

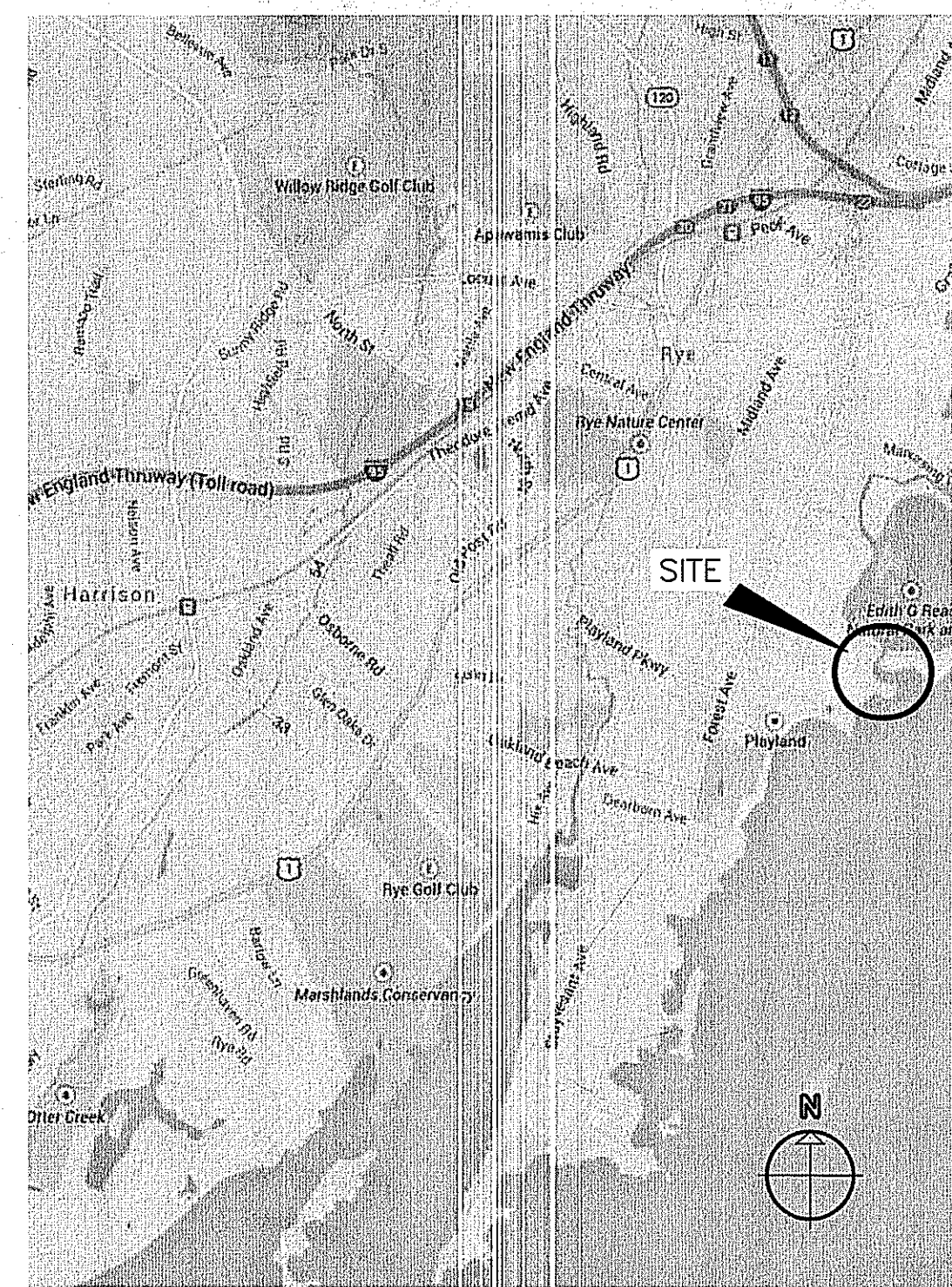
WESTCHESTER COUNTY



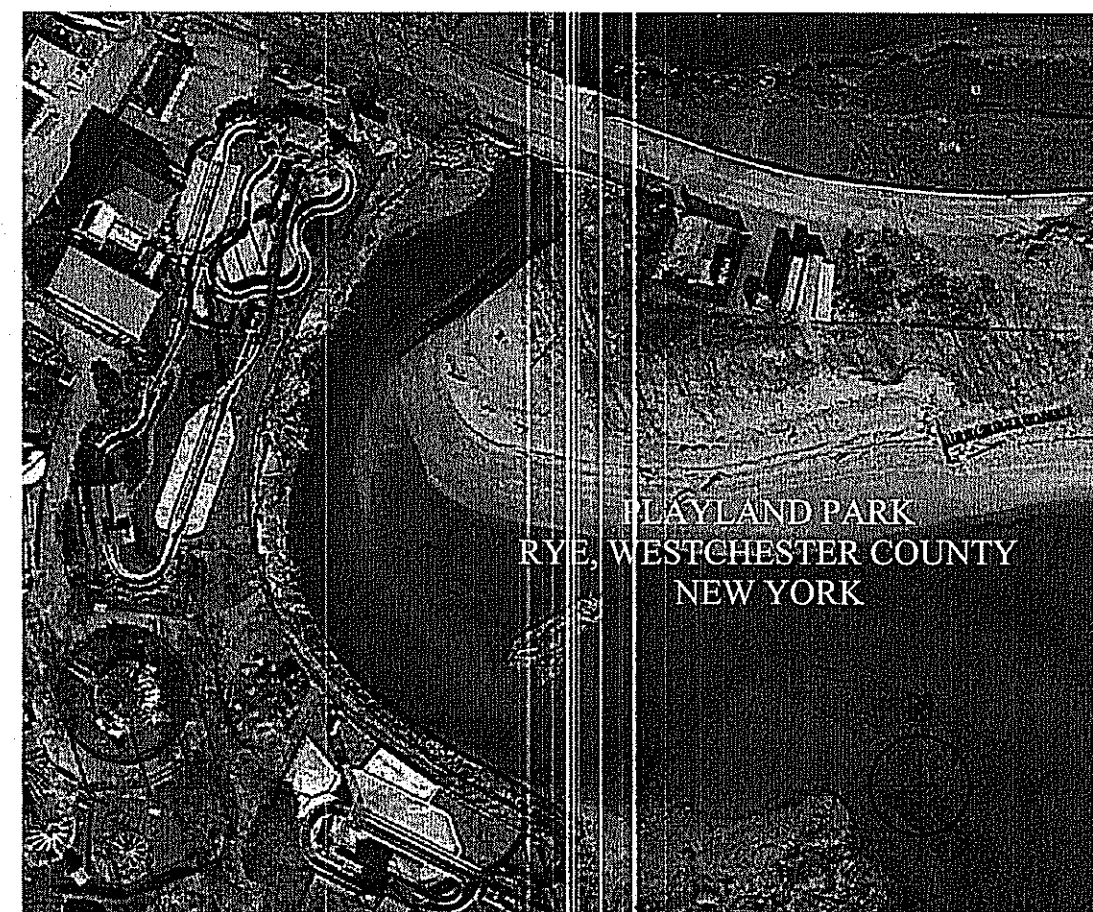
WESTCHESTER COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION  
DIVISION OF ENGINEERING

CONTRACT No. 15-528  
SUPERSTORM SANDY REHABILITATION  
NORTH BOARDWALK RECONSTRUCTION  
PLAYLAND PARK  
RYE, NEW YORK

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LOCATION MAP  
SCALE: N.T.S.



VICINITY MAP  
SCALE: N.T.S.

<b>CONSULTANT SEAL</b> 		<b>CONSULTANT INFORMATION</b> <b>McLaren</b> ENGINEERING GROUP applied ingenuity M. G. McLAREN, P.C. 100 Snake Hill Road, West Nyack, NY 10994 Tel. (845) 353-8400 Fax. (845) 353-8509 www.mgmclaren.com		
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CONTRACTOR		PROJECT COORDINATOR		
NAME	SIGNATURE	NAME	SIGNATURE	DATE
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WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING				CONTRACT NUMBER 15-528 SHEET NUMBER T-001
SUPERSTORM SANDY REHABILITATION NORTH BOARDWALK RECONSTRUCTION PLAYLAND PARK RYE, NEW YORK TITLE SHEET				SCALE: N.T.S. DATE: 09/22/16 DPW FILE NO. 1-08-T-142 REV. NO. 0

IN CHARGE OF J. V. GREEN P.E.  
CHECKED BY S. E. THORVALDSEN  
MADE BY B. G. MARQUEZ

RECOMMENDED FOR CONSTRUCTION  
FOR  
R. SCOTT DONNELLY, P.E.  
DIRECTOR OF PROJECT MANAGEMENT  
DEPARTMENT OF PUBLIC WORKS  
AND TRANSPORTATION  
DATE 09/22/16

APPROVED FOR CONSTRUCTION  
KATHLEEN O'CONNOR  
COMMISSIONER  
DEPARTMENT OF PARKS, RECREATION  
AND CONSERVATION  
DATE 9/22/16

APPROVED FOR CONSTRUCTION  
THOMAS J. LAURO, P.E.,  
ACTING COMMISSIONER  
DEPARTMENT OF PUBLIC WORKS  
AND TRANSPORTATION  
DATE 9/23/16



1. BUILDING CODE: THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH THE 2010 NEW YORK STATE BUILDING CODE. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THIS CODE AND LOCAL REQUIREMENTS.
2. SERVICE CONDITION DENOTES THE MAXIMUM ALLOWABLE ENVIRONMENTAL CONDITIONS WITHIN WHICH THE STRUCTURE IS DESIGNED TO OPERATE. FACTOR OF SAFETY IS IN ACCORDANCE WITH CODE.  
EXTREME CONDITION DENOTES THE MAXIMUM ALLOWABLE ENVIRONMENTAL CONDITIONS WITHIN WHICH THE STRUCTURE IS DESIGNED TO MAINTAIN ITS STRUCTURAL INTEGRITY. FACTOR OF SAFETY = 1.15 AGAINST YIELD OF STEEL OR FAILURE OF CONCRETE.
3. DESIGN LOADS
  - A. LIVE LOAD:  
LIVE LOAD ON PEDESTRIAN PLATFORMS = 100 psf  
SNOW LOAD = 50 psf
  - B. SUPERIMPOSED DEAD LOAD:
  - C. WIND LOAD: (ASCE 7-10)  
WIND SPEED = 98 MPH  
(PER NYC BUILDING CODE)  
FORCE COEFFICIENT = 0.8 (EXPOSURE C)  
RISK CATEGORY = II  
GUST EFFECT FACTOR = 0.85
  - D. WAVE ANALYSIS:  
EXTREME DESIGN WAVE HEIGHT = 11.52'  
SERVICE DESIGN WAVE HEIGHT = 9.94'  
WAVE PRESSURE ANALYSIS ASSUMES A STANDING WAVE PRESSURE DIAGRAM AND SAINFLOU DISTRIBUTION = 433 PSF
4. CONTRACTOR SHALL REVIEW SPECIFICATIONS LOCATED IN THE CONTRACT DOCUMENTS. IF THERE ARE DISCREPANCIES NOTIFY THE ENGINEER.
5. CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION.

