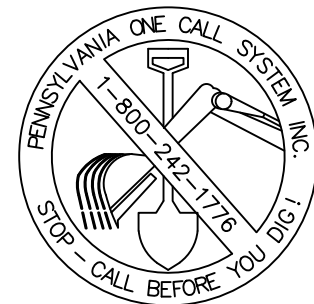


# STREET IMPROVEMENT PROJECT - S. NIXON

## CONTRACT 2024-C1

### FEBRUARY 20, 2024

REVISED PER ADDENDUM NO. 1 FEBRUARY 27, 2024



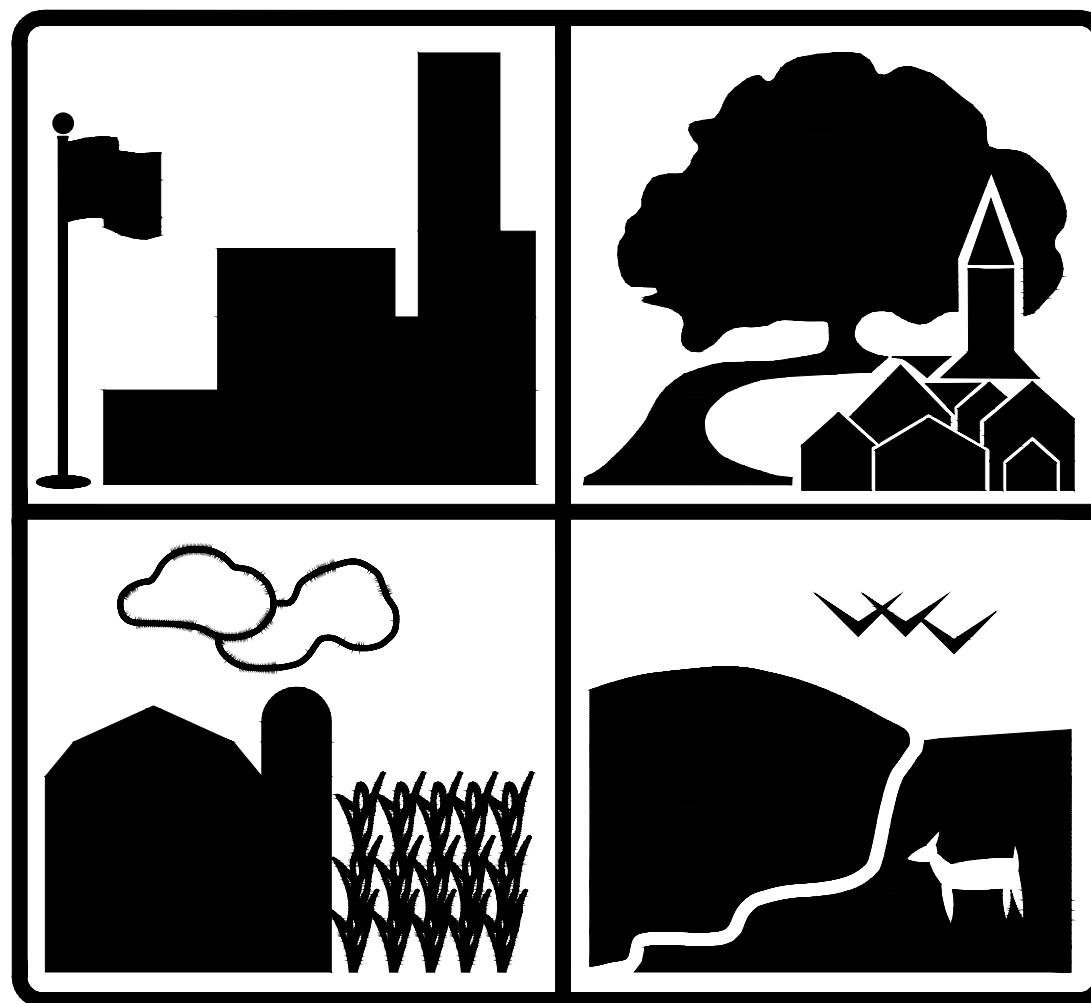
BEFORE YOU DIG ANYWHERE IN PENNSYLVANIA CALL 1-800-242-1776 NON-MEMBERS MUST BE CONTACTED DIRECTLY

**GENERAL UTILITY & ACT 38 INFORMATION:**

THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

CONTRACTOR SHALL NOTIFY THE PA. ONE CALL SYSTEM NOT LESS THAN THREE (3) DAYS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL PLACE THE CALL AND REFERENCE THE SERIAL NUMBER GIVEN AND PROVIDE AN APPROXIMATE DATE AND TIME THAT DIGGING WILL OCCUR. THE ONE CALL SYSTEM WILL AGAIN NOTIFY THE PUBLIC UTILITIES IN THE AREA. PUBLIC UTILITIES WILL THEN COORDINATE DIRECTLY WITH THE CONTRACTOR FOR ACTUAL FIELD LOCATIONS.  
PA. ONE CALL SYSTEM: PH: 1-800-242-1776  
SERIAL NO.: 20240180756

## FERGUSON TOWNSHIP



## PUBLIC WORKS & ENGINEERING

3147 RESEARCH DRIVE, STATE COLLEGE, PA 16801  
PH: 814-238-4651  
FAX: 814-238-3454  
WWW.TWP.FERGUSON.PA.US

DRAWING INDEX

- 1 COVER
- 2 GENERAL NOTES & PROJECT LOCATION
- 3 SUMMARY OF QUANTITIES
- 4 PLAN
- 5 PLAN
- 6 DETAILS

FERGUSON TOWNSHIP BOARD OF SUPERVISORS

LISA STRICKLAND	CHAIR
JEREMIE THOMPSON	VICE CHAIR
PATRICIA STEPHENS	BOARD MEMBER
OMARI PATTERSON	BOARD MEMBER
MATTHEW HELLER	BOARD MEMBER
CENTRICE MARTIN	SECRETARY, TOWNSHIP MANAGER

