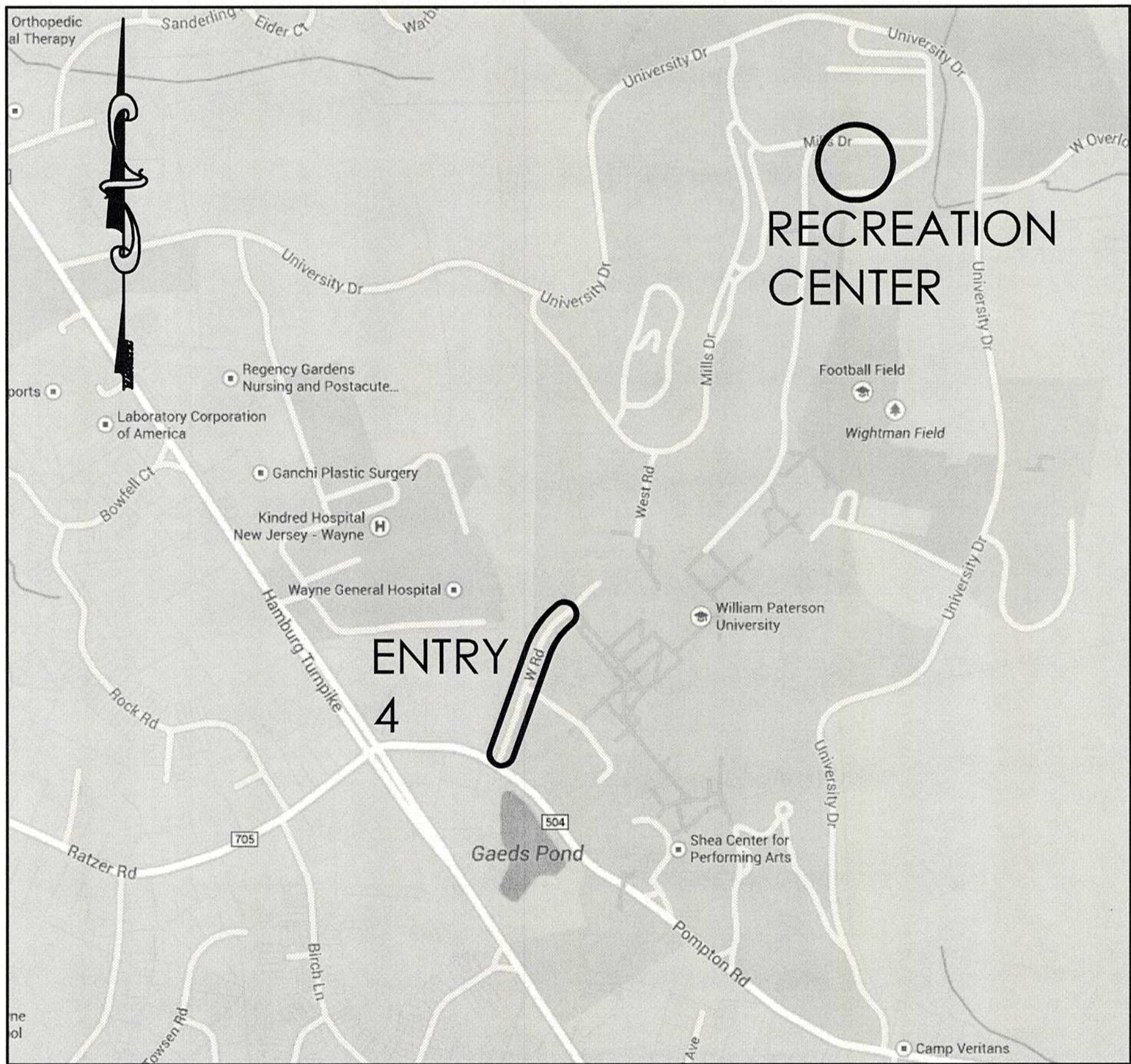


Entry 4 Sidewalk & Recreation Center Entrance Improvements

William Paterson University

Township of Wayne, Passaic County, New Jersey



PROJECT LOCATION MAP
N.T.S.
[MAP COURTESY OF GOOGLE MAPS, 2014]

PUBLIC UTILITIES

- GAS: PUBLIC SERVICE ELECTRIC AND GAS (GAS)
- ELECTRIC: PUBLIC SERVICE ELECTRIC AND GAS (ELECTRIC)
- CABLE: CABLEVISION
- TELEPHONE: VERIZON
- WATER: TOWNSHIP OF WAYNE
- SEWER: TOWNSHIP OF WAYNE
- STORM: WILLIAM PATERSON UNIVERSITY



Know what's below.
Call before you dig.

(DIAL 811 OR 1-800-272-1000)

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	LEGEND & GENERAL NOTES
3-4	ENTRY 4 SIDEWALK PLANS
5-8	RECREATION CENTER ENTRANCE PLANS
9-11	SOIL EROSION & SEDIMENT CONTROL PLANS & DETAILS
12-14	CONSTRUCTION DETAILS

Plans prepared by:

BOSWELL ENGINEERING
330 PHILLIPS AVENUE
SOUTH HACKENSACK, NEW JERSEY 07606
Tel (201) 641-0770 . Fax (201) 641-1831
NJ Certificate of Authorization No. 24GA27958000

STEPHEN T. BOSWELL
PROFESSIONAL ENGINEER N.J. LIC. 34680

CHRISTOPHER J. NASH
PROFESSIONAL ENGINEER N.J. LIC. 31605









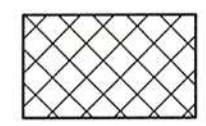

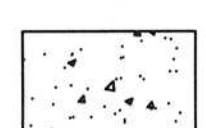

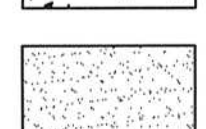









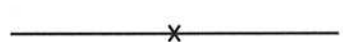
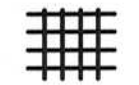
Christopher J. Nash

JOB NO. 16-119-BE

March 17, 2017

Note: This project is governed by 2007 New Jersey Department of Transportation Standard Specifications for Road and Bridge Construction and Standard Roadway Construction/Traffic Control/Bridge Construction Details, as amended herein.

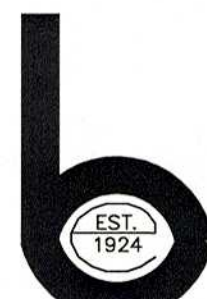
LEGEND

	EXISTING CURB		STORM PIPE (REFER TO PLANS FOR SIZE/TYPE)
	EXISTING FIRE HYDRANT		PERFORATED HDPE STORM PIPE
	EXISTING UTILITY POLE		TREE REMOVAL (INCLUDED UNDER 'CLEARING SITE')
	EXISTING CONTOUR		DETECTABLE WARNING SURFACE (2' X 4')
	FULL DEPTH PAVEMENT RESTORATION		MODULAR BLOCK RETAINING WALL
	CONCRETE SIDEWALK (REFER TO PLANS FOR THICKNESS)		TIMBER GUIDE RAIL
	1-3" RIVER ROCK		PROPOSED CONTOUR
	CONCRETE VERTICAL CURB FULL HEIGHT		REGULATORY AND WARNING SIGN
	CONCRETE VERTICAL CURB DROP/FLUSH CURB	SWL	SOLID WHITE LINE
	RESET EXISTING CASTING	SYL	SOLID YELLOW LINE
	RECONSTRUCTED INLET/MANHOLE	SBL	SOLID BLUE LINE
	LAWN INLET	BW	BOTTOM OF WALL
	STORM MANHOLE, 6' DIAMETER	TW	TOP OF WALL
	LIMIT OF DISTURBANCE	GR	GRATE
	SILT FENCE	INV	INVERT
	INLET FILTER, TYPE 1	DC	DROP CURB
		FC	FLUSH CURB
		TYP	TYPICAL
		CRT	CURB RAMP TYPE
		TBR	TO BE REMOVED

GENERAL NOTES:

1. NOT ALL UTILITY POLES, UTILITY LINES, VALVES, DRIVEWAYS, INLETS, TREES AND OTHER EXISTING TOPOGRAPHIC FEATURES HAVE BEEN SHOWN ON PLAN. ASCERTAIN ALL LOCATIONS PRIOR TO CONSTRUCTION.
2. STAKEOUT, COORDINATION OF ALL WORK WITH UTILITY COMPANIES, AND TEMPORARY SUPPORT OF UTILITY POLES, IF REQUIRED, IS THE RESPONSIBILITY OF THE CONTRACTOR.
4. MONITOR ALL GRADES INCLUDING PAVEMENT, DRIVEWAY, DRAINAGE, CURB AND SIDEWALK THROUGHOUT THE PROJECT SO THAT POSITIVE DRAINAGE IS MAINTAINED AND PONDING DOES NOT OCCUR.
6. PERFORM ALL CONSTRUCTION WORK IN ACCORDANCE WITH ALL APPLICABLE SAFETY CODES. APPLICABLE SAFETY CODES MEANS THE LATEST EDITION INCLUDING ANY AND ALL AMENDMENTS, REVISIONS AND ADDITIONS THERETO OF THE FEDERAL DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION'S "OCCUPATIONAL SAFETY AND HEALTH STANDARDS" (OSHA); "SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION" OF THE STATE OF NEW JERSEY, DEPARTMENT OF LABOR AND INDUSTRY, BUREAU OF ENGINEERING AND SAFETY; "CONSTRUCTION SAFETY CODE," AND "MAINTENANCE, CONSTRUCTION AND DEMOLITION," AND "BUILDING CODE."
7. ALL SAWCUTTING REQUIRED TO INSTALL THE PROPOSED IMPROVEMENTS SHALL BE INCLUDED IN THE VARIOUS ITEMS IN THE PROJECT.
8. RESET AND/OR RELOCATE SIGNS AS DIRECTED BY THE RE.
9. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION STAKEOUT/LAYOUT. THE CONSTRUCTION STAKEOUT/LAYOUT SHALL BE PERFORMED BY A QUALIFIED NEW JERSEY LICENSED PROFESSIONAL LAND SURVEYOR.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MAINTENANCE AND PROTECTION OF TRAFFIC (VEHICULAR AND PEDESTRIAN) DURING CONSTRUCTION. REFER TO APPENDIX B OF THE THE SPECIFICATIONS FOR DETAILS.

