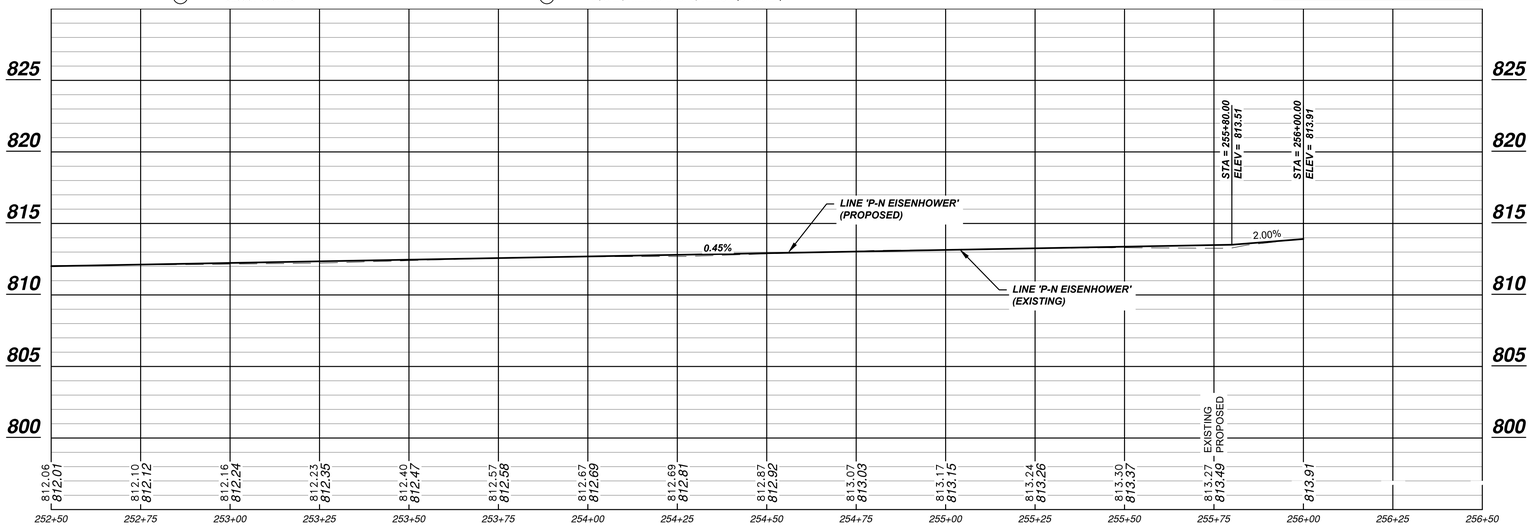
LEGEND

(28)	PAVEMENT, FULL DEPTH, 1 1/2" HMA SURFACE OVER 2 1/2" HMA BINDER OVER 4" HMA BASE OVER 6" No. 53 CRUSHED CONCRETE	(82)	4" TOPSOIL. INDOT TYPE 'U' (NO CLOVER), STRAW WITH TACKIFIER	(S)	24", STOP BAR, THERMOPLASTIC, WHITE
(30)	1' AGGREGATE SHOULDER, 3" No. 73 LIMESTONE OVER 5" No. 53 CRUSHED/RECYCLED CONCRETE	(L1)	4", DOUBLE, THERMOPLASTIC, YELLOW (GROOVED)	(A)	ARROW, THERMOPLASTIC, WHITE
(45)	3" No. 73 LIMESTONE DRIVE	(L2)	4", SINGLE, THERMOPLASTIC, WHITE (GROOVED)	(M)	RELOCATE/ADJUST MAILBOX
(63)	ADJUST CASTING	(L3)	4", SKIP, THERMOPLASTIC, YELLOW (GROOVED)		

BENCHMARK TBM "1"

"X" SET ON WEST BOLT ON TRAFFIC STRAIN POLE
ELEVATION 814.26 FEET NGVD88.

ELEV. = 814.26



PROFILE - N. EISENHOWER DR. - STA. 254+50 TO STA. 256+50

SCALE 1" = 20' H, 5' V

DATE	BY	DESCRIPTION	REV.
12/03/2020	DKS	REVISED DINSER THICKNESS FROM 3" TO 2 1/2" ON P&P LEGEND	1

JUSTIN K. SAILOR — REGISTERED — NO. 10200087 — STATE OF INDIANA — PROFESSIONAL ENGINEER

The City Of Goshen
Department of Public Works & Safety
Office of Engineering
204 East Jefferson Street, Goshen, Indiana 46528
Phone: 574-534-2201 Fax: 574-533-8626

Eisenhower Drive North & South Pavement Replacement

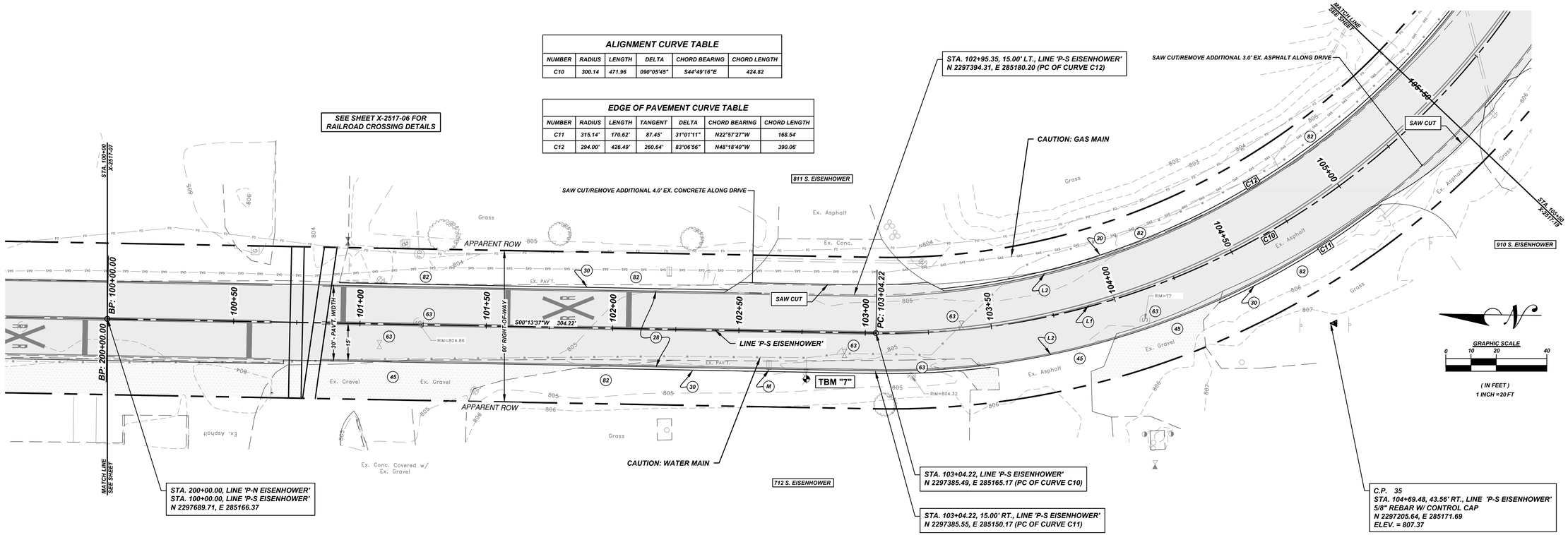
N. EISENHOWER ROAD PLAN & PROFILE
STA. 254+50 TO STA. 256+00

Project Number:	2020-0013
Designed By: J. Hoffman	Approved By: D. Sailor, P.E.
Drafted By: J. Hoffman	Date: 11/19/2020
Scale:	1" = 20' H, 5' V

X-2517-17

ALIGNMENT CURVE TABLE					
NUMBER	RADIUS	LENGTH	DELTA	CHORD BEARING	CHORD LENGTH
C10	300.14	471.96	090°05'45"	S44°49'16"E	424.82

EDGE OF PAVEMENT CURVE TABLE						
NUMBER	RADIUS	LENGTH	TANGENT	DELTA	CHORD BEARING	CHORD LENGTH
C11	315.14'	170.62'	87.45'	31°01'11"	N22°57'27"W	168.54'
C12	294.00'	426.49'	260.64'	83°06'56"	N48°18'40"W	390.06'



PLAN - S. EISENHOWER DR. - STA. 100+00 TO STA. 105+50

SCALE 1" = 20' H

LEGEND

2 (28)	PAVEMENT, FULL DEPTH, 1 1/2" HMA SURFACE OVER 2 1/2" HMA BINDER OVER 4" HMA BASE OVER 6" No. 53 CRUSHED CONCRETE	(82)	4" TOPSOIL. INDOT TYPE 'U' (NO CLOVER), STRAW WITH TACKIFIER	(S)	24", STOP BAR, THERMOPLASTIC, WHITE
(30)	1' AGGREGATE SHOULDER, 3" No. 73 LIMESTONE OVER 5" No. 53 CRUSHED/RECYCLED CONCRETE	(L1)	4", DOUBLE, THERMOPLASTIC, YELLOW (GROOVED)	(A)	ARROW, THERMOPLASTIC, WHITE
(45)	3" No. 73 LIMESTONE DRIVE	(L2)	4", SINGLE, THERMOPLASTIC, WHITE (GROOVED)	(M)	RELOCATE/ADJUST MAILBOX
(63)	ADJUST CASTING	(L3)	4", SKIP, THERMOPLASTIC, YELLOW (GROOVED)		

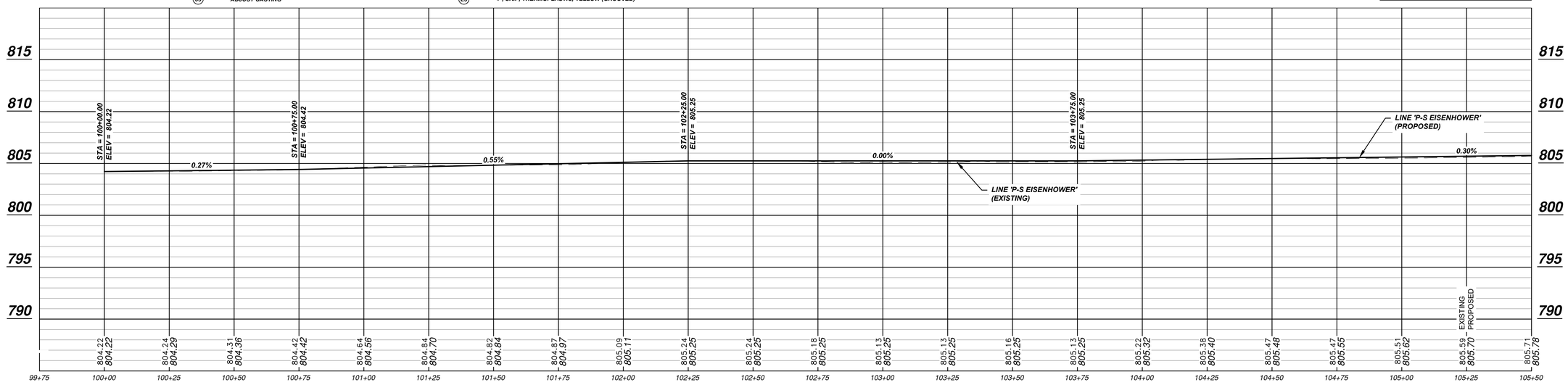
GENERAL NOTES:

1. SAW CUT EXISTING PAVEMENT EDGE PRIOR TO PLACING NEW PAVEMENT. DAMAGED EDGES MUST BE CORRECTED
2. ALL DRIVEWAYS MUST REMAIN OPEN TO BUSINESSES DURING PROJECT, MILLINGS OR AGGREGATE MAY BE PLACED ACROSS REMOVED LANE
3. AT THE END OF EACH WORK DAY, ALL PUBLIC UTILITIES MUST BE FULLY FUNCTIONAL. IF A UTILITY IS DAMAGED, IT MUST BE RESTORED THE SAME DAY
4. ADJUSTMENT OF WATER VALVE BOXES IS INCIDENTAL, RINGS MAY BE USED

BENCHMARK TBM "7"

'X' SET ON NORTH HAT BOLT OF FIRE HYDRANT
ELEVATION 807.25 FEET NGVD88.

ELEV. = 807.25



PROFILE - S. EISENHOWER DR. - STA. 100+00 TO STA. 105+50

SCALE 1" = 20' H, 5' V

REV.	DESCRIPTION	BY	DATE
1	REVISED DINSER THICKNESS FROM 3" TO 2 1/2" ON P&P LEGEND	DKS	12/03/2020

The City Of Goshen
Department of Public Works & Safety
Office of Engineering
204 East Jefferson Street, Goshen, Indiana 46528
Phone: 574-534-2201 Fax: 574-533-8626

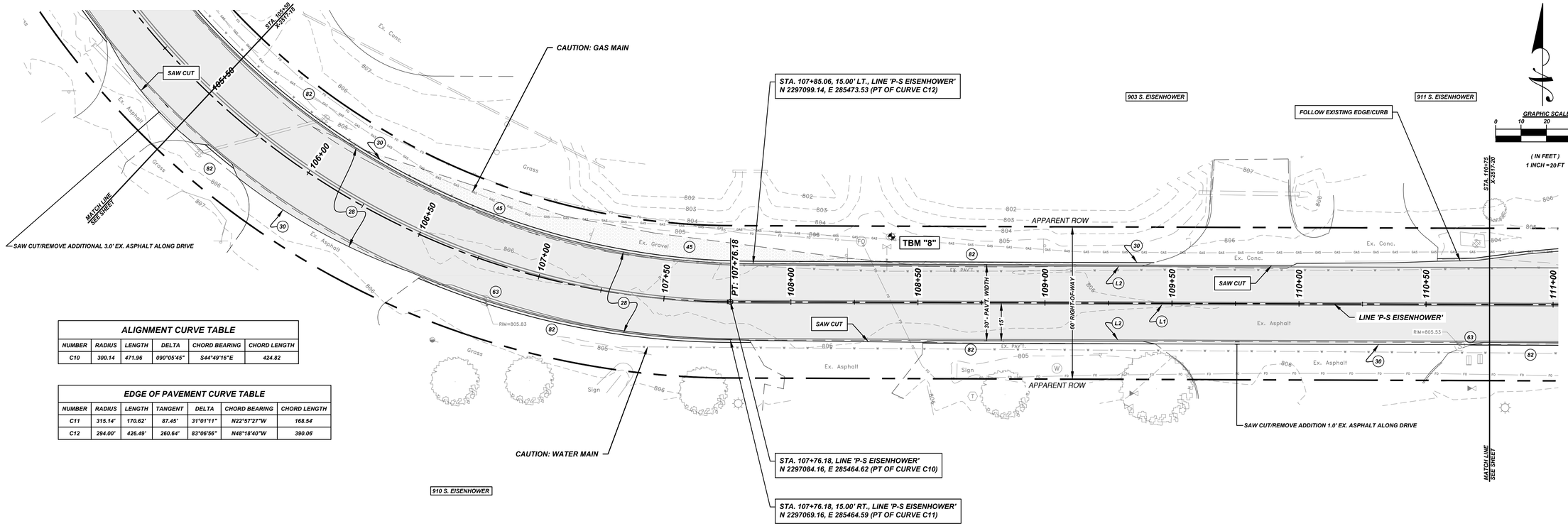
JUSTIN K. SAILOR * REGISTERED * NO. 10200087 * STATE OF INDIANA * PROFESSIONAL ENGINEER *

Eisenhower Drive North & South Pavement Replacement

S. EISENHOWER ROAD PLAN & PROFILE
STA. 100+00 TO STA. 105+50

Project Number:	2020-0013
Designed By: J. Hoffman	Approved By: D. Sailor, P.E.
Drafted By: J. Hoffman	Date: 11/19/2020
Scale:	1" = 20' H, 5' V

X-2517-18



PLAN - S. EISENHOWER DR. - STA. 105+50 TO STA. 110+75

SCALE 1" = 20' H

ALIGNMENT CURVE TABLE					
NUMBER	RADIUS	LENGTH	DELTA	CHORD BEARING	CHORD LENGTH
C10	300.14	471.96	090°05'45"	S44°49'16"E	424.82

EDGE OF PAVEMENT CURVE TABLE						
NUMBER	RADIUS	LENGTH	TANGENT	DELTA	CHORD BEARING	CHORD LENGTH
C11	315.14'	170.62'	87.45'	31°01'11"	N22°57'27"W	168.54'
C12	294.00'	426.49'	260.64'	83°06'56"	N48°18'40"W	390.06'

LEGEND

(28)	PAVEMENT, FULL DEPTH, 1 1/2" HMA SURFACE OVER 2 1/2" HMA BINDER OVER 4" HMA BASE OVER 6" No. 53 CRUSHED CONCRETE	(82)	4" TOPSOIL. INDOT TYPE 'U' (NO CLOVER), STRAW WITH TACKIFIER	(S)	24", STOP BAR, THERMOPLASTIC, WHITE
(30)	1' AGGREGATE SHOULDER, 3" No. 73 LIMESTONE OVER 5" No. 53 CRUSHED/RECYCLED CONCRETE	(L1)	4", DOUBLE, THERMOPLASTIC, YELLOW (GROOVED)	(A)	ARROW, THERMOPLASTIC, WHITE
(45)	3" No. 73 LIMESTONE DRIVE	(L2)	4", SINGLE, THERMOPLASTIC, WHITE (GROOVED)	(M)	RELOCATE/ADJUST MAILBOX
(63)	ADJUST CASTING	(L3)	4", SKIP, THERMOPLASTIC, YELLOW (GROOVED)		

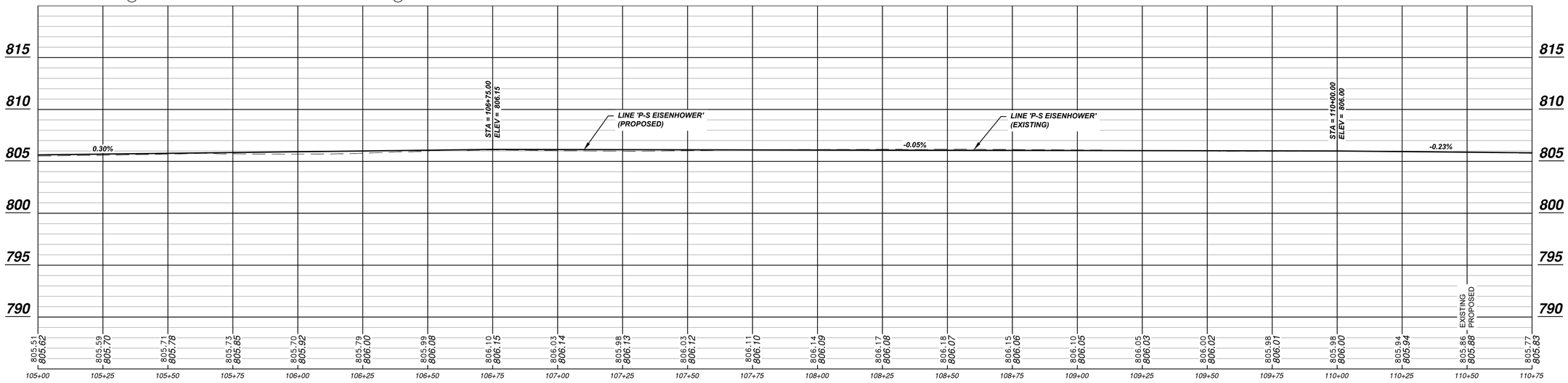
GENERAL NOTES:

1. SAW CUT EXISTING PAVEMENT EDGE PRIOR TO PLACING NEW PAVEMENT. DAMAGED EDGES MUST BE CORRECTED
2. ALL DRIVEWAYS MUST REMAIN OPEN TO BUSINESSES DURING PROJECT, MILLINGS OR AGGREGATE MAY BE PLACED ACROSS REMOVED LANE
3. AT THE END OF EACH WORK DAY, ALL PUBLIC UTILITIES MUST BE FULLY FUNCTIONAL. IF A UTILITY IS DAMAGED, IT MUST BE RESTORED THE SAME DAY
4. ADJUSTMENT OF WATER VALVE BOXES IS INCIDENTAL, RINGS MAY BE USED

BENCHMARK TBM "8"

"X" SET IN NORTHEAST HAT BOLT OF FIRE HYDRANT
ELEVATION 808.11 FEET NGVD88.