**SANITARY:** UNIVERSITY AREA JOINT AUTHORITY  
1576 SPRING VALLEY ROAD  
STATE COLLEGE, PA 16801  
PH: (814) 238-5361

**STORM:** FERGUSON TOWNSHIP  
3147 RESEARCH DRIVE  
STATE COLLEGE, PA 16801  
PH: (814) 238-4651

**WATER:** STATE COLLEGE BOROUGH WATER AUTHORITY  
1201 WEST BRANCH ROAD  
STATE COLLEGE, PA 16801  
PH: (814) 238-6766

**ROCK SPRINGS WATER COMPANY**  
1750 TADPOLE ROAD  
PENNSYLVANIA FURNACE, PA 16865  
(814) 231-2911

**GAS:** COLUMBIA GAS OF PENNA. INC.  
2550 CAROLEAN INDUSTRIAL DRIVE  
STATE COLLEGE, PA 16801  
PH: (814) 278-5842; WEEKEND: (888) 460-4332

**ELECTRIC:** WEST PENN POWER COMPANY  
2800 EAST COLLEGE AVENUE  
STATE COLLEGE, PA 16801  
PH: (814) 231-5338/(800) 255-3443

**CABLE:** COMCAST  
250 REESE ROAD  
STATE COLLEGE, PA 16801  
PH: (814) 238-8510/(740) 773-4123

**PHONE:** VERIZON PENNSYLVANIA, INC.  
224 SOUTH ALLEN STREET  
STATE COLLEGE, PA 16801  
PH: (814) 231-6528; AFTER HOURS (800) 275-2355

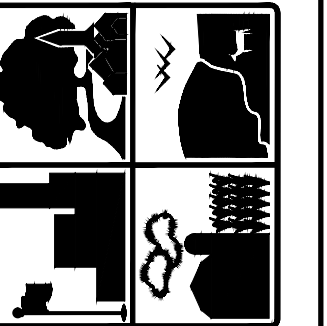
**FIRST ENERGY TELECOM SERVICES, INC.**  
2800 POTTSVILLE PIKE, P.O. BOX 15164  
READING, PA 19612-5164  
PH: (877) 611-2111

**WINDSTREAM**  
441 SCIENCE PARK ROAD  
STATE COLLEGE, PA 16803  
PH: (814) 272-2685

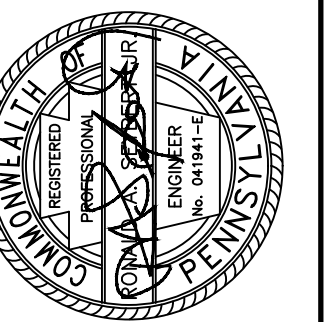
**ALL TEL COMMUNICATIONS**  
P.O. BOX 239  
WARRIORS MARK, PA 16877  
PH: (814) 632-3501

**ALLEGHENY COMMUNICATIONS CONNECT (FIBER)**  
100 BRUSH RUN ROAD  
GREENSBURG, PA 15601  
PH: (866) 463-8222

**PENN STATE TELECOMMUNICATIONS AND NETWORKING SERVICES**  
110 UNIVERSITY SUPPORT BUILDING 2  
UNIVERSITY PARK, PA 16802-1013  
PH: (814) 863-5419 (JIM REIGH)



**FERGUSON TOWNSHIP**  
DEPT. OF PUBLIC WORKS & ENGINEERING  
3147 RESEARCH DRIVE  
STATE COLLEGE, PA 16801  
PHONE: 814-238-4651  
FAX: 814-238-3454  
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REV.	DATE	REVISION DESCRIPTION
1	2-27-24	REVISED PER ADDENDUM 1

STREET IMPROVEMENT PROJECT - S. NIXON ROAD  
CONTRACT 2024-C1

**COVER**

DESIGNED BY: RTS	<b>1</b>
DRAWN BY: RTS	
CHECKED BY: RAS DATE: 2/20/2024	

**PROJECT NOTES:**

1. OWNER: FERGUSON TOWNSHIP  
3147 RESEARCH DRIVE  
STATE COLLEGE, PA 16801  
(814) 238-4651
2. ELEVATIONS AND HORIZONTAL CONTROL ARE BASED ON NAD83 Pennsylvania State Planes, North Zone, US Foot DATUM. CONTACT FERGUSON TOWNSHIP ENGINEERING DEPT. FOR PROJECT TRAVERSE POINT LOCATIONS/INFORMATION.
3. THE LEGAL RIGHT OF WAY ON S. NIXON ROAD IS VARIABLE (33' TO 50') (SOURCE: PB/PG 21/32, 65/40, 71/135, 85/120, 90/42)