NO.	DATE	DESCRIPTION	SURVEYED BY	DRAWN BY	DESIGNED BY	CHECKED BY	
PLOT BY: jmcginnis			PLOT DATE: 3/17/2017 8:18 AM				



Boswell ENGINEERING

ENGINEERS — SURVEYORS — PLANNERS — SCIENTISTS

330 PHILLIPS AVENUE, SOUTH HACKENSACK, N.J. 07606

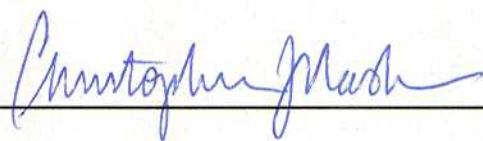
TEL: (201) 641-0770 • FAX: (201) 641-1831

N.J. CERTIFICATE OF AUTHORIZATION NO. 24GA27958000

STEPHEN T. BOSWELL

PROFESSIONAL ENGINEER N.J. LIC. 34680

CHRISTOPHER J. NASH



PROFESSIONAL ENGINEER N.J. LIC. 31605

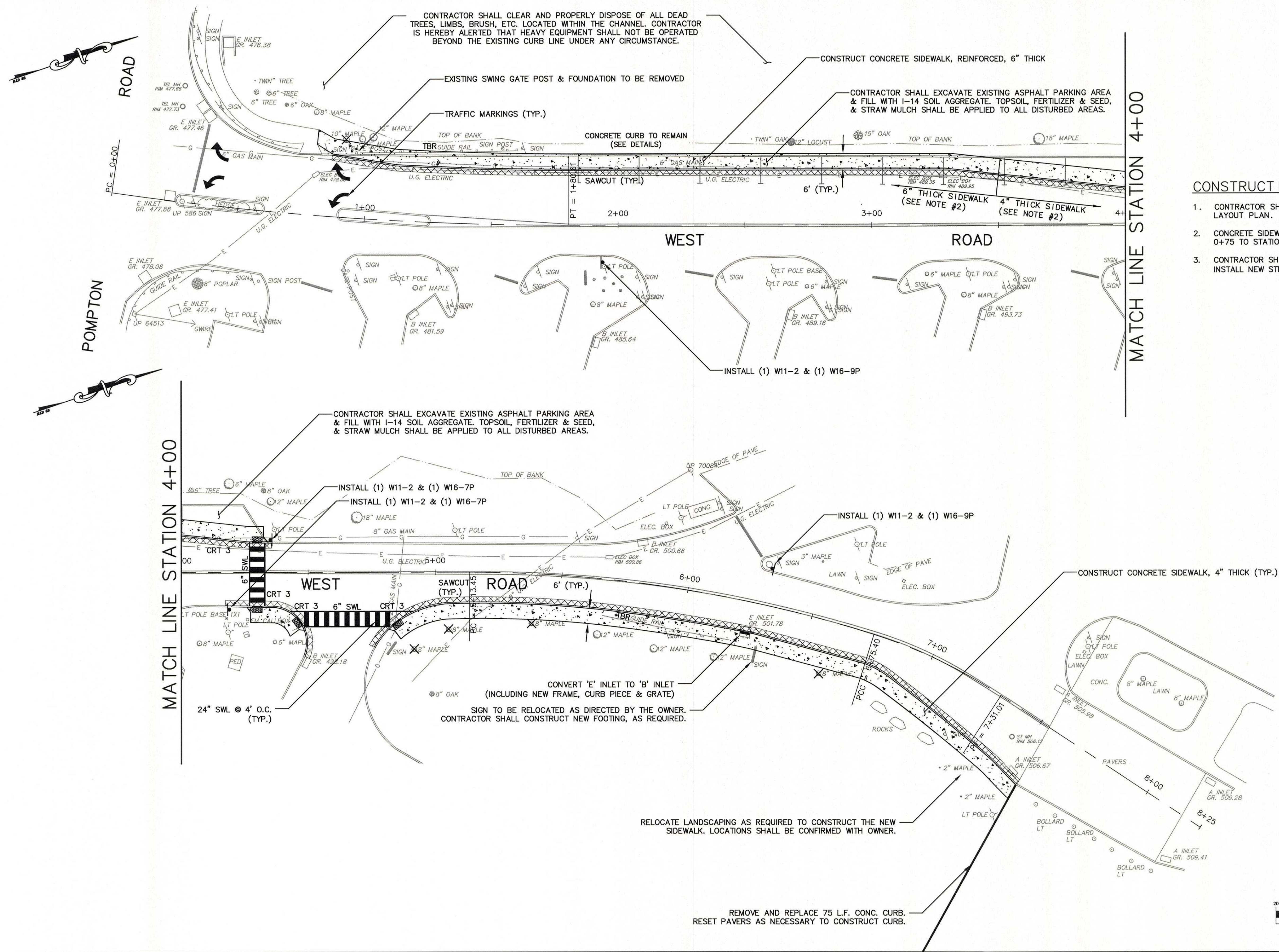
ENTRY 4 SIDEWALK & RECREATION CENTER ENTRANCE IMPROVEMENTS

LEGEND & GENERAL NOTES
TOWNSHIP OF WAYNE

PASSAIC COUNTY NEW JERSEY

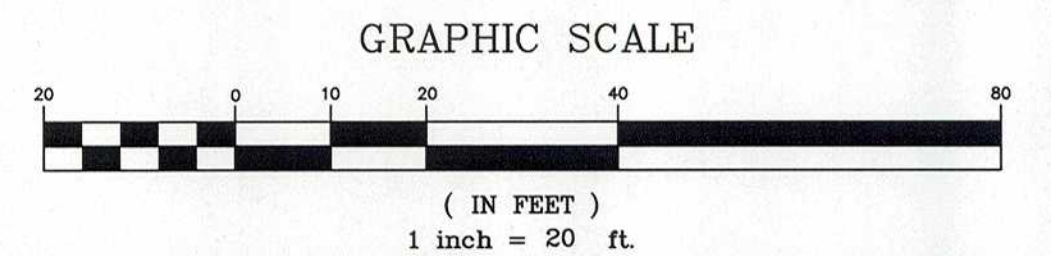
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DRAWN BY: JIM	CHECKED BY: CJN			

CADD FILE: 16-119-LGN(BE) SHEET 2 of 14



CONSTRUCTION NOTES:

1. CONTRACTOR SHALL GRADE THE SITE AS SHOWN ON THE GRADING AND LAYOUT PLAN.
2. CONCRETE SIDEWALK, REINFORCED, 6" THICK SHALL BE INSTALLED FROM STATION 0+75 TO STATION 3+50. REFER TO CONSTRUCTION DETAILS FOR SPECIFICS.
3. CONTRACTOR SHALL REMOVE TRAFFIC STRIPES/MARKINGS AS REQUIRED TO INSTALL NEW STRIPES/MARKINGS.



NO.	DATE	DESCRIPTION	SURVEYED BY	DRAWN BY	DESIGNED BY	CHECKED BY

PLOT BY: jmcginnis PLOT DATE: 3/17/2017 8:18 AM

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 ENGINEERS — SURVEYORS — PLANNERS — SCIENTISTS
 330 PHILLIPS AVENUE, SOUTH HACKENSACK, N.J. 07606
 TEL: (201) 641-0770 • FAX: (201) 641-1831
 N.J. CERTIFICATE OF AUTHORIZATION NO. 24GA27958000