ELEV. = 808.11



PROFILE - S. EISENHOWER DR. - STA. 105+50 TO STA. 110+75

SCALE 1" = 20' H, 5' V

REV.	DESCRIPTION	BY	DATE
	REVISED DINSER THICKNESS FROM 3" TO 2 1/2" ON P&P LEGEND	DKS	12/03/2020

JUSTIN K. SAILOR — NO. 10200087 — STATE OF INDIANA — REGISTERED PROFESSIONAL ENGINEER

The City Of Goshen
Department of Public Works & Safety
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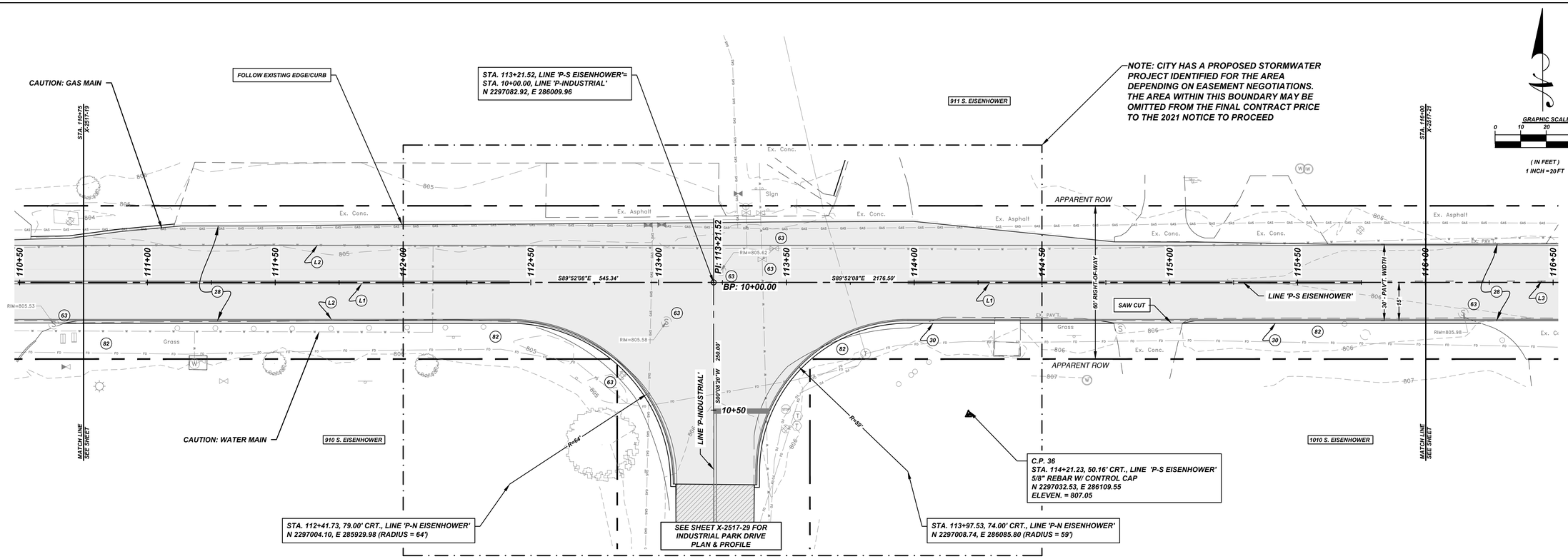
Phone: 574-534-2201 Fax: 574-533-8626

Eisenhower Drive North & South Pavement Replacement

S. EISENHOWER ROAD PLAN & PROFILE
STA. 105+50 TO STA. 110+75

Project Number:	2020-0013
Designed By: J. Hoffman	Approved By: D. Sailor, P.E.
Drafted By: J. Hoffman	Date: 11/19/2020
Scale:	1" = 20' H, 5' V

X-2517-19



PLAN - S. EISENHOWER DR. - STA. 110+75 TO STA. 116+00

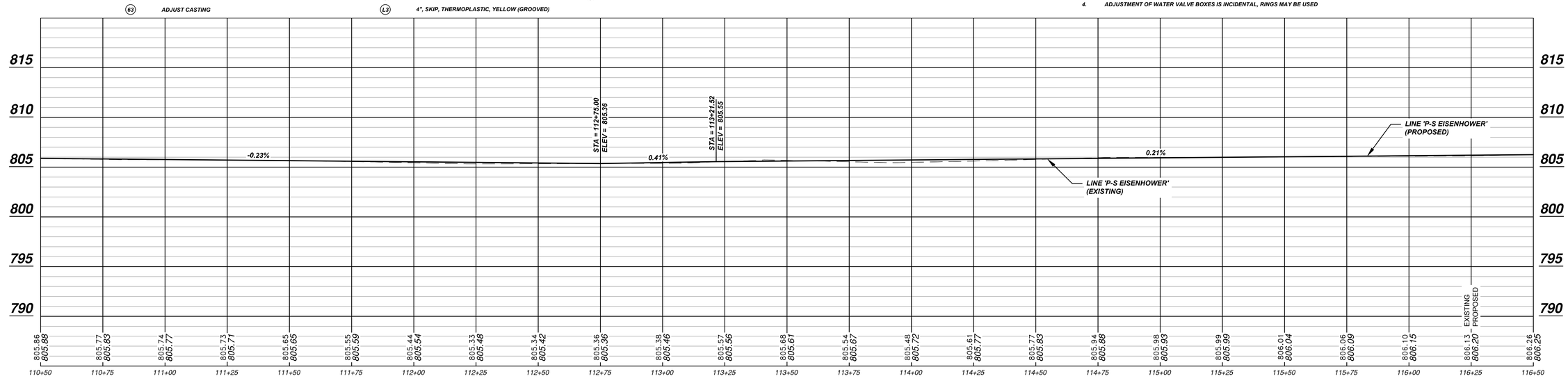
SCALE 1" = 20' H

LEGEND

(28)	PAVEMENT, FULL DEPTH, 1 1/2" HMA SURFACE OVER 2 1/2" HMA BINDER OVER 4" HMA BASE OVER 6" No. 53 CRUSHED CONCRETE	
(30)	1' AGGREGATE SHOULDER, 3" No. 73 LIMESTONE OVER 5" No. 53 CRUSHED/RECYCLED CONCRETE	
(45)	3" No. 73 LIMESTONE DRIVE	
(63)	ADJUST CASTING	
(82)	4" TOPSOIL, INDOT TYPE 'U' (NO CLOVER), STRAW WITH TACKIFIER	
(L1)	4", DOUBLE, THERMOPLASTIC, YELLOW (GROOVED)	
(L2)	4", SINGLE, THERMOPLASTIC, WHITE (GROOVED)	
(L3)	4", SKIP, THERMOPLASTIC, YELLOW (GROOVED)	
(S)	24", STOP BAR, THERMOPLASTIC, WHITE	
(A)	ARROW, THERMOPLASTIC, WHITE	
(M)	RELOCATE/ADJUST MAILBOX	

GENERAL NOTES:

1. SAW CUT EXISTING PAVEMENT EDGE PRIOR TO PLACING NEW PAVEMENT. DAMAGED EDGES MUST BE CORRECTED
2. ALL DRIVEWAYS MUST REMAIN OPEN TO BUSINESSES DURING PROJECT, MILLINGS OR AGGREGATE MAY BE PLACED ACROSS REMOVED LANE
3. AT THE END OF EACH WORK DAY, ALL PUBLIC UTILITIES MUST BE FULLY FUNCTIONAL. IF A UTILITY IS DAMAGED, IT MUST BE RESTORED THE SAME DAY
4. ADJUSTMENT OF WATER VALVE BOXES IS INCIDENTAL, RINGS MAY BE USED



PROFILE - S. EISENHOWER DR. - STA. 110+75 TO STA. 116+00

SCALE 1" = 20' H, 5' V

NO.	DESCRIPTION	BY	DATE
1	REVISED BINDER THICKNESS FROM 3" TO 2 1/2" ON P&P LEGEND	DKS	12/03/2020

The City Of Goshen
Department of Public Works & Safety
Office of Engineering
204 East Jefferson Street, Goshen, Indiana 46528
Phone: 574-534-2201 Fax: 574-533-8626

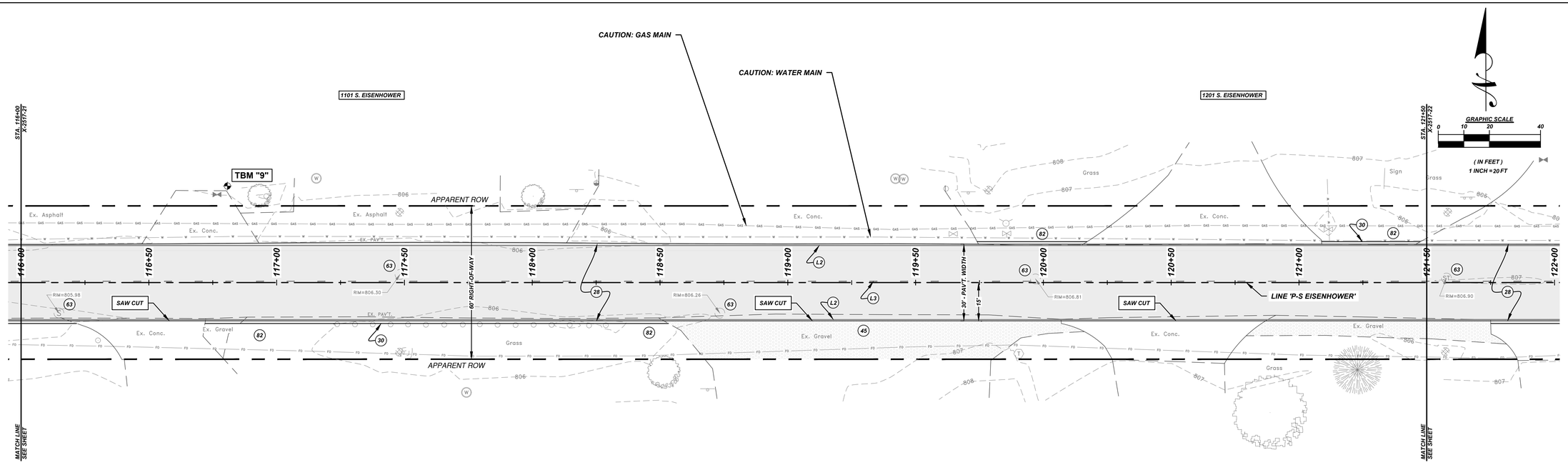
JUSTIN K. SAILOR — REGISTERED — NO 10200087 — STATE OF INDIANA — PROFESSIONAL ENGINEER

Eisenhower Drive North & South Pavement Replacement

S. EISENHOWER ROAD PLAN & PROFILE
STA. 110+75 TO STA. 116+00

Project Number:	2020-0013
Designed By: J. Hoffman	Approved By: D. Sailor, P.E.
Drafted By: J. Hoffman	Date: 11/19/2020
Scale:	1" = 20' H, 5' V

X-2517-20



PLAN - S. EISENHOWER DR. - STA. 116+00 TO STA. 121+50

SCALE 1" = 20' H

LEGEND

⚠ 28	PAVEMENT, FULL DEPTH, 1 1/2" HMA SURFACE OVER 2 1/2" HMA BINDER OVER 4" HMA BASE OVER 6" No. 53 CRUSHED CONCRETE	82	4" TOPSOIL, INDOT TYPE 'U' (NO CLOVER), STRAW WITH TACKIFIER	S	24", STOP BAR, THERMOPLASTIC, WHITE
30	1' AGGREGATE SHOULDER, 3" No. 73 LIMESTONE OVER 5" No. 53 CRUSHED/RECYCLED CONCRETE	L1	4", DOUBLE, THERMOPLASTIC, YELLOW (GROOVED)	A	ARROW, THERMOPLASTIC, WHITE
45	3" No. 73 LIMESTONE DRIVE	L2	4", SINGLE, THERMOPLASTIC, WHITE (GROOVED)	M	RELOCATE/ADJUST MAILBOX
63	ADJUST CASTING	L3	4", SKIP, THERMOPLASTIC, YELLOW (GROOVED)		

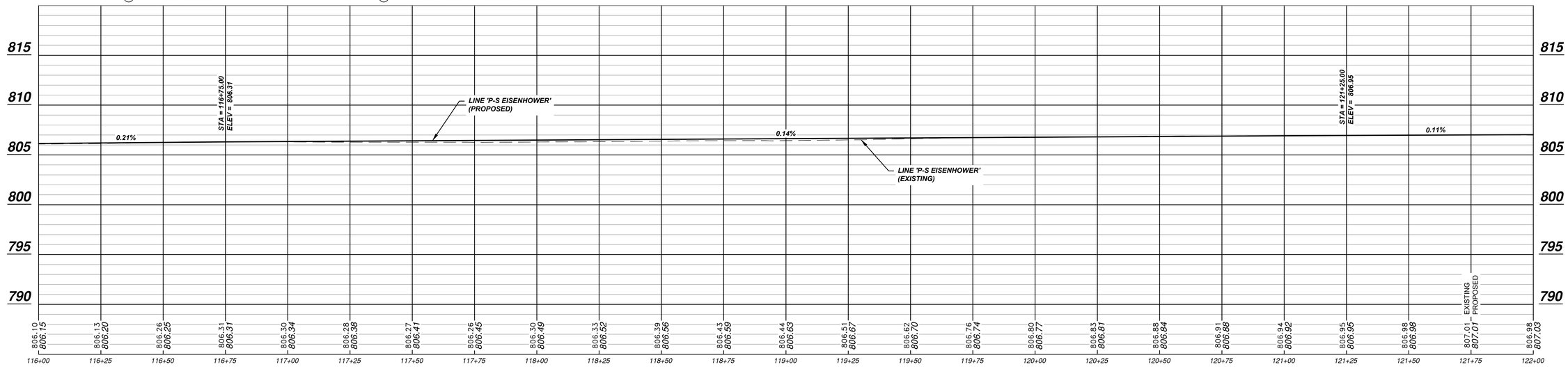
GENERAL NOTES:

1. SAW CUT EXISTING PAVEMENT EDGE PRIOR TO PLACING NEW PAVEMENT. DAMAGED EDGES MUST BE CORRECTED
2. ALL DRIVEWAYS MUST REMAIN OPEN TO BUSINESSES DURING PROJECT, MILLINGS OR AGGREGATE MAY BE PLACED ACROSS REMOVED LANE
3. AT THE END OF EACH WORK DAY, ALL PUBLIC UTILITIES MUST BE FULLY FUNCTIONAL. IF A UTILITY IS DAMAGED, IT MUST BE RESTORED THE SAME DAY
4. ADJUSTMENT OF WATER VALVE BOXES IS INCIDENTAL, RINGS MAY BE USED

BENCHMARK TBM "9"

SQUARE CUT ON TOP OF CURB
ELEVATION 807.64 FEET NGVD88.

ELEV. = 807.64



PROFILE - S. EISENHOWER DR. - STA. 116+00 TO STA. 121+50

SCALE 1" = 20' H, 5' V

REV.	BY	DESCRIPTION	DATE
1	DKS	REVISED DINSER THICKNESS FROM 3" TO 2 1/2" ON P&P LEGEND	12/03/2020

JUSTIN K. SAILOR — NO. 10220087 — STATE OF INDIANA — REGISTERED PROFESSIONAL ENGINEER

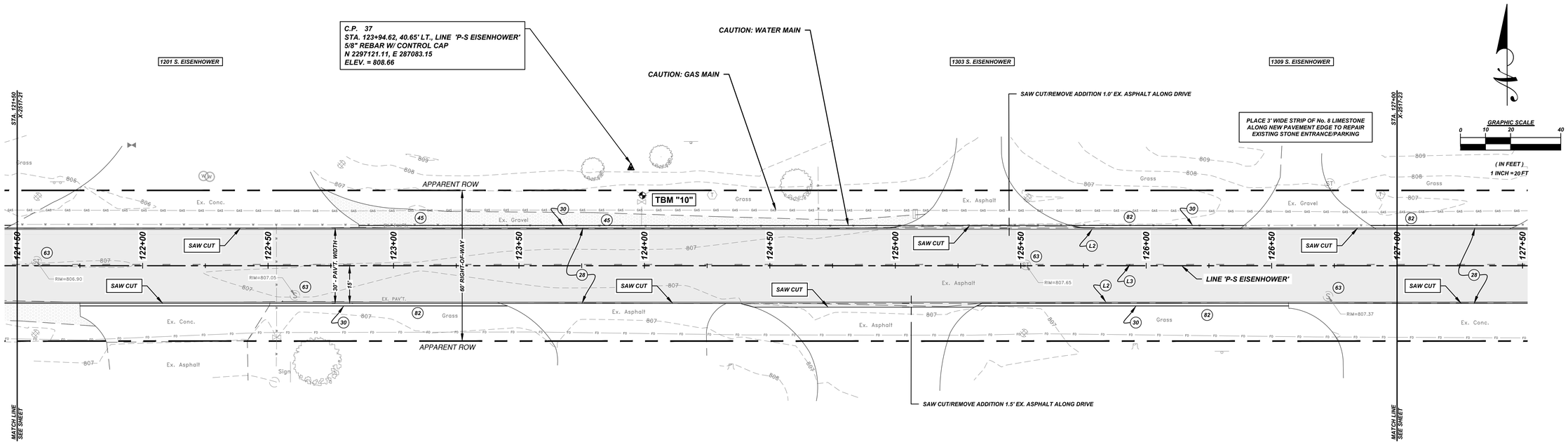
The City Of Goshen
Department of Public Works & Safety
Office of Engineering
204 East Jefferson Street, Goshen, Indiana 46528
Phone: 574-534-2201 Fax: 574-533-8626

Eisenhower Drive North & South Pavement Replacement

S. EISENHOWER ROAD PLAN & PROFILE
STA. 116+00 TO STA. 121+50

Project Number:	2020-0013
Designed By: J. Hoffman	Approved By: D. Sailor, P.E.
Drafted By: J. Hoffman	Date: 11/19/2020
Scale:	1" = 20' H, 5' V

X-2517-21



PLAN - S. EISENHOWER DR. - STA. 121+50 TO STA. 127+00

SCALE 1" = 20' H

LEGEND

⚠ (28)	PAVEMENT, FULL DEPTH, 1 1/2" HMA SURFACE OVER 2 1/2" HMA BINDER OVER 4" HMA BASE OVER 6" No. 53 CRUSHED CONCRETE	(82)	4" TOPSOIL, INDOT TYPE 'U' (NO CLOVER), STRAW WITH TACKIFIER	(S)	24", STOP BAR, THERMOPLASTIC, WHITE
(30)	1' AGGREGATE SHOULDER, 3" No. 73 LIMESTONE OVER 5" No. 53 CRUSHED/RECYCLED CONCRETE	(L1)	4", DOUBLE, THERMOPLASTIC, YELLOW (GROOVED)	(A)	ARROW, THERMOPLASTIC, WHITE
(45)	3" No. 73 LIMESTONE DRIVE	(L2)	4", SINGLE, THERMOPLASTIC, WHITE (GROOVED)	(M)	RELOCATE/ADJUST MAILBOX
(63)	ADJUST CASTING	(L3)	4", SKIP, THERMOPLASTIC, YELLOW (GROOVED)		

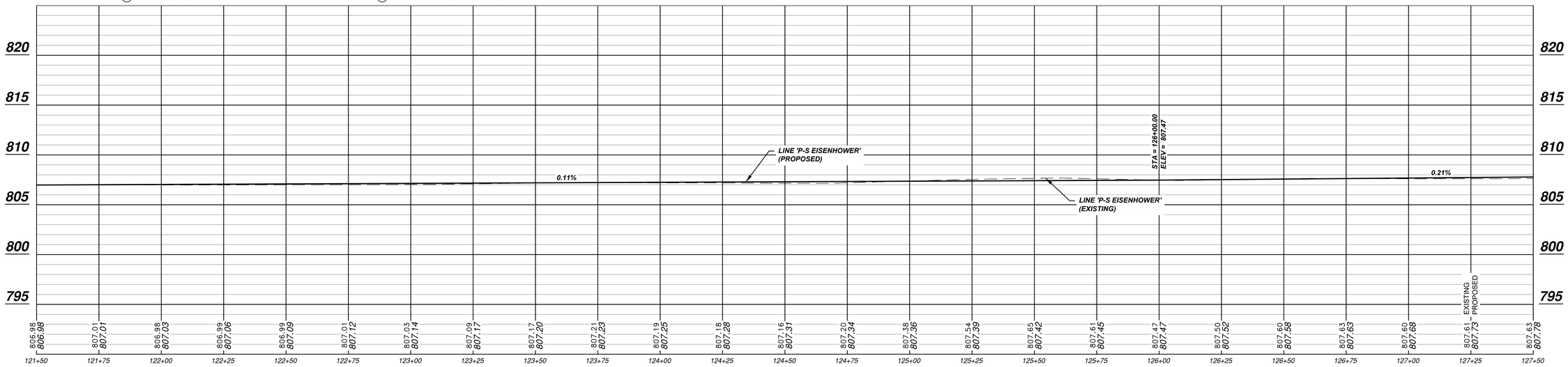
GENERAL NOTES:

1. SAW CUT EXISTING PAVEMENT EDGE PRIOR TO PLACING NEW PAVEMENT. DAMAGED EDGES MUST BE CORRECTED
2. ALL DRIVEWAYS MUST REMAIN OPEN TO BUSINESSES DURING PROJECT, MILLINGS OR AGGREGATE MAY BE PLACED ACROSS REMOVED LANE
3. AT THE END OF EACH WORK DAY, ALL PUBLIC UTILITIES MUST BE FULLY FUNCTIONAL. IF A UTILITY IS DAMAGED, IT MUST BE RESTORED THE SAME DAY
4. ADJUSTMENT OF WATER VALVE BOXES IS INCIDENTAL, RINGS MAY BE USED

BENCHMARK TBM "10"

"X" FOUND ON NORTHEAST HAT BOLT OF FIRE HYDRANT
ELEVATION 807.93 FEET NGVD88.