**UTILITY NOTES:**

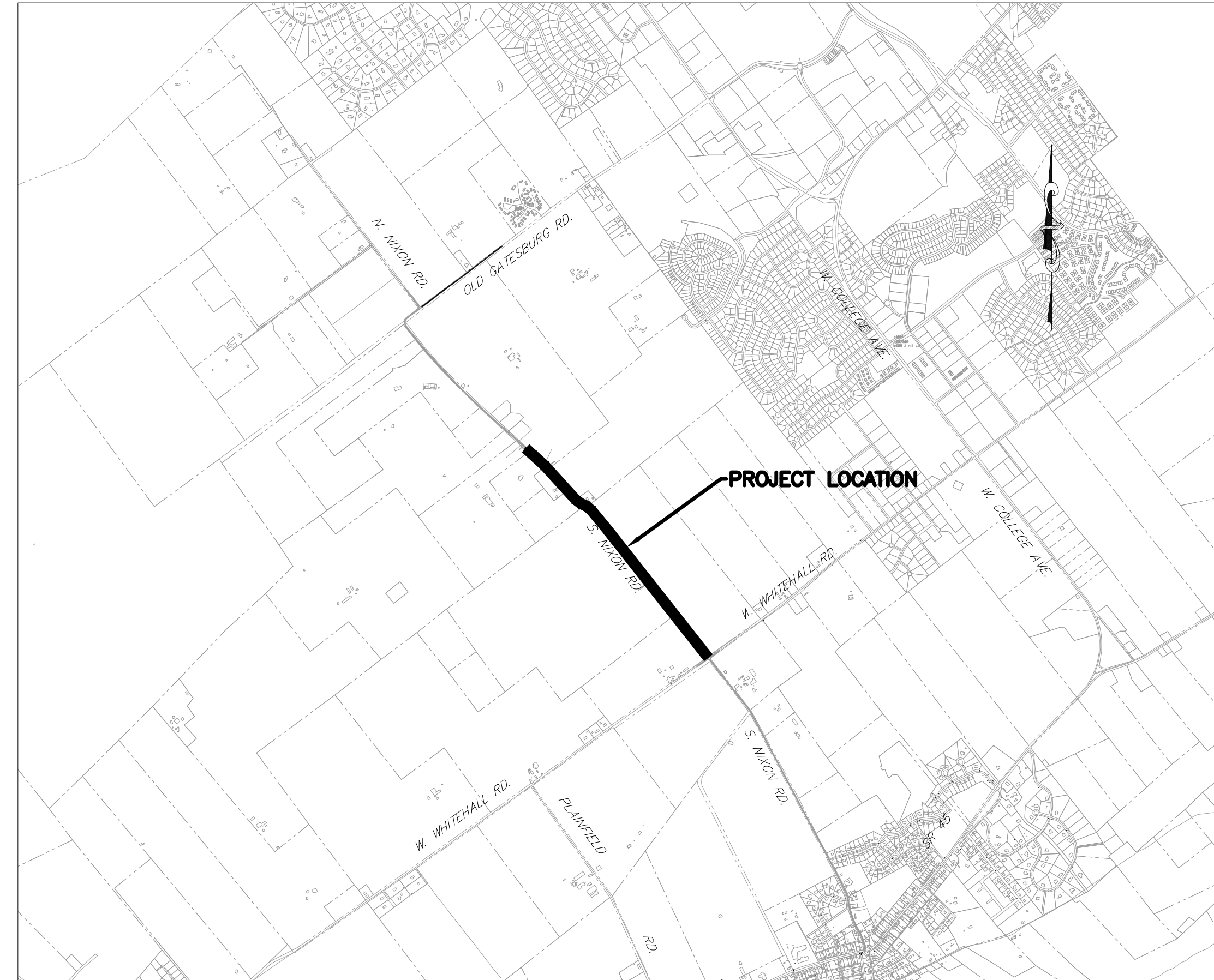
1. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE ONLY AND ARE BASED ON RECORDS OF THE VARIOUS FACILITY OWNERS AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE UTILITY INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST NOTIFY THE PA ONE-CALL SYSTEM AT LEAST 3 DAYS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES.
2. THE CONTRACTOR SHALL DIG TEST PITS AT EXISTING CONFLICTS SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT PLAN REVISIONS AS REQUIRED.
3. ALL EXISTING ON-SITE UTILITIES SHALL REMAIN FUNCTIONAL UNLESS DESIGNATED FOR REMOVAL OR ABANDONMENT.
4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE RELOCATION OF ALL EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
5. NO UTILITY SERVICE MAY BE DISCONNECTED WITHOUT PRIOR APPROVAL OF THE OWNERS REPRESENTATIVE.

**CONSTRUCTION NOTES:**

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING PUBLICATIONS:  
FERGUSON TOWNSHIP CHAPTER 21 - "STREETS AND SIDEWALKS"  
FERGUSON TOWNSHIP CHAPTER 26 - "WATER (STORMWATER MANAGEMENT)"  
PENNDOT PUBLICATION 408 / 2016 (CHANGE No. 7)  
PENNDOT PUBLICATIONS 34, 35, 37, AND 38 (APPROVED CONSTRUCTION MATERIALS)  
PENNDOT PUBLICATION 72M - STANDARDS FOR ROADWAY CONSTRUCTION  
PENNDOT PUBLICATION 213M - WORK ZONE TRAFFIC CONTROL  
PENNDOT PUBLICATION 70M - GUIDELINES FOR DESIGN OF LOCAL ROADS AND STREETS  
PENNDOT PUBLICATION 111 TRAFFIC CONTROL - PAVEMENT MARKINGS AND SIGNING STANDARDS TC-8600 AND TC-8700 SERIES  
PENNDOT PUBLICATION 236M - HANDBOOK OF APPROVED SIGNS  
PENNDOT PUBLICATION 13M - DESIGN MANUAL 2 - HIGHWAY DESIGN  
PENNSYLVANIA CODE, TITLE 67, CHAPTERS 441 AND 459
2. CONSTRUCTION STANDARDS:  
CONSTRUCTION DETAILS, OTHER THAN THOSE INDICATED ON THE PLAN, ARE ON THE FOLLOWING PENNDOT PUBLICATIONS  
72M STANDARD DRAWINGS:  
RC-10M CLASSIFICATION OF EARTHWORK  
RC-13M PAY LIMIT OF SUBBASE  
RC-25M SHOULDERS  
RC-28M OVERLAY TRANSITIONS AND PAVING NOTCHES  
RC-28M OVERLAY TRANSITIONS AND PAVING NOTCHES  
RC-30M SUBSURFACE DRAINS
3. FIELD ADJUST DRIVEWAY TIE-INS TO ENSURE POSITIVE DRAINAGE TO PREVENT PONDING, REFER TO APPENDIX "A" OF FERGUSON TOWNSHIP CHAPTER 21 - "STREETS AND SIDEWALKS" FOR DRIVEWAY CONSTRUCTION GUIDELINES. LIMITS OF WORK MAY VARY AND WILL BE FIELD DIRECTED BY OWNER.