- ALL WORK SHALL CONFORM WITH ALL FEDERAL, STATE, COUNTY, OR LOCAL CODES HAVING JURISDICTION OVER SUCH WORK. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THAT PORTION OF THE WORK.
2. PLAYLAND PARK IS LISTED ON THE NATIONAL REGISTER OF HISTORIC PLACES AND IS A NATIONAL HISTORIC LANDMARK (NHL). THE PROJECT'S CONSTRUCTION DOCUMENTS HAVE BEEN DEVELOPED IN COMPLIANCE WITH THE SECRETARY OF THE INTERIOR'S STANDARD FOR THE TREATMENT OF HISTORIC PROPERTIES. ANY DEVIATION FROM THE PROJECT'S CONSTRUCTION DOCUMENTS OR SPECIFICATIONS MUST BE REVIEWED BY THE COUNTY TO VERIFY THE PROJECT'S CONTINUED COMPLIANCE WITH THE STANDARDS.
3. CONTRACTOR IS SOLELY RESPONSIBLE FOR MEANS, METHODS, AND SAFETY OF WORK.
4. DIMENSIONS SHOWN ON THESE CONSTRUCTION PLANS HAVE BEEN OBTAINED FROM LIMITED FIELD SURVEY AND MAY NOT ACCURATELY REFLECT PRESENT FIELD CONDITIONS. ACCORDINGLY, THE CONTRACTOR WILL BE RESPONSIBLE FOR MAKING FIELD MEASUREMENTS OF ALL EXISTING STRUCTURES IMPACTED BY THE PROJECT TO ASSURE CONSISTENCY WITH THE PROPOSED CONSTRUCTION PLANS; THAT IS, THE CONTRACTOR SHALL FIELD VERIFY ACTUAL CONDITIONS, DIMENSIONS, CLEARANCES, ELEVATIONS, AND OTHER INFORMATION INDICATED IN THE DOCUMENTS PRIOR TO ORDERING ANY MATERIALS, COMMENCING ANY FABRICATIONS, OR PERFORMING ANY WORK. THE CONTRACTOR SHALL NOTIFY THE OWNERS REPRESENTATIVE OF ANY FIELD CONDITIONS WHICH MAY DIFFER FROM THAT REPRESENTED PRIOR TO COMMENCING WORK.
5. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL VISIT THE SITE AND SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF ANY ADDITIONAL UTILITIES, STRUCTURES, OR ANY OTHER ELEMENTS WHICH MAY IMPEDE WORK. UTILITY AND/OR STRUCTURE RELOCATIONS, IF NECESSARY, SHALL BE COORDINATED THROUGH THE OWNER'S REPRESENTATIVE AT NO ADDITIONAL COST.
6. PRIOR TO COMMENCING ANY WORK, THE CONTRACTOR SHALL SCHEDULE AND COORDINATE ALL WORK THROUGH THE OWNER'S REPRESENTATIVE AND ANY OTHER OCCUPYING TENANT WHO WILL BE AFFECTED BY CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL COORDINATE THE WORK SO AS TO MINIMIZE INTERRUPTIONS IN FACILITY OPERATIONS. (ACCESS AND EGRESS).
7. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE OSHA REGULATIONS AND SAFETY PROCEDURES TO ENSURE PERSONNEL HEALTH AND SAFETY. THE CONTRACTOR MUST MAINTAIN A SAFE AND CLEAN WORKING ENVIRONMENT AND SHALL ASSURE PROPER PERSONAL PROTECTIVE EQUIPMENT AT ALL TIMES. IN AREAS WHERE PEDESTRIAN AND/OR VEHICULAR TRAFFIC MAY BE AFFECTED BY THE WORK, THE CONTRACTOR SHALL CORDON OFF THE WORK AREA.
8. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR COMPLIANCE WITH THE TERMS AND CONDITIONS OF ALL PERMITS ISSUED BY ANY REGULATING AGENCY HAVING JURISDICTION OVER THE WORK OF THIS PROJECT.
9. THE CONTRACTOR SHALL EXERCISE EXTREME CARE TO PREVENT DAMAGE TO EXISTING STRUCTURES BY OR AS A RESULT OF HIS OPERATIONS. ANY DAMAGE RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AS DIRECTED BY THE OWNER'S REPRESENTATIVE AT NO ADDITIONAL COST.
10. ALL DEBRIS AS A RESULT OF OR IN THE IMMEDIATE VICINITY OF THE WORK SHALL BE RECOVERED AND PROPERLY DISPOSED OF BY THE CONTRACTOR AT NO ADDITIONAL COST.
11. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT ALL CONSTRUCTION DEBRIS OR WASTE FROM FALLING INTO THE WATER, ANY DEBRIS FALLING INTO THE WATER SHALL BE RECOVERED AND PROPERLY DISPOSED.
12. CONTRACTORS WILL COORDINATE WITH WESTCHESTER COUNTY DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION FOR MATERIAL LAYDOWN AREAS.
13. SLOPE OF DECK 1/8" PER FOOT (1/8"/FT).


- THE PERMIT CONDITIONS OUTLINED IN THESE NOTES ARE FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR READING AND COMPLYING WITH ALL CONDITIONS STIPULATED IN THE PERMITS ISSUED BY THE REGULATORY AGENCIES. PERMITS OBTAINED INCLUDE:
- |        |                |
|--------|----------------|
| USACE  | NAN-2016-00172 |
| NYSDEC | 3-5514-00023   |
|        | 3-5514-00026   |
|        | 3-5514-00027   |
|        | 3-5514-00028   |
| NYSDOS | F-2016-0142    |
- THE PLANS CONTAINED HEREIN WERE PREPARED IN ACCORDANCE WITH THE ENVIRONMENTAL PERMIT(S). THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES BETWEEN THE PLANS AND PERMIT(S). WORK PERFORMED BY CONTRACTOR WHICH IS FOUND NONCOMPLIANT WITH PERMIT CONDITIONS SHALL BE REMOVED BY THE CONTRACTOR AT NO ADDITIONAL COST.
  - CONTRACTOR IS RESPONSIBLE FOR CONSPICUOUSLY POSTING THE PERMIT SIGN ENCLOSED WITH THE PERMIT(S) IN A PUBLICLY ACCESSIBLE LOCATION AND MAINTAINING A COPY OF THE ENVIRONMENTAL PERMIT(S) ON SITE AT ALL TIMES.
  - MORATORIUM FOR IN-WATER WORK: IN-WATER WORK IS PROHIBITED FROM APRIL 15 TO AUGUST 30.
  - NOTICE TO COMMENCE WORK: THE OWNER IS RESPONSIBLE FOR NOTIFYING THE REGULATORY AGENCIES AT LEAST SEVEN (7) DAYS PRIOR TO START OF WORK. CONTRACTOR SHALL PROVIDE OWNER WITH AN INTENDED WORK COMMENCEMENT SCHEDULE PER CONTRACT REQUIREMENTS.
  - ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO PRECLUDE CONTAMINATION OF ANY WETLAND OR WATERWAY BY SUSPENDED SOLIDS, SEDIMENTS, FUELS, SOLVENTS, LUBRICANTS, EPOXY COATINGS, PAINTS, CONCRETE, LEACHATE OR ANY OTHER ENVIRONMENTALLY DELETERIOUS MATERIALS ASSOCIATED WITH THE PROJECT.
  - NO SITE PREPARATION WORK SHALL BE UNDERTAKEN UNTIL ALL REQUIRED EROSION CONTROL MEASURES HAVE BEEN INSTALLED.
  - NOTICE OF PROJECT COMPLETION: THE CONTRACTOR SHALL NOTIFY THE REGULATORY AGENCIES UPON COMPLETION OF WORK.

ALL WORK WILL BE PERFORMED IN COMPLIANCE WITH THE FOLLOWING PUBLICATIONS OR STANDARDS:

1. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)
  - A. CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES
  - B. SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS
  - C. SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A 325 OR ASTM A 490 BOLTS
2. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)
  - A. ASTM A6 STANDARD SPECIFICATION FOR GENERAL REQUIREMENTS FOR ROLLED STRUCTURAL STEEL BARS, PLATES, SHAPES, AND SHEET PILING
  - B. ASTM A325 STANDARD SPECIFICATIONS FOR STRUCTURAL STEEL BOLTS, HEAT TREATED, 830 N/MM<sup>2</sup>, MINIMUM TENSILE STRENGTH.
  - C. ASTM A572 OR ASTM A992 HIGH STRENGTH LOW ALLOY STRUCTURAL STEEL
  - D. ASTM F941 STANDARD PRACTICE FOR INSPECTION OF MARINE SURFACE PREPARATION AND COATING APPLICATION

1. THE CONTRACTOR SHALL SUBMIT TO THE OWNERS REPRESENTATIVE, A REMOVAL SCHEDULE, AND A TEMPORARY SHORING PLAN AS MAY BE REQUIRED FOR DEMOLITION AND REMOVALS. THE TEMPORARY SHORING PLAN SHALL BE DESIGNED AND PREPARED BY A PROFESSIONAL ENGINEER, LICENSED IN THE STATE OF NEW YORK. THE CONTRACTOR SHALL NOT COMMENCE WORK WITHOUT APPROVAL FROM THE OWNER'S REPRESENTATIVE OF THE DEMOLITION AND REMOVAL SCHEDULE AND THE TEMPORARY SHORING PLAN.
2. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING, IDENTIFYING AND MARKOUT OF ALL UTILITIES PRIOR TO START OF DEMOLITION WORK.
3. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND STAGING DEMOLITION WORK WITH OTHER CONSTRUCTION ACTIVITIES AT THE SITE.
4. THE CONTRACTOR SHALL PERFORM ALL WORK WITH CARE SO THAT ANY MATERIALS WHICH ARE TO REMAIN IN PLACE, OR WHICH ARE TO REMAIN THE PROPERTY OF THE OWNER, WILL NOT BE DAMAGED. IF CONTRACTOR DAMAGES ANY MATERIALS WHICH ARE TO REMAIN IN PLACE, OR WHICH ARE TO REMAIN THE PROPERTY OF THE OWNER, DAMAGED MATERIALS SHALL BE REPAIRED OR REPLACED IN A MANNER SATISFACTORY TO OWNER'S REPRESENTATIVE AT THE EXPENSE OF THE CONTRACTOR.
5. WHENEVER ITEMS IN THE CONTRACT REQUIRE MATERIALS TO BE REMOVED AND DISPOSED, THE COST OF SUPPLYING A DISPOSAL AREA AND TRANSPORTATION TO THAT AREA SHALL BE INCLUDED IN THE PRICE BID FOR THOSE ITEMS.
6. ALL DEBRIS AS A RESULT OF, OR IN THE IMMEDIATE VICINITY OF THE WORK SHALL BE RECOVERED AND PROPERLY DISPOSED OF BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
7. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT ALL CONSTRUCTION DEBRIS OR WASTE FROM FALLING INTO THE WATER. ANY DEBRIS FALLING INTO THE WATER SHALL BE RECOVERED AND LEGALLY DISPOSED OF AT NO ADDITIONAL COST TO THE OWNER.

1. ALL TIMBER SHALL BE IPE UNLESS OTHERWISE NOTED. ALL IPE SHALL BE SOLID, ROUGH SAWN TIMBER WITH A MINIMUM STRESS RATING OF 4500 PSI.