ELEV. = 807.93



PROFILE - S. EISENHOWER DR. - STA. 121+50 TO STA. 127+00

SCALE 1" = 20' H, 5' V

NO.	DESCRIPTION	BY	DATE
1	REVISED DINSER THICKNESS FROM 3" TO 2 1/2" ON P&P LEGEND	DKS	12/03/2020

DUSTIN K. SAILOR — NO. 10220087 — STATE OF INDIANA — REGISTERED PROFESSIONAL ENGINEER

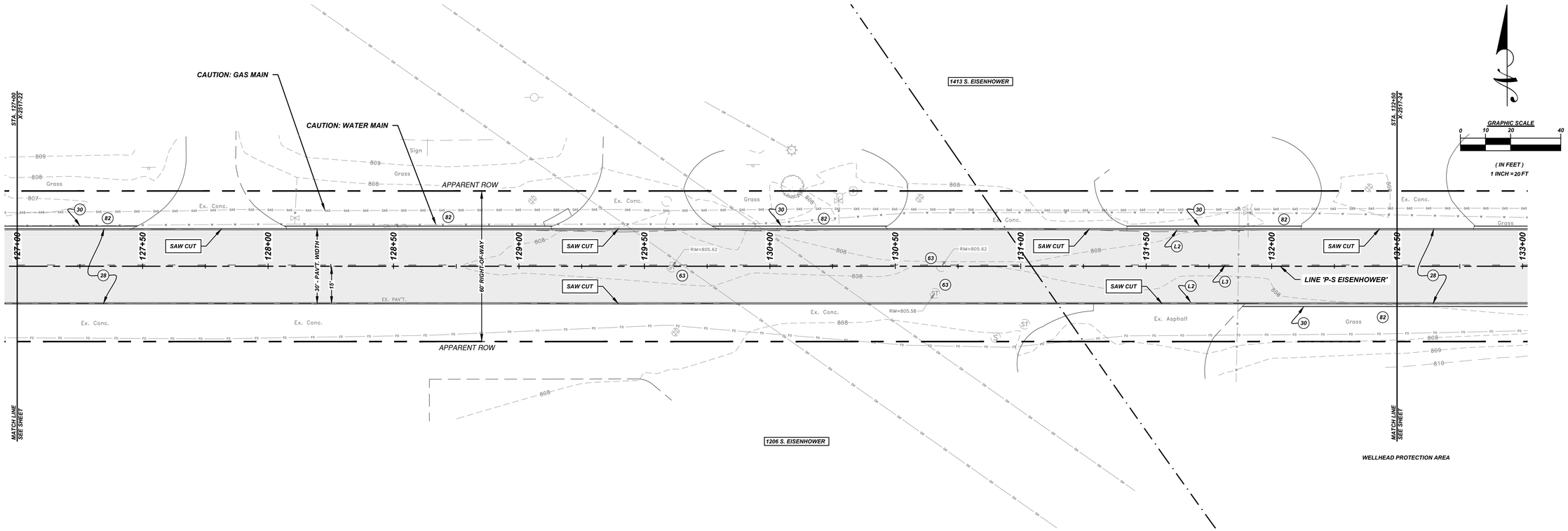
The City Of Goshen
Department of Public Works & Safety
Office of Engineering
204 East Jefferson Street, Goshen, Indiana 46528
Phone: 574-534-2201 Fax: 574-533-8626

Eisenhower Drive North & South Pavement Replacement

S. EISENHOWER ROAD PLAN & PROFILE
STA. 121+50 TO STA. 127+00

Project Number:	2020-0013
Designed By: J. Hoffman	Approved By: D. Sailor, P.E.
Drafted By: J. Hoffman	Date: 11/19/2020
Scale:	1" = 20' H, 5' V

X-2517-22



PLAN - S. EISENHOWER DR. - STA. 127+00 TO STA. 132+50

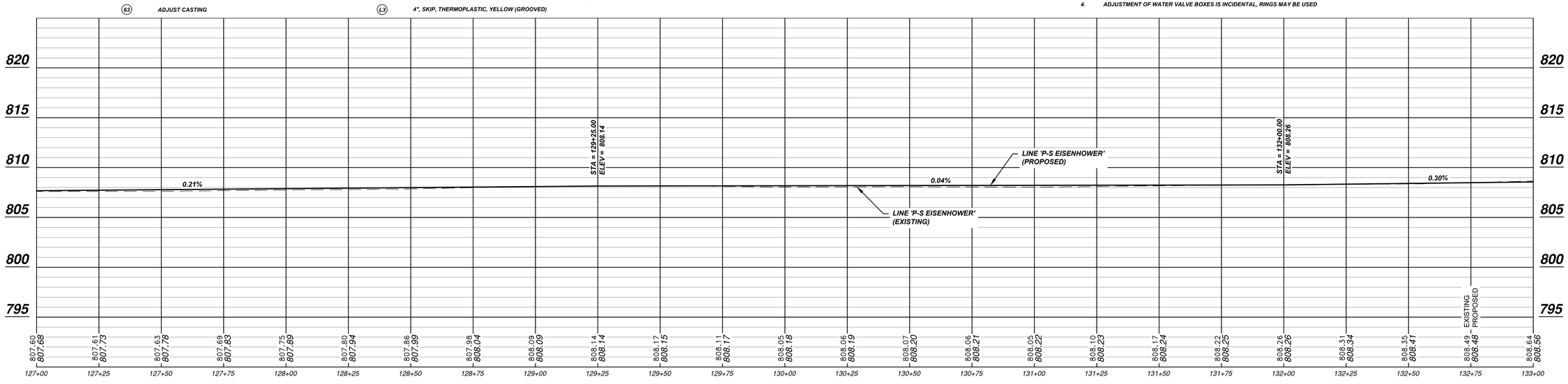
SCALE 1" = 20' H

LEGEND

(28)	PAVEMENT, FULL DEPTH, 1 1/2" HMA SURFACE OVER 2 1/2" HMA BINDER OVER 4" HMA BASE OVER 6" No. 53 CRUSHED CONCRETE	(82)	4" TOPSOIL. INDOT TYPE 'U' (NO CLOVER), STRAW WITH TACKIFIER	(S)	24", STOP BAR, THERMOPLASTIC, WHITE
(30)	1' AGGREGATE SHOULDER, 3" No. 73 LIMESTONE OVER 5" No. 53 CRUSHED/RECYCLED CONCRETE	(L1)	4", DOUBLE, THERMOPLASTIC, YELLOW (GROOVED)	(A)	ARROW, THERMOPLASTIC, WHITE
(45)	3" No. 73 LIMESTONE DRIVE	(L2)	4", SINGLE, THERMOPLASTIC, WHITE (GROOVED)	(M)	RELOCATE/ADJUST MAILBOX
(63)	ADJUST CASTING	(L3)	4", SKIP, THERMOPLASTIC, YELLOW (GROOVED)		

GENERAL NOTES:

1. SAW CUT EXISTING PAVEMENT EDGE PRIOR TO PLACING NEW PAVEMENT. DAMAGED EDGES MUST BE CORRECTED
2. ALL DRIVEWAYS MUST REMAIN OPEN TO BUSINESSES DURING PROJECT, MILLINGS OR AGGREGATE MAY BE PLACED ACROSS REMOVED LANE
3. AT THE END OF EACH WORK DAY, ALL PUBLIC UTILITIES MUST BE FULLY FUNCTIONAL. IF A UTILITY IS DAMAGED, IT MUST BE RESTORED THE SAME DAY
4. ADJUSTMENT OF WATER VALVE BOXES IS INCIDENTAL, RINGS MAY BE USED



PROFILE - S. EISENHOWER DR. - STA. 127+00 TO STA. 132+50

SCALE 1" = 20' H, 5' V

NO.	DESCRIPTION	BY	DATE
1	REVISED DINSER THICKNESS FROM 3" TO 2 1/2" ON P&P LEGEND	DKS	12/03/2020

DUSTIN K. SAILOR — NO. 10200087 — STATE OF INDIANA — REGISTERED PROFESSIONAL ENGINEER

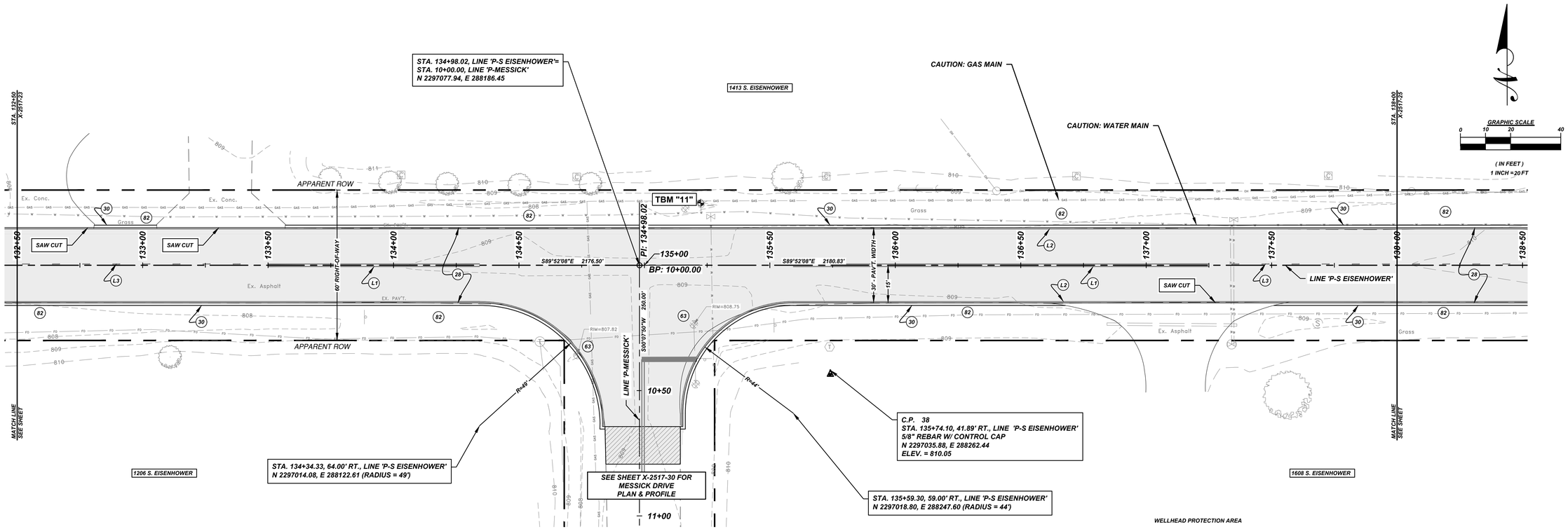
The City Of Goshen
Department of Public Works & Safety
Office of Engineering
204 East Jefferson Street, Goshen, Indiana 46528
Phone: 574-534-2201 Fax: 574-533-8626

Eisenhower Drive North & South Pavement Replacement

S. EISENHOWER ROAD PLAN & PROFILE
STA. 127+00 TO STA. 132+50

Project Number:	2020-0013
Designed By: J. Hoffman	Approved By: D. Sailor, P.E.
Drafted By: J. Hoffman	Date: 11/19/2020
Scale:	1" = 20' H, 5' V

X-2517-23



PLAN - S. EISENHOWER DR. - STA. 132+50 TO STA. 138+00

SCALE 1" = 20' H

LEGEND

⚠ 28	PAVEMENT, FULL DEPTH, 1 1/2" HMA SURFACE OVER 2 1/2" HMA BINDER OVER 4" HMA BASE OVER 6" No. 53 CRUSHED CONCRETE	82	4" TOPSOIL, INDOT TYPE 'U' (NO CLOVER), STRAW WITH TACKIFIER	S	24", STOP BAR, THERMOPLASTIC, WHITE
30	1' AGGREGATE SHOULDER, 3" No. 73 LIMESTONE OVER 5" No. 53 CRUSHED/RECYCLED CONCRETE	L1	4", DOUBLE, THERMOPLASTIC, YELLOW (GROOVED)	A	ARROW, THERMOPLASTIC, WHITE
45	3" No. 73 LIMESTONE DRIVE	L2	4", SINGLE, THERMOPLASTIC, WHITE (GROOVED)	M	RELOCATE/ADJUST MAILBOX
63	ADJUST CASTING	L3	4", SKIP, THERMOPLASTIC, YELLOW (GROOVED)		

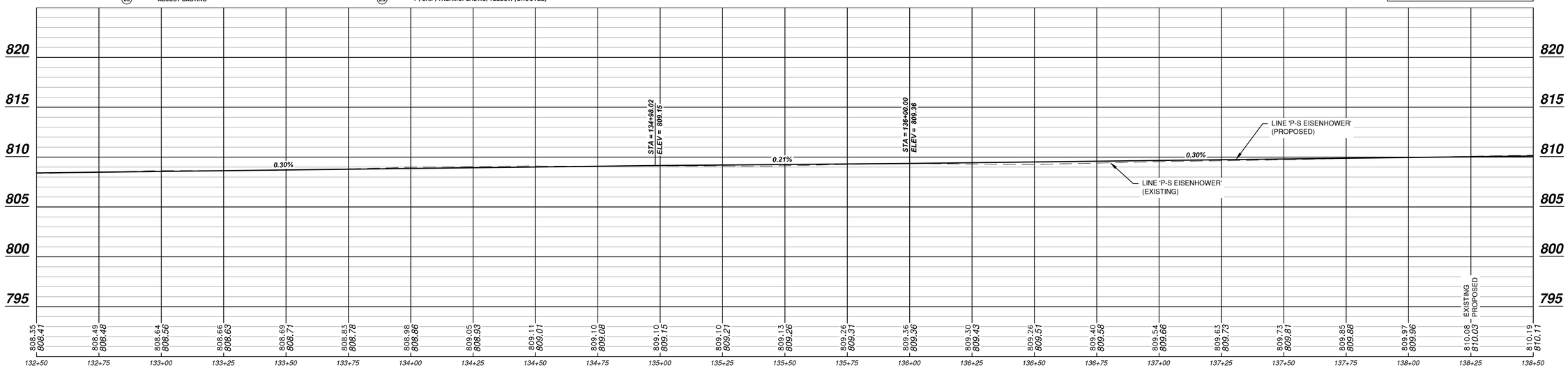
GENERAL NOTES:

1. SAW CUT EXISTING PAVEMENT EDGE PRIOR TO PLACING NEW PAVEMENT. DAMAGED EDGES MUST BE CORRECTED
2. ALL DRIVEWAYS MUST REMAIN OPEN TO BUSINESSES DURING PROJECT, MILLINGS OR AGGREGATE MAY BE PLACED ACROSS REMOVED LANE
3. AT THE END OF EACH WORK DAY, ALL PUBLIC UTILITIES MUST BE FULLY FUNCTIONAL. IF A UTILITY IS DAMAGED, IT MUST BE RESTORED THE SAME DAY
4. ADJUSTMENT OF WATER VALVE BOXES IS INCIDENTAL, RINGS MAY BE USED

BENCHMARK TBM "11"

'X' FOUND ON NORTHEAST HALT BOLT OF FIRE HYDRANT
ELEVATION 810.09 FEET NGVD88.

ELEV. = 810.09



PROFILE - S. EISENHOWER DR. - STA. 132+50 TO STA. 138+00

SCALE 1" = 20' H, 5' V

NO.	DESCRIPTION	BY	DATE
1	REVISED DINSER THICKNESS FROM 3" TO 2 1/2" ON P&P LEGEND	DKS	12/03/2020

DUSTIN K. SAILOR — NOTARY PUBLIC — RESIDENT OF ELKHART COUNTY — NO. 10220087 — STATE OF INDIANA — PROFESSIONAL ENGINEER

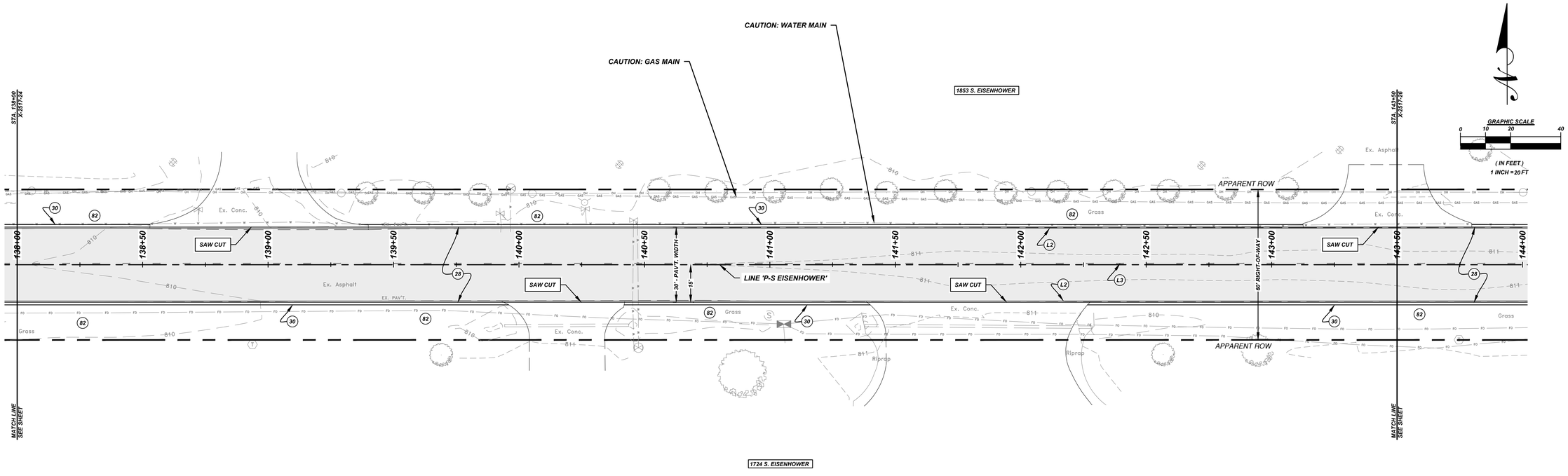
The City Of Goshen
Department of Public Works & Safety
Office of Engineering
204 East Jefferson Street, Goshen, Indiana 46528
Phone: 574-534-2201 Fax: 574-533-8626

Eisenhower Drive North & South Pavement Replacement

S. EISENHOWER ROAD PLAN & PROFILE
STA. 132+50 TO STA. 138+00

Project Number:	2020-0013
Designed By: J. Hoffman	Approved By: D. Sailor, P.E.
Drafted By: J. Hoffman	Date: 11/19/2020
Scale:	1" = 20' H, 5' V

X-2517-24



PLAN - S. EISENHOWER DR. - STA. 138+00 TO STA. 143+50

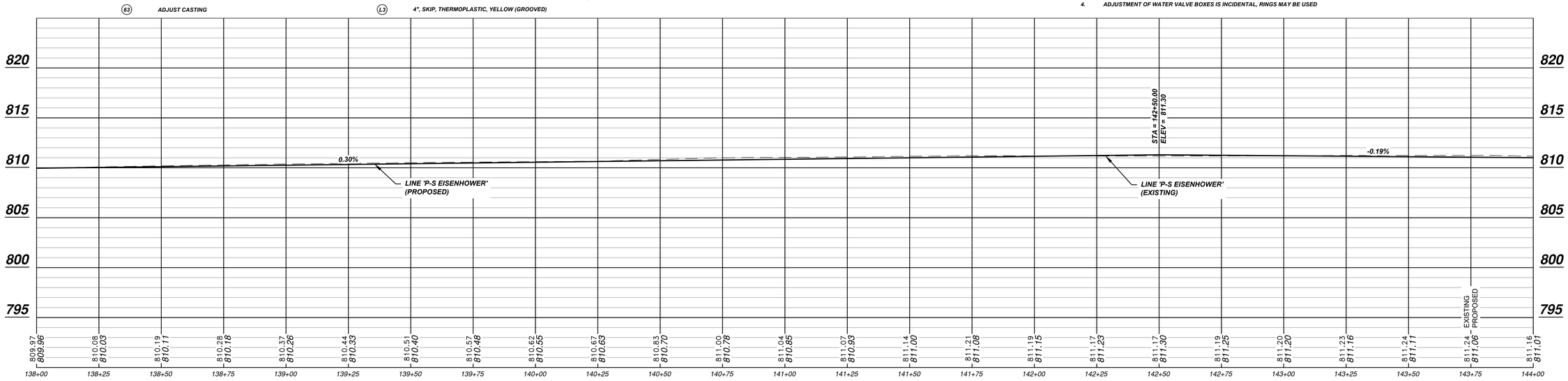
SCALE 1" = 20' H

LEGEND

28	PAVEMENT, FULL DEPTH, 1 1/2" HMA SURFACE OVER 2 1/2" HMA BINDER OVER 4" HMA BASE OVER 6" No. 53 CRUSHED CONCRETE	82	4" TOPSOIL. INDOT TYPE 'U' (NO CLOVER), STRAW WITH TACKIFIER	S	24", STOP BAR, THERMOPLASTIC, WHITE
30	1' AGGREGATE SHOULDER, 3" No. 73 LIMESTONE OVER 5" No. 53 CRUSHED/RECYCLED CONCRETE	L1	4", DOUBLE, THERMOPLASTIC, YELLOW (GROOVED)	A	ARROW, THERMOPLASTIC, WHITE
45	3" No. 73 LIMESTONE DRIVE	L2	4", SINGLE, THERMOPLASTIC, WHITE (GROOVED)	M	RELOCATE/ADJUST MAILBOX
63	ADJUST CASTING	L3	4", SKIP, THERMOPLASTIC, YELLOW (GROOVED)		

GENERAL NOTES:

1. SAW CUT EXISTING PAVEMENT EDGE PRIOR TO PLACING NEW PAVEMENT. DAMAGED EDGES MUST BE CORRECTED
2. ALL DRIVEWAYS MUST REMAIN OPEN TO BUSINESSES DURING PROJECT, MILLINGS OR AGGREGATE MAY BE PLACED ACROSS REMOVED LANE
3. AT THE END OF EACH WORK DAY, ALL PUBLIC UTILITIES MUST BE FULLY FUNCTIONAL. IF A UTILITY IS DAMAGED, IT MUST BE RESTORED THE SAME DAY
4. ADJUSTMENT OF WATER VALVE BOXES IS INCIDENTAL, RINGS MAY BE USED



PROFILE - S. EISENHOWER DR. - STA. 138+00 TO STA. 143+50

SCALE 1" = 20' H, 5' V

REV.	DESCRIPTION	BY	DATE
1	REVISED BINDER THICKNESS FROM 3" TO 2 1/2" ON P&P LEGEND	DKS	12/03/2020

DUSTIN K. SAILOR
REGISTERED
NO. 10200087
STATE OF INDIANA
PROFESSIONAL ENGINEER

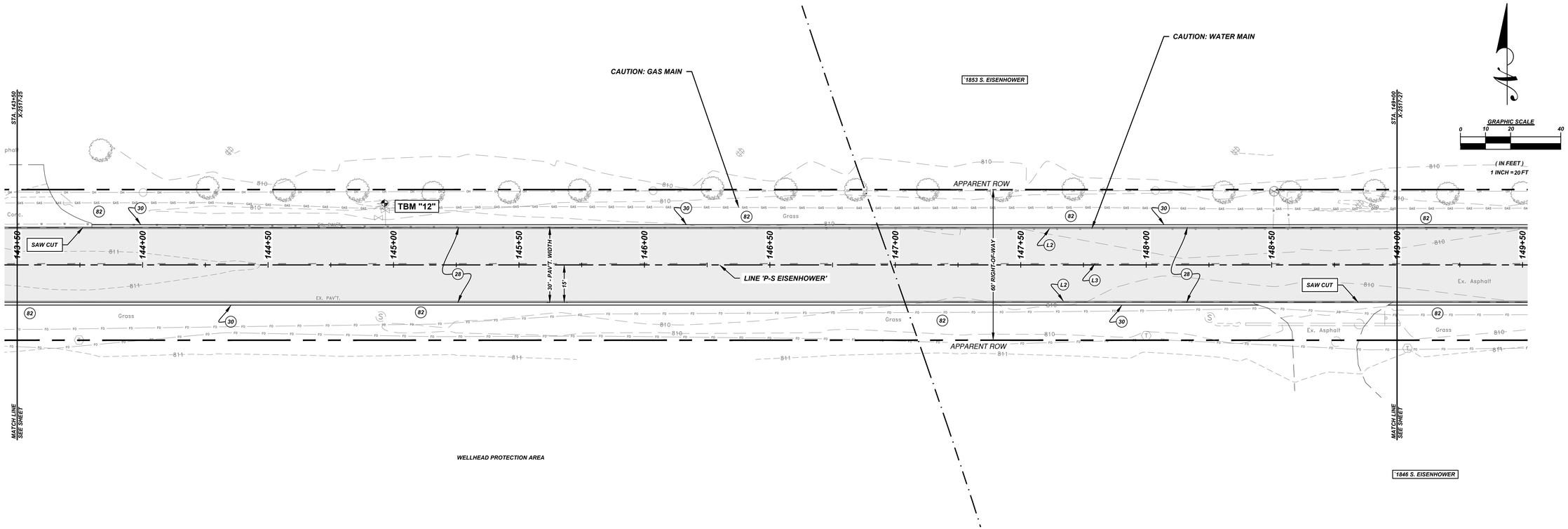
The City Of Goshen
Department of Public Works & Safety
Office of Engineering
204 East Jefferson Street, Goshen, Indiana 46528
Phone: 574-534-2201 Fax: 574-533-8626