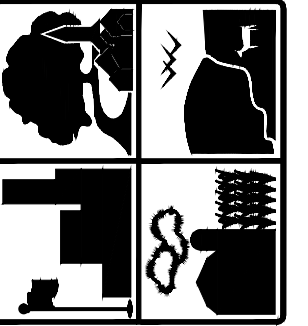
**TRAFFIC CONTROL NOTES:**

1. MAINTAIN TRAFFIC IN ACCORDANCE WITH THE LATEST EDITION OF PENNDOT PUBLICATION 213 (67 PA CODE, CH. 212) TEMPORARY TRAFFIC CONTROL GUIDELINES.
2. PROVIDE FLAGGERS AT INTERSECTIONS DURING LANE CLOSURES.
3. SHORT-TERM WORK ZONE TRAFFIC CONTROL SHALL BE REMOVED AT THE END OF EACH WORK DAY.
4. DO NOT HAVE TRAVEL LANE DROP-OFFS/OPEN EXCAVATIONS DURING NON-WORKING HOURS.
5. THE POSTED SPEED LIMIT ON S. NIXON ROAD IS 40 MPH.
6. THE POSTED SPEED LIMIT ON W. WHITEHALL ROAD IS 45 MPH.
7. PROVIDE CHANNELIZING DEVICES AS NEEDED TO CLEARLY DELINEATE TRAVEL LANE AND ACCESS TO DRIVEWAYS.
8. PROVIDE AN APPROPRIATE NUMBER OF FLAG PERSONS AS NEEDED BASED UPON LIMIT OF WORK AREA.
9. NO LANE CLOSURES ON S. NIXON ROAD AND W. WHITEHALL ROAD DURING AG PROGRESS DAYS.

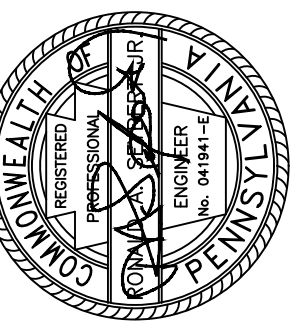


**PROJECT LOCATION MAP**

1"=2000'



**FERGUSON TOWNSHIP**  
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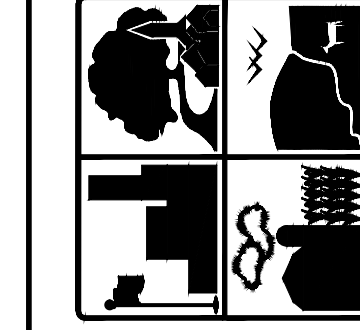
REV.	DATE	REVISION DESCRIPTION

STREET IMPROVEMENT PROJECT - S. NIXON ROAD  
CONTRACT 2024-C1  
**GENERAL NOTES &  
PROJECT LOCATION**

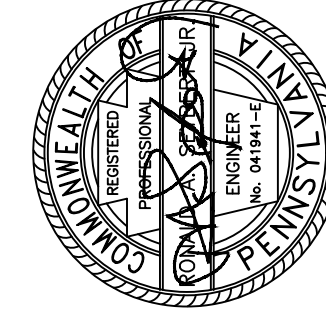
DESIGNED BY: RTS	<b>2</b>
DRAWN BY: RTS	
CHECKED BY: RAS DATE: 2/20/2024	

LOCATION	ITEM NO	UNIT	CLASS 1A EXCAVATION (UNDERCUTTING)		CLASS 1B EXCAVATION (BASE REPAIR)		GEOTEXTILE, CLASS 4, TYPE C		SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, 0.3 TO < 3 MILLION ESALS, 25 MM MIX, 8" DEPTH		SUBBASE 6" DEPTH (NO. 2A)		SUBBASE 12" DEPTH (NO. 2A)		SUBBASE (NO.2A) (SHOULDER BACKUP)		SUPERPAVE ASPHALT MIXTURE DESIGN, WEARING COURSE, PG 64S-22, 0.3 TO < 3 MILLION ESALS, 9.5 MM MIX, 1 1/2" DEPTH, SRL-M		SUPERPAVE ASPHALT MIXTURE DESIGN, WEARING COURSE (SCRATCH), PG 64S-22, 0.3 TO < 3 MILLION ESALS, 9.5 MM MIX, SRL-M		ASPHALT TACK COAT		MOBILIZATION		TOPSOIL FURNISHED AND PLACED		MAINTENANCE AND PROTECTION OF TRAFFIC DURING CONSTRUCTION		SEEDING, SOIL SUPPLEMENTS, AND MULCHING ▲		DRIVEWAY TIE IN (ASPHALT) ▲		RESET MAILBOX ▲				
			0203 0003	CY	0203 0004	CY	0212 0016	SY	0313 0430	SY	0350 0106	SY	0350 0112	SY	0350 0121	TON	0413 0247	SY	0413 1023	TON	0460 0001	SY	0608 0001	LS	0802 0001	CY	0901 0001	LS	9000 0001	SY	9000 0002	SY	9000 0003	EA			
STA 64+06 TO 117+40															15,410		636																				
STA 64+06 TO 117+40																			30,820																		
STA 67+08 TO 69+17, RT			16		37		47		93		93		47																								
STA 72+10 TO 72+42, LT			5		10		13		25		25		13																								
STA 73+17 TO 73+67, LT			7		16		20		39		39		20																								
STA 74+14 TO 74+40, LT			3		7		9		18		18		9																								
STA 76+32 TO 76+82, LT			7		16		20		39		39		20																								
STA 76+92 TO 77+82, LT			12		28		35		70		70		35																								
STA 77+89, LT					1				2		2		1																								
STA 84+75 TO 85+47, LT			10		22		28		56		56		28																								
STA 89+55, RT					1				2		2		1																								
STA 89+67 TO 90+07, RT			3		7		9		18		18		9																								
STA 90+32 TO 90+82, LT			4		9		12		23		23		12																								
STA 96+92 TO 97+12, RT			3		7		8		16		16		8																								
STA 101+22, LT & RT					2				4		4		2																								
STA 110+92, LT					1				2		2		1																								
STA 64+06 TO 101+25, RT														133																							
STA 101+25 TO 101+33, RT																			0.4								3										
STA 101+33 TO 102+75, RT																												81									
STA 102+75 TO 103+46, RT																																					
STA 102+06, RT																																				1	
STA 103+46 TO 111+74, RT														30																							
STA 64+06 TO 105+96, LT														150																							
STA 105+96 TO 106+40, LT																																					
STA 106+40 TO 106+80, LT																																					
STA 106+80 TO 111+53, LT																																					
STA 111+53 TO 114+58, LT																																					
STA 111+74 TO 112+00, RT																																					
STA 112+00 TO 117+40, RT														20																							
STA 114+58 TO 115+09, LT																																					
STA 115+09 TO 116+84, LT																																					
STA 116+84 TO 117+40, LT																																					
STA 117+24, LT																																					1
<b>TOTALS</b>			<b>70</b>		<b>164</b>		<b>201</b>		<b>407</b>		<b>407</b>		<b>206</b>		<b>351</b>		<b>15,410</b>		<b>636</b>		<b>30,820</b>		<b>1</b>		<b>24.3</b>		<b>1</b>		<b>219</b>		<b>127</b>			<b>2</b>			