CONSULTANT SEAL				INFORMATION  <p>M. G. McLAREN, P.C.          100 Snake Hill Road, West Nyack, NY 10994          Tel. (845) 353-6400 Fax. (845) 353-6509 www.mgmclaren.com</p>	
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<b>WESTCHESTER COUNTY, NEW YORK</b> <b>DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION</b> DIVISION OF ENGINEERING				CONTRACT NUMBER 15-528 SHEET NUMBER G-001 SHEET NO. 2 OF 21	
SUPERSTORM SANDY REHABILITATION NORTH BOARDWALK RECONSTRUCTION PLAYLAND PARK RYE, NEW YORK GENERAL NOTES - 1				SCALE: AS NOTED DATE: 09/22/16 DPW FILE NO. 1-08-C-143 REV. NO. 0	



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STEEL PIPE PILES:

- STEEL PIPE PILES SHALL CONFORM TO ASTM A252 GRADE 3 WITH A MINIMUM YIELD STRESS OF 45 KSI AND SHALL BE FREE OF GREASE, MILL SCALE AND OTHER SUBSTANCES.
- STEEL PIPE PILES SHALL HAVE MAXIMUM CAMBER OF 2" OVER THE LENGTH OF THE PILE AS DELIVERED ON SITE.
- STEEL PIPE PILES SHALL HAVE MAXIMUM SWEEP OF 1" OVER THE LENGTH OF THE PILE AS DELIVERED ON SITE.
- STEEL PILES SHALL BE COATED WITH ONE OF THE FOLLOWING SYSTEMS:  
A. SHERWIN WILLIAMS TAR-GARD, 2 CTS @ 8-16 MILS/COAT DFT.  
B. SHERWIN WILLIAMS DURAPLATE BY SPLASH ZONE 1 CT @ 15-30 MILS/COAT DFT.  
C. HEMPEL HEMPADUE MULTI-STRENGTH 45751 2 CTS @ 8 MILS/COAT DFT.  
D. TNMEC HI-BUILD TNME-TAR 46H-413 2 CTS @ 8-10 MILS/CT DFT.  
E. CARBOLINE BITUMASTIC 300M 2 CTS @ 8-16 MILS/CT DFT.  
F. APPROVED EQUAL
- DAMAGED COATINGS SHALL BE REPAIRED BY THE CONTRACTOR IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AT HIS OWN EXPENSE.
- CONTRACTOR OR FABRICATOR SHALL TEST FOR CONTINUITY OF COATING ON 100% OF SURFACES WITH A LOW VOLTAGE HOLIDAY TESTER AND REPAIR ALL HOLIDAYS DETECTED TO MEET SUCH TEST.
- MATERIAL DATA SHEET FOR COATINGS SHALL BE SUBMITTED TO THE OWNER FOR APPROVAL.

CONCRETE:

- ALL CONCRETE WORK SHALL CONFORM TO REQUIREMENTS OF THE ACI BUILDING CODE REQUIREMENT FOR STRUCTURAL CONCRETE (318-11).
- ALL CONCRETE SHALL BE AIR ENTRAINED, 6% ± 1.5% BY VOLUME, FOR 3/4" COARSE AGGREGATE. NO CARBONACEOUS AGGREGATES SHALL BE USED.
- ALL CONCRETE SHALL BE MIXED, TRANSPORTED AND PLACED IN ACCORDANCE WITH ACI STANDARDS 318 AND 304.
- FOLLOW ACI STANDARD 211.1 FOR MIXING WATER REQUIREMENTS.
- ALL CONCRETE SHALL HAVE COMPRESSIVE STRENGTH Fc' = 5000 PSI AT 28 DAYS WITH A MAXIMUM W/C RATIO OF 0.38 UNLESS NOTED OTHERWISE ON SCHEDULES OR NOTES.
- MAXIMUM CONCRETE SLUMP SHALL BE 4", PRIOR TO THE ADDITION OF PLASTICIZING ADMIXTURES.
- TEST CYLINDERS SHALL BE TAKEN FROM THE MIXER IN ACCORDANCE WITH ASTM C172.
- CONSTRUCTION JOINTS SHALL BE NO MORE THAN 40 FT. ON CENTER, UNLESS OTHERWISE NOTED.

REINFORCING:

- CONCRETE COVER MEASURED TO THE FACE OF THE REINFORCING BAR (INCLUDING TIES AND STIRRUPS) SHALL BE 3" UNLESS OTHERWISE INDICATED IN THE PLANS.
- ALL REINFORCING BARS SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A615, GRADE 60.
- ALL REINFORCING BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH ASTM A775.
- ALL CRACKED AND/OR CHIPPED EPOXY COATING SHALL BE RECOATED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- ALL SPLICE LENGTHS SHALL BE MINIMUM OF 27" (U.O.N.)
- USE TENSION SPLICE FOR ALL SPLICES (U.O.N.)
- THE CONTRACTOR MAY SUBMIT LESSER SPLICE LENGTHS FOR REVIEW AND APPROVAL TO THE ENGINEER OF RECORD AT THE SAME TIME PROVIDING THE FOLLOWING INFORMATION:  
A. DETAILS PREPARED AND SUBMITTED BY THE CONTRACTOR INDICATING LOCATION AND PROPOSED LAYOUT OF REBARS AND LENGTHS OF SPLICES.  
B. WHERE THE SIZE AND NUMBER OF TIES PERMIT THE REDUCTION OF LAP LENGTH, THOSE BARS SHALL BE INDICATED ON THE DETAILS.  
C. WHERE COMPUTED STRESS VALUES PERMIT THE REDUCTION OF LAP LENGTH, COMPUTATIONS SHALL BE SUBMITTED FOR REVIEW.  
D. THE APPLICABLE SECTION OF THE ACI-318-05 CODE PERMITTING THE LESSER SPLICE LENGTH SHALL BE INDICATED ON THE SUBMITTED MATERIAL.
- WHERE BARS OF DIFFERENT SIZES ARE TO BE SPLICED. THE SPLICE LENGTH FOR ALL BARS SHALL BE THAT REQUIRED FOR THE LARGEST.
- ALL SPLICE LENGTHS SHALL BE GREATER THAN OR EQUAL TO 36 X REINFORCING BAR DIAMETER FOR NO.6 BARS AND SMALLER. ALL SPLICE LENGTHS SHALL BE GREATER THAN OR EQUAL TO 45 X REINFORCING BAR DIAMETER FOR NO.7 BARS AND LARGER.
- ALL WELDED WIRE MESH SHALL CONFORM TO ASTM 185.

GROUT:

- HIGH STRENGTH, NON-SHRINK CEMENTITIOUS GROUT SHALL BE USED.
- ACCEPTABLE GROUTS ARE SIKAGROUT 212 BY SIKADUR; MASTER FLOW 928 BY CHEMREX; HI-FLOW GROUT BY EUCLID; OR APPROVED EQUIVALENTS.
- ALUMINUM BASE PLATES SHALL BE PROPERLY COATED ON ALL SIDES.

IN CHARGE OF J. V. GREEN P.E.  
CHECKED BY S. E. THORVALDSEN  
MADE BY B. G. MARQUEZ

PRECAST PRESTRESSED CONCRETE PLANKS:

- PRESTRESSING STEEL SHALL CONFORM TO ASTM A416.
- THE PRESTRESSING STRANDS SHALL BE LOW RELAXATION 0.5 INCH DIAMETER WITH A GUARANTEED ULTIMATE STRENGTH OF 270 KSI. JACKING FORCE = 33 KIP PER STRAND.
- THE LOCATION AND TYPE OF ALL PERMANENT INSERTS (e.g. BOTTOM ANCHOR PLATE FOR RAILING, INSERTS FOR UTILITY HANGERS, ETC.) AND DETAILED ON THE PRESTRESSED CONCRETE "SHOP DRAWINGS", SHALL BE SUBMITTED FOR APPROVAL.
- BAR REINFORCEMENT SHALL BE ASTM A615 GRADE 60. MINIMUM CONCRETE COVER TO MILD STEEL SHALL BE 2 1/2" OR AS SHOWN ON THE DRAWINGS.
- THE TOPS OF PRESTRESSED UNITS SHALL RECEIVE A TRANSVERSE STIFF BROOM FINISH.
- ALL EXPOSED CORNERS, EXCEPT THE TOP, SHALL BE CHAMFERED 3/4 INCH.
- REQUIRED MINIMUM CONCRETE COMPRESSIVE STRENGTH AT TRANSFER, f'c=3,500 PSI. REQUIRED MINIMUM CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS, f'c=6,000 KSI.
- THE ALLOWABLE TENSION IN THE PRESTRESSED CONCRETE UNITS AT TRANSFER, fti=177 PSI, AT 28 DAY STRENGTH, ft=232 PSI.
- ALL PRESTRESSED AND CONVENTIONAL REINFORCING STEEL SHALL HAVE A MINIMUM 3" CONCRETE COVER.

BONDING AGENTS FOR CONCRETE:

- WHERE FRESH CONCRETE IS TO BE POURED AGAINST PREVIOUSLY CURED CONCRETE, THE SURFACE OF THE EXISTING CONCRETE SHALL BE COATED WITH AN EPOXY RESIN/PORTLAND CEMENT BONDING AGENT, SUCH AS A SIKADUR ARMATEC 110, OR APPROVED EQUIVALENT.
  - PRIOR TO APPLYING THE BONDING AGENT, PREPARE THE EXISTING CONCRETE SURFACE BY JET-BLASTING THE IMMEDIATE SURFACE TO REMOVE OIL, DEBRIS AND LOOSE CONCRETE. FOLLOW THE MANUFACTURER'S RECOMMENDATIONS FOR ADDITIONAL SURFACE PREPARATION REQUIREMENTS.
  - BONDING AGENT NOT REQUIRED FOR CONSTRUCTION JOINTS BUILT PER STANDARD DETAILS.
  - A MAXIMUM CURING TIME OF 3 HRS BETWEEN APPLICATION OF THE BONDING AGENT AND THE CONCRETE POUR IS REQUIRED.
- WELDING:
- ALL WELDING AND FABRICATION SHALL CONFORM WITH THE AMERICAN WELDING SOCIETY (AWS) REQUIREMENTS AND GUIDELINES.
  - ALL WELDERS SHALL BE CERTIFIED BY AWS GUIDELINES.
  - UNLESS OTHERWISE INDICATED, ALL FILLET WELDS SHALL BE CONTINUOUS AND DOUBLE SIDED. ALL BUTT WELDS SHALL BE COMPLETE PENETRATIONS WELDS.
  - ALL WELDS SHALL BE SUBJECT TO NON DESTRUCTIVE TESTING AT THE DISCRETION OF THE ENGINEER OF RECORD AND AT THE CONTRACTOR'S COST.
  - ALL ELECTRODES USED SHALL COMPLY WITH ABS OR AWS SPECIFICATION AND SHALL BE E70XX LOW HYDROGEN.
  - ANY DEFECTS SHALL BE CORRECTED IN ACCORDANCE WITH AWS RULES AT NO ADDITIONAL COST TO THE OWNER.
  - ALL PIPE PILE SPLICES SHALL BE COMPLETE PENETRATION BUTT WELDS.