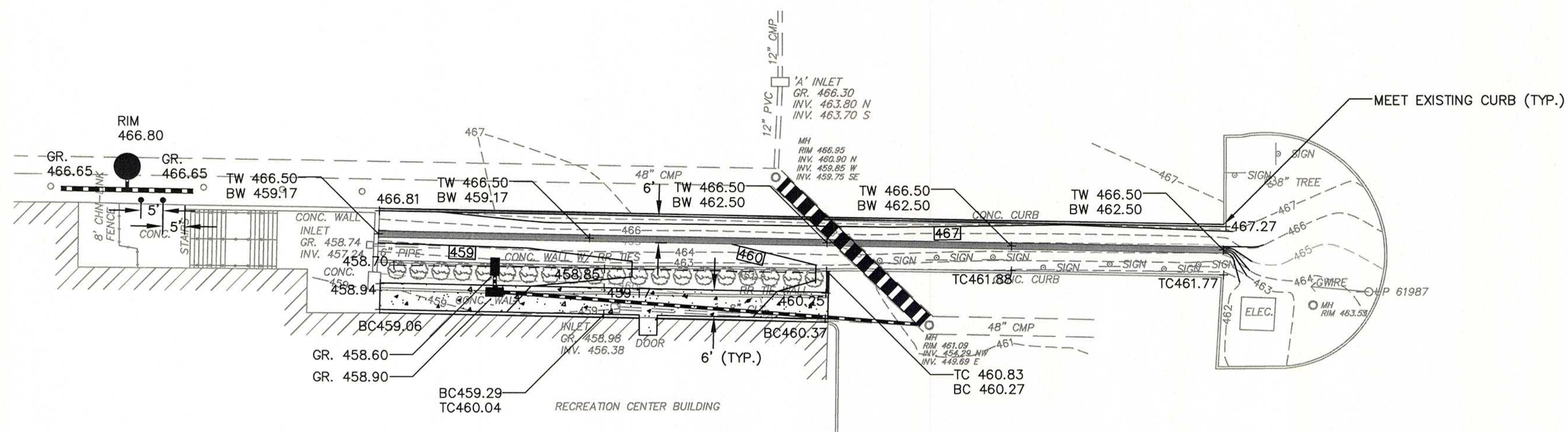
STEPHEN T. BOSWELL

PROFESSIONAL ENGINEER N.J. LIC. 34680

CHRISTOPHER J. NASH

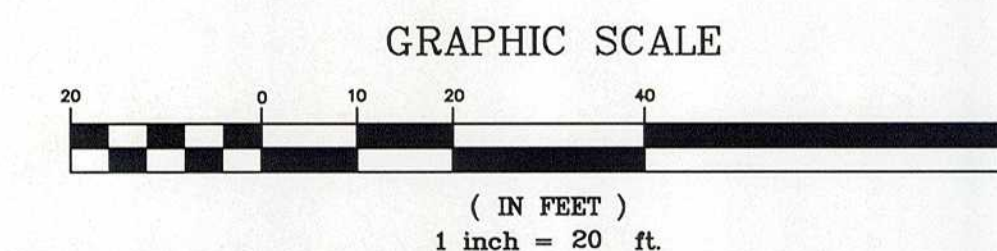
PROFESSIONAL ENGINEER N.J. LIC. 31605

ENTRY 4 SIDEWALK & RECREATION CENTER ENTRANCE IMPROVEMENTS
 ENTRY 4
 CONSTRUCTION PLAN
 TOWNSHIP OF WAYNE
 PASSAIC COUNTY NEW JERSEY
 SURVEYED BY: AB DESIGNED BY: JMM SCALE: 1"=20' JOB NO. DATE:
 DRAWN BY: JMM CHECKED BY: CJN 16-119-BE 3/17/17
 CADD FILE: 16-119-CP(BE) SHEET 3 OF 14




SURVEY NOTES:

1. HORIZONTAL DATUM: NAD 1983
2. VERTICAL DATUM: NAVD 1988 (GNSS/RTK DERIVED)



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STEPHEN T. BOSWELL

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CHRISTOPHER J. NASH

PROFESSIONAL ENGINEER N.J. LIC. 31605

ENTRY 4 SIDEWALK & RECREATION CENTER ENTRANCE IMPROVEMENTS
RECREATION CENTER
GRADING & LAYOUT PLAN
TOWNSHIP OF WAYNE

PASSAIC COUNTYNEW JERSEY

SURVEYED BY: AB
DRAWN BY: JJM

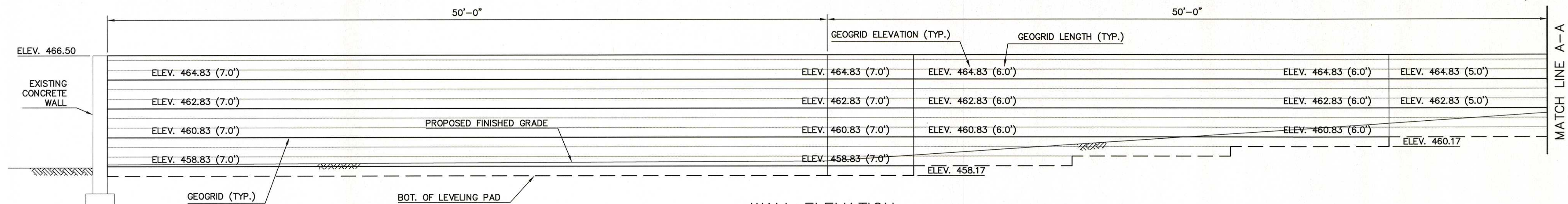
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CHECKED BY: CJN

SCALE:
1"=20'

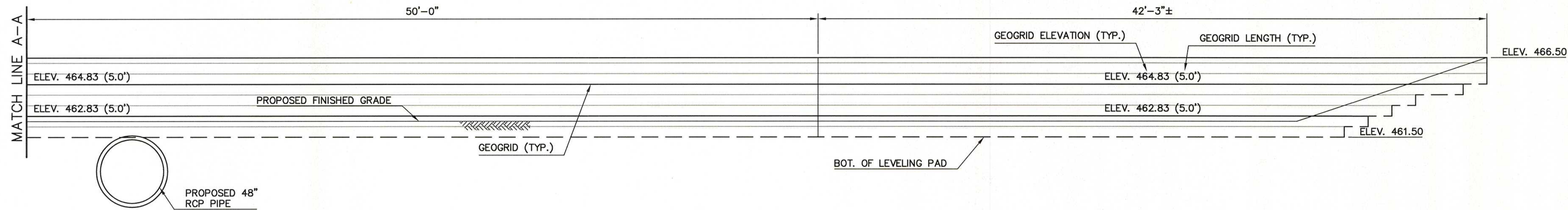
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16-119-BE

DATE:
3/17/17

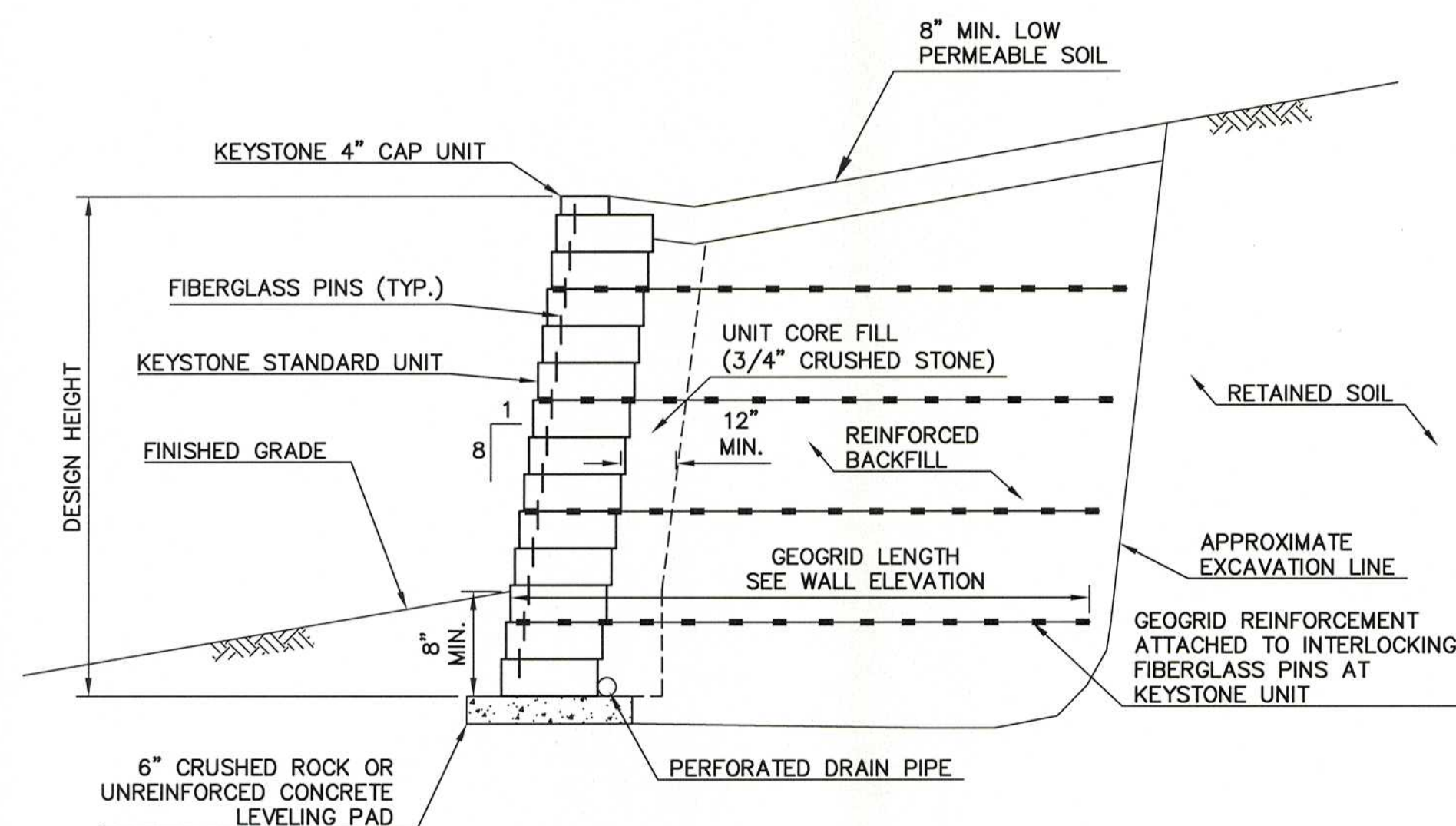
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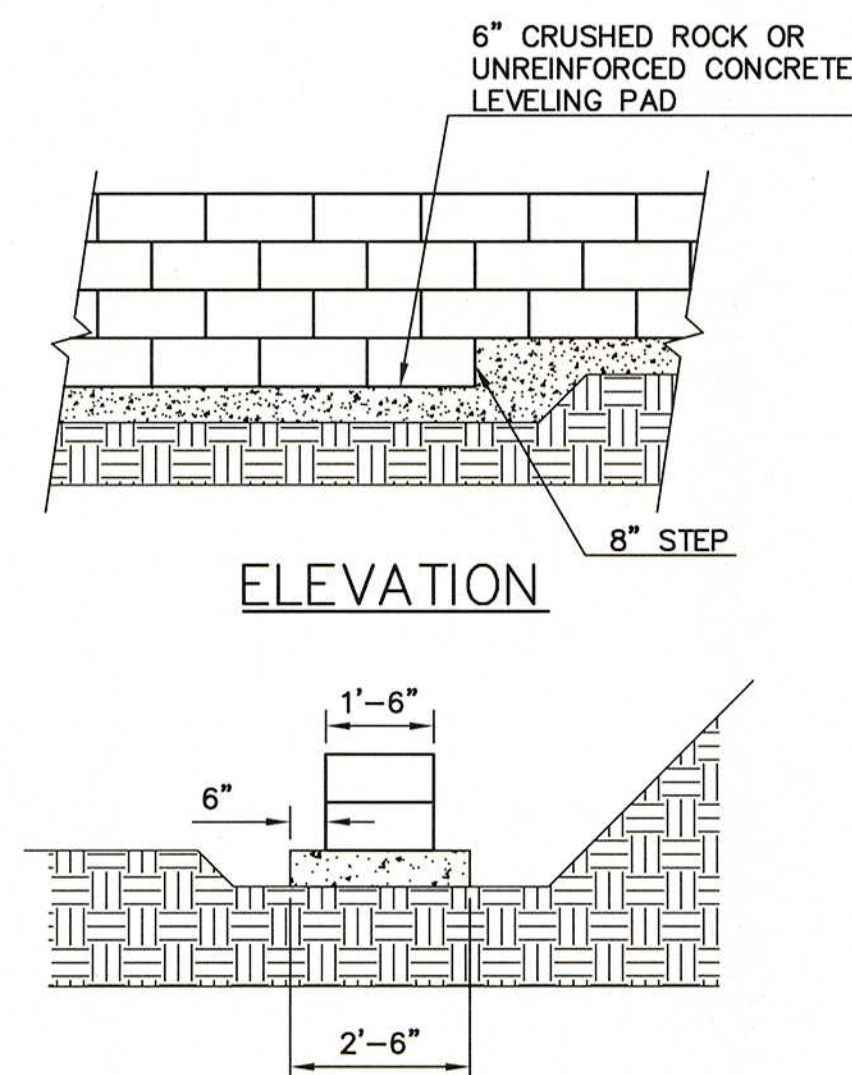
WALL ELEVATION
SCALE: 1/4" = 1'-0"