▲ SPECIAL PROVISION



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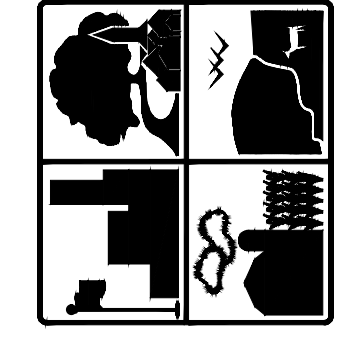
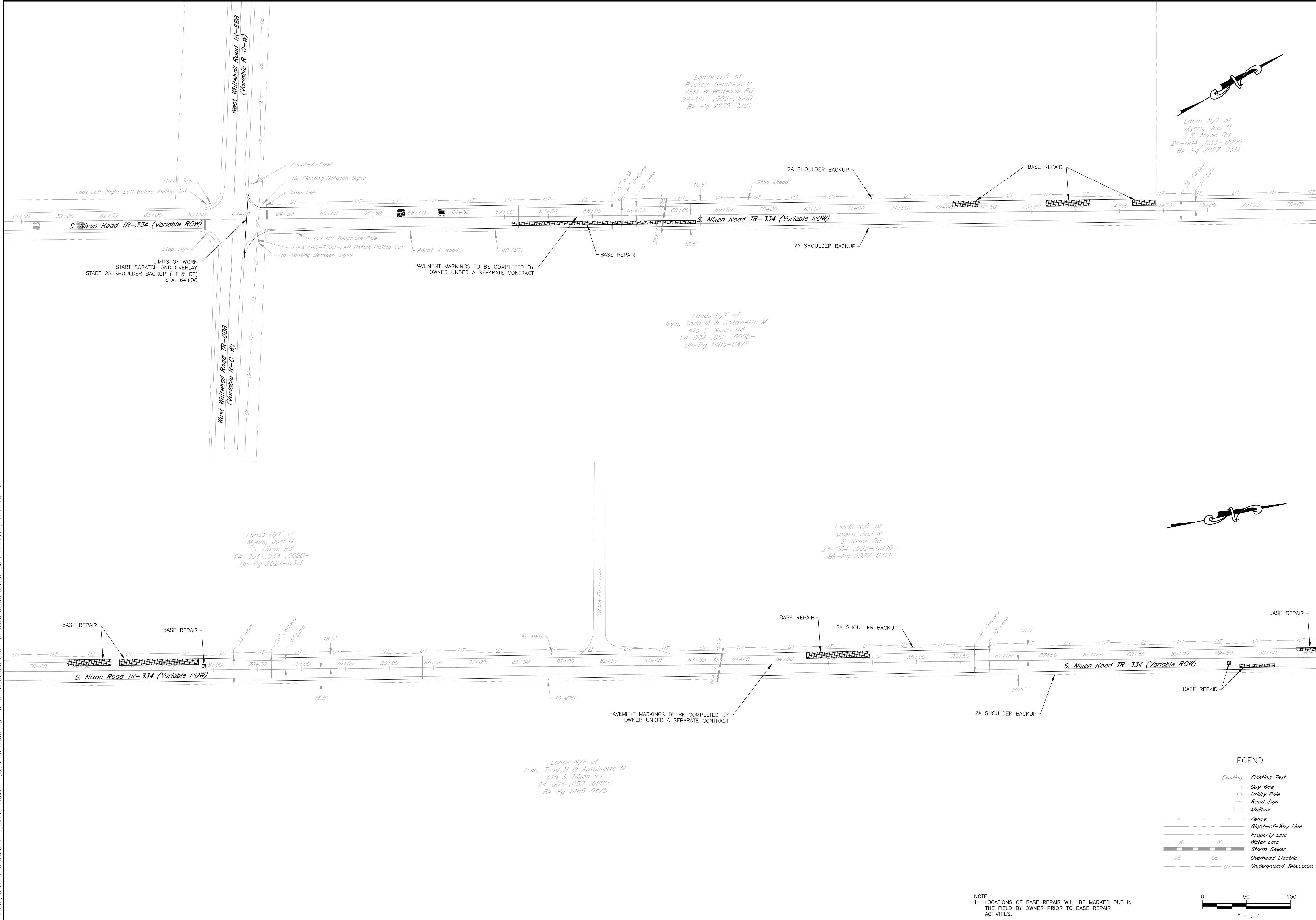


REV.	DATE	REVISION DESCRIPTION
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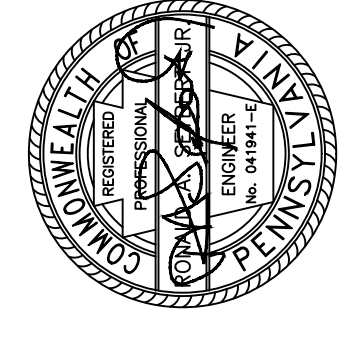
STREET IMPROVEMENT PROJECT - S. NIXON ROAD  
 CONTRACT 2024-C1  
**SUMMARY OF QUANTITIES**

DESIGNED BY: RTS	<b>3</b>
DRAWN BY: RTS	
CHECKED BY: RAS DATE: 2/20/2024	

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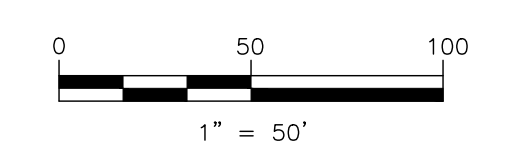
REV.	DATE	REVISION DESCRIPTION