Eisenhower Drive North & South Pavement Replacement

S. EISENHOWER ROAD PLAN & PROFILE
STA. 138+00 TO STA. 143+50

Project Number: 2020-0013	
Designed By: J. Hoffman	Approved By: D. Sailor, P.E.
Drafted By: J. Hoffman	Date: 11/19/2020
Scale: 1" = 20' H, 5' V	

X-2517-25



PLAN - S. EISENHOWER DR. - STA. 143+50 TO STA. 149+00

SCALE 1" = 20' H

LEGEND

⚠ (28)	PAVEMENT, FULL DEPTH, 1 1/2" HMA SURFACE OVER 2 1/2" HMA BINDER OVER 4" HMA BASE OVER 6" No. 53 CRUSHED CONCRETE	(82)	4" TOPSOIL, INDOT TYPE 'U' (NO CLOVER), STRAW WITH TACKIFIER	(S)	24", STOP BAR, THERMOPLASTIC, WHITE
(30)	1' AGGREGATE SHOULDER, 3" No. 73 LIMESTONE OVER 5" No. 53 CRUSHED/RECYCLED CONCRETE	(L1)	4", DOUBLE, THERMOPLASTIC, YELLOW (GROOVED)	(A)	ARROW, THERMOPLASTIC, WHITE
(45)	3" No. 73 LIMESTONE DRIVE	(L2)	4", SINGLE, THERMOPLASTIC, WHITE (GROOVED)	(M)	RELOCATE/ADJUST MAILBOX
(63)	ADJUST CASTING	(L3)	4", SKIP, THERMOPLASTIC, YELLOW (GROOVED)		

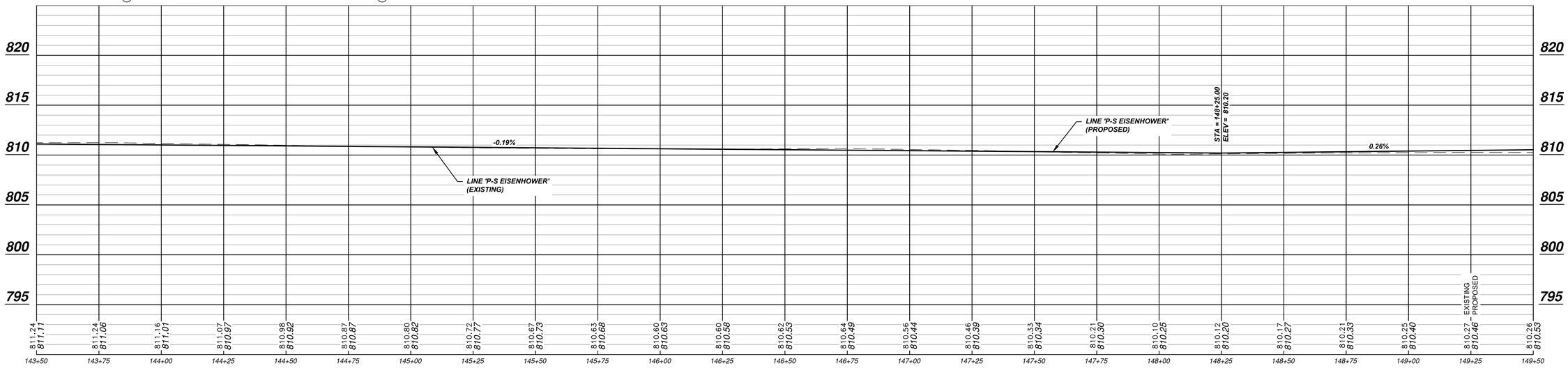
GENERAL NOTES:

1. SAW CUT EXISTING PAVEMENT EDGE PRIOR TO PLACING NEW PAVEMENT. DAMAGED EDGES MUST BE CORRECTED
2. ALL DRIVEWAYS MUST REMAIN OPEN TO BUSINESSES DURING PROJECT, MILLINGS OR AGGREGATE MAY BE PLACED ACROSS REMOVED LANE
3. AT THE END OF EACH WORK DAY, ALL PUBLIC UTILITIES MUST BE FULLY FUNCTIONAL. IF A UTILITY IS DAMAGED, IT MUST BE RESTORED THE SAME DAY
4. ADJUSTMENT OF WATER VALVE BOXES IS INCIDENTAL, RINGS MAY BE USED

BENCHMARK TBM "12"

"X" FOUND ON NORTHWEST HAT BOLT OF FIRE HYDRANT
ELEVATION 811.14 FEET NGVD88.

ELEV. = 811.14



PROFILE - S. EISENHOWER DR. - STA. 143+50 TO STA. 149+00

SCALE 1" = 20' H, 5' V

REV.	BY	DATE	DESCRIPTION
		DKS	12/03/2020
			REVISED DINSER THICKNESS FROM 3" TO 2 1/2" ON P&P LEGEND

DUSTIN K. SAILOR — REGISTERED NO. 10200087 STATE OF INDIANA — PROFESSIONAL ENGINEER

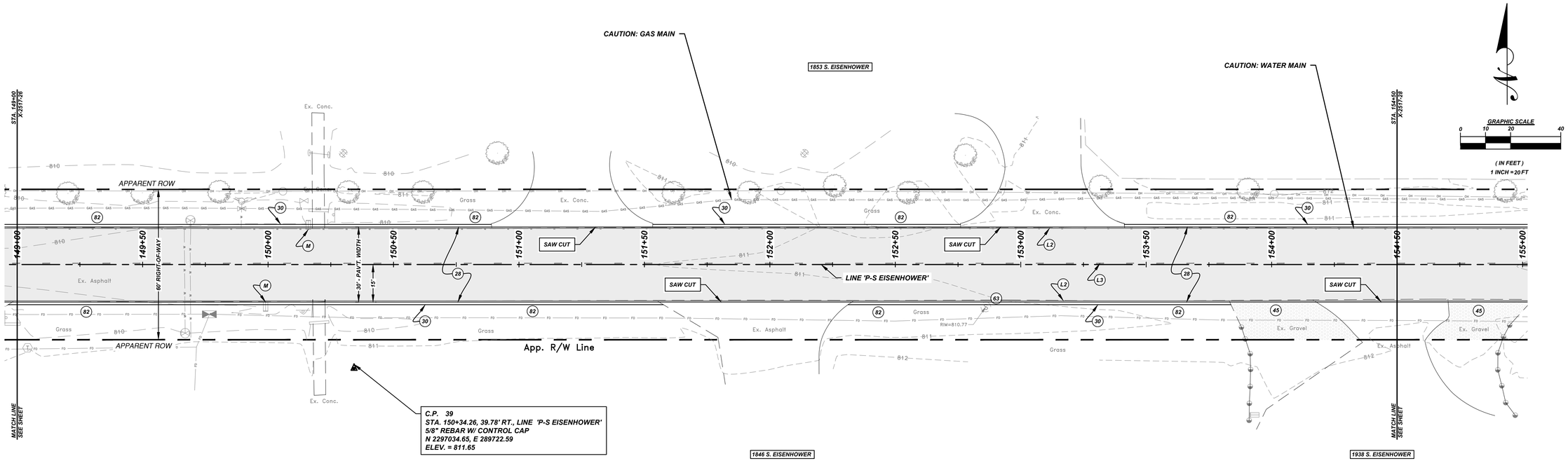
The City Of Goshen
Department of Public Works & Safety
Office of Engineering
204 East Jefferson Street, Goshen, Indiana 46528
Phone: 574-534-2201 Fax: 574-533-8626

Eisenhower Drive North & South Pavement Replacement

S. EISENHOWER ROAD PLAN & PROFILE
STA. 143+50 TO STA. 149+00

Project Number:	2020-0013
Designed By: J. Hoffman	Approved By: D. Sailor, P.E.
Drafted By: J. Hoffman	Date: 11/19/2020
Scale:	1" = 20' H, 5' V

X-2517-26



PLAN - S. EISENHOWER DR. - STA. 149+00 TO STA. 154+50

SCALE 1" = 20' H

LEGEND

28	PAVEMENT, FULL DEPTH, 1 1/2" HMA SURFACE OVER 2 1/2" HMA BINDER OVER 4" HMA BASE OVER 6" No. 53 CRUSHED CONCRETE	82	4" TOPSOIL. INDOT TYPE 'U' (NO CLOVER), STRAW WITH TACKIFIER	S	24", STOP BAR, THERMOPLASTIC, WHITE
30	1' AGGREGATE SHOULDER, 3" No. 73 LIMESTONE OVER 5" No. 53 CRUSHED/RECYCLED CONCRETE	L1	4", DOUBLE, THERMOPLASTIC, YELLOW (GROOVED)	A	ARROW, THERMOPLASTIC, WHITE
45	3" No. 73 LIMESTONE DRIVE	L2	4", SINGLE, THERMOPLASTIC, WHITE (GROOVED)	M	RELOCATE/ADJUST MAILBOX
63	ADJUST CASTING	L3	4", SKIP, THERMOPLASTIC, YELLOW (GROOVED)		

GENERAL NOTES:

1. SAW CUT EXISTING PAVEMENT EDGE PRIOR TO PLACING NEW PAVEMENT. DAMAGED EDGES MUST BE CORRECTED
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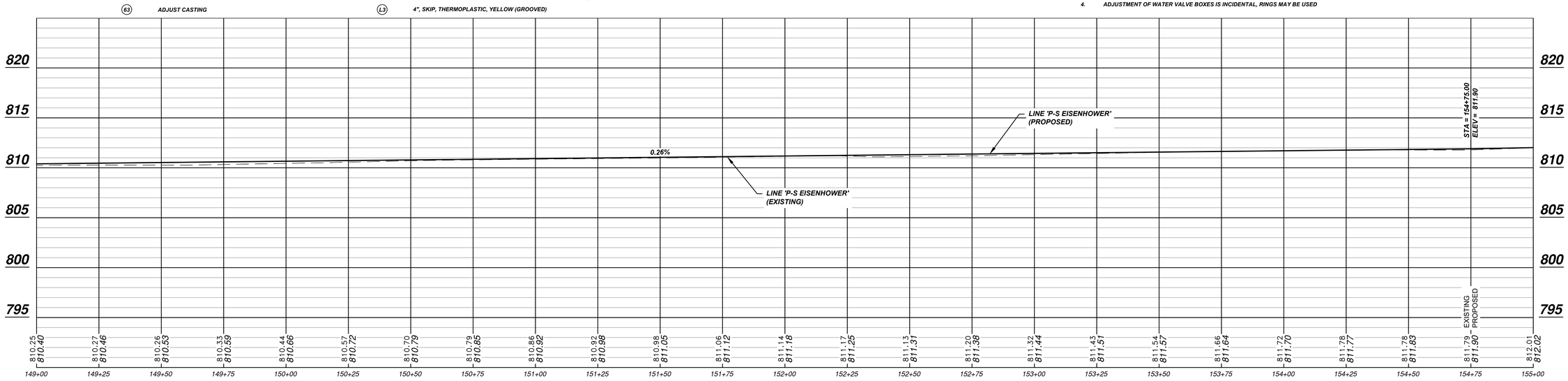
4. ADJUSTMENT OF WATER VALVE BOXES IS INCIDENTAL, RINGS MAY BE USED



PROFILE - S. EISENHOWER DR. - STA. 149+00 TO STA. 154+50

SCALE 1" = 20' H, 5' V

REV.	BY	DESCRIPTION	DKS	DATE
1		REVISED DINSER THICKNESS FROM 3" TO 2 1/2" ON P&P LEGEND	DKS	12/03/2020

The City Of Goshen
Department of Public Works & Safety
Office of Engineering
204 East Jefferson Street, Goshen, Indiana 46528
Phone: 574-534-2201 Fax: 574-533-8626

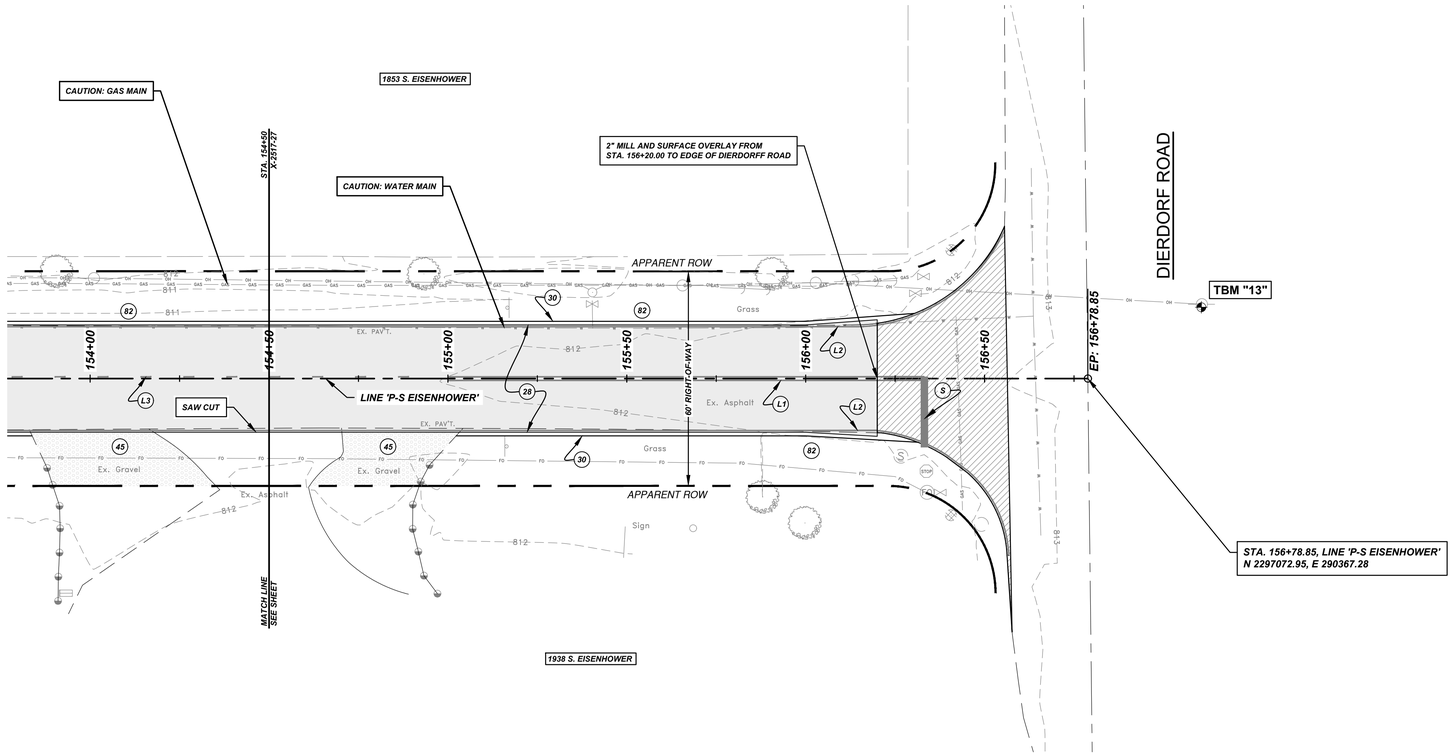
JUSTIN K. SAILOR — NO. 10200087 — STATE OF INDIANA — REGISTERED PROFESSIONAL ENGINEER

Eisenhower Drive North & South Pavement Replacement

S. EISENHOWER ROAD PLAN & PROFILE
STA. 149+00 TO STA. 154+50

Project Number:	2020-0013
Designed By: J. Hoffman	Approved By: D. Sailor, P.E.
Drafted By: J. Hoffman	Date: 11/19/2020
Scale:	1" = 20' H, 5' V

X-2517-27



PLAN - S. EISENHOWER DR. - STA. 154+50 TO STA. 156+78.85

SCALE 1" = 20' H

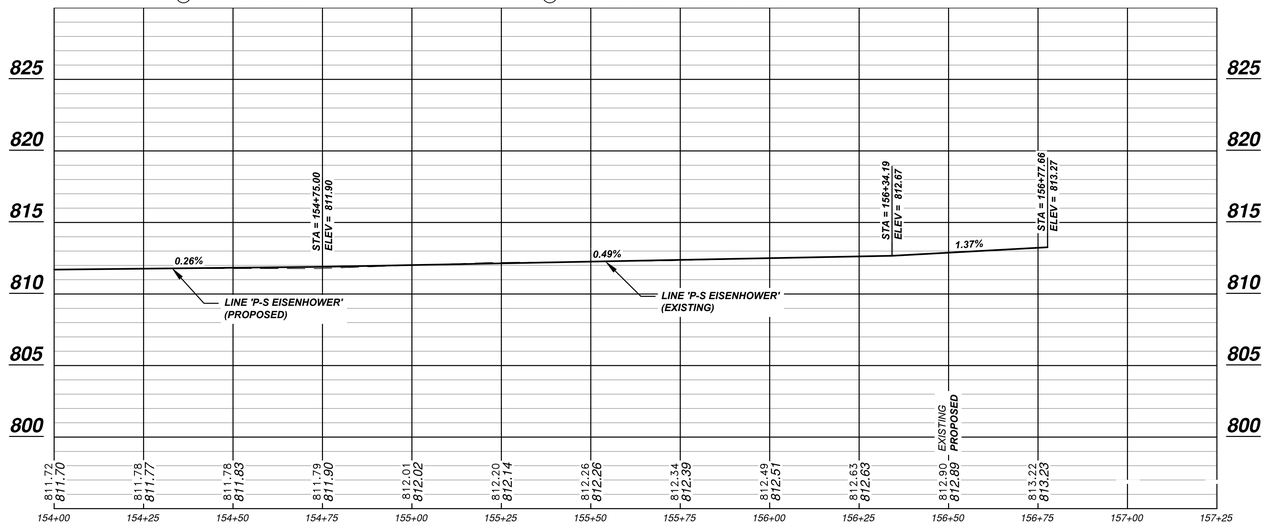
LEGEND

2 / 28	PAVEMENT, FULL DEPTH, 1 1/2" HMA SURFACE OVER 2 1/2" HMA BINDER OVER 4" HMA BASE OVER 6" No. 53 CRUSHED CONCRETE	82	4" TOPSOIL. INDOT TYPE 'U' (NO CLOVER), STRAW WITH TACKIFIER	S	24", STOP BAR, THERMOPLASTIC, WHITE
30	1' AGGREGATE SHOULDER, 3" No. 73 LIMESTONE OVER 5" No. 53 CRUSHED/RECYCLED CONCRETE	L1	4", DOUBLE, THERMOPLASTIC, YELLOW (GROOVED)	A	ARROW, THERMOPLASTIC, WHITE
45	3" No. 73 LIMESTONE DRIVE	L2	4", SINGLE, THERMOPLASTIC, WHITE (GROOVED)	M	RELOCATE/ADJUST MAILBOX
63	ADJUST CASTING	L3	4", SKIP, THERMOPLASTIC, YELLOW (GROOVED)		

BENCHMARK TBM "13"

BENCHTIE SET IN UTILITY POLE
ELEVATION 813.15 FEET NGVD88.