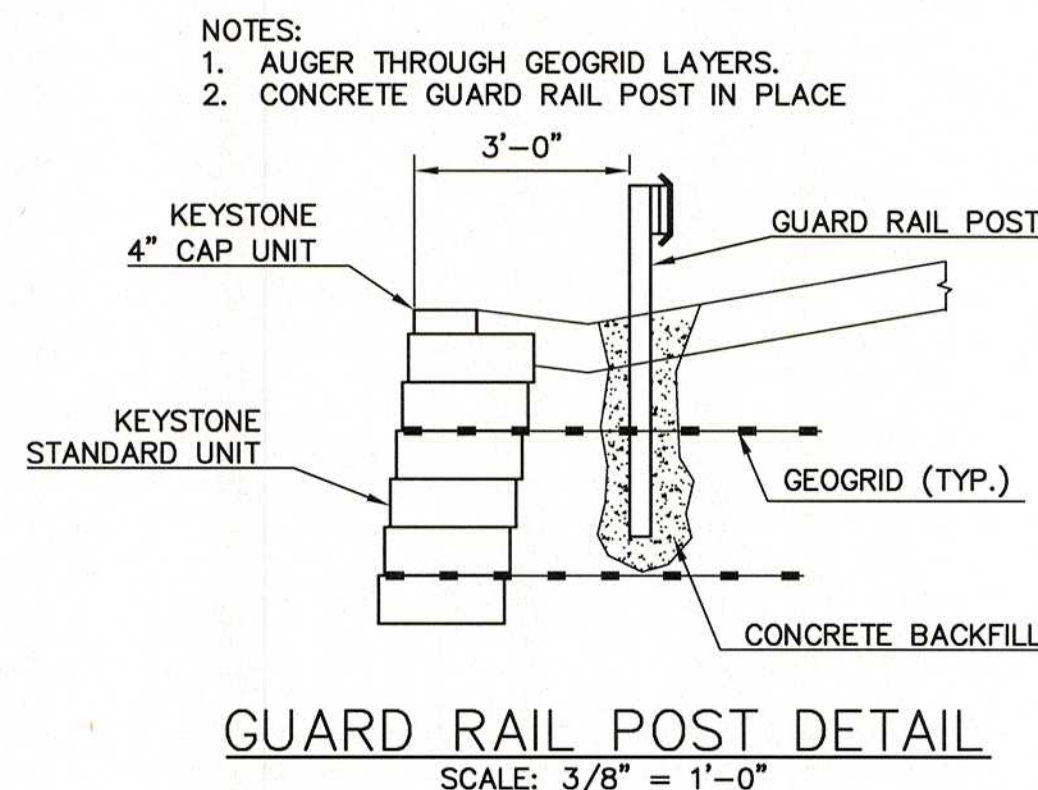
WALL ELEVATION
SCALE: 1/4" = 1'-0"



TYPICAL WALL SECTION
SCALE: N.T.S.



SECTION
LEVELING PAD DETAIL
SCALE: 3/8" = 1'-0"



NOTES:
1. AUGER THROUGH GEOGRID LAYERS.
2. CONCRETE GUARD RAIL POST IN PLACE

GENERAL NOTES:

1. FOUNDATION EXCAVATION:
A. EXCAVATIONS NEAR ADJACENT STRUCTURES SHALL BE SHEATHED AND SHORED TO PREVENT UNDERMINING OR DISTURBANCE TO EXISTING FOOTINGS AND/OR STRUCTURES.
B. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT SURFACE RUN OFF FROM ENTERING THE EXCAVATIONS.
C. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO PROTECT AND MAINTAIN THEIR FACILITIES. DURING EXCAVATION OPERATIONS, THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS SO AS NOT TO DAMAGE UNDERGROUND UTILITIES AND EXISTING STRUCTURES SCHEDULED TO REMAIN. ALL DAMAGE DONE TO EXISTING UTILITIES AND STRUCTURAL MEMBERS SCHEDULED TO REMAIN, SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.
2. EXISTING DIMENSIONS:
CONTRACTOR SHALL EXAMINE AND VERIFY IN THE FIELD ALL EXISTING CONDITIONS AND DIMENSIONS SHOWN ON THE DRAWINGS. IF FIELD CONDITIONS AND DIMENSIONS DIFFER FROM THOSE SHOWN ON DRAWINGS, CONTRACTOR SHALL USE FIELD CONDITIONS AND DIMENSIONS AND MAKE APPROPRIATE CHANGES TO THOSE SHOWN ON THE DRAWINGS AS APPROVED BY THE ENGINEER.
3. UTILITY: IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING UTILITIES IN THE FIELD (ABOVE AND BELOW THE GROUND) BEFORE THE CONSTRUCTION.
4. FOUNDATION:
A. ASSUMED PROPERTIES OF SOIL
RETAINED ZONE:
UNIT WEIGHT OF SOIL = 120 PCF
ANGLE OF INTERNAL FRICTION = 30°
FOUNDATION SOIL:
UNIT WEIGHT OF SOIL = 120 PCF
ANGLE OF INTERNAL FRICTION = 30°
REINFORCED SOIL IN ACCORDANCE WITH REINFORCED BACKFILL SPECIFICATIONS:
UNIT WEIGHT OF SOIL = 125 PCF
ANGLE OF INTERNAL FRICTION = 32°
ALL SOIL PROPERTIES MUST BE FIELD VERIFIED DURING CONSTRUCTION.
B. ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR SUPERVISED COMPACTED FILL, FREE OF FROST HAVING A MINIMUM SOIL BEARING PRESSURE CAPACITY OF 3.0 KSF.
C. ALL FILL SHALL BE COMPACTED IN 8 INCH THICK LAYERS TO 95% MAXIMUM DENSITY.
D. IF WATER TABLE IS LOCATED ABOVE OR NEAR FOOTING BOTTOM, THE ENGINEER SHALL BE CONTACTED.
E. THE RETAINING WALL WILL REQUIRE A CERTIFICATION BY A PROFESSIONAL ENGINEER THAT HE/SHE HAS PROVIDED ON-SITE INSPECTION DURING THE WALL CONSTRUCTION INCLUDING BASE COURSE, GEOGRID INSTALLATION, BACKFILL PLACEMENT, COMPACTION, MOISTURE CONTROL, AND DRAINAGE SYSTEM IN ACCORDANCE WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS, THE WALL HAS BEEN PROPERLY STABILIZED, AND THE WALL WILL PROVE ADEQUATE FOR THE INTENDED PURPOSE. INSPECTING ENGINEERS MUST ALSO CERTIFY THAT APPROPRIATE BATTER, HEIGHT AND LOCATION HAVE BEEN ADHERED TO PURSUANT TO THE APPROVED DESIGN DRAWINGS.
5. MASONRY UNITS
A. ALL MASONRY BLOCK SHALL BE KEYSTONE STANDARD UNITS WITH APPROXIMATE DIMENSIONS OF 8" HIGH X 18" WIDE X 18" DEEP OR APPROVED EQUAL.
B. CAP UNITS SHALL BE KEYSTONE 4" CAPSTONE OR APPROVED EQUAL.
C. THE OWNER SHALL CHOOSE THE COLOR, TEXTURE, AND STYLE OF MASONRY BLOCK FROM THE MANUFACTURER'S FULL SELECTION. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF FOUR (4) SAMPLES OF THE MASONRY BLOCK TO THE OWNER.
6. GEOGRID
A. GEOGRID SHALL BE MIRAFI 3XT OR APPROVED EQUAL REQUIREMENTS.
B. GEOGRID LAP LENGTH SHALL BE MINIMUM 18" UNLESS OTHERWISE NOTED.
7. SEE SHEET 6 FOR KEYSTONE WALL LOCATION.