STREET IMPROVEMENT PROJECT - S. NIXON ROAD  
CONTRACT 2024-C1  
**PLAN**

DESIGNED BY: RTS  
DRAWN BY: RTS  
CHECKED BY: BAS  
DATE: 2/20/2024  
**4**

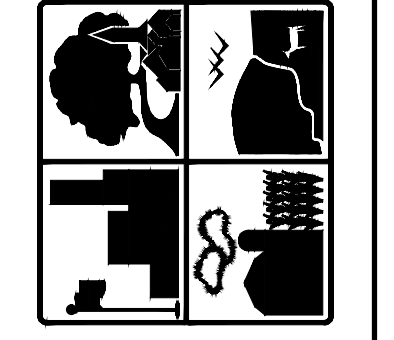
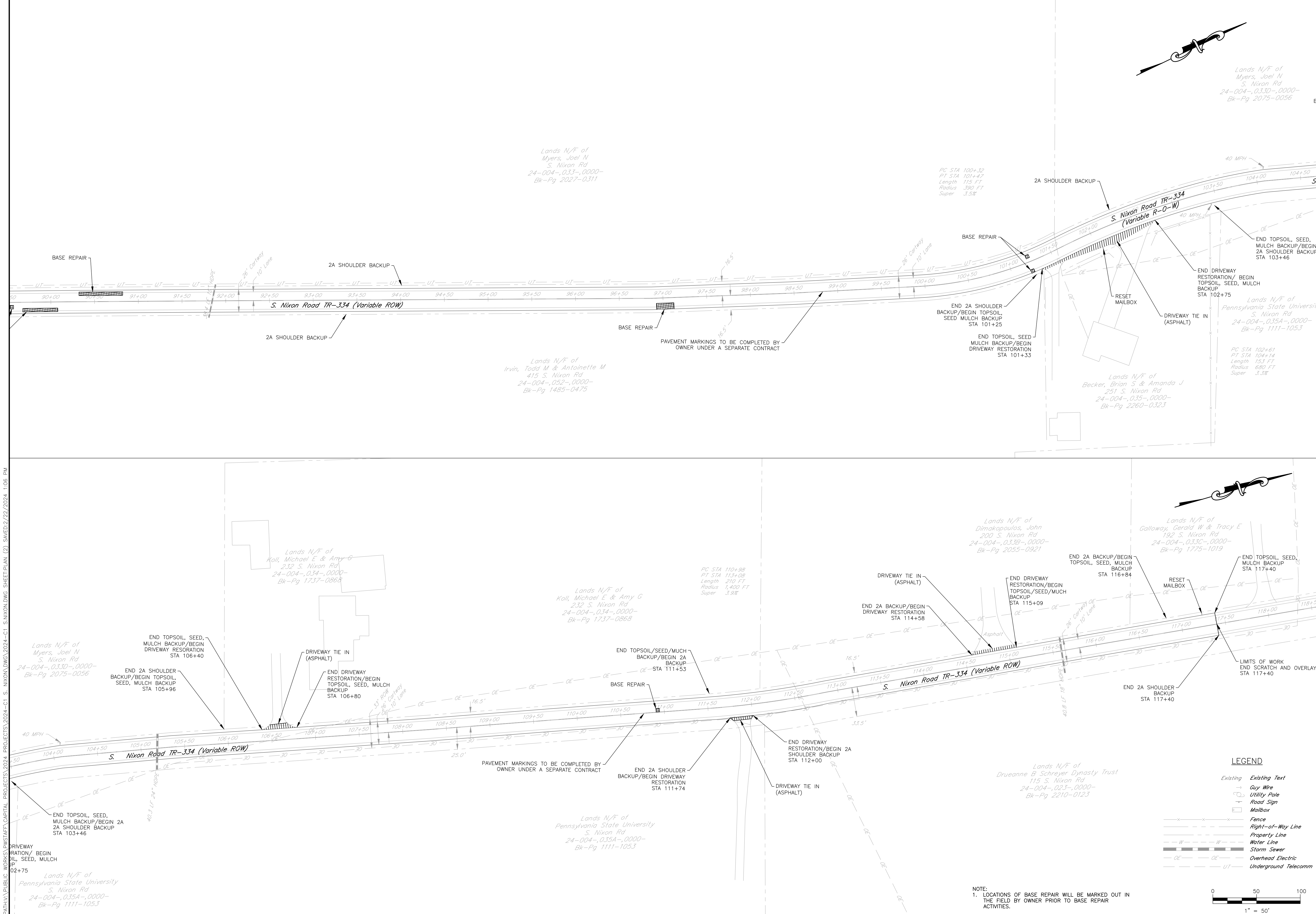
**LEGEND**

	Existing		Existing Text
	Guy Wire		Utility Pole
	Road Sign		Mailbox
	Fence		Right-of-Way Line
	Property Line		Water Line
	Storm Sewer		Overhead Electric
	Underground Electric		Underground Telecomm

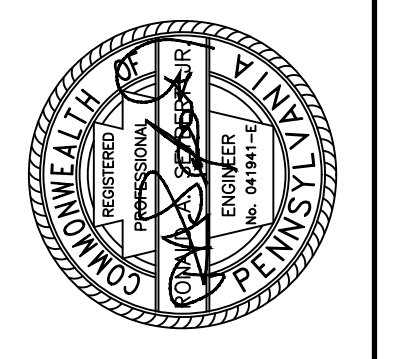


NOTE:  
1. LOCATIONS OF BASE REPAIR WILL BE MARKED OUT IN THE FIELD BY OWNER PRIOR TO BASE REPAIR ACTIVITIES.





**FERGUSON TOWNSHIP**  
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STREET IMPROVEMENT PROJECT - S. NIXON ROAD  
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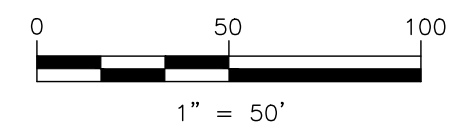
**PLAN**

DESIGNED BY: RRS  
 DRAWN BY: RRS  
 CHECKED BY: BAS  
 DATE: 2/20/2024

**5**

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NOTE:  
 1. LOCATIONS OF BASE REPAIR WILL BE MARKED OUT IN THE FIELD BY OWNER PRIOR TO BASE REPAIR ACTIVITIES.