ELEV. = 813.15



PROFILE - S. EISENHOWER DR. - STA. 154+50 TO STA. 156+78.85

SCALE 1" = 20' H, 5' V

GENERAL NOTES:

1. SAW CUT EXISTING PAVEMENT EDGE PRIOR TO PLACING NEW PAVEMENT. DAMAGED EDGES MUST BE CORRECTED
2. ALL DRIVEWAYS MUST REMAIN OPEN TO BUSINESSES DURING PROJECT, MILLINGS OR AGGREGATE MAY BE PLACED ACROSS REMOVED LANE
3. AT THE END OF EACH WORK DAY, ALL PUBLIC UTILITIES MUST BE FULLY FUNCTIONAL. IF A UTILITY IS DAMAGED, IT MUST BE RESTORED THE SAME DAY
4. ADJUSTMENT OF WATER VALVE BOXES IS INCIDENTAL, RINGS MAY BE USED

REV.	DESCRIPTION	BY	DATE
1	REVISED DINSER THICKNESS FROM 3" TO 2 1/2" ON P&P LEGEND	DKS	12/03/2020

DUSTIN K. SAILOR — NO. 10220087 — STATE OF INDIANA — REGISTERED PROFESSIONAL ENGINEER

The City Of Goshen
Department of Public Works & Safety
Office of Engineering
204 East Jefferson Street, Goshen, Indiana 46528
Phone: 574-534-2201 Fax: 574-533-8626

Eisenhower Drive North & South Pavement Replacement

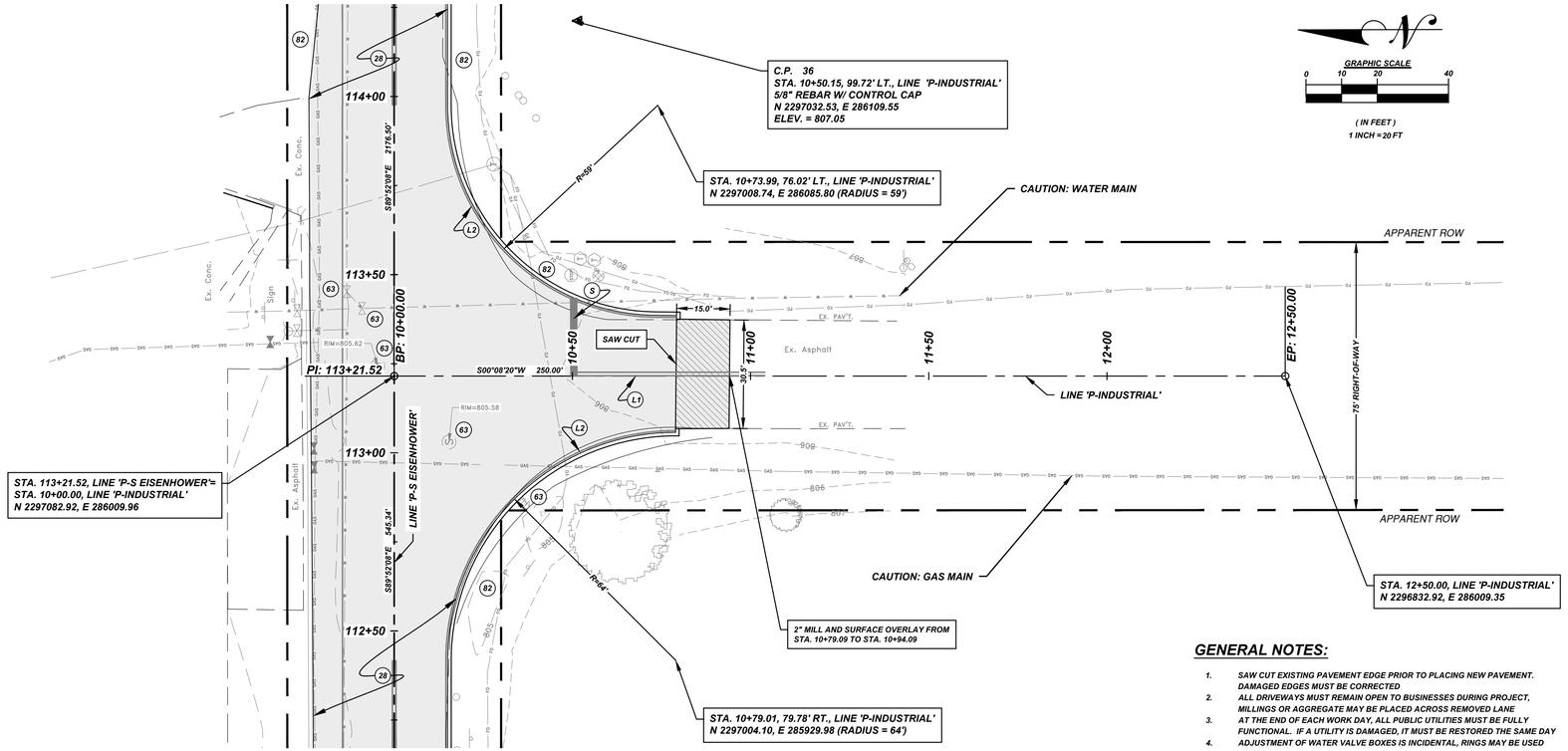
S. EISENHOWER ROAD PLAN & PROFILE
STA. 154+50 TO STA. 156+78.85

Project Number: 2020-0013

Designed By:	Approved By:
J. Hoffman	D. Sailor, P.E.
Drafted By:	Date:
J. Hoffman	11/19/2020

Scale: 1" = 20' H, 5' V

X-2517-28



PLAN - INDUSTRIAL PARK DR. - STA. 10+00 TO STA. 12+50

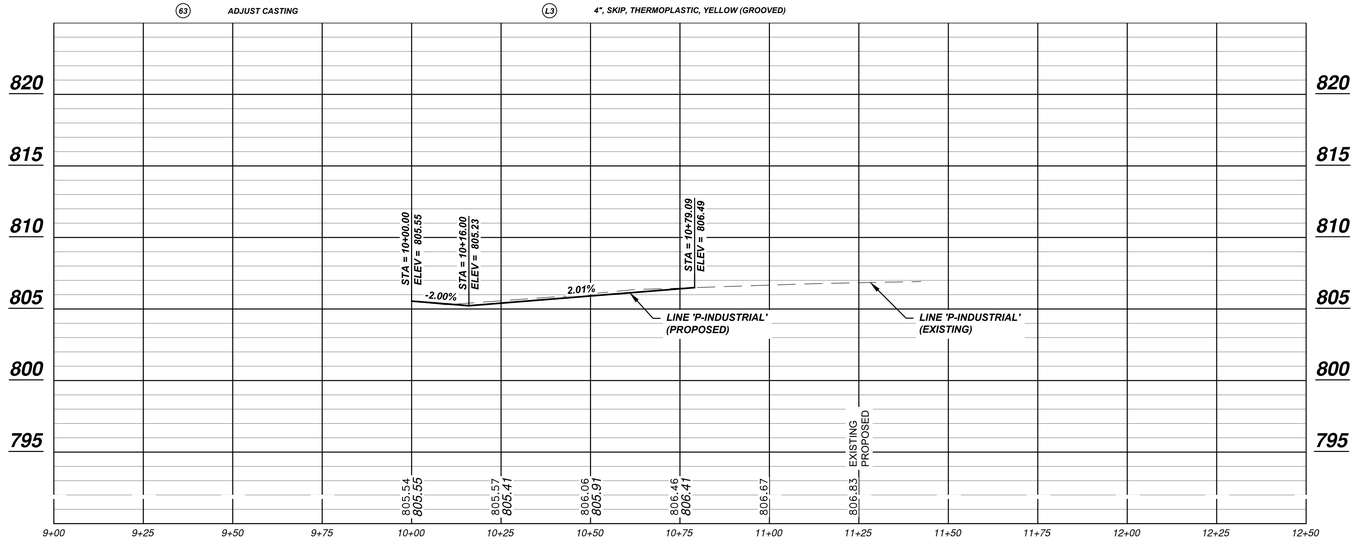
SCALE 1" = 20' H

GENERAL NOTES:

1. SAW CUT EXISTING PAVEMENT EDGE PRIOR TO PLACING NEW PAVEMENT. DAMAGED EDGES MUST BE CORRECTED
2. ALL DRIVEWAYS MUST REMAIN OPEN TO BUSINESSES DURING PROJECT, MILLINGS OR AGGREGATE MAY BE PLACED ACROSS REMOVED LANE
3. AT THE END OF EACH WORK DAY, ALL PUBLIC UTILITIES MUST BE FULLY FUNCTIONAL. IF A UTILITY IS DAMAGED, IT MUST BE RESTORED THE SAME DAY
4. ADJUSTMENT OF WATER VALVE BOXES IS INCIDENTAL, RINGS MAY BE USED

LEGEND

2 (28)	PAVEMENT, FULL DEPTH, 1 1/2" HMA SURFACE OVER 2 1/2" HMA BINDER OVER 4" HMA BASE OVER 6" No. 53 CRUSHED CONCRETE	(82)	4" TOPSOIL. INDOT TYPE 'U' (NO CLOVER), STRAW WITH TACKIFIER	(S)	24", STOP BAR, THERMOPLASTIC, WHITE
(30)	1' AGGREGATE SHOULDER, 3" No. 73 LIMESTONE OVER 5" No. 53 CRUSHED/RECYCLED CONCRETE	(L1)	4", DOUBLE, THERMOPLASTIC, YELLOW (GROOVED)	(A)	ARROW, THERMOPLASTIC, WHITE
(45)	3" No. 73 LIMESTONE DRIVE	(L2)	4", SINGLE, THERMOPLASTIC, WHITE (GROOVED)	(M)	RELOCATE/ADJUST MAILBOX
(63)	ADJUST CASTING	(L3)	4", SKIP, THERMOPLASTIC, YELLOW (GROOVED)		



PROFILE - INDUSTRIAL PARK DR. - STA. 10+00 TO STA. 12+50

SCALE 1" = 20' H, 5' V

REV.	BY	DATE	DESCRIPTION
	DKS	12/03/2020	REVISED BINDER THICKNESS FROM 3" TO 2 1/2" ON P&P LEGEND

The City Of Goshen
Department of Public Works & Safety
Office of Engineering
204 East Jefferson Street, Goshen, Indiana 46528
Phone: 574-534-2201 Fax: 574-533-8626

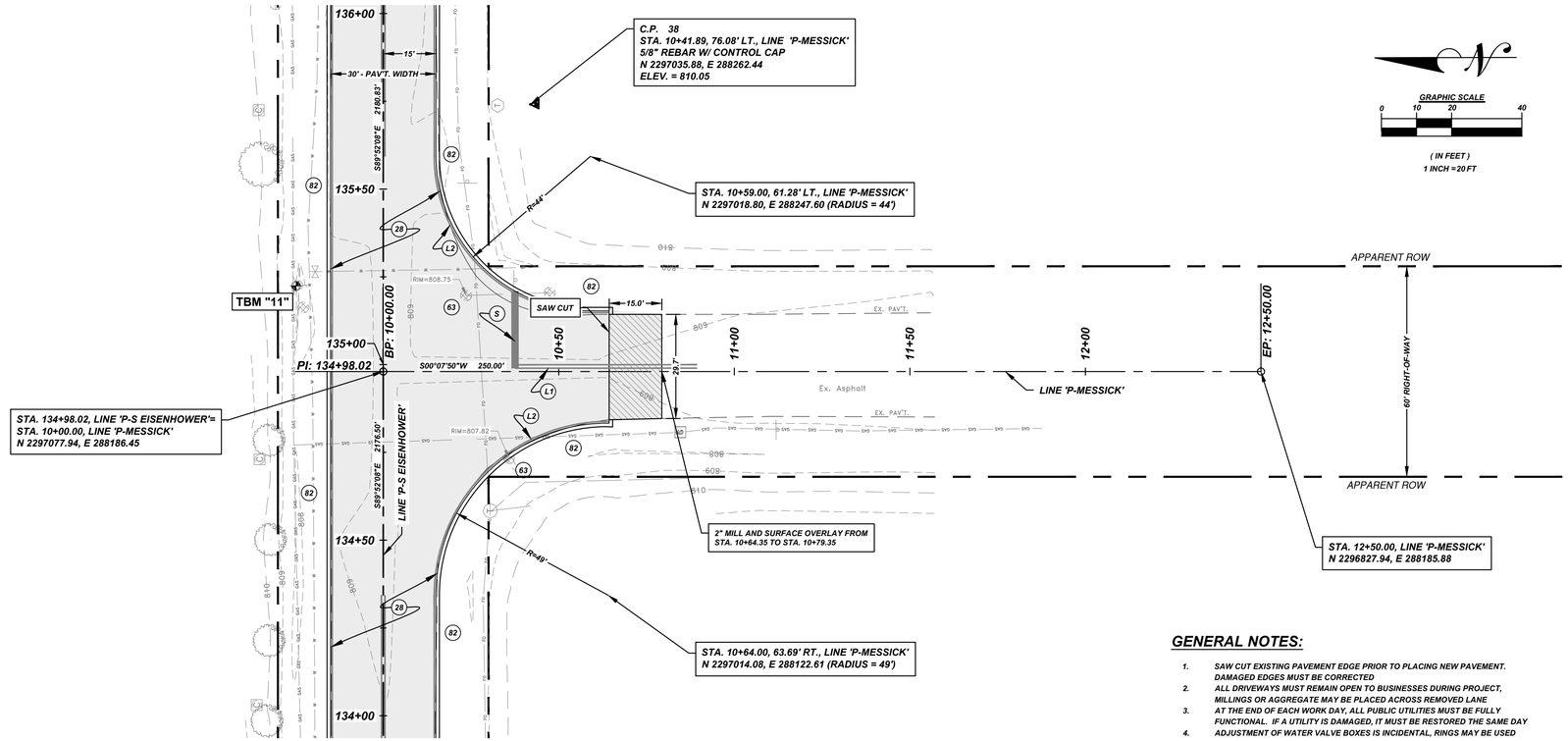
JUSTIN K. SAILOR — REGISTERED NO. 10200087 — STATE OF INDIANA — PROFESSIONAL ENGINEER

Eisenhower Drive North & South
Pavement Replacement

INDUSTRIAL PARK DRIVE PLAN & PROFILE
STA. 10+00 TO STA. 12+50

Project Number:	2020-0013
Designed By: J. Hoffman	Approved By: D. Sailor, P.E.
Drafted By: J. Hoffman	Date: 11/19/2020
Scale:	1" = 20' H, 5' V

X-2517-29



PLAN - MESSICK DR. - STA. 10+00 TO STA. 12+50

SCALE 1" = 20' H

GRAPHIC SCALE

0 10 20 40

(IN FEET)

1 INCH = 20 FT

GENERAL NOTES:

1. SAW CUT EXISTING PAVEMENT EDGE PRIOR TO PLACING NEW PAVEMENT. DAMAGED EDGES MUST BE CORRECTED
2. ALL DRIVEWAYS MUST REMAIN OPEN TO BUSINESSES DURING PROJECT, MILLINGS OR AGGREGATE MAY BE PLACED ACROSS REMOVED LANE
3. AT THE END OF EACH WORK DAY, ALL PUBLIC UTILITIES MUST BE FULLY FUNCTIONAL. IF A UTILITY IS DAMAGED, IT MUST BE RESTORED THE SAME DAY
4. ADJUSTMENT OF WATER VALVE BOXES IS INCIDENTAL, RINGS MAY BE USED

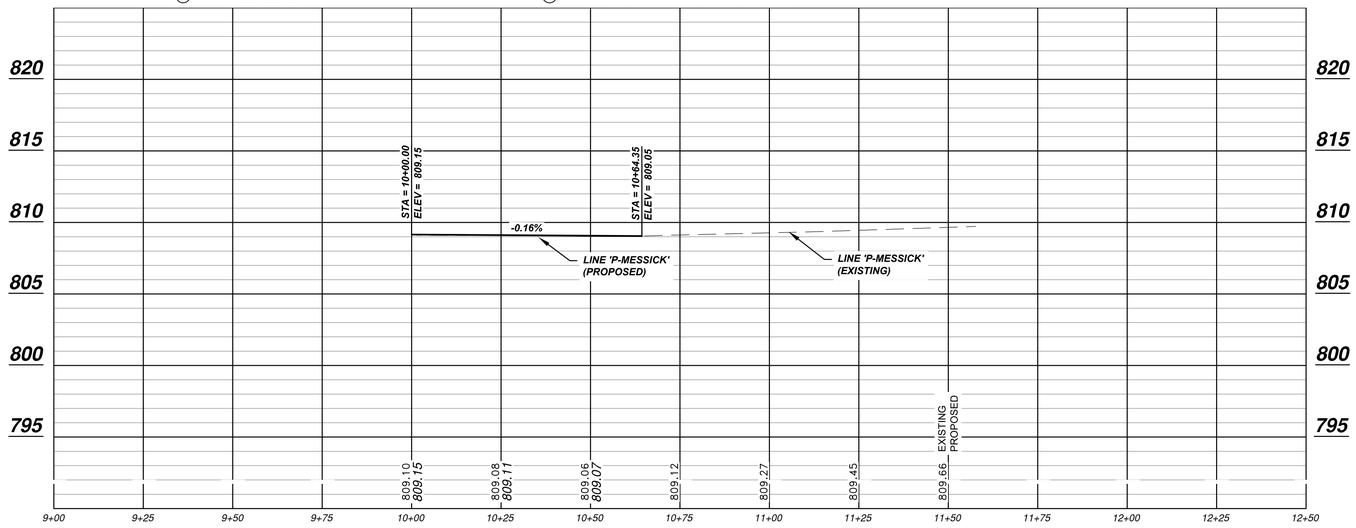
LEGEND

2, 28	PAVEMENT, FULL DEPTH, 1 1/2" HMA SURFACE OVER 2 1/2" HMA BINDER OVER 4" HMA BASE OVER 6" No. 53 CRUSHED CONCRETE	82	4" TOPSOIL. INDOT TYPE 'U' (NO CLOVER), STRAW WITH TACKIFIER	S	24", STOP BAR, THERMOPLASTIC, WHITE
30	1' AGGREGATE SHOULDER, 3" No. 73 LIMESTONE OVER 5" No. 53 CRUSHED/RECYCLED CONCRETE	L1	4", DOUBLE, THERMOPLASTIC, YELLOW (GROOVED)	A	ARROW, THERMOPLASTIC, WHITE
45	3" No. 73 LIMESTONE DRIVE	L2	4", SINGLE, THERMOPLASTIC, WHITE (GROOVED)	M	RELOCATE/ADJUST MAILBOX
63	ADJUST CASTING	L3	4", SKIP, THERMOPLASTIC, YELLOW (GROOVED)		

BENCHMARK TBM "11"

"X" FOUND ON NORTHEAST HALT BOLT OF FIRE HYDRANT
ELEVATION 810.09 FEET NGVD88.

ELEV. = 810.09



PROFILE - MESSICK DR. - STA. 10+00 TO STA. 12+50

SCALE 1" = 20' H, 5' V

BY	DESCRIPTION	REV.
DKS	REVISED DINSER THICKNESS FROM 3" TO 2 1/2" ON P&P LEGEND	1
DKS	12/30/2020	DATE

JOHN K. SAILOR — REGISTERED — NO. 10200087 — STATE OF INDIANA — PROFESSIONAL ENGINEER

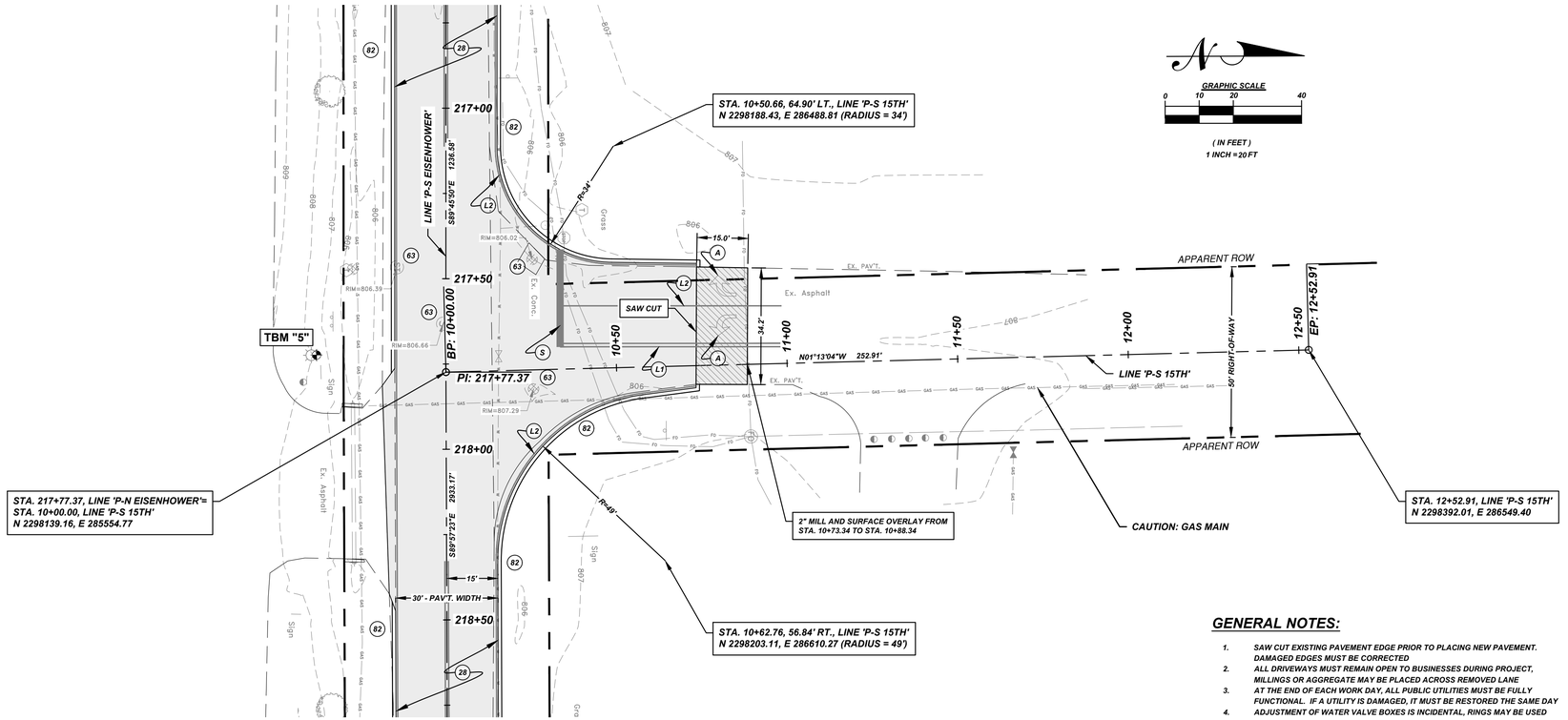
The City Of Goshen
Department of Public Works & Safety
Office of Engineering
204 East Jefferson Street, Goshen, Indiana 46528
Phone: 574-534-2201 Fax: 574-533-8626

Eisenhower Drive North & South Pavement Replacement

MESSICK DRIVE PLAN & PROFILE
STA. 10+00 TO STA. 12+50

Project Number:	2020-0013
Designed By: J. Hoffman	Approved By: D. Sailor, P.E.
Drafted By: J. Hoffman	Date: 11/19/2020
Scale:	1" = 20' H, 5' V

X-2517-30



PLAN - S. 15TH STREET - STA. 10+00 TO STA. 12+52.91

SCALE 1" = 20' H

GENERAL NOTES:

1. SAW CUT EXISTING PAVEMENT EDGE PRIOR TO PLACING NEW PAVEMENT. DAMAGED EDGES MUST BE CORRECTED
2. ALL DRIVEWAYS MUST REMAIN OPEN TO BUSINESSES DURING PROJECT, MILLINGS OR AGGREGATE MAY BE PLACED ACROSS REMOVED LANE
3. AT THE END OF EACH WORK DAY, ALL PUBLIC UTILITIES MUST BE FULLY FUNCTIONAL. IF A UTILITY IS DAMAGED, IT MUST BE RESTORED THE SAME DAY
4. ADJUSTMENT OF WATER VALVE BOXES IS INCIDENTAL, RINGS MAY BE USED

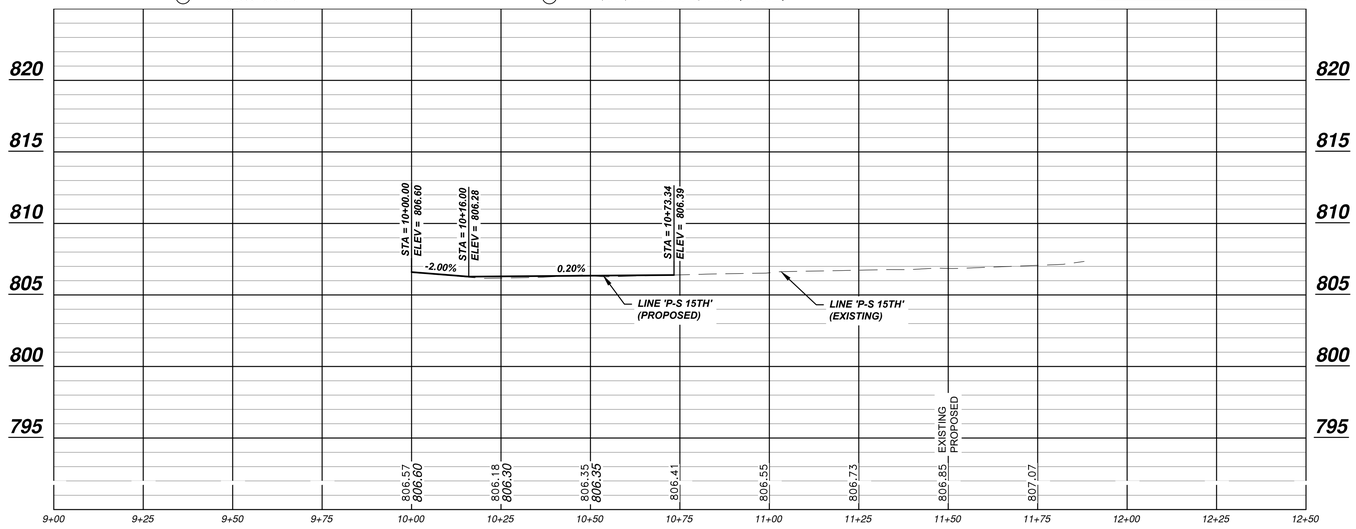
LEGEND

2 (28)	PAVEMENT, FULL DEPTH, 1 1/2" HMA SURFACE OVER 2 1/2" HMA BINDER OVER 4" HMA BASE OVER 6" No. 53 CRUSHED CONCRETE	(82)	4" TOPSOIL, INDOT TYPE 'U' (NO CLOVER), STRAW WITH TACKIFIER	(S)	24", STOP BAR, THERMOPLASTIC, WHITE
(30)	1' AGGREGATE SHOULDER, 3" No. 73 LIMESTONE OVER 5" No. 53 CRUSHED/RECYCLED CONCRETE	(L1)	4", DOUBLE, THERMOPLASTIC, YELLOW (GROOVED)	(A)	ARROW, THERMOPLASTIC, WHITE
(45)	3" No. 73 LIMESTONE DRIVE	(L2)	4", SINGLE, THERMOPLASTIC, WHITE (GROOVED)	(M)	RELOCATE/ADJUST MAILBOX
(63)	ADJUST CASTING	(L3)	4", SKIP, THERMOPLASTIC, YELLOW (GROOVED)		

BENCHMARK TBM "5"

SQUARE CUT IN NORTH SIDE OF CONCRETE LIGHT BASE POLE BASE
ELEVATION 809.21 FEET NGVD88.