NO.	DATE	DESCRIPTION	SURVEYED BY	DRAWN BY	DESIGNED BY	CHECKED BY
1	3/17/2017	ENTRY 4 SIDEWALK & RECREATION CENTER ENTRANCE IMPROVEMENTS WALL ELEVATION AND DETAILS	JOHN R. VALENTIN	JOHN R. VALENTIN	JOHN R. VALENTIN	JOHN R. VALENTIN

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STEPHEN T. BOSWELL

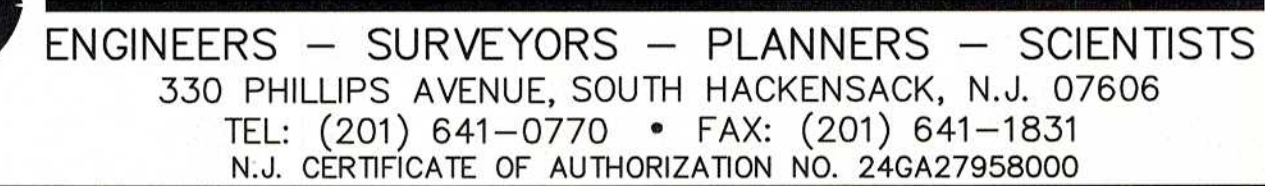
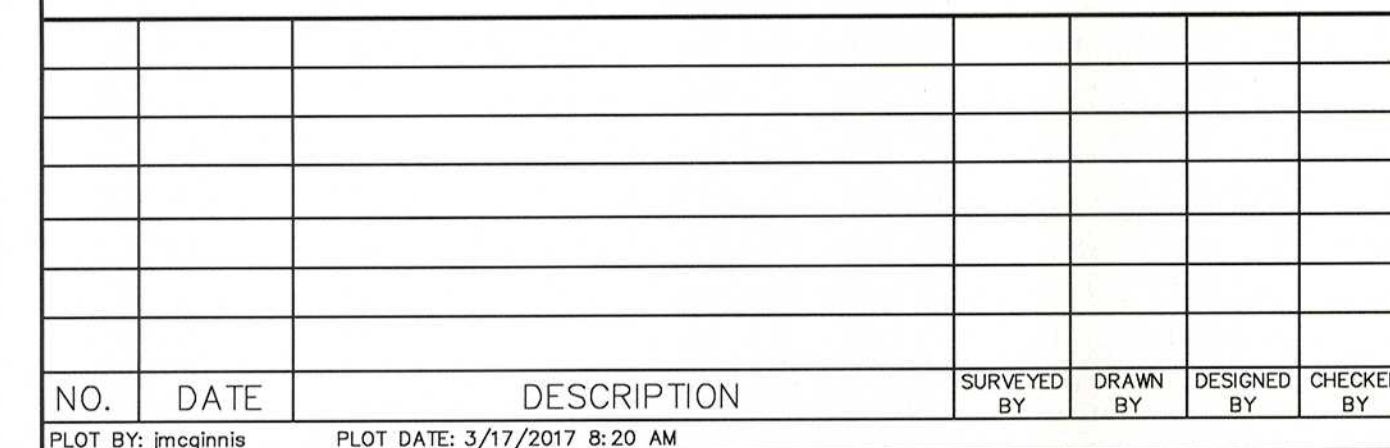
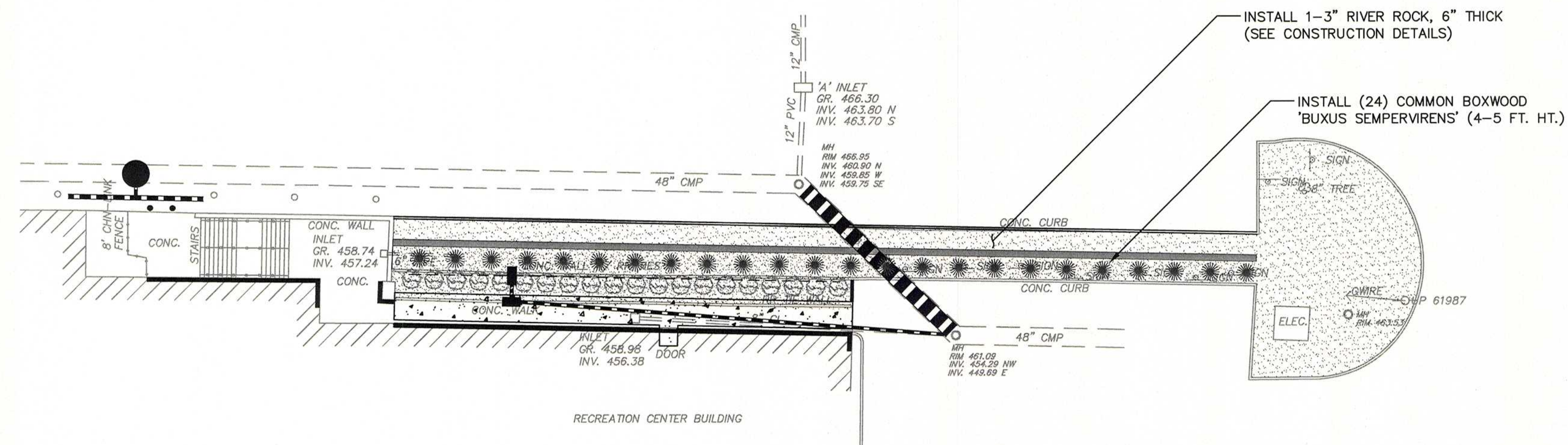
PROFESSIONAL ENGINEER N.J. LIC. 34680

JOHN R. VALENTIN

PROFESSIONAL ENGINEER N.J. LIC. 37568

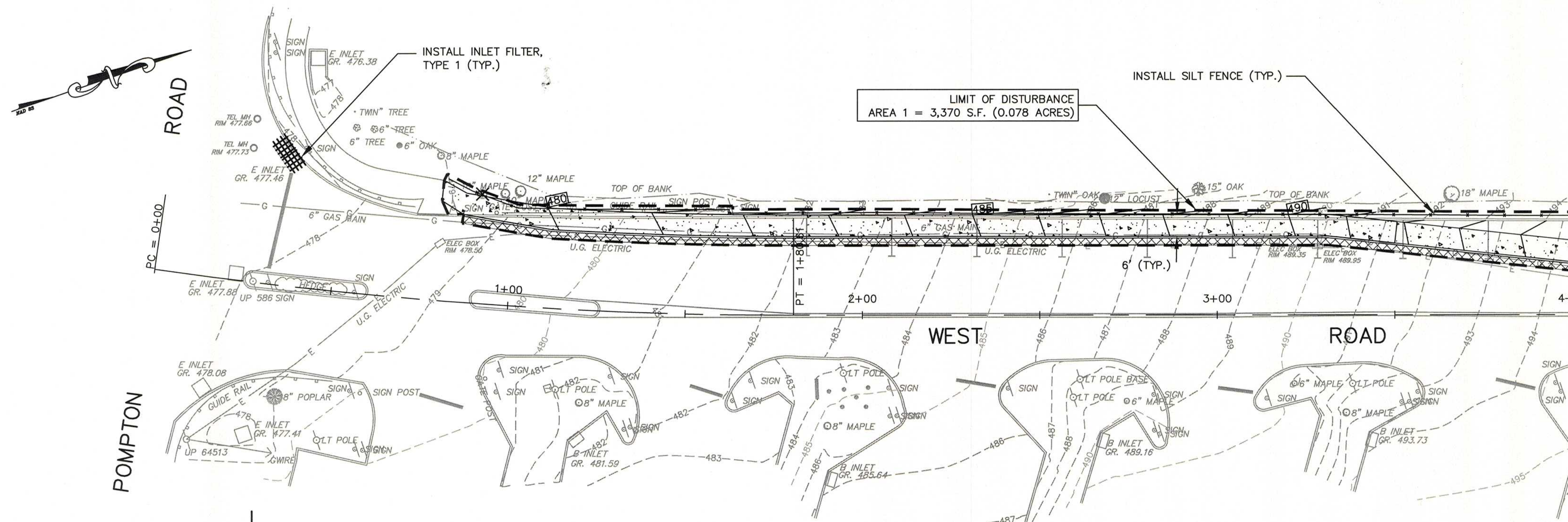
ENTRY 4 SIDEWALK & RECREATION
CENTER ENTRANCE IMPROVEMENTS
WALL ELEVATION AND DETAILS
TOWNSHIP OF WAYNE

PASSAIC COUNTY		NEW JERSEY	
SURVEYED BY: TWO	DESIGNED BY: TWO	SCALE: AS NOTED	JOB NO. 16-119-E
DRAWN BY: TWO	CHECKED BY: JRV	DATE: 3/17/17	
CADD FILE: 16-119-ST (E)			SHEET 7 OF 14