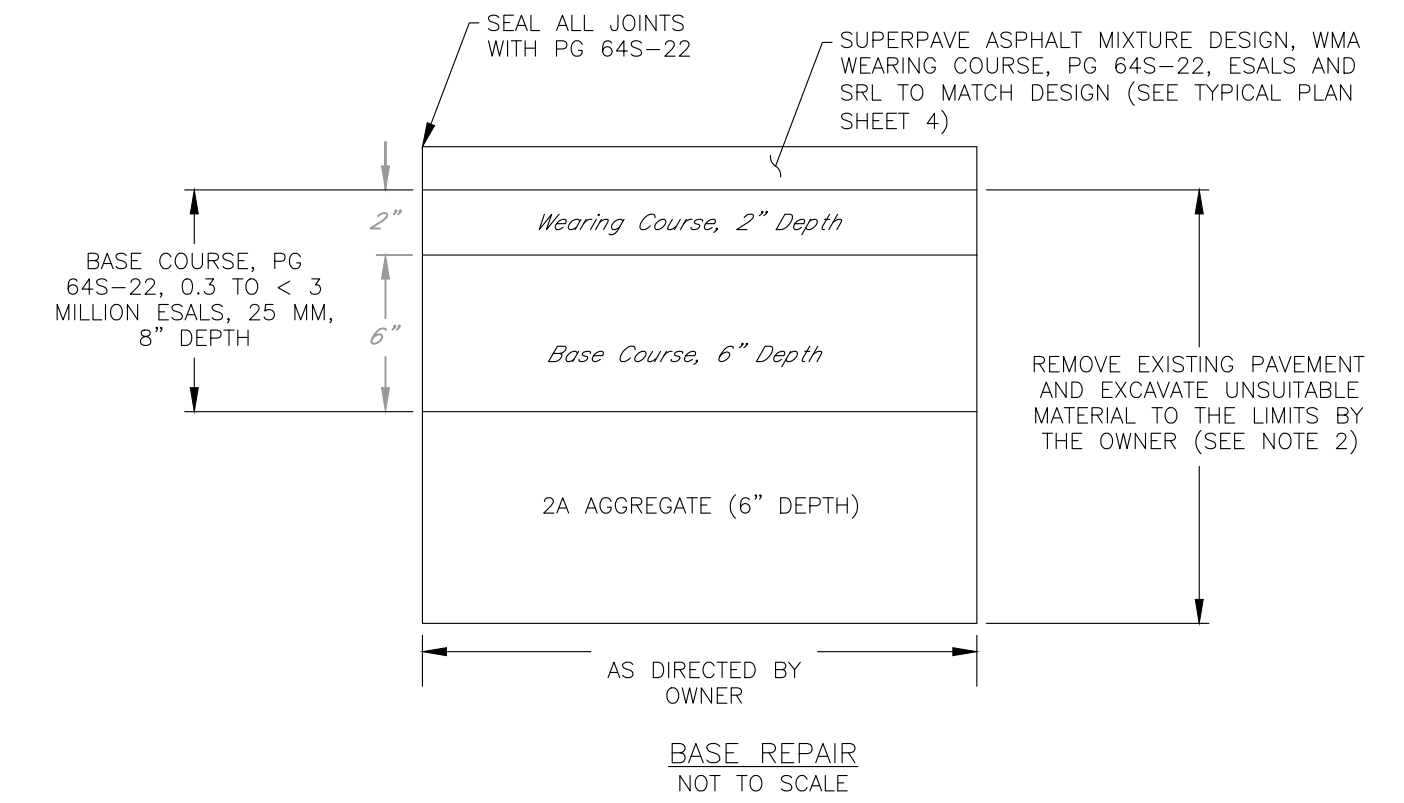
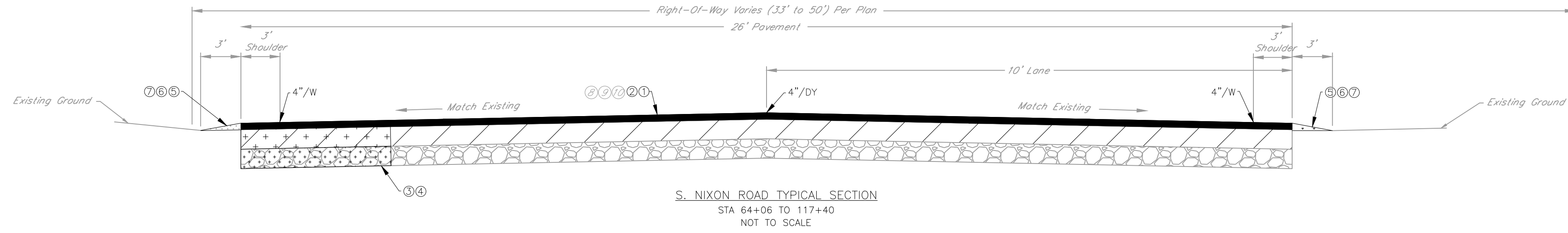