ELEV. = 809.21



PROFILE - S. 15TH STREET - STA. 10+00 TO STA. 12+52.91

SCALE 1" = 20' H, 5' V

REV.	DESCRIPTION	BY	DATE
1	REVISED DINSER THICKNESS FROM 3" TO 2 1/2" ON P&P LEGEND	DKS	12/30/2020

DUSTIN K. SAILOR — NO. 10200087 — STATE OF INDIANA — REGISTERED PROFESSIONAL ENGINEER

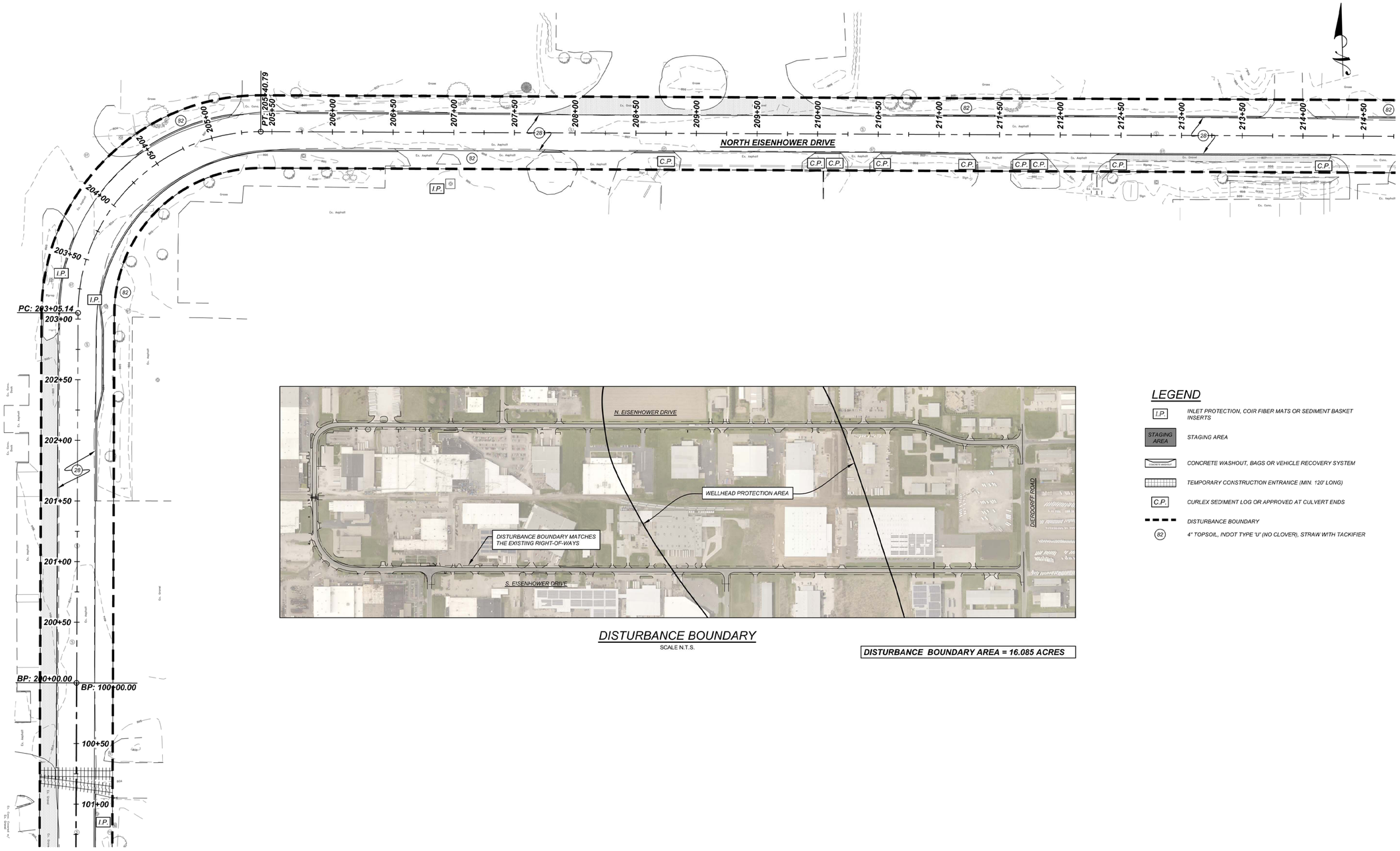
The City Of Goshen
Department of Public Works & Safety
Office of Engineering
204 East Jefferson Street, Goshen, Indiana 46528
Phone: 574-534-2201 Fax: 574-533-8626

Eisenhower Drive North & South Pavement Replacement

S. 15TH STREET PLAN & PROFILE
STA. 10+00 TO STA. 12+52.91

Project Number:	2020-0013
Designed By: J. Hoffman	Approved By: D. Sailor, P.E.
Drafted By: J. Hoffman	Date: 11/19/2020
Scale:	1" = 20' H, 5' V

X-2517-31



DISTURBANCE BOUNDARY

SCALE N.T.S.

DISTURBANCE BOUNDARY AREA = 16.085 ACRES

LEGEND

- I.P. — INLET PROTECTION, COIR FIBER MATS OR SEDIMENT BASKET INSERTS
- STAGING AREA — STAGING AREA
- CONCRETE WASHOUT — CONCRETE WASHOUT, BAGS OR VEHICLE RECOVERY SYSTEM
- TEMPORARY CONSTRUCTION ENTRANCE (MIN. 120' LONG)
- C.P. — CURLEX SEDIMENT LOG OR APPROVED AT CULVERT ENDS
- DISTURBANCE BOUNDARY
- (82) — 4" TOPSOIL, INDOT TYPE 'U' (NO CLOVER), STRAW WITH TACKIFIER

N. EISENHOWER DR. - STA. 200+00 TO STA. 215+00

SCALE 1" = 40'

REV.	DESCRIPTION	BY	DATE

JUSTIN K. SAILOR — REGISTERED NO. 10200087 STATE OF INDIANA PROFESSIONAL ENGINEER — 11/19/2020

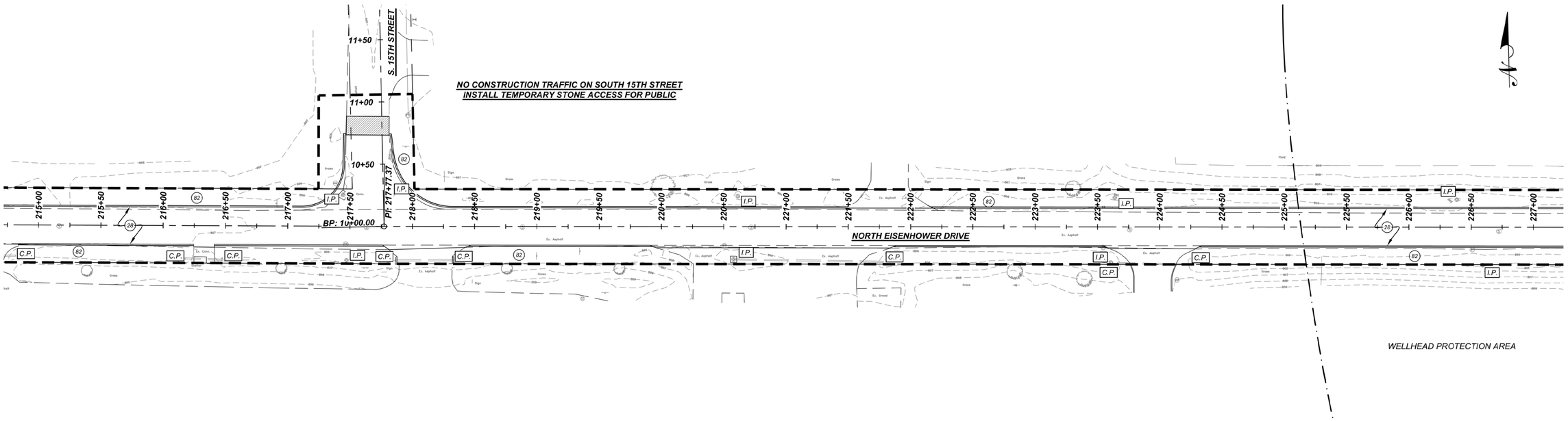
The City Of Goshen
Department of Public Works & Safety
Office of Engineering
204 East Jefferson Street, Goshen, Indiana 46528
Phone: 574-534-2201 Fax: 574-533-8626

Eisenhower Drive North & South Pavement Replacement

Erosion Control Measures

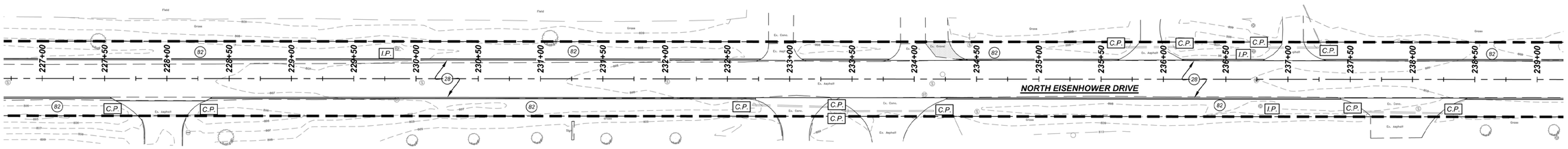
Project Number:	2020-0013
Designed By: J. Hoffman	Approved By: D. Sailor, P.E.
Drafted By: J. Hoffman	Date: 11/19/2020
Scale:	Not To Scale

X-2517-32



N. EISENHOWER DR. - STA. 215+00 TO STA. 227+00

SCALE 1" = 40'



N. EISENHOWER DR. - STA. 227+00 TO STA. 239+00

SCALE 1" = 40'

DISTURBANCE BOUNDARY AREA = 16.085 ACRES

LEGEND

- I.P. — INLET PROTECTION, COIR FIBER MATS OR SEDIMENT BASKET INSERTS
- STAGING AREA — STAGING AREA
- CONCRETE WASHOUT — CONCRETE WASHOUT, BAGS OR VEHICLE RECOVERY SYSTEM
- TEMPORARY CONSTRUCTION ENTRANCE (MIN. 120' LONG)
- C.P. — CURLEX SEDIMENT LOG OR APPROVED AT CULVERT ENDS
- DISTURBANCE BOUNDARY
- 82 — 4" TOPSOIL, INDOT TYPE 'U' (NO CLOVER), STRAW WITH TACKIFIER

REV.	DESCRIPTION	BY	DATE

DUSTIN K. SAILOR — REGISTERED NO. 10200087 STATE OF INDIANA PROFESSIONAL ENGINEER — 11/19/2020

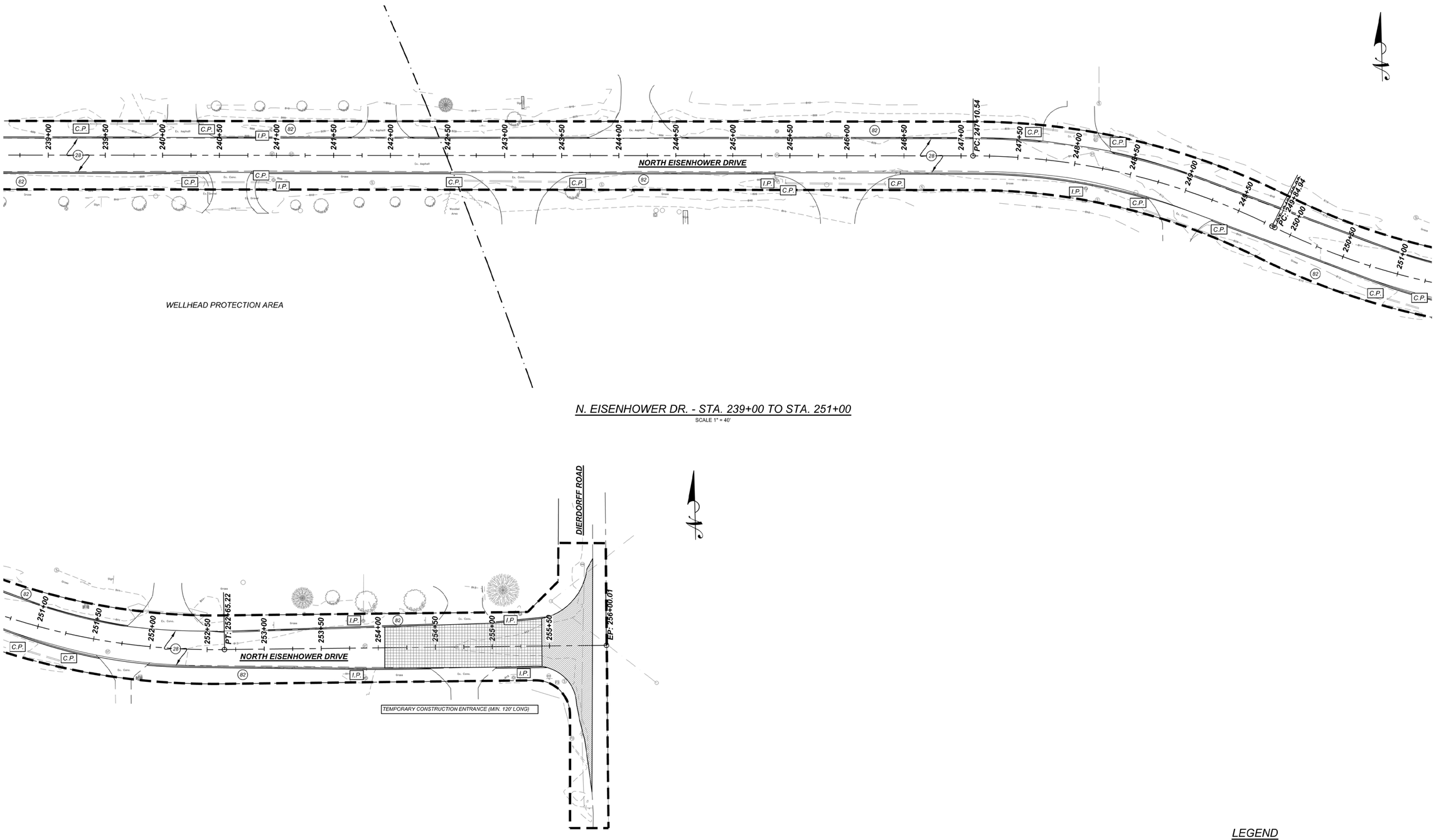
The City Of Goshen
Department of Public Works & Safety
Office of Engineering
204 East Jefferson Street, Goshen, Indiana 46528
Phone: 574-534-2201 Fax: 574-533-8626

Eisenhower Drive North & South Pavement Replacement

Erosion Control Measures

Project Number:	2020-0013
Designed By: J. Hoffman	Approved By: D. Sailor, P.E.
Drafted By: J. Hoffman	Date: 11/19/2020
Scale:	Not To Scale

X-2517-33



N. EISENHOWER DR. - STA. 239+00 TO STA. 251+00

SCALE 1" = 40'

N. EISENHOWER DR. - STA. 251+00 TO STA. 265+00.01

SCALE 1" = 40'

DISTURBANCE BOUNDARY AREA = 16.085 ACRES

LEGEND

- I.P. — INLET PROTECTION, COIR FIBER MATS OR SEDIMENT BASKET INSERTS
- STAGING AREA — STAGING AREA
- CONCRETE WASHOUT — CONCRETE WASHOUT, BAGS OR VEHICLE RECOVERY SYSTEM
- TEMPORARY CONSTRUCTION ENTRANCE (MIN. 120' LONG)
- C.P. — CURLEX SEDIMENT LOG OR APPROVED AT CULVERT ENDS
- DISTURBANCE BOUNDARY
- 82 — 4" TOPSOIL, INDOT TYPE 'U' (NO CLOVER), STRAW WITH TACKIFIER

REV.	DESCRIPTION	BY	DATE

JUSTIN K. SAILOR — REGISTERED NO. 10200087 STATE OF INDIANA — PROFESSIONAL ENGINEER — 11/19/2020

The City Of Goshen
Department of Public Works & Safety
Office of Engineering
204 East Jefferson Street, Goshen, Indiana 46528
Phone: 574-534-2201 Fax: 574-533-8626

Eisenhower Drive North & South Pavement Replacement

Erosion Control Measures

Project Number:	2020-0013
Designed By: J. Hoffman	Approved By: D. Sailor, P.E.
Drafted By: J. Hoffman	Date: 11/19/2020
Scale:	Not To Scale

X-2517-34

Eisenhower Drive North & South
Pavement Replacement

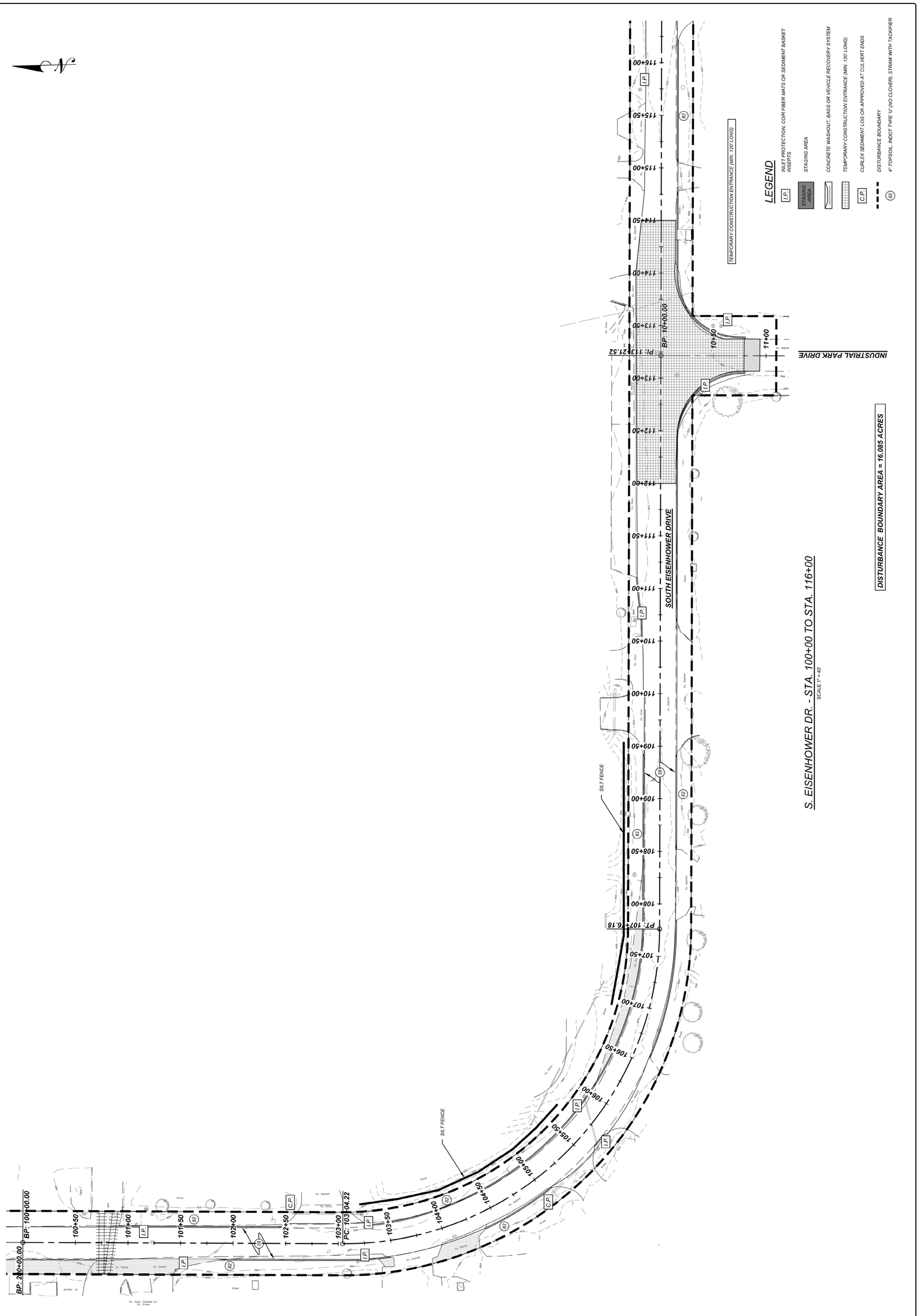
Roadway and Railroad Markings/Signs Details