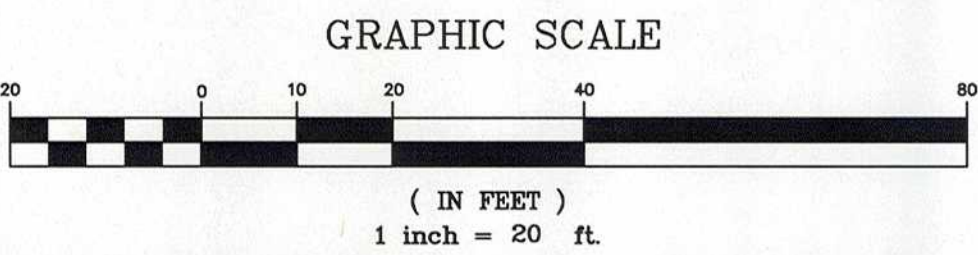
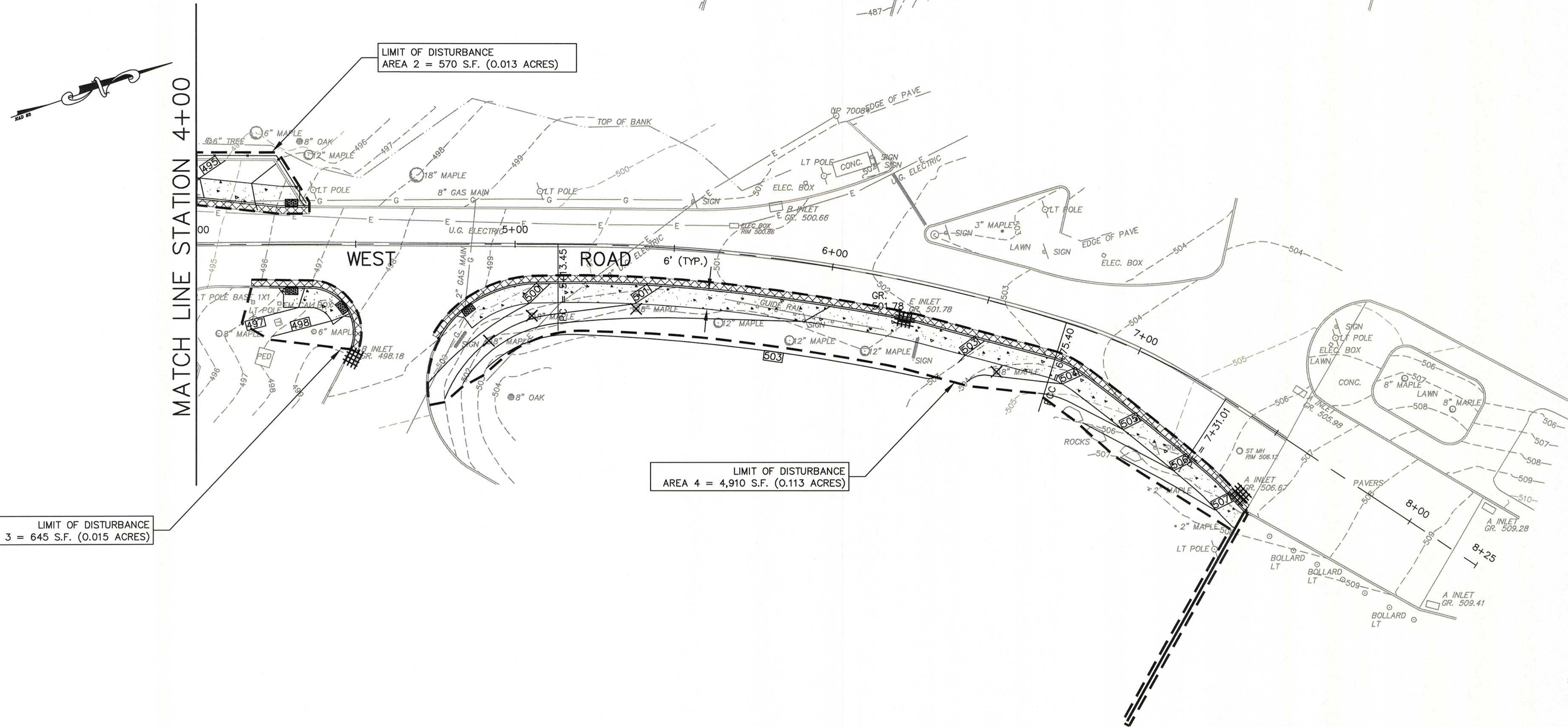


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ENTRY 4 SIDEWALK & RECREATION CENTER ENTRANCE IMPROVEMENTS				
RECREATION CENTER				
LANDSCAPE PLAN				
TOWNSHIP OF WAYNE				
PASSAIC COUNTY			NEW JERSEY	
SURVEYED BY: AB	DESIGNED BY: JJM	SCALE: 1"=20'	JOB NO. 16-119-BE	DATE: 3/17/17
DRAWN BY: JJM	CHECKED BY: CJN			
CADD FILE: 16-119-LP(E)			SHEET 8	OF 14



SOIL DISTURBANCE SUMMARY TABLE		
AREA 1	3,370 S.F.	0.078 ACRES
AREA 2	570 S.F.	0.013 ACRES
AREA 3	645 S.F.	0.015 ACRES
AREA 4	4,910 S.F.	0.113 ACRES
SUBTOTAL	9,495 S.F.	0.219 ACRES



NO.	DATE	DESCRIPTION	SURVEYED BY	DRAWN BY	DESIGNED BY	CHECKED BY

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 TEL: (201) 641-0770 • FAX: (201) 641-1831
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CHRISTOPHER J. NASH

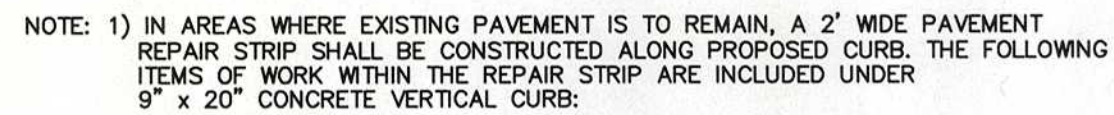
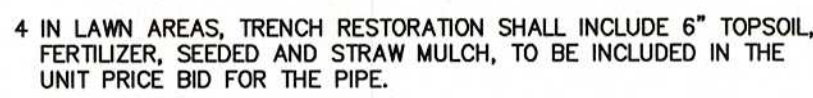
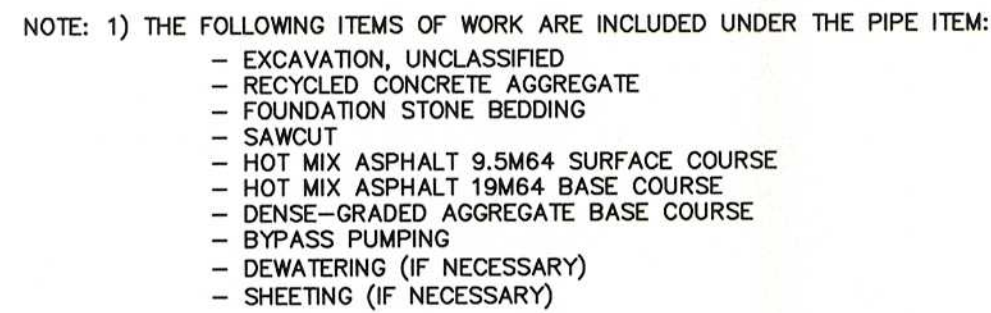
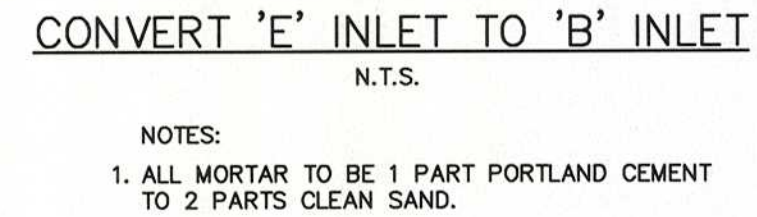
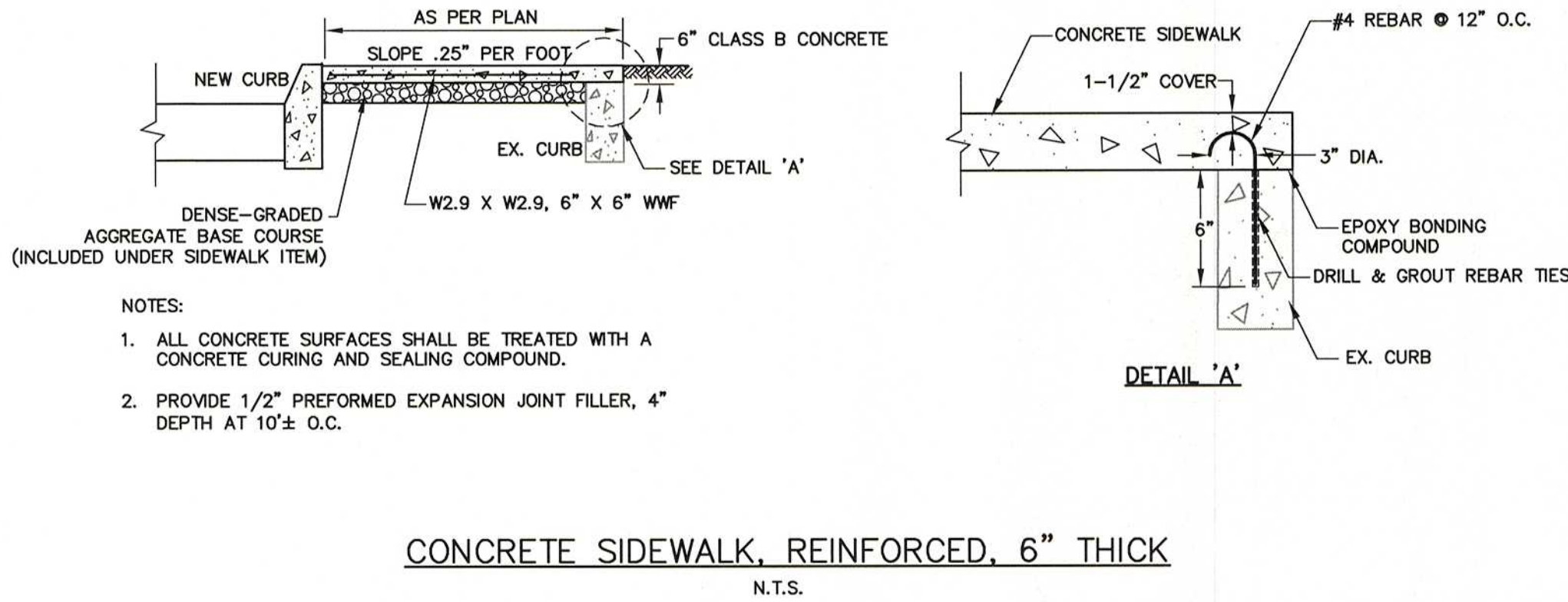
 PROFESSIONAL ENGINEER N.J. LIC. 31605