**LEGEND**

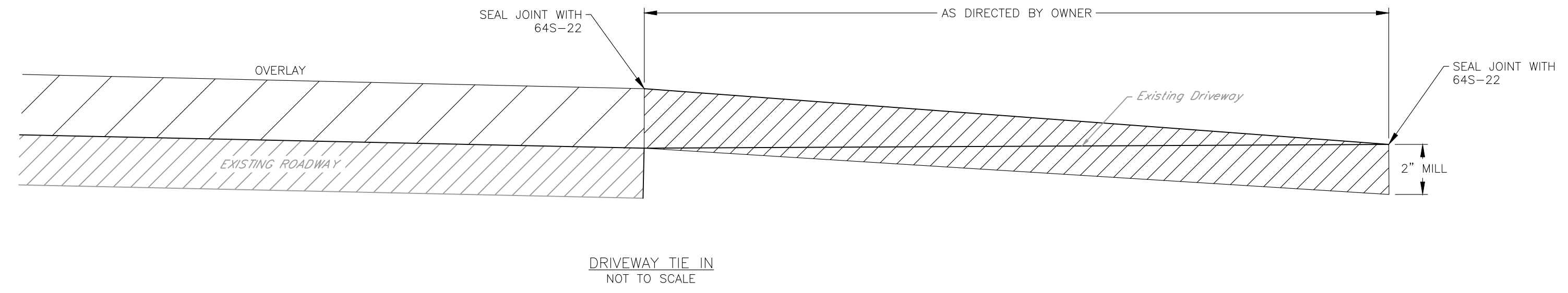
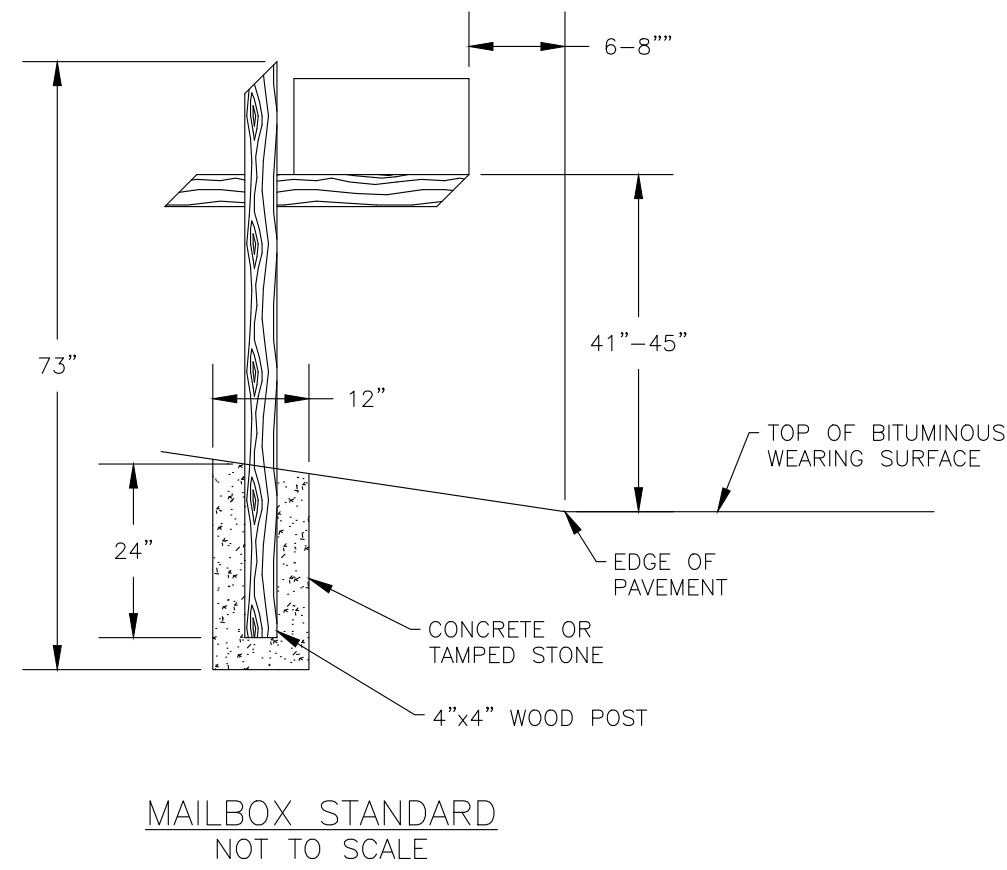
	Existing
	Existing Text
	Guy Wire
	Utility Pole
	Road Sign
	Mailbox
	Fence
	Right-of-Way Line
	Property Line
	Water Line
	Storm Sewer
	Overhead Electric
	Underground Telecomm

TYPICAL SECTION NOTES:

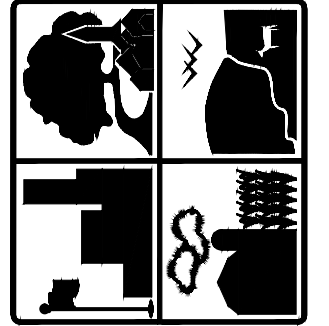
- ① SUPERPAVE ASPHALT MIXTURE DESIGN, WEARING COURSE, PG 64S-22, 0.3 TO < 3 MILLION ESALS, 9.5 MM MIX, 1 1/2" DEPTH, SRL-M
- ② SUPERPAVE ASPHALT MIXTURE DESIGN, WEARING COURSE (SCRATCH), PG 64S-22, 0.3 TO < 3 MILLION ESALS, 9.5 MM MIX, SRL-M
- ③ SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, 0.3 TO < 3 MILLION ESALS, 25.0 MM MIX, 8" DEPTH
- ④ 6" 2A AGGREGATE
- ⑤ DRIVEWAY TIE IN (ASPHALT)
- ⑥ TOPSOIL/SEED BACKUP (LAWN AREAS) (SEE PLAN FOR LOCATIONS)
- ⑦ 2A AGGREGATE SHOULDER BACKUP (SEE PLAN FOR LOCATIONS)
- ⑧ Wearing Course +/- 2"
- ⑨ Base Course +/- 6"
- ⑩ Subbase Aggregate +/- 5"



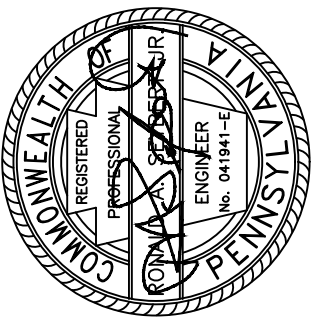
- NOTES:
- LIMITS OF BASE REPAIR WILL BE DETERMINED AND MARKED OUT IN THE FIELD BY OWNER PRIOR TO START OF PAVING. SEE PLAN FOR APPROXIMATE LOCATIONS.
  - AT THE DIRECTION OF THE OWNER, IF AFTER EXCAVATING FOR BASE REPAIR, SOIL IS STILL INADEQUATE (SOIL MOVEMENT) SUB-GRADE SHALL BE EXCAVATED ANOTHER 12 INCHES AND A CLASS 4, TYPE C GEOTEXTILE PLACED AND THEN BACKFILLED WITH 2A AGGREGATE, COMPACTED IN NO MORE THAN 6 INCH LIFTS WITH MINIMUM 95% SFD.



NOTE:  
1. PER LOCATIONS AS SHOWN ON DRAWINGS



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REV.	DATE	REVISION DESCRIPTION

STREET IMPROVEMENT PROJECT - S. NIXON ROAD  
CONTRACT 2024-C1  
**DETAILS**

DESIGNED BY: RTS  
DRAWN BY: RTS  
CHECKED BY: RAS  
DATE: 2/20/2024

**6**