STEEL HARDWARE:

- STEEL FOR TIMBER CONNECTIONS SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS:  
THREADED ROD ASTM A36  
BOLTS ASTM A307 GRADE A  
NUTS ASTM A563  
WASHERS ASTM F436  
MISCELLANEOUS  
HOT ROLLED STEEL  
PLATES ASTM A36  
ASTM A36
- GALVANIZING: ALL TIMBER CONNECTING HARDWARE SHALL BE HOT-DIPPED GALVANIZED, AFTER FABRICATION, IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE SPECIFICATIONS AND OTHER REQUIREMENTS LISTED BELOW:  
A. SPECIFICATIONS FOR ZINC (HOT-GALVANIZED) COATINGS ON PRODUCTS FABRICATED FROM ROLLED, DRESSED AND FORGED STEEL SHAPES, PLATES AND STRIP - ASTM A123.  
B. SPECIFICATION FOR ZINC COATING (HOT-DIPPED GALVANIZED) ON IRON AND STEEL HARDWARE - ASTM A153.  
C. SPECIFICATION FOR ZINC COATING (HOT-DIP) ON ASSEMBLED STEEL PRODUCTS - ASTM A386.  
D. THE ZINC COATING SHALL WEIGH NOT LESS THAN 2 OUNCES PER SQUARE FOOT.  
E. ZINC DUST-ZINC OXIDE PRIMER CONFORMING TO MILITARY SPECIFICATION MIL-P-21035 SHALL BE APPLIED IN 2 COATS FOR REPAIRS TO DAMAGED SURFACES AFTER REMOVAL OF LOOSE OR CRACKED ZINC COATING.  
F. PRIOR TO GALVANIZING, ALL WELDED CONNECTIONS SHALL BE SEALED ALL AROUND WITH A SEAL WELD. BOLTED CONNECTIONS SHALL NOT BE MADE PRIOR TO GALVANIZING.

LAG SCREWS:

- LAG SCREWS SHALL CONFORM TO ANSI/ASME STANDARD B18.2.1-1981 AND SHALL BE HOT-DIPPED GALVANIZED.
- LEAD HOLES FOR LAG SCREWS SHALL BE BORED AS FOLLOWS:  
A. THE CLEARANCE HOLE FOR THE SHANK SHALL HAVE THE SAME DIAMETER AS THE SHANK AND THE SAME DEPTH OF PENETRATION AS THE LENGTH OF UNTHREADED SHANK.  
B. THE LEAD HOLE FOR THE THREADED PORTION SHALL HAVE A DIAMETER EQUAL TO 70% OF THE BOLT DIAMETER AND A LENGTH EQUAL TO AT LEAST THE LENGTH OF THE THREADED PORTION
- THE THREADED PORTION OF THE LAG SCREW SHALL BE INSERTED IN ITS LEAD HOLE BY TURNING WITH A WRENCH, NOT BY DRIVING WITH A HAMMER.
- SOAP OR OTHER LUBRICANT SHALL BE USED ON THE LAG SCREWS OR IN THE LEAD HOLES TO FACILITATE INSERTION AND PREVENT DAMAGE TO THE LAG SCREW.

COMMERCIAL/MANUFACTURED COMPONENTS:

- THESE COMPONENTS SHALL BE INSTALLED AND LOCATED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, UNLESS OTHERWISE NOTED.
- CONTRACTOR MUST SUBMIT SHOP DRAWINGS, MANUFACTURER'S SPECIFICATIONS AND SIGNED AND SEALED CALCULATIONS FOR APPROVAL BY ENGINEER FOR ALL COMMERCIAL/MANUFACTURER'S COMPONENTS.

EPOXY ADHESIVE ANCHORS:

- EPOXY ADHESIVE ANCHORS SHALL BE INSTALLED WITH ONE OF THE FOLLOWING SYSTEMS OR APPROVED EQUAL:  
A. HILTI HIT-RE 500-SD ADHESIVE.

TIDAL DATA	
•	NAVD88
MEAN HIGHER-HIGH WATER (MHHW)	3.75
MEAN HIGH WATER (MHW)	3.39
NAVD88	0.0
MEAN DIURNAL TIDE LEVEL (DTL)	-0.19
MEAN SEA LEVEL (MSL)	-0.24
MEAN TIDE LEVEL (MTL)	-0.25
NGVD29	-1.11
MEAN LOW WATER (MLW)	-3.90
MEAN LOWER-LOW WATER (MLLW)	-4.14

- NOTES:
- WATER ELEVATIONS SHOWN FOR PROJECT SITE BASED ON NOAA TIDE STATION 8518091, RYE BEACH AMUSEMENT PARK, NY.
  - ALL ELEVATIONS SHOWN REFERENCE NAVD88.
  - ELEVATIONS ARE IN FEET.

ABBREVIATIONS:

ADD'L.	ADDITIONAL
ALT.	ALTERNATE
BM.	BEAM
BOT.	BOTTOM
BP.	BEARING PLATE
CLR.	CLEAR
CL.	CENTERLINE
CONC.	CONCRETE
CONST.	CONSTRUCTION
DIA. OR Ø	DIAMETER
DWG.	DRAWING
DWL(S)	DOWEL(S)
EL. OR ELEV.	ELEVATION
EQ.	EQUAL
EXIST.	EXISTING
EXP. JT.	EXPANSION JOINT
FIN.	FINISH
F.L.	FAÇADE LINE
FT. OR '	FEET OR FOOT
FTG.	FOOTING
Fy.	YIELD STRESS
GALV.	GALVANIZED
GR.	GRADE
H.P.	HIGH POINT
H.S.	HIGH STRENGTH
H.S.B.	HIGH STRENGTH BOLT
IN. OR "	INCHES
J.	JOIST
KSI.	KIPS PER SQUARE INCHES
LONG.	LONGITUDINAL
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
L.P.	LOW POINT
MAX.	MAXIMUM
MBD	MANHATTAN BOROUGH DATUM
MHHW	MEAN HIGHER HIGH WATER
MHW	MEAN HIGH WATER
MIN.	MINIMUM
MECH.	MECHANICAL
MISC.	MISCELLANEOUS
MLLW	MEAN LOWER LOW WATER
MLW	MEAN LOW WATER
MSL	MEAN SEA LEVEL
MTL	MEAN TIDE LEVEL
NAVD88	NORTH AMERICAN VERTICAL DATUM
NGVD29	NATIONAL GEODETIC VERTICAL DATUM
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
PL	PLATE
PSI.	POUNDS PER SQUARE INCH
PSF.	POUNDS PER SQUARE FOOT
PVC	POLYVINYL CHLORIDE
R	RADIUS
REINF.	REINFORCING
SECT.	SECTION
SIM.	SIMILAR
S.O.G.	SLAB ON GRADE
SS	STAINLESS STEEL
STIFF.	STIFFENER
STRUCT.	STRUCTURE
SYMM.	SYMMETRICAL
T	TOP
THK. OR THKNS.	THICK OR THICKNESS
T.O.	THROUGH OUT
T.O.S.	TOP OF STEEL
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
VAR.	VARIES
VERT.	VERTICAL
V.I.F.	VERIFY IN FIELD
W/	WITH
WP	WORK POINT

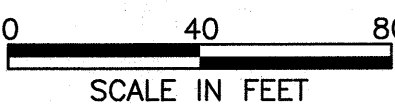
<b>CONSULTANT SEAL</b> 		<b>CONSULTANT INFORMATION</b>  M. G. McLAREN, P.C. 100 Snake Hill Road, West Nyack, NY 10994 Tel. (845) 353-6400 Fax: (845) 353-6509 www.mgmclaren.com		
REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
RECORD DRAWING CERTIFICATION				
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CONTRACTOR NAME _____ SIGNATURE _____ TITLE _____ DATE _____		PROJECT COORDINATOR NAME _____ SIGNATURE _____ TITLE _____ DATE _____		
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 15-528	SHEET NUMBER G-002	
SUPERSTORM SANDY REHABILITATION NORTH BOARDWALK RECONSTRUCTION PLAYLAND PARK RYE, NEW YORK GENERAL NOTES - 2		SHEET NO. 3 OF 21 SCALE: AS NOTED DATE: 09/22/16 DPW FILE NO. 1-08-G-144 REV. NO. 0		





- LEGEND:
- CONTOUR LINE
  - - - INDEX CONTOUR LINE
  - EDGE OF PAVEMENT
  - IRON FENCE
  - EDGE OF CONCRETE
  - EDGE OF WATER
  - UNDERGROUND STORM PIPE
  - STRUCTURE
  - SPOT EL.
  - GAS VALVE
  - WATER VALVE
  - UNKNOWN VALVE
  - HYDRANT
  - EXISTING PILES
  - DESTROYED PILES
  - MHHW
  - MHW
  - MLW