ENTRY 4 SIDEWALK & RECREATION CENTER ENTRANCE IMPROVEMENTS
ENTRY 4
SOIL EROSION & SEDIMENT CONTROL PLAN -1-
 TOWNSHIP OF WAYNE
 PASSAIC COUNTY NEW JERSEY

SURVEYED BY: AB	DESIGNED BY: J.M	SCALE: 1"=20'	JOB NO. 16-119-BE	DATE: 3/17/17
DRAWN BY: J.M	CHECKED BY: C.J.N			

CADD FILE: 16-119-SESC(BE) SHEET 9 OF 14

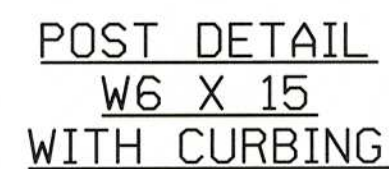
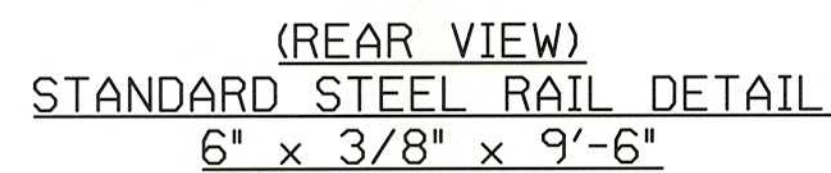
3. ADVANCE WARNING SIGNS, DISTANCES AND TAPER LENGTHS MAY BE EXTENDED AT THE DIRECTION OF THE ENGINEER TO ADJUST FOR REDUCED VISIBILITY DUE TO HORIZONTAL AND VERTICAL CURVATURE OF THE ROADWAY.
2. PRIOR TO ANY ROAD CONSTRUCTION, TRAFFIC CONTROL DEVICES AND SIGNS SHALL BE IN PLACE.
3. TWO (2) "ON OR ABOUT" CONSTRUCTION START DATE SIGNS SHALL BE ERECTED AT LEAST TWO (2) WEEKS PRIOR TO THE START OF CONSTRUCTION.
4. ALL CONFLICTING STRIPES SHALL BE REMOVED.
5. POLICE TRAFFIC DIRECTORS SHALL BE USED TO ASSIST IN CONTROLLING TRAFFIC INTERSECTIONS UNDER CONSTRUCTION.
6. THE MINIMUM UNOBSTRUCTED LANE WIDTH SHALL BE ELEVEN (11) FEET.
7. MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES – PART VI: "STANDARDS AND GUIDES FOR TRAFFIC CONTROL FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE, UTILITY, AND INCIDENT MANAGEMENT OPERATIONS," UNLESS OTHERWISE NOTED IN THE PLANS AND SPECIFICATIONS, AND SHALL BE APPROVED BY THE ENGINEER.
8. ALL EXCAVATED AREAS WITHIN OR ADJACENT TO THE ROADWAY SHALL BE BACKFILLED AND PLACED ON A MINIMUM 1:6 SLOPE PRIOR TO THE END OF EACH WORK DAY.
9. HOT MIX ASPHALT PLACED DURING THE VARIOUS CONSTRUCTION STAGES SHALL BE TRANSITIONED TO A MINIMUM 1:2 SLOPE TO MEET THE ADJACENT EXISTING GRADE AT THE LONGITUDINAL AND TRANSVERSE LIMITS OF THE STAGE CONSTRUCTION AREAS UNLESS OTHERWISE NOTED ON THE PLANS.
10. THE PLACEMENT AND/OR RELOCATION OF CONSTRUCTION BARRIER CURB SHALL BE DONE DURING APPROVED OFF-PEAK HOURS WHEN TRAFFIC MAY BE REDUCED TO ONE LANE IN EACH DIRECTION.
11. THE FINAL HOT MIX ASPHALT SURFACE PAVEMENT SHALL NOT BE CONSTRUCTED UNTIL THE FINAL STAGE OF THE PROJECT, MANHOLES AND INLETS SHALL BE SET TO FINISHED GRADE AND TEMPORARY PAVEMENT RAMPS ARE TO BE CONSTRUCTED AROUND THEM WITH A MINIMUM 1:20 SLOPE IN ALL DIRECTIONS USING HOT MIX ASPHALT PAVEMENT. THIS TEMPORARY MATERIAL WILL BE REMOVED IMMEDIATELY PRIOR TO PLACING THE SURFACE COURSE.



- 2) SPRINKLER HEADS TO BE RESET AND/OR RELOCATED, IF REQUIRED, COST TO BE INCLUDED IN THE CURB ITEM. IF "TOPSOLLING," 4" THICK, FERTILIZING AND SEEDING, TYPE A-3 AND STRAW MULCHING ARE SEPARATE PAY ITEMS. THEY SHALL BE PAID FOR SEPARATELY. OTHERWISE THEY SHALL BE INCLUDED IN THE CURB ITEM.
- 3) FULL CURB DEPTH SHALL BE MAINTAINED AT DROP CURVES.
- 4) 4" THICK, COARSE AGGREGATE SIZE NO. 57 SHALL BE CONSTRUCTED UNDERNEATH PROPOSED CURB IN WET FIELD CONDITIONS AS DIRECTED BY ENGINEER.
- 5) TOP OF CURB SHALL NOT BE SET HIGHER THAN ADJACENT EXISTING OR PROPOSED SIDEWALK UNDER ANY CONDITION.
- 6) ALL CONCRETE SURFACES SHALL BE TREATED WITH A CONCRETE CURING AND SEALING COMPOUND.

[illegible]

SHEET 13 OF 14

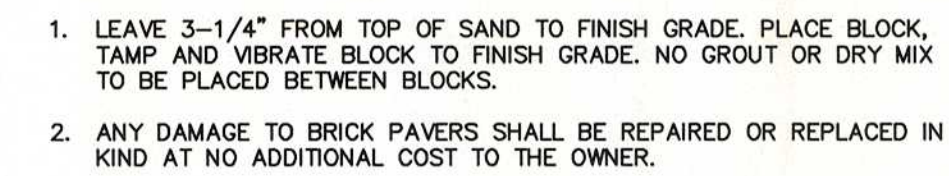
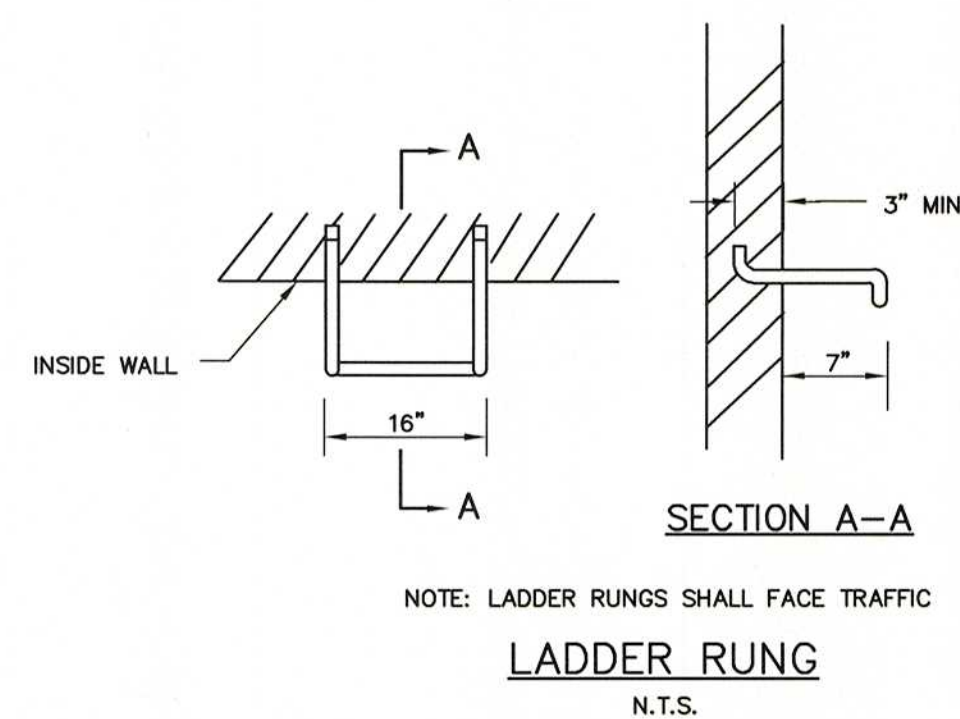
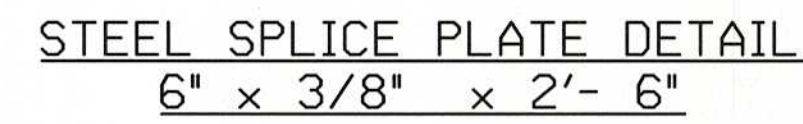


1. POSTS SHALL BE SPACED AT 10' ON CENTER.
2. ALL STEEL FOR PLATES AND POSTS SHALL BE ASTM A 709, GRADE 36.
3. ALL STEEL COMPONENTS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A 123.
4. ALL BOLTS SHALL BE ASTM A 325, TYPE I, AND GALVANIZED IN ACCORDANCE WITH ASTM A 153.
5. TWO ADDITIONAL $\frac{5}{8}$ " DIA. X 4" LONG LAG SCREWS AND WASHERS SHALL BE INSTALLED AT ALL MID-SPAN POINTS FOR STANDARD SYSTEMS.
6. ALL CONNECTION HARDWARE SHALL BE SUFFICIENTLY TIGHTENED TO ACCOMMODATE FOR SHRINKAGE OF THE WOOD ELEMENTS.