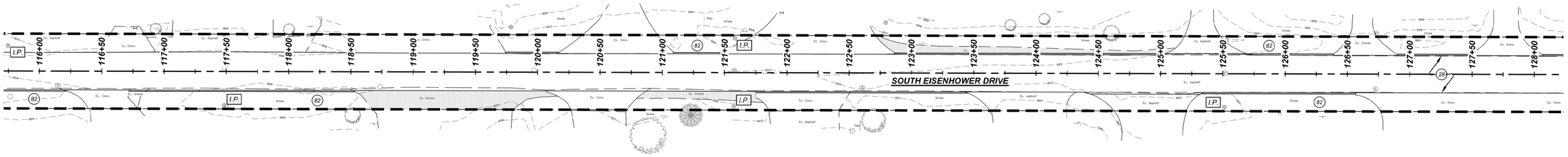
Project Number: 2020-0013		
Designed By: J. Hoffman	Approved By: D. Sailor, P.E.	
Drafted By: J. Hoffman	Date: 11/19/2020	
Scale: Not To Scale		X-2517-35

The City Of Goshen
Department of Public Works & Safety
Office of Engineering
204 East Jefferson Street, Goshen, Indiana 46528
Phone: 574-534-2201 Fax: 574-533-8626

DUSTIN K. SAILOR — REGISTERED — NO 10200087 — STATE OF INDIANA — PROFESSIONAL ENGINEER

REV.	DESCRIPTION	BY	DATE

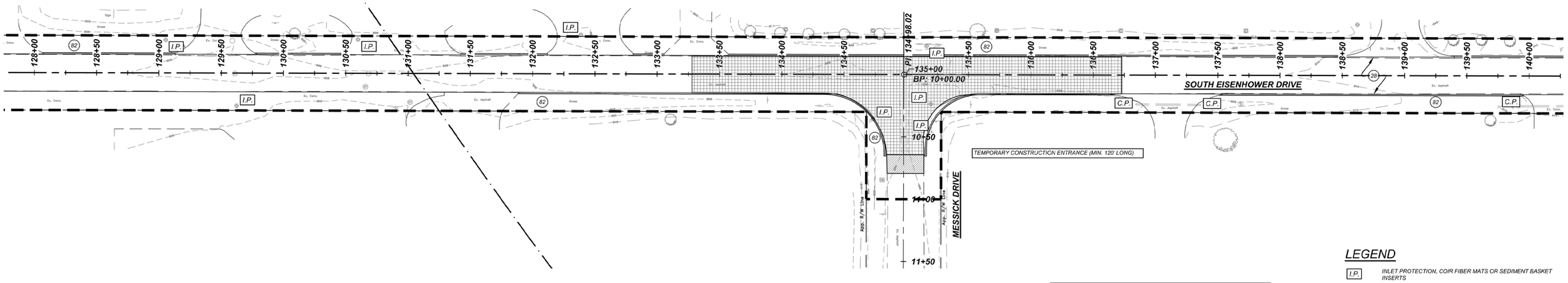




S. EISENHOWER DR. - STA. 116+00 TO STA. 128+00

SCALE 1" = 40'

WELLHEAD PROTECTION AREA



S. EISENHOWER DR. - STA. 128+00 TO STA. 140+00

SCALE 1" = 40'

DISTURBANCE BOUNDARY AREA = 16.085 ACRES

LEGEND

- I.P. — *INLET PROTECTION, COIR FIBER MATS OR SEDIMENT BASKET INSERTS*
- STAGING AREA — *STAGING AREA*
- CONCRETE WASHOUT — *CONCRETE WASHOUT, BAGS OR VEHICLE RECOVERY SYSTEM*
- *TEMPORARY CONSTRUCTION ENTRANCE (MIN. 120' LONG)*
- C.P. — *CURLEX SEDIMENT LOG OR APPROVED AT CULVERT ENDS*
- *DISTURBANCE BOUNDARY*
- 82 — *4" TOPSOIL, INDOT TYPE 'U' (NO CLOVER), STRAW WITH TACKIFIER*

REV.	DESCRIPTION	BY	DATE

JUSTIN K. SAILOR — REGISTERED — NO. 10200087 — STATE OF INDIANA — PROFESSIONAL ENGINEER

11/19/2020

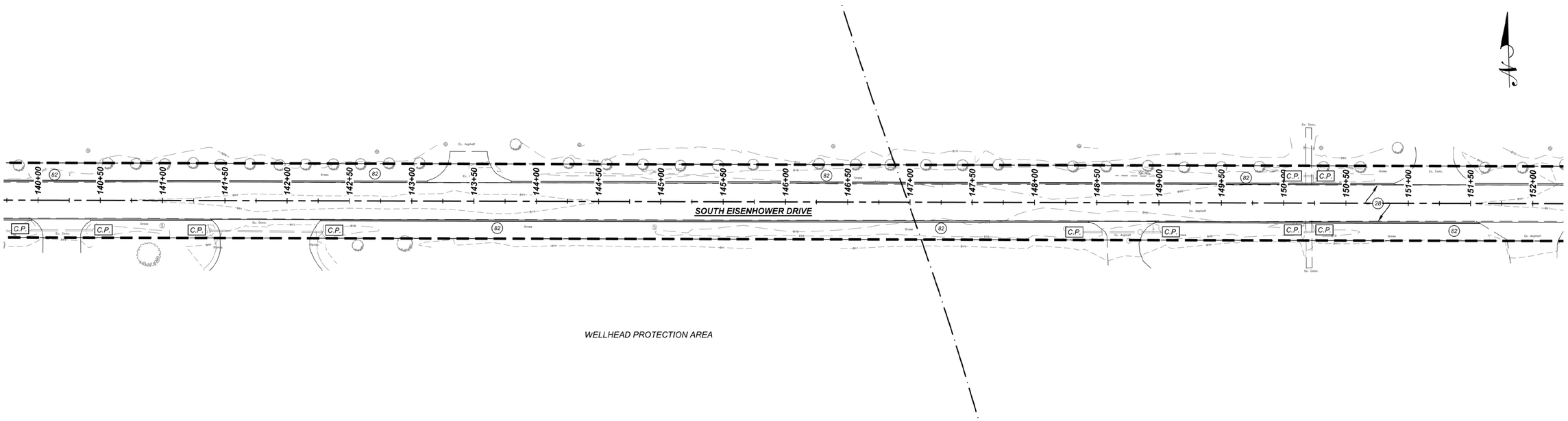
The City Of Goshen
Department of Public Works & Safety
Office of Engineering
204 East Jefferson Street, Goshen, Indiana 46528
Phone: 574-534-2201 Fax: 574-533-8626

Eisenhower Drive North & South Pavement Replacement

Erosion Control Measures

Project Number:	2020-0013
Designed By: J. Hoffman	Approved By: D. Sailor, P.E.
Drafted By: J. Hoffman	Date: 11/19/2020
Scale:	Not To Scale

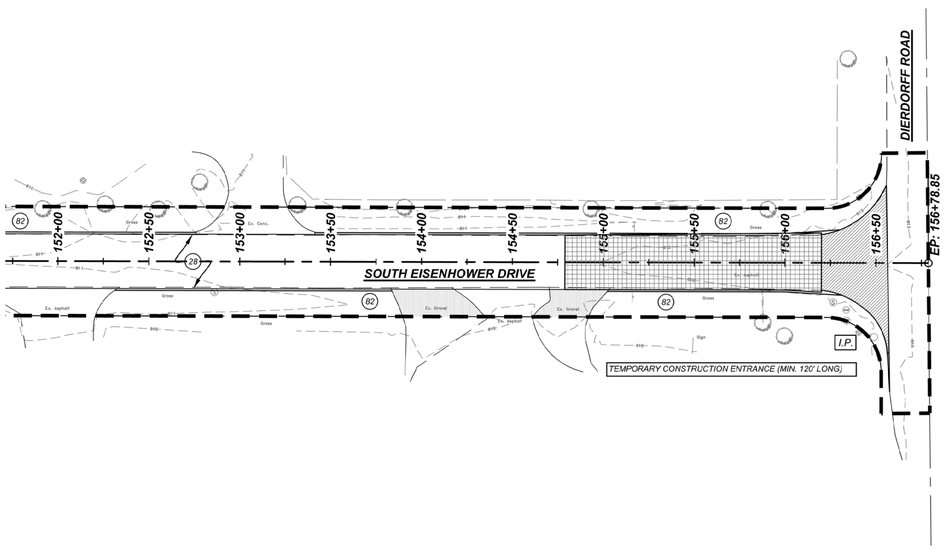
X-2517-36



WELLHEAD PROTECTION AREA

S. EISENHOWER DR. - STA. 140+00 TO STA. 152+00

SCALE 1" = 40'



S. EISENHOWER DR. - STA. 152+00 TO STA. 156+78.85

SCALE 1" = 40'

DISTURBANCE BOUNDARY AREA = 16.085 ACRES

LEGEND

- I.P. — INLET PROTECTION, COIR FIBER MATS OR SEDIMENT BASKET INSERTS
- STAGING AREA — STAGING AREA
- CONCRETE WASHOUT — CONCRETE WASHOUT, BAGS OR VEHICLE RECOVERY SYSTEM
- TEMPORARY CONSTRUCTION ENTRANCE (MIN. 120' LONG)
- C.P. — CURLEX SEDIMENT LOG OR APPROVED AT CULVERT ENDS
- DISTURBANCE BOUNDARY
- 82 — 4" TOPSOIL, INDOT TYPE 'U' (NO CLOVER), STRAW WITH TACKIFIER

REV.	DESCRIPTION	BY	DATE

JUSTIN K. SAILOR — REGISTERED — NO. 10200087 — STATE OF INDIANA — PROFESSIONAL ENGINEER — 11/19/2020

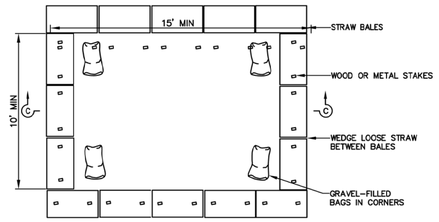
The City Of Goshen
Department of Public Works & Safety
Office of Engineering
204 East Jefferson Street, Goshen, Indiana 46528
Phone: 574-534-2201 Fax: 574-533-8626

Eisenhower Drive North & South Pavement Replacement

Erosion Control Measures

Project Number:	2020-0013
Designed By: J. Hoffman	Approved By: D. Sailor, P.E.
Drafted By: J. Hoffman	Date: 11/19/2020
Scale:	Not To Scale

X-2517-37

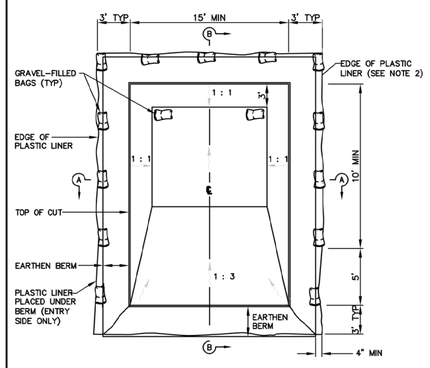


PLAN – TEMPORARY CONCRETE WASHOUT FACILITY (ON GRADE)

NOT TO SCALE

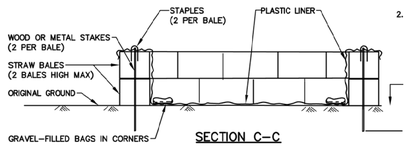
NOTES

1. CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE.
2. VEHICLE TRACKING CONTROL IS REQUIRED IF ACCESS TO CONCRETE WASHOUT AREA IS OFF PAVEMENT.
3. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE WASHOUT AREA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT AREA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
4. THE CONCRETE WASHOUT AREA SHALL BE REPAIRED AND ENLARGED OR CLEANED OUT AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE.
5. AT THE END OF CONSTRUCTION, ALL CONCRETE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN ACCEPTED WASTE SITE.
6. WHEN THE CONCRETE WASHOUT AREA IS REMOVED, THE DISTURBED AREA SHALL BE SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER ACCEPTED BY THE CITY.

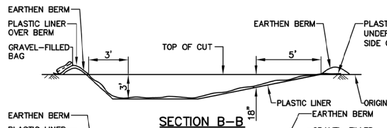


PLAN–TEMPORARY CONCRETE WASHOUT FACILITY (BELOW GRADE)

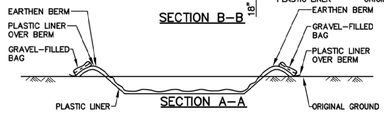
NOT TO SCALE



SECTION C–C



SECTION B–B



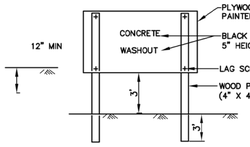
SECTION A–A

TEMPORARY CONCRETE WASHOUT FACILITY

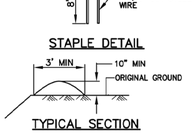
NOT TO SCALE

NOTE:

1. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 20 FEET OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
2. PLASTIC LINER SHALL BE ANCHORED WITH GRAVEL–FILLED BAGS FOR BELOW GRADE CONCRETE WASHOUT FACILITY.



CONCRETE WASHOUT SIGN DETAIL



STAPLE DETAIL

TYPICAL SECTION EARTHEN BERM

EROSION CONTROL SPECIFICATIONS

1. THE CONTRACTOR IS ADVISED THAT THE WORK MUST BE DONE IN COMPLIANCE WITH THE FOLLOWING SPECIFICATIONS.
2. CONTRACTOR SHALL INSPECT ALL EROSION AND SEDIMENT CONTROL PRACTICES WEEKLY AND AFTER STORM EVENTS OF 1/2" OR MORE OF PRECIPITATION WITHIN ONE BUSINESS DAY OR AFTER HEAVY USE AND REPAIR IMMEDIATELY.
3. THE CONTRACTOR SHALL KEEP A LOG OF THE CONTRACTOR'S INSPECTION OF TEMPORARY EROSION CONTROL MEASURES. THE LOG SHALL BE AVAILABLE AT THE JOB SITE FIELD OFFICE DURING ALL WORK DAY HOURS FOR REVIEW BY VISITING IDEM INSPECTORS, SWCD INSPECTORS AND THE ENGINEER. THE LOG SHALL BE BRIEF, BUT SHALL INCLUDE THE NAME OF CONTRACTOR'S INSPECTOR, DATE OF INSPECTION, MAN HOURS OF CONTRACTOR'S INSPECTION TIME AND COMMENTS ON ANY AND ALL FAILED OR FAILING EROSION CONTROL FEATURES ALONG WITH THE MEASURES TAKEN FOR PROMPT CORRECTION.
4. CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN ALL EROSION AND SEDIMENTATION CONTROL PRACTICES UNTIL COMPLETION OF PROJECT AND ACCEPTANCE OF THE NOTICE OF TERMINATION APPLICATION.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING AND COORDINATING WITH UTILITIES WITH RESPECT TO AVOIDING CONFLICTS AND DISTURBANCE OF SERVICES.
6. THE CONTRACTOR SHALL HAVE ON FILE, AT THE SITE, THE "INDIANA STORMWATER QUALITY MANUAL." LINK: https://www.in.gov/idem/stormwater/2363.htm
7. CONTRACTOR SHALL STRIP AND STOCKPILE TOPSOIL AND REMOVE EXCESS FROM SITE AS APPROVED BY THE OWNER UPON SUBSTANTIAL COMPLETION OF THE WORK.
8. TOPSOIL STOCKPILES ARE TO BE PROTECTED FROM EROSION. TEMPORARY TOPSOIL STOCKPILES WILL ONLY BE PERMITTED IN AREAS APPROVED BY THE ENGINEER.
9. STOCKPILES OF EARTH MATERIAL SHALL BE SHAPED AS PER STATE STANDARDS. TOPSOIL MATERIALS SHALL BE STOCKPILED SEPARATELY FROM OTHER SOILS.
10. CONTRACTOR SHALL CONTROL DUST ON THE PROJECT SITE WHEN NECESSARY USING METHODS WHICH COMPLY WITH PAGE 239 OF THE "INDIANA STORMWATER QUALITY MANUAL."
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL AND CONTAINING OF LIQUID OR SOLUBLE CONSTRUCTION MATERIALS FOR THE PROTECTION OF THE GROUNDWATER RESOURCE. ANY ACCIDENTAL SPILLAGE SHALL BE CLEANED UP IMMEDIATELY BY ACCEPTABLE MEANS, REGARDLESS OF THE TIME OF DAY OR DAY OF WEEK.
12. THE CONTRACTOR'S BID SHALL INCLUDE THE USE OF TEMPORARY GRAVEL ENTRANCE PADS (INCIDENTAL TO THE CONTRACT) WHERE APPROVED HAULING ROUTES CONNECT TO ROADWAYS. THE WORK SHALL INCLUDE THE EVENTUAL REMOVAL OF SUCH GRAVEL PADS, AND THE INCIDENTAL GRADING, SEEDING, OR SODDING REQUIRED TO RETURN THE PAD AREAS TO ORIGINAL CONDITION. THE TEMPORARY GRAVEL PADS SHALL HAVE A MINIMUM 6–INCH THICK APPLICATION OF 2–INCH TO 3–INCH COARSE AGGREGATE AT A MINIMUM 20 FEET WIDE AND 150 FEET LONG, WITH SUFFICIENT RADII AT THE ROADWAY. GEOTEXTILE FOR STABILIZATION BELOW THE GRAVEL PADS SHALL BE INCLUDED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROMPTLY CLEANING UP ANY MATERIALS FROM PUBLIC ROADWAYS, WHICH ARE THE RESULT OF WORK OPERATIONS.
13. THE ENTERING AND EXITING OF EQUIPMENT AND HAULING TRAFFIC FROM THE WORK SITE SHALL BE DONE IN A SAFE MANNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT EQUIPMENT OPERATORS AND HAUL TRUCK DRIVERS, ETC., USE CAUTION AND ACCEPTABLE SPEEDS DURING THE WORK.
14. CONTRACTOR SHALL CONSTRUCT TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT PADS PRIOR TO OTHER SITE OPERATIONS. REMOVE ALL VEGETATION AND OTHER OBJECTIONABLE MATERIAL FROM THE FOUNDATION AREA AND GRADE AND CROWN FOR POSITIVE DRAINAGE. CONSTRUCTION SHALL BE IN COMPLIANCE WITH PAGE 17 OF THE "INDIANA STORMWATER QUALITY MANUAL."
15. CONTRACTOR SHALL PERMANENTLY SEED, FERTILIZE, AND MULCH OR BLANKET ALL FINAL GRADE AREAS AS EACH IS COMPLETED. SEEDING, FERTILIZING, MULCHING AND BLANKETING SHALL BE IN COMPLIANCE WITH PAGE 35 OF THE "INDIANA STORMWATER QUALITY MANUAL."
16. TEMPORARY GRASS SEEDING SHALL BE PERFORMED ON ALL AREAS SCHEDULED, OR LIKELY, TO REMAIN INACTIVE FOR A PERIOD OF 15 DAYS OR MORE. TEMPORARY SEEDING SHALL BE INCIDENTAL TO THE CONTRACT AND SHALL INCLUDE THE FOLLOWING SPECIES AND RATES:

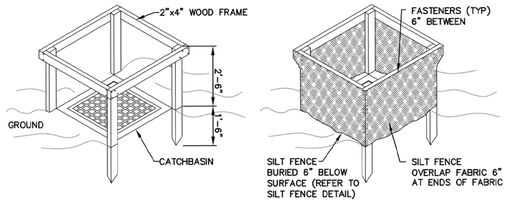
SPECIES	RATE/ACRE	OPTIMUM PLANTING
WHEAT OR RYE	150#	9/15 TO 10/30
SPRING OATS	100#	3/1 TO 4/15
ANNUAL RYE GRASS	40#	3/1 TO 5/1, 8/1 TO 9/1

A FERTILIZER APPLICATION OF 400# / ACRE OF 12–12–12 ANALYSES MATERIAL SHALL ACCOMPANY THE SEEDING APPLICATION. MULCHING OF TEMPORARY SEEDING SHALL BE 'AS NEEDED'.

17. PERMANENT SEEDING SHALL BE DONE PROMPTLY AND PROGRESSIVELY AS WORK IS COMPLETED IN ORDER TO ALLOW FOR THE EARLIEST POSSIBLE ESTABLISHMENT OF STABILIZED GRASS. MULTIPLE MOBILIZATIONS FOR THE SEEDING OF SPECIFIC SECTIONS SHALL BE INCLUDED IN THE WORK.
18. THE JOB WIDE SEQUENCE OF GENERAL WORK OPERATIONS RELATING TO EARTH DISTURBING ACTIVITIES SHALL BE SUCH AS TO PREVENT THE POTENTIAL FOR EROSION AND SEDIMENTATION. THE SEQUENCE SHALL BE GENERALLY AS FOLLOWS, WHILE ALSO CONSIDERING MAINTENANCE OF TRAFFIC.

A. PLACEMENT OF EROSION CONTROL PRODUCTS
B. SITE CLEARING
C. TEMPORARY SEEDING AS NEEDED – INCIDENTAL APPLICATIONS THROUGHOUT CONSTRUCTION
D. UNDERGROUND CONSTRUCTION
E. ROUGH GRADING / FINE GRADING
F. COMPLETION OF PERMANENT SEEDING & MULCH
G. INSTALLATION OF EROSION CONTROL BLANKETS ON SLOPES
H. MISCELLANEOUS CONSTRUCTION
I. FINAL CLEANUP

21. TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IMPLEMENTED AT THE TIME OF SITE CLEARING AS EARLY IN THE ABOVE SEQUENCE AS NEEDED, AND SHALL BE MAINTAINED THROUGHOUT THE SEQUENCE AS NEEDED. DURING THE COURSE OF WORK, CLEANUP SHALL BE DONE AS NEEDED AND AS DIRECTED TO AVOID EROSION AND SEDIMENTATION. ANY PLANNED RIPRAP SHALL BE INSTALLED AS SOON AS POSSIBLE FOR EROSION & SEDIMENTATION CONTROL.
22. THE EROSION AND SEDIMENTATION CONTROL MEASURES AS SHOWN SHALL BE CONSIDERED A MINIMUM APPLICATION AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING EROSION AND SEDIMENTATION CONTROL BEST MANAGEMENT PRACTICES AS NEEDED THROUGHOUT THE CONSTRUCTION.
23. CONTRACTOR SHALL LOCATE AND MAINTAIN A CONCRETE WASHOUT AREA FOR THE DURATION OF CONCRETE POURING ACTIVITIES. THE CONTRACTOR SHALL REMOVE ALL DRIED CONCRETE FROM THE WASHOUT AREA BY THE END OF THE PROJECT.
24. SEE PAGE XX OF THE PROJECT SPECIFICATIONS FOR DEWATERING REQUIREMENTS.