SITE SURVEY



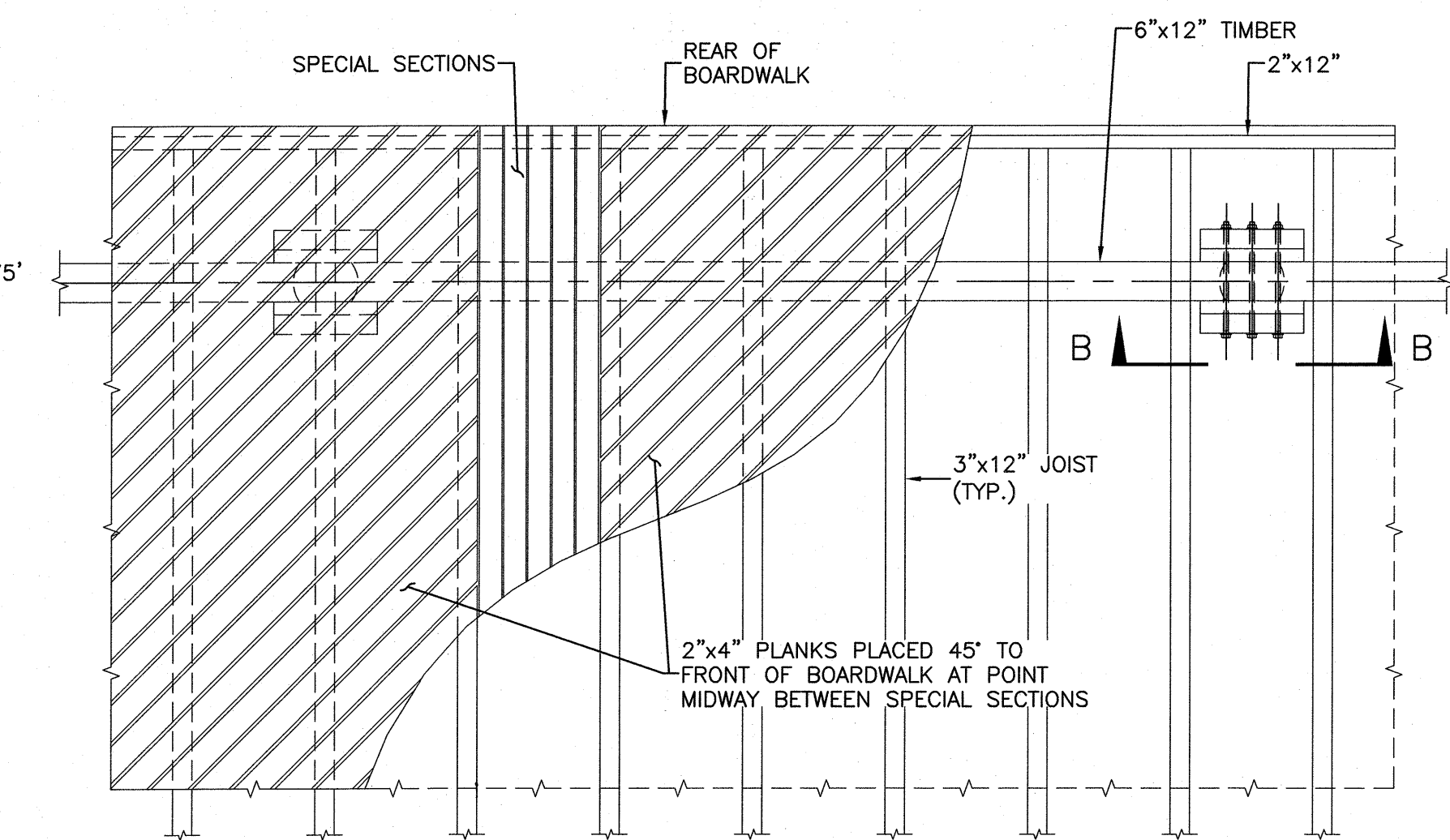
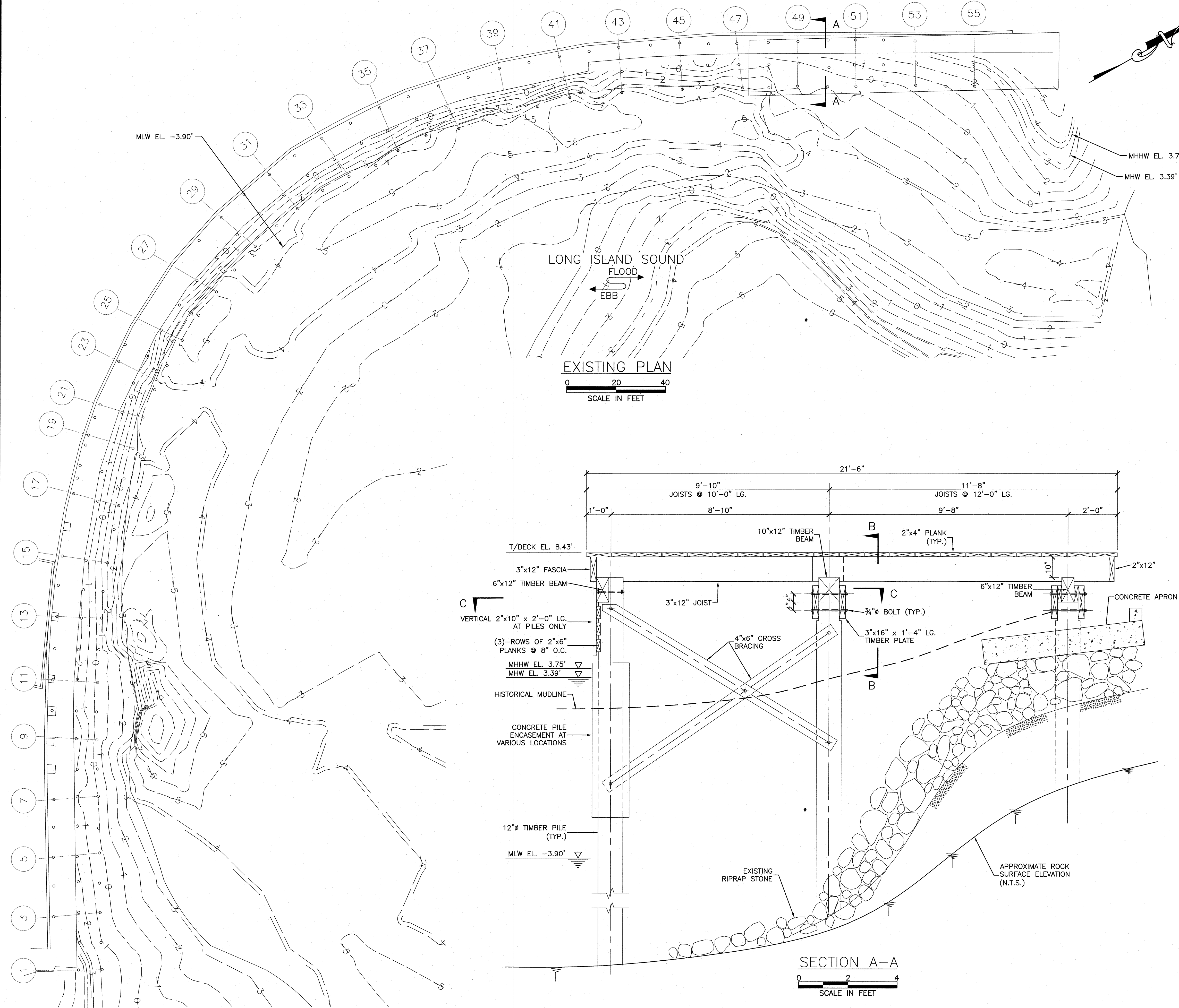
- NOTES:
1. LANDMETRICS ENGINEERING AND LAND SURVEYING P.C., PERFORMED A HYDROGRAPHIC SURVEY ALONG THE NORTHSIDE OF RYE PLAYLAND BOARDWALK ON 5/13/2015.
  2. HORIZONTAL DATUM: N.Y.S.P.C.S. NAD 1983 NEW YORK STATE PLANE.
  3. ALL ELEVATIONS SHOWN IN FEET IN REFERENCE TO NAVD 88.
  4. GIS MAP TAKEN FROM 2011.

IN CHARGE OF J. V. GREEN P.E.  
CHECKED BY S. E. THORVALDSEN  
MADE BY B. G. MARQUEZ

CONSULTANT SEAL		CONSULTANT INFORMATION		<b>McLaren</b> ENGINEERING GROUP applied ingenuity M. G. McLAREN, P.C. 100 Snake Hill Road, West Nyack, NY 10994 Tel. (845) 353-6400 Fax. (845) 353-6509 www.mgmclaren.com	
REVISION					
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SIGNATURE			SIGNATURE		
TITLE			TITLE		
DATE			DATE		
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING				CONTRACT NUMBER 15-528	SHEET NUMBER C-003
SUPERSTORM SANDY REHABILITATION NORTH BOARDWALK RECONSTRUCTION PLAYLAND PARK RYE, NEW YORK SITE SURVEY				SHEET NO. 4 OF 21 SCALE: AS NOTED DATE: 09/22/16 DPW FILE NO. 1-08-G-145	
				REV. NO. 0	