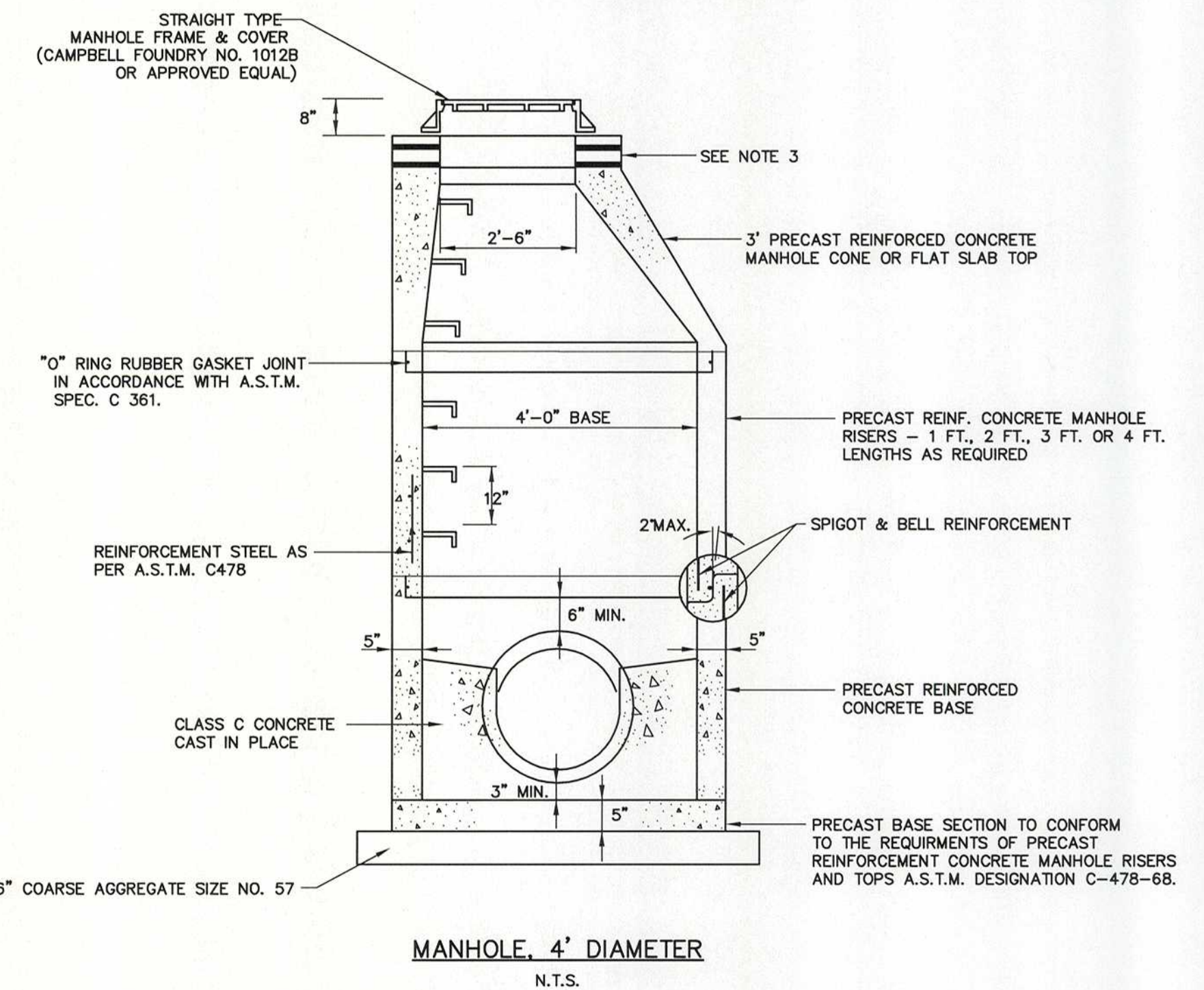
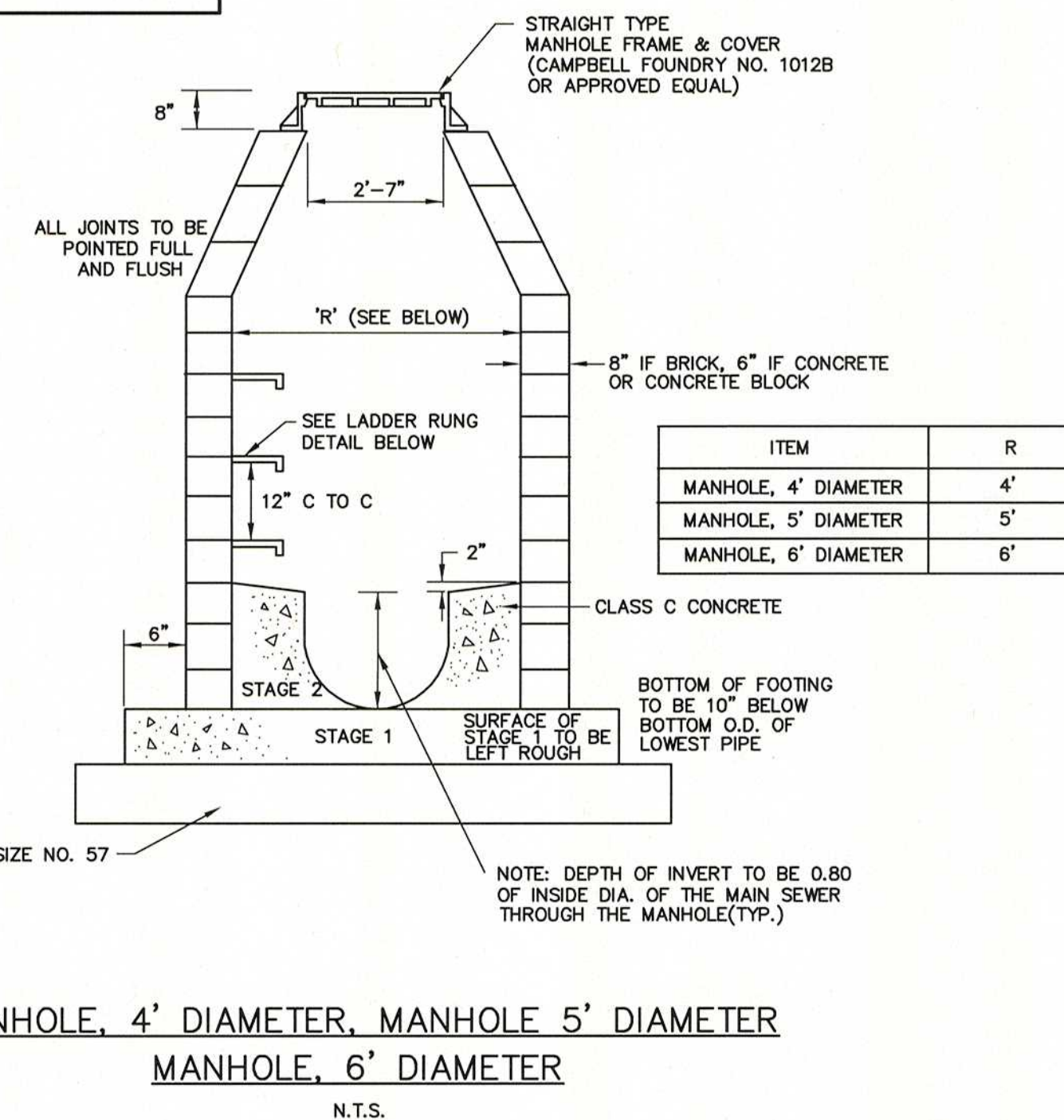
Technical drawing of a standard steel rail splice. The drawing shows two rails joined by a splice plate, which is secured by a W6 x 15 steel post. Dimensions are indicated in feet and inches:

- Top rail: 6' x 12' x 10' ROUGH SAWN TIMBER RAIL
- Splice plate: STRAIGHT SPLICE PLATE
- Steel post: W6 x 15 STEEL POST
- Bottom rail: STANDARD STEEL RAIL
- Dimensions: 1', 3 1/4', 1 1/2', 3', 1 1/2', 3'

REAR VIEW ELEVATION
POST CONNECTION



RESET BRICK PAVERS
N.T.S.



NO.	DATE	DESCRIPTION	SURVEYED BY	DRAWN BY	DESIGNED BY	CHECKED BY		
PLOT BY:	mcschelis	PLOT DATE:	3/17/2017	8:21 AM				



BOSWELL ENGINEERING

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330 PHILLIPS AVENUE, SOUTH HACKENSACK, N.J. 07606
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N.J. CERTIFICATE OF AUTHORIZATION NO. 24GA27958000

STEPHEN T. BOSWELL

PROFESSIONAL ENGINEER N.J. LIC. 34680

CHRISTOPHER J. NASH

PROFESSIONAL ENGINEER N.J. LIC. 31605

ENTRY 4 SIDEWALK & RECREATION CENTER ENTRANCE IMPROVEMENTS

CONSTRUCTION DETAILS -3-
TOWNSHIP OF WAYNE

PASSAIC COUNTY NEW JERSEY

SURVEYED BY: N/A	DESIGNED BY: JJM	SCALE:	JOB NO.	DATE:
DRAWN BY: JJM	CHECKED BY: CJN	N.T.S.	16-119-BE	3/17/17

CADD FILE: 16-119-DS(BE) SHEET 14 OF 14