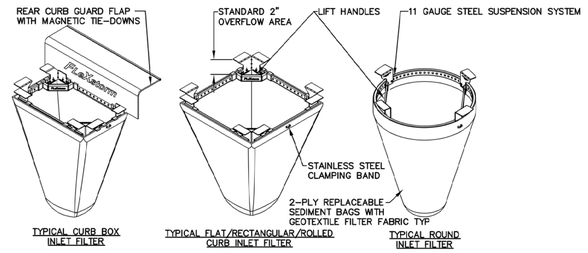
THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPE NO GREATER THAN 5%). WHERE THE INLET ACCEPTS SHEET OR OVERLAND FLOW (NOT GREATER THAN 1 CFS) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS.

INSPECTION SCHEDULE SHALL COMPLY WITH THE 2008 EPA CONSTRUCTION GENERAL PERMIT.

MAINTENANCE SHALL OCCUR WHEN NECESSARY. SILT FENCE SHALL BE REPLACE EVERY 6 MONTHS AND STACKS SHALL BE INSPECTED TO ENSURE STRUCTURAL INTEGRITY.

CATCH BASIN W/ SILT FENCE INLET PROTECTION

NOT TO SCALE



INSTALLATION:
1.) REMOVE GRATE
2.) DROP FLEXSTORM INLET FILTER ONTO LOAD BEARING LIP OF CASTING OR CONCRETE STRUCTURE
3.) REPLACE GRATE

MANUFACTURER:
INLET & PIPE PROTECTION, INC.
24137 111TH ST
NAPERVILLE, IL
WWW.INLETFILTERS.COM
PHONE 630–355–3288

CATCH BASIN W/ SEDIMENT BASKET PROTECTION

NOT TO SCALE

FIBER ROLL INSTALLATION:

WHEN INSTALLING RUNNING LENGTHS OF WATTLES, BUTT THE SECOND WATTLE TIGHTLY AGAINST THE FIRST, DO NOT OVERLAP THE ENDS. STAKE THE WATTLES AT EACH END AND FOUR FOOT ON CENTER. FOR EXAMPLE:

A 25 FOOT WATTLE USES 6 STAKES
A 20 FOOT WATTLE USES 5 STAKES
A 12 FOOT WATTLE USES 4 STAKES

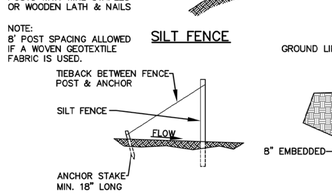
STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE WATTLE. LEAVING 2 – 3 INCHES OF THE STAKE PROTRUDING ABOVE THE WATTLE. A HEAVY SEDIMENT LOAD WILL TEND TO PICK THE WATTLE UP AND COULD PULL IT OFF THE STAKES IF THEY ARE DRIVEN DOWN TOO LOW. IT MAY BE NECESSARY TO MAKE A HOLE IN THE WATTLE WITH A PICK END OF YOUR MADDOX IN ORDER TO GET THE STAKE THROUGH THE STRAW. WHEN STRAW WATTLES ARE USED FOR FLAT GROUND APPLICATIONS, DRIVE THE STAKES STRAIGHT DOWN; WHEN INSTALLING WATTLES ON SLOPES, DRIVE THE STAKES PERPENDICULAR TO THE SLOPE.

DRIVE THE FIRST END STAKE OF THE SECOND WATTLE AT AN ANGLE TOWARD THE FIRST WATTLE IN ORDER TO HELP ABUT THEM TIGHTLY TOGETHER. IF YOU HAVE DIFFICULTY DRIVING THE STAKE INTO EXTREMELY HARD OR ROCKY SLOPES, A PILOT BAR MAY BE NEEDED TO BEGIN THE STAKE HOLE.

1. THE LOCATION AND LENGTH OF WATTLE IS DEPENDENT ON THE CONDITIONS OF EACH SITE.
2. WATTLES SHALL BE INSTALLED PRIOR TO ANY LAND–DISTURBING ACTIVITIES.
3. WATTLES SHALL CONSIST OF STRAW, COMPOST, EXCELSIOR, OR COCONUT FIBER.
4. NOT FOR USE IN CONCENTRATED FLOW AREAS.
5. THE WATTLES SHALL BE TRENCHED INTO THE GROUND A MINIMUM OF TWO (2) INCHES.
6. WATTLES SHALL BE INSTALLED PER MANUFACTURERS SPECIFICATIONS.
7. ON SLOPES, WATTLES SHOULD BE INSTALLED ON CONTOUR WITH A SLIGHT DOWNWARD ANGLE AT THE END OF THE ROW IN ORDER TO PREVENT PONDING AT THE MID SECTION.
8. RUNNING LENGTHS OF WATTLES SHOULD BE ABUTTED FIRMLY TO ENSURE NO LEAKAGE AT THE ABUTMENTS.
9. SPACING – DOWNSLOPE:
   VERTICAL SPACING FOR SLOPE INSTALLATIONS SHOULD BE DETERMINED BY SITE CONDITIONS. SLOPE GRADIENT AND SOIL TYPE ARE THE MAIN FACTORS. A GOOD RULE OF THUMB IS:

   1:1 SLOPES = 10 FEET APART
   2:1 SLOPES = 20 FEET APART
   3:1 SLOPES = 30 FEET APART
   4:1 SLOPES = 40 FEET APART, ETC.

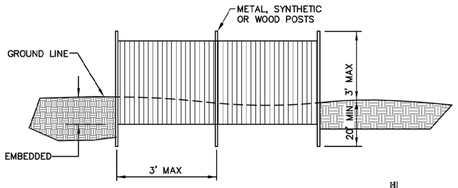
   HOWEVER, ADJUSTMENTS MAY HAVE TO BE MADE FOR THE SOIL TYPE: FOR SOFT, LOAMY SOILS – ADJUST THE ROWS CLOSER TOGETHER; FOR HARD, ROCKY SOILS – ADJUST THE ROWS FURTHER APART. A SECONDARY WATTLE PLACED BEHIND THE ABUTMENT OF TWO WATTLES IS ENCOURAGED ON STEEP SLOPES OR WHERE JOINTS HAVE FAILED IN THE PAST.
10. STAKING: THE CITY RECOMMENDS USING WOOD STAKES TO SECURE THE WATTLES. BE SURE TO USE A STAKE THAT IS LONG ENOUGH TO PROTRUDE SEVERAL INCHES ABOVE THE WATTLE. 18" IS A GOOD LENGTH FOR HARD, ROCKY SOIL. FOR SOFT LOAMY SOIL USE A 24" STAKE.

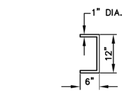


NOTE:
8' POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

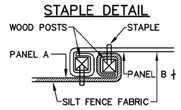
SILT FENCE

SILT FENCE TIE BACK
(WHEN ADDITIONAL SUPPORT REQUIRED)

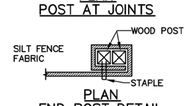




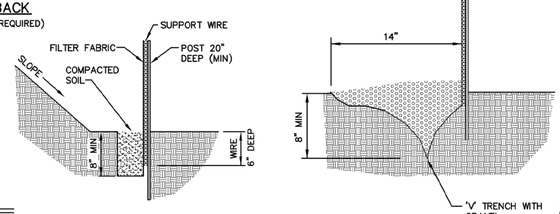
STAPLE DETAIL



PLAN
POST AT JOINTS



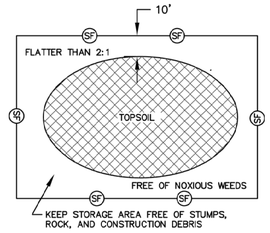
PLAN
END POST DETAIL



NOTES:
1. TRENCH SHALL BE A MINIMUM OF 4" WIDE AND 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL AND COMPACT TRENCH WITH EXCAVATED SOIL.
2. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1/8" X 1/8" OF OAK OR HICKORY.
3. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; AAT TWIST METHOD – OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEASE 180°, OR BY HOOK METHOD – HOOK THE END OF EACH SILT FENCE LENGTH.

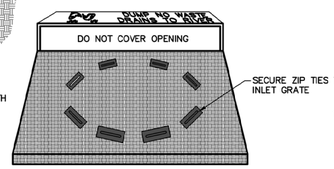
SILT FENCE – PERIMETER PROTECTION

NOT TO SCALE



TOPSOIL STOCKPILE

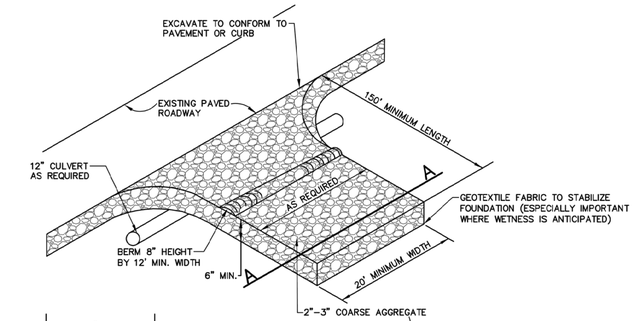
NOT TO SCALE

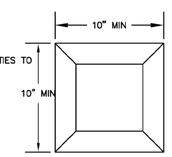


INLET FILTER MAINTENANCE:
INLET FILTER WILL COLLECT A LOT OF SEDIMENT. CLEAN INLET FILTER WHILE MOUNTED ON THE GRATE. EVEN IF PONDED WATER SURROUNDS THE INLET. THIS UNIQUE FEATURE ENSURES ALL WATER ENTERING THE GRATE IS FILTERED. SWEEP SIDES AND TOP OF INLET FILTER TO REMOVE SEDIMENT AND DEBRIS AFTER EACH RAIN EVENT.
1. REMOVE SEDIMENT FROM THE SIDES OF THE FILTER BY SWEEPING AWAY FROM INLET FILTER.
2. REMOVED SEDIMENT FROM THE TOP OF THE FILTER BY SWEEPING OFF OF INLET FILTER.
3. INLET FILTER IS READY FOR NEXT RAIN EVENT.

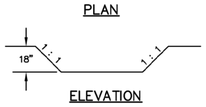
NATURAL FIBER INLET COVER

NOT TO SCALE



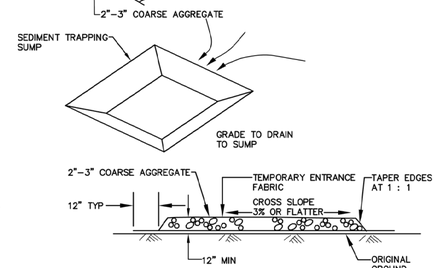


PLAN



ELEVATION

SEDIMENT TRAPPING SUMP



SECTION A–A

TEMPORARY GRAVEL ACCESS PAD

NOT TO SCALE

	DATE
	BY
	DESCRIPTION
	REV.

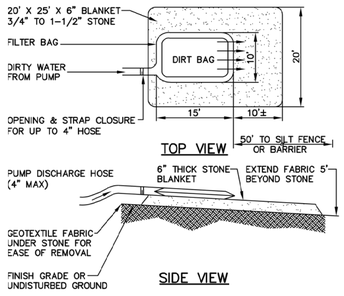
REGISTERED LANDSCAPE ARCHITECT
DUSTIN K. SAILOR
NO. 10200087
STATE OF INDIANA
PROFESSIONAL ENGINEER
11/19/2020

The City Of Goshen
Department of Public Works & Safety
Office of Engineering
204 East Jefferson Street, Goshen, Indiana 46528
Phone: 574-534-2201 Fax: 574-533-8626

Eisenhower Drive North & South
Pavement Replacement

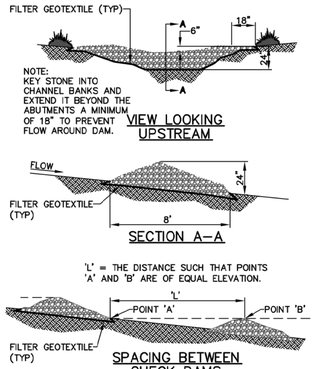
Erosion Control Measures

Project Number:	2020-0013
Designed By: J. Hoffman	Approved By: D. Sailor, P.E.
Drafted By: J. Hoffman	Date: 11/19/2020
Scale:	AS SHOWN
	X-2517-38

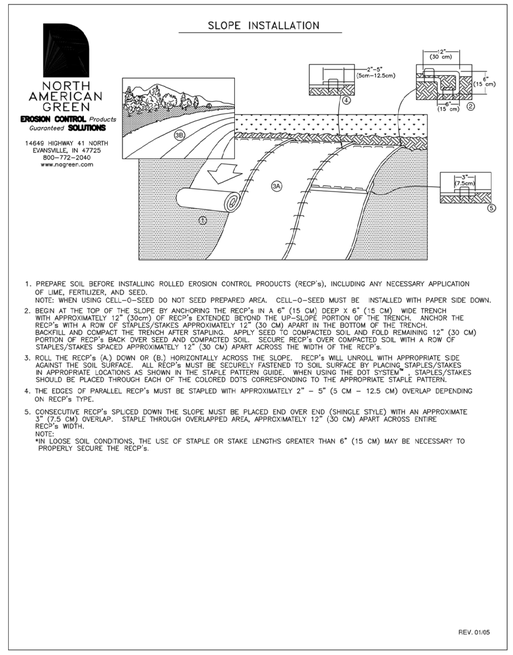


NOTES:
1. SEDIMENT BAG MATERIAL BASED ON PARTICLE SIZE IN DIRTY WATER, I.E., FOR COARSE PARTICLES A WOVEN MATERIAL; FOR SILTS/CLAYS A NON-WOVEN MATERIAL.
2. DO NOT OVER PRESSURIZED DIRT BAG OR USE BEYOND CAPACITY.
3. LOCATE DISCHARGE SITE ON FLAT UPLAND AREAS AS FAR AWAY AS POSSIBLE FROM STREAMS, WETLANDS, OTHER RESOURCES AND POINTS OF CONCENTRATED FLOW.
4. DISCHARGE NOT PERMITTED WITHIN 25' OF A STREAM OR WETLAND. IF STRUCTURE MUST BE WITHIN 75' OF STREAM OR WATER BODY. SECONDARY CONTAINMENT MAY BE REQUIRED.

PUMPED DISCHARGE SEDIMENT CONTROL DEVICE
NOT TO SCALE

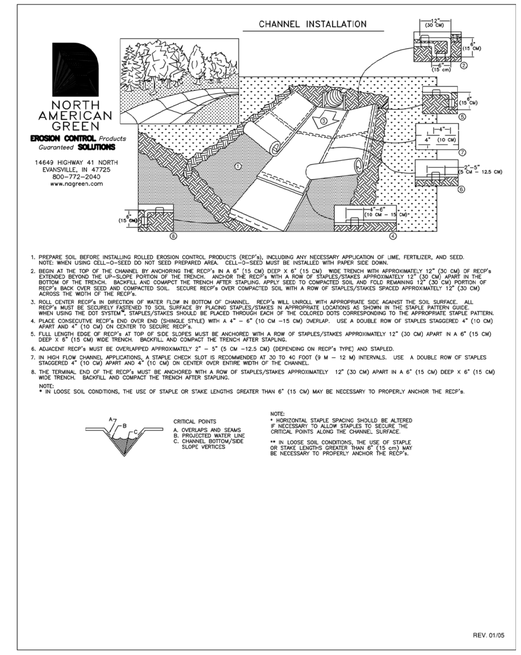


ROCK CHECK DAM
NOT TO SCALE



1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP's), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
   NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP's IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF RECP's EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP's WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP's BACK OVER SEED AND COMPACTED SOIL. SECURE RECP's OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE RECP's.
3. ROLL THE RECP's (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. RECP's WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP's MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM™, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL RECP's MUST BE STAPLED WITH APPROXIMATELY 2" – 5" (5 CM – 12.5 CM) OVERLAP DEPENDING ON RECP's TYPE.
5. CONSECUTIVE RECP's SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE RECP's WIDTH.
   NOTE:
   *IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE RECP's.

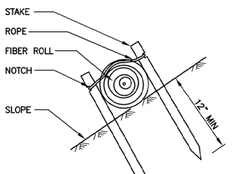
REV. 01/05

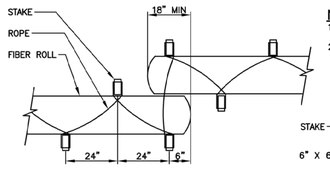


1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP's), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
   NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE RECP's IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30 CM) OF RECP's EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP's WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP's BACK OVER SEED AND COMPACTED SOIL. SECURE RECP's OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE RECP's.
3. ROLL CENTER RECP's IN DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL. RECP's WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP's MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM™, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. PLACE CONSECUTIVE RECP's END OVER END (SHINGLE STYLE) WITH A 4" – 6" (10 CM –15 CM) OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10 CM) APART AND 4" (10 CM) ON CENTER TO SECURE RECP's.
5. FULL LENGTH EDGE OF RECP's AT TOP OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
6. ADJACENT RECP's MUST BE OVERLAPPED APPROXIMATELY 2" – 5" (5 CM –12.5 CM) (DEPENDING ON RECP's TYPE) AND STAPLED.
7. IN HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT (9 M – 12 M) INTERVALS. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10 CM) APART AND 4" (10 CM) ON CENTER OVER ENTIRE WIDTH OF THE CHANNEL.
8. THE TERMINAL END OF THE RECP's MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
   NOTE:
   * IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY ANCHOR THE RECP's.

NOTE:
* HORIZONTAL STAPLE SPACING SHOULD BE ALTERED IF NECESSARY TO ALLOW STAPLES TO SECURE THE CRITICAL POINTS ALONG THE CHANNEL SURFACE.
** IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 cm) MAY BE NECESSARY TO PROPERLY ANCHOR THE RECP's.

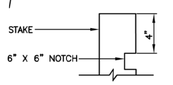
REV. 01/05

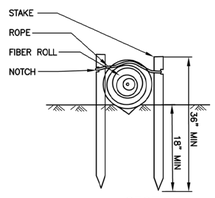


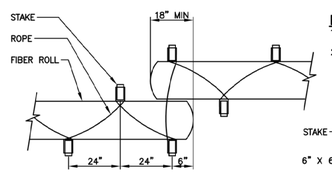


TEMPORARY FIBER ROLL (TYPE 2)

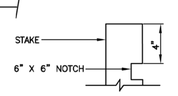
NOTE
1. TEMPORARY FIBER ROLL SPACING VARIES DEPENDING UPON SLOPE INCLINATION.
2. INSTALLATIONS SHOWN IN THE PERSPECTIVES ARE FOR SLOPE INCLINATION OF 1:10 AND STEEPER





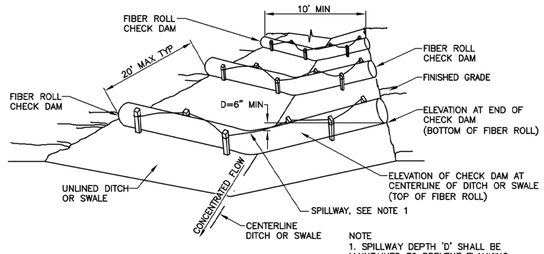


TEMPORARY FIBER ROLL (TYPE 2)



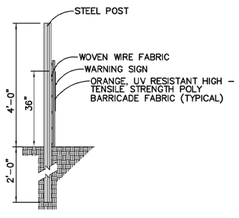
NOTE
1. TEMPORARY FIBER ROLL SPACING VARIES DEPENDING UPON SLOPE INCLINATION.
2. INSTALLATIONS SHOWN IN THE PERSPECTIVES ARE FOR SLOPE INCLINATION OF 1:10 AND STEEPER

WATTLE
NOT TO SCALE

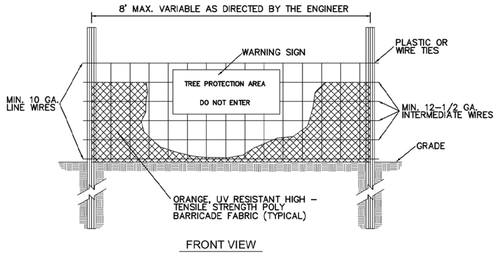


NOTE
1. SPILLWAY DEPTH 'D' SHALL BE MAINTAINED TO PREVENT FLANKING OF CONCENTRATED FLOW AROUND THE ENDS OF EACH CHECK DAM.

PERSPECTIVE TEMPORARY CHECK DAM (TYPE 2)
(TOTAL OF 3 CHECK DAM SHOWN)
NOT TO SCALE

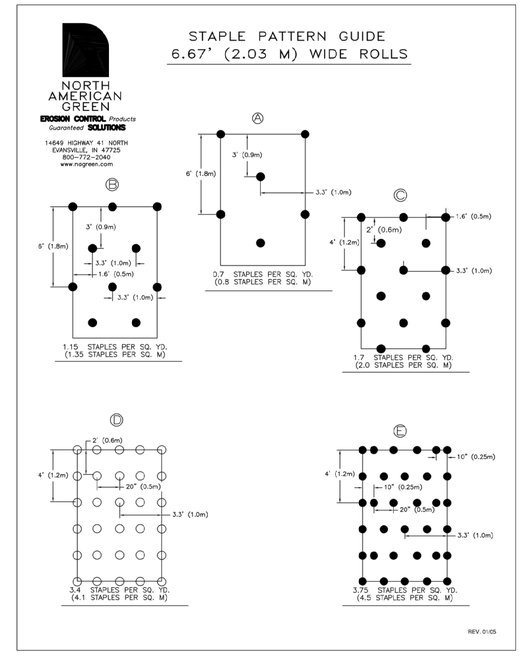


SIDE VIEW



FRONT VIEW

TREE PROTECTION DETAIL
NOT TO SCALE



The City Of Goshen
Department of Public Works & Safety
Office of Engineering
204 East Jefferson Street, Goshen, Indiana 46528
Phone: 574-534-2201 Fax: 574-533-8626

REGISTERED PROFESSIONAL ENGINEER
DUSTIN K. SAILOR
NO. 10200087
STATE OF INDIANA
11/19/2020

REV.	DESCRIPTION	BY	DATE

Eisenhower Drive North & South Pavement Replacement

Erosion Control Measures

Project Number:	2020-0013
Designed By: J. Hoffman	Approved By: D. Sailor, P.E.
Drafted By: J. Hoffman	Date: 11/19/2020
Scale:	AS SHOWN
	X-2517-39