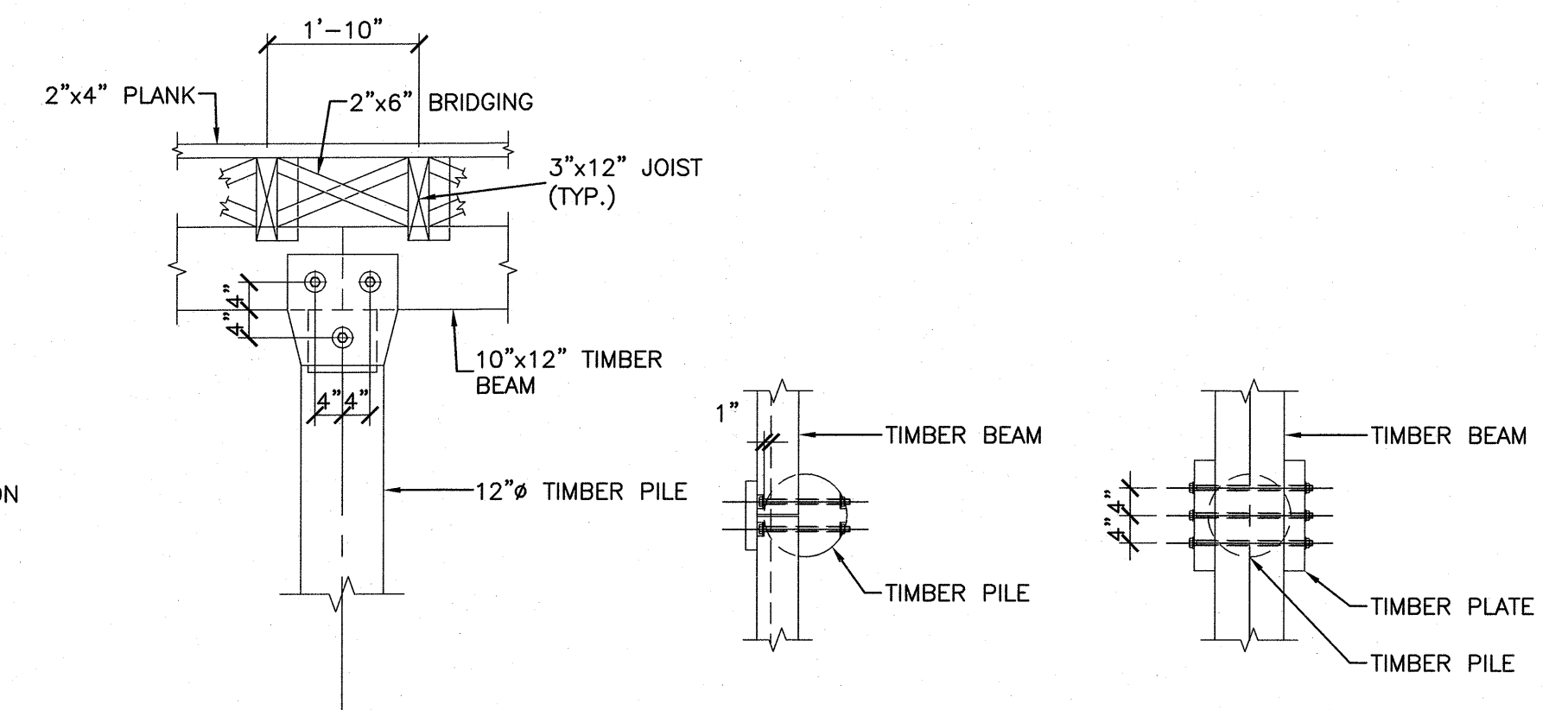


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PLAN SHOWING FRAMING AT REAR OF BOARDWALK AND ARRANGEMENT OF PLANKS

SCALE IN FEET

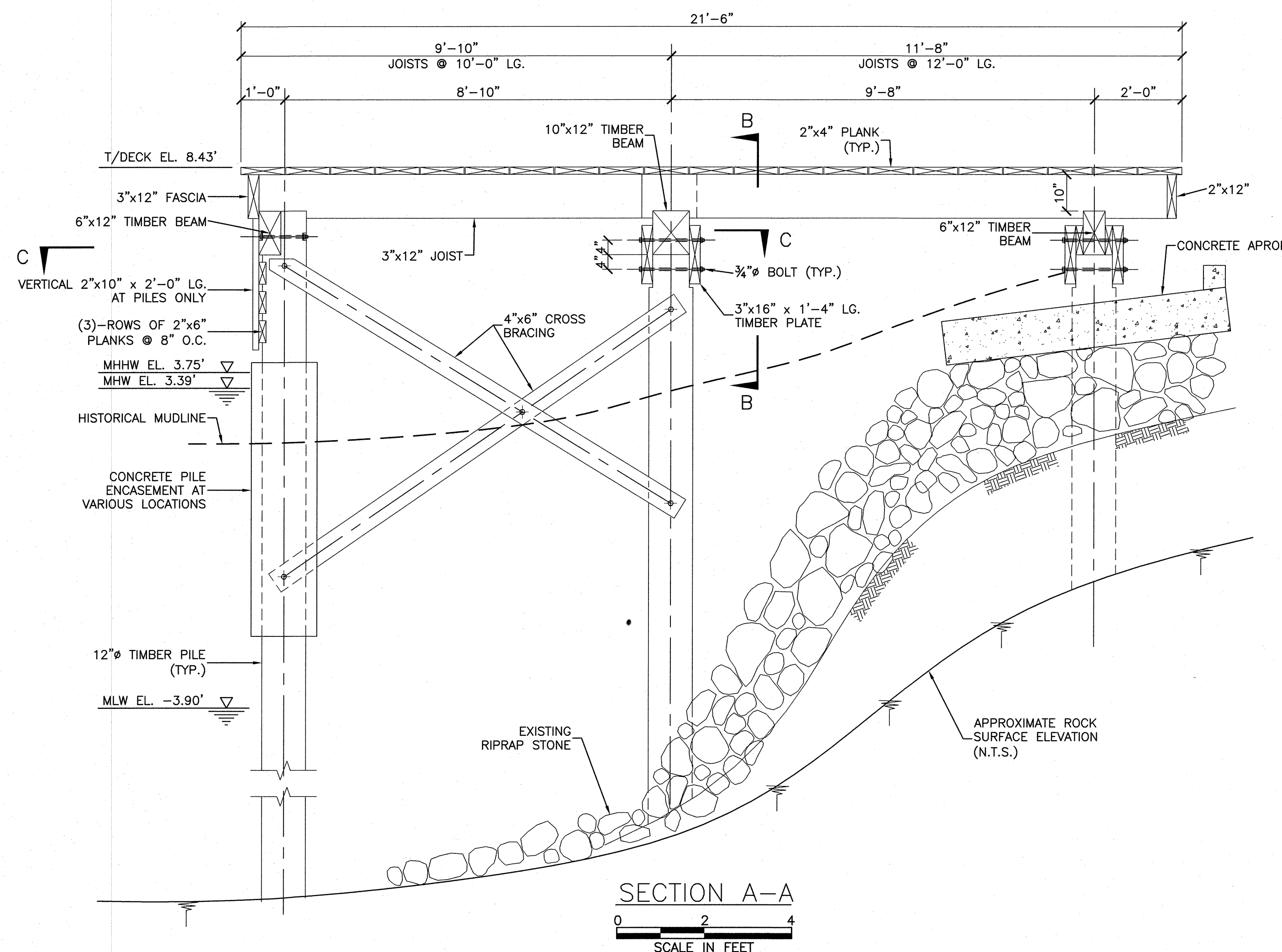


SECTION B-B

SCALE IN FEET

PLAN C-C

SCALE IN FEET



SECTION A-A

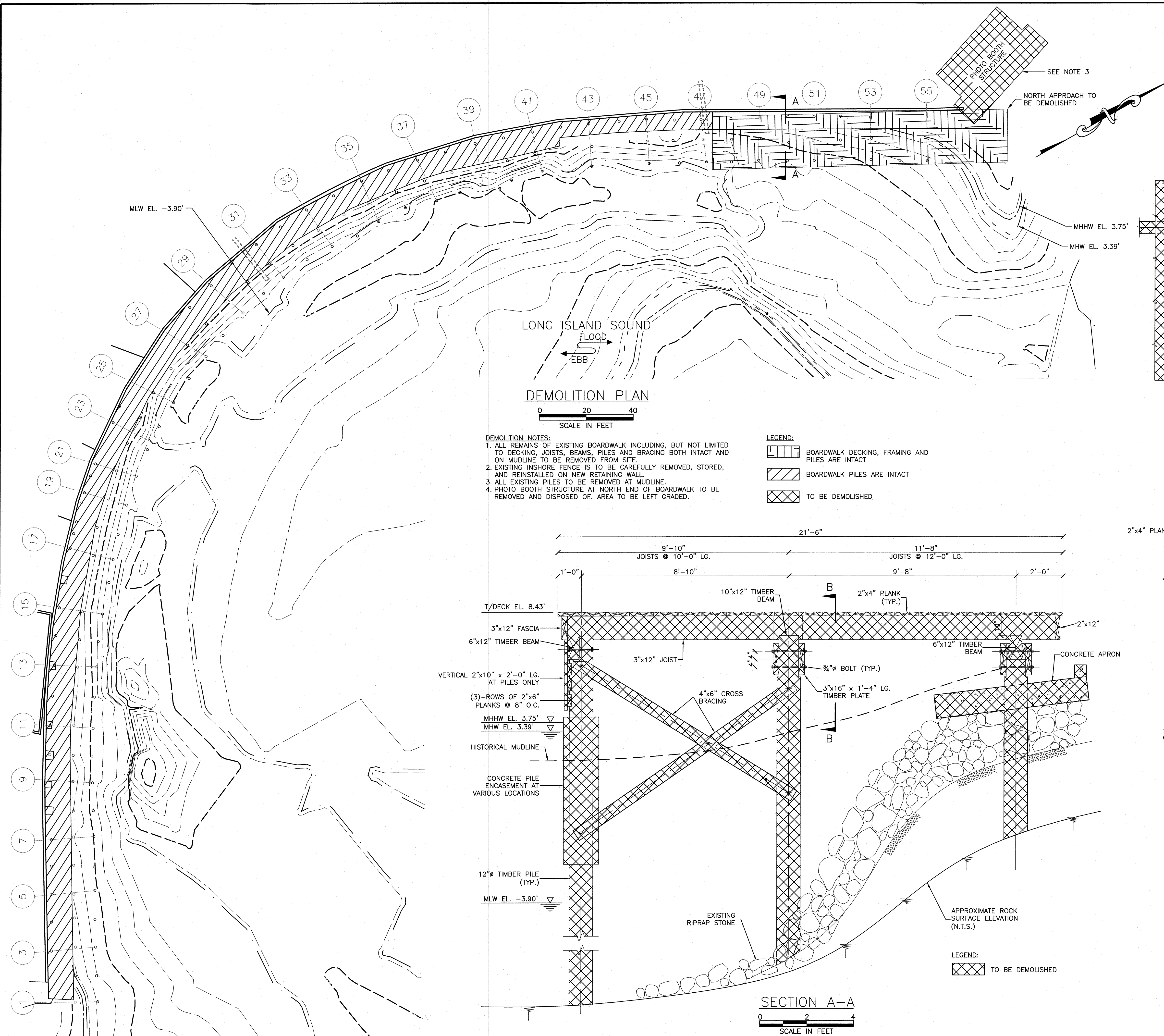
SCALE IN FEET

IN CHARGE OF J. V. GREEN P.E.  
CHECKED BY S. E. THORVALDSEN  
MADE BY B. G. MARQUEZ

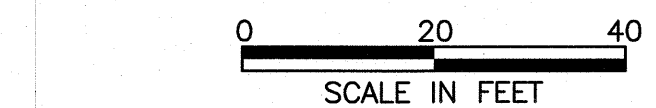
<b>CONSULTANT SEAL</b> 		<b>CONSULTANT INFORMATION</b> <b>McLaren</b> ENGINEERING GROUP applied ingenuity M. G. McLAREN, P.C. 100 Snake Hill Road, West Nyack, NY 10994 Tel. (845) 353-6400 Fax. (845) 353-6509 www.mgmclaren.com		
REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
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CONTRACTOR		PROJECT COORDINATOR		
NAME	SIGNATURE	NAME	SIGNATURE	DATE
TITLE	DATE	TITLE	DATE	DATE
WESTCHESTER COUNTY, NEW YORK		CONTRACT NUMBER		SHEET NUMBER
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION		15-528		G-004
DIVISION OF ENGINEERING		SHEET NO. 5		OF 21
SUPERSTORM SANDY REHABILITATION		SCALE: AS NOTED		DATE: 09/22/16
NORTH BOARDWALK RECONSTRUCTION PLAYLAND PARK		DPW FILE NO.		REV. NO.
RYE, NEW YORK		1-08-G-146		0
EXISTING PLAN AND SECTIONS				



FILE NAME: P:\Proj\40\40286\40286\DWG\001\_Demolition Plan and Sections.dwg PLOT TIME: Wed, 21 Sep 2016 - 3:38pm LAST SAVE: Wed, 21 Sep 2016 - 11:43am BY: Blumarez



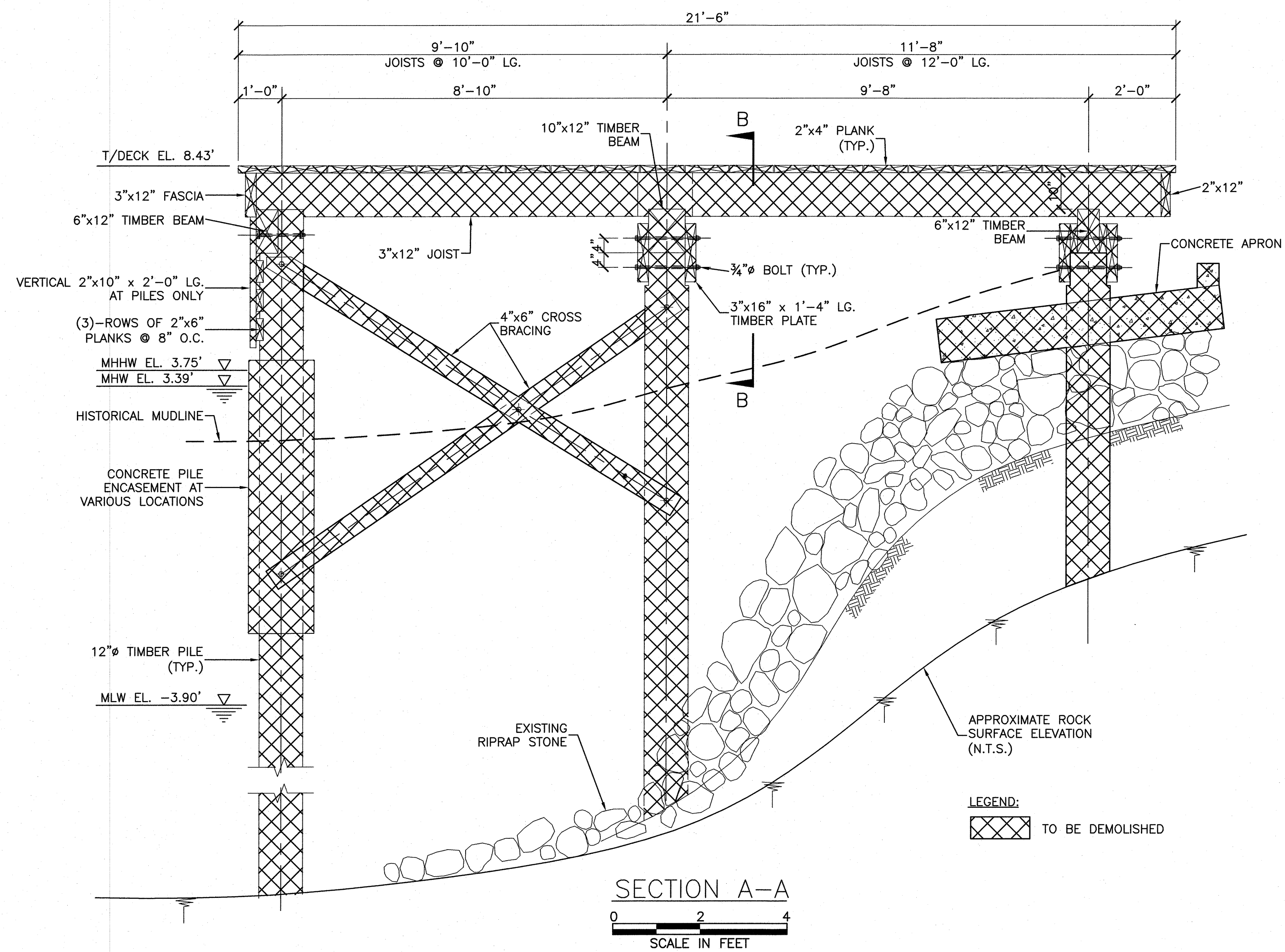
DEMOLITION PLAN



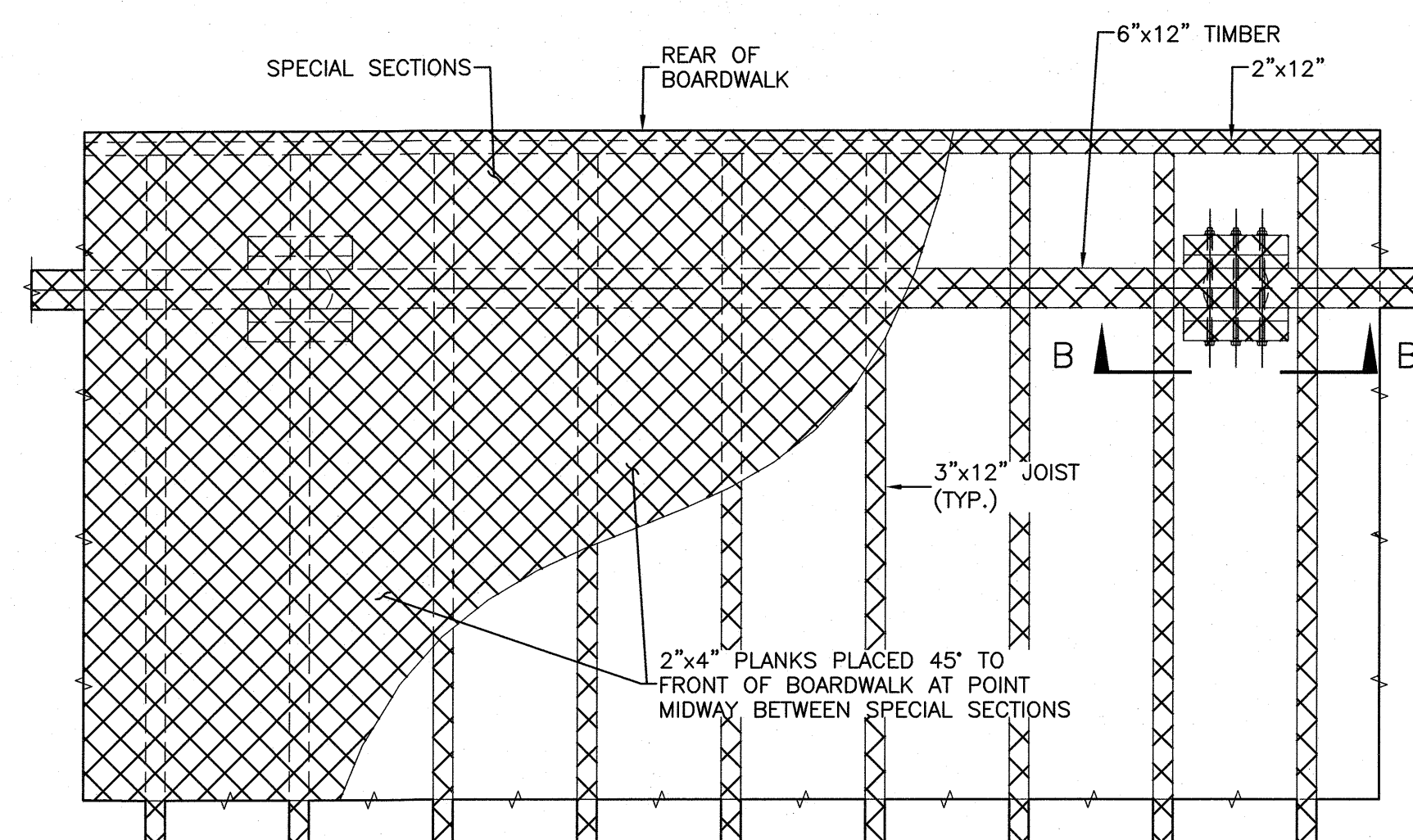
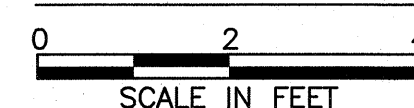
- DEMOLITION NOTES:
1. ALL REMAINS OF EXISTING BOARDWALK INCLUDING, BUT NOT LIMITED TO DECKING, JOISTS, BEAMS, PILES AND BRACING BOTH INTACT AND ON MUDLINE TO BE REMOVED FROM SITE.
  2. EXISTING INSHORE FENCE IS TO BE CAREFULLY REMOVED, STORED, AND REINSTALLED ON NEW RETAINING WALL.
  3. ALL EXISTING PILES TO BE REMOVED AT MUDLINE.
  4. PHOTO BOOTH STRUCTURE AT NORTH END OF BOARDWALK TO BE REMOVED AND DISPOSED OF. AREA TO BE LEFT GRADED.

LEGEND:

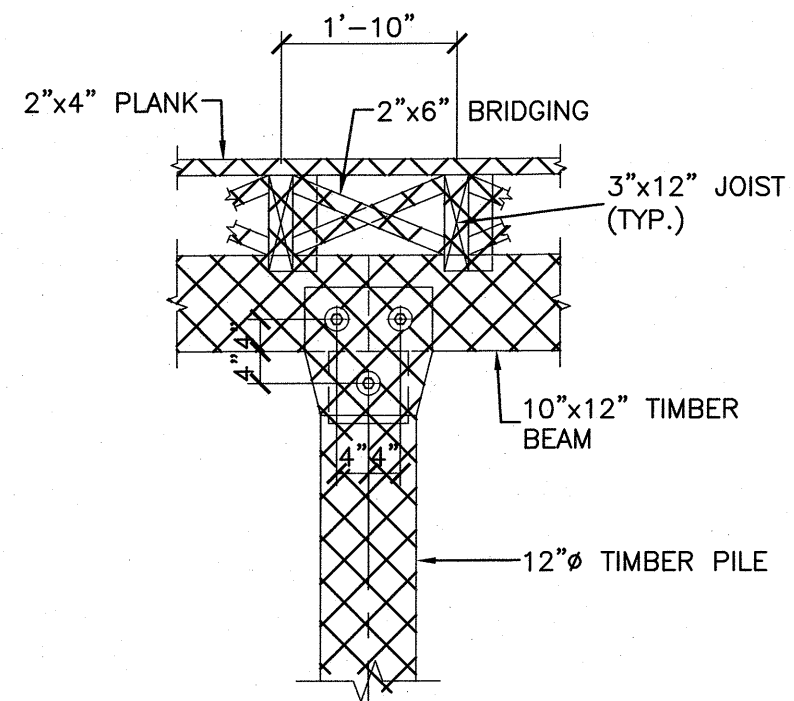
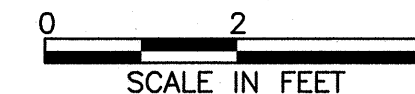
- BOARDWALK DECKING, FRAMING AND PILES ARE INTACT
- BOARDWALK PILES ARE INTACT
- TO BE DEMOLISHED



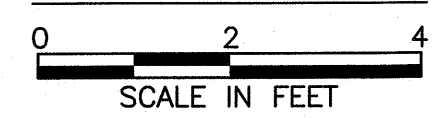
SECTION A-A



PLAN SHOWING FRAMING AT REAR OF BOARDWALK AND ARRANGEMENT OF PLANKS



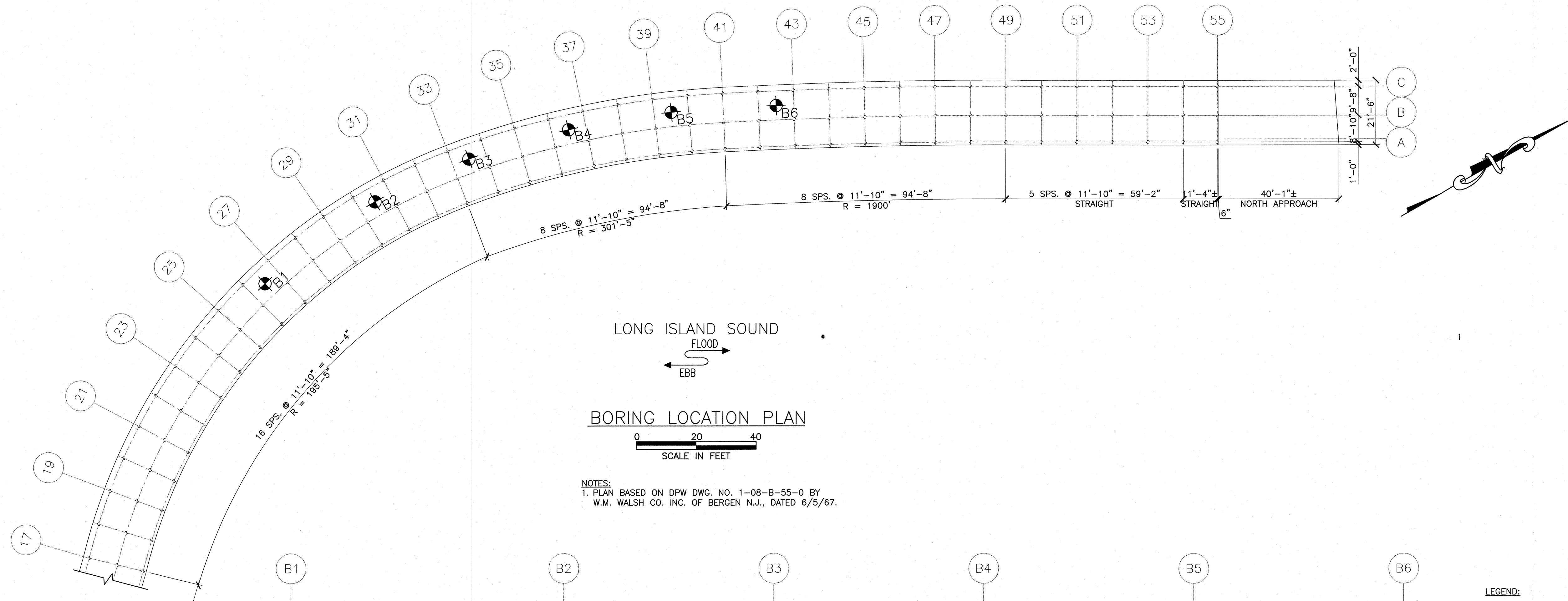
SECTION B-B



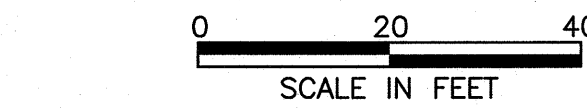
<b>CONSULTANT SEAL</b> 		<b>CONSULTANT INFORMATION</b> <b>McLaren</b> ENGINEERING GROUP applied ingenuity M.G. McLaren, P.C. 100 Snake Hill Road, West Nyack, NY 10994 Tel. (845) 353-6400 Fax. (845) 353-6509 www.mgmclaren.com		
REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
RECORD DRAWING CERTIFICATION				
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CONTRACTOR		PROJECT COORDINATOR		
NAME	DATE	NAME	DATE	
SIGNATURE		SIGNATURE		
TITLE		TITLE		
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 15-528 SHEET NUMBER DM-001 SHEET NO. 6 OF 21 SCALE: AS NOTED DATE: 09/22/16 DPW FILE NO. 1-08-G-147 REV. NO. 0		

IN CHARGE OF J. V. GREEN P.E.  
CHECKED BY S. E. THORVALDSEN  
MADE BY B. G. MARQUEZ

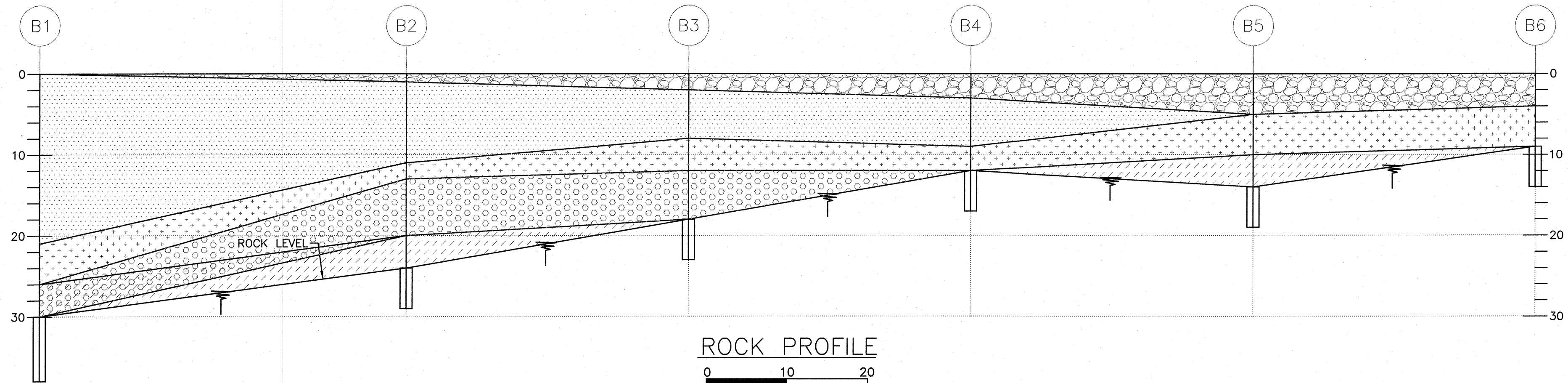




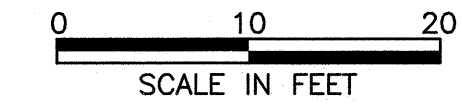
BORING LOCATION PLAN



NOTES:  
1. PLAN BASED ON DPW DWG. NO. 1-08-B-55-0 BY  
W.M. WALSH CO. INC. OF BERGEN N.J., DATED 6/5/67.



ROCK PROFILE



DEPTH	DESCRIPTION	BLOW COUNT
17'-0"	FINE TO MED BR SAND SOME SMALL GRAVEL	15 14 10 16 14 8 8 7 8 11 8 13 15 14 17 19 21 23 24 28
21'-0"	FINE GRAY SILTY SAND LENSES OF ORGANIC SILT	30 38 39 42 28
26'-0"	GRAY SILT TR MICA	53 125 233 300
30'-0"	MED GRAY SILTY SAND & SOFT ROCK	
38'-0"	DRILLED REC. 27" MICA SCHIST ROCK	

DEPTH	DESCRIPTION	BLOW COUNT
1'-0"	ROCK FILL	5 4 12 13 16 28 22 18 9 23 17 10
11'-0"	FINE TO MED BR SAND SOME SMALL GRAVEL	20 14 10
13'-0"	GRAY SILT	31 36 35 41 39 42 44 59 83 160 300
20'-0"	MED TO COARSE GRAY SAND LITTLE SILT	
24'-0"	SOFT ROCK	
29'-0"	DRILLED REC. 37" MICA SCHIST ROCK	

DEPTH	DESCRIPTION	BLOW COUNT
2'-0"	ROCK FILL	23 24 18 13 10 11 11
8'-0"	FINE TO MED BR SAND	8 13 11 16 17
12'-0"	GRAY SILT	8 5 6 10
18'-0"	MED GRAY SAND SOME GRAVEL TR SILT	31 39 53 44 69 300
23'-0"	DRILLED REC. 24" MICA SCHIST ROCK	

DEPTH	DESCRIPTION	BLOW COUNT
3'-0"	ROCK FILL	24 36 33 11 13 8 11 16 17
9'-0"	MED BR SAND SOME SMALL GRAVEL TR SILT	20 28 112
12'-0"	GRAY SILTY SAND SOME GRAVEL	
17'-0"	DRILLED REC. 25" MICA SCHIST & QUARTZ	

DEPTH	DESCRIPTION	BLOW COUNT
5'-0"	ROCK FILL & SAND	15 38 63 41 39 15 8 7 10 9
10'-0"	GRAY SILT TR SAND & SOFT ROCK	38 56 200
14'-0"	SOFT ROCK	
19'-0"	DRILLED REC. 18" SCHIST ROCK	

DEPTH	DESCRIPTION	BLOW COUNT
4'-0"	ROCK FILL	70 73 36 38 24 24 10 10 15 128
9'-0"	BR SILTY SAND TR GRAVEL & SILT	
14'-0"	DRILLED REC. 15" SCHIST ROCK	

<b>CONSULTANT SEAL</b> 		<b>CONSULTANT INFORMATION</b> <b>McLaren</b> ENGINEERING GROUP applied ingenuity M. G. McLAREN, P.C. 100 Snake Hill Road, West Nyack, NY 10994 Tel. (845) 353-6400 Fax. (845) 353-6509 www.mgmclaren.com		
REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
RECORD DRAWING CERTIFICATION				
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WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 15-528	SHEET NUMBER B-001	SHEET NO. 7 OF 21
SUPERSTORM SANDY REHABILITATION NORTH BOARDWALK RECONSTRUCTION PLAYLAND PARK RYE, NEW YORK		SCALE: AS NOTED DATE: 09/22/16 DPW FILE NO. 1-08-B-148 REV. NO. 0		

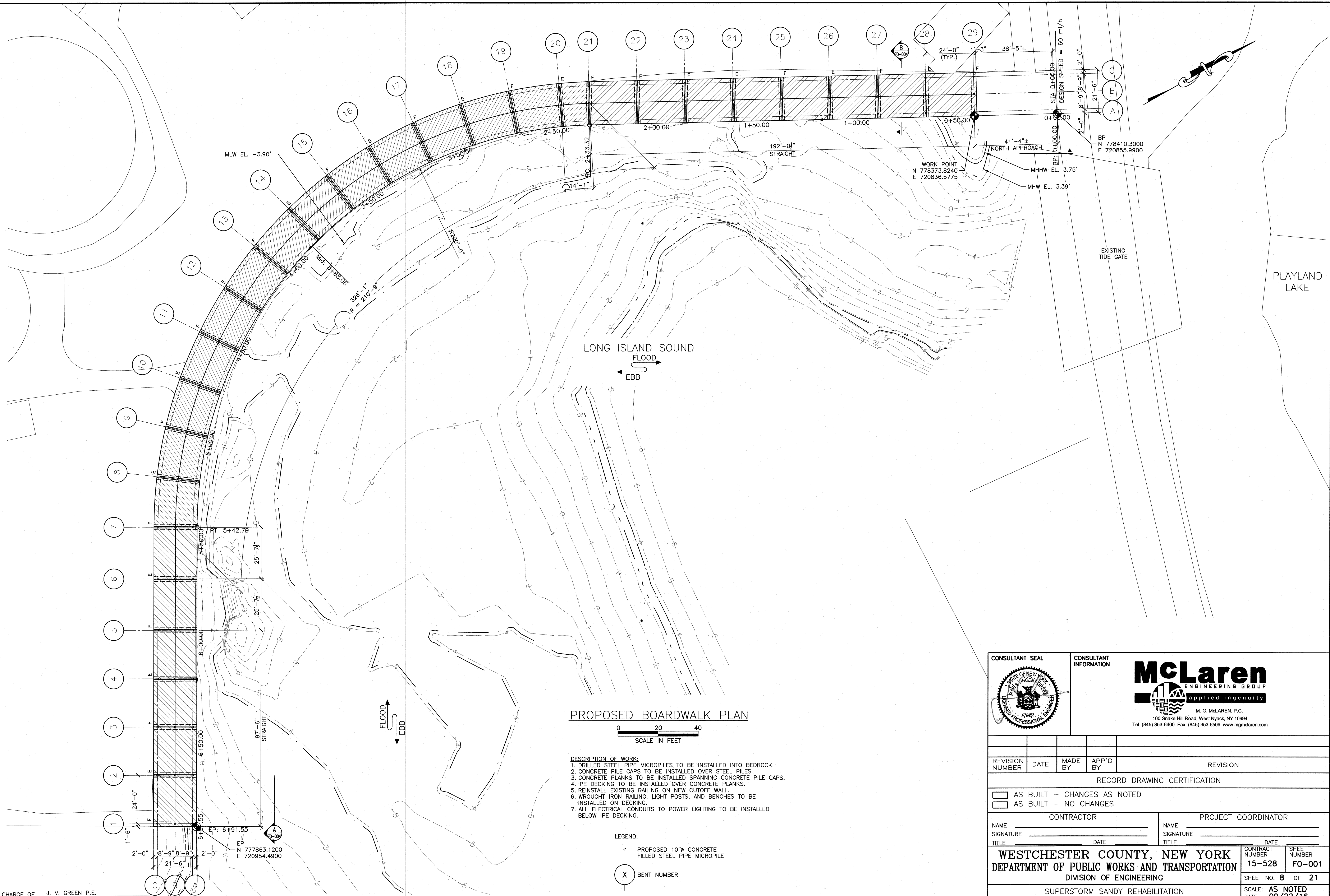
FILE NAME: P:\proj\001\00358\1\Drawings\020\B-001\_Boring Plan and Logs.dwg PLOT TIME: Wed, 21 Sep 2016 - 3:38pm LAST SAVE: Tue, 20 Sep 2016 - 9:53am BY: BMarquez

IN CHARGE OF J. V. GREEN P.E.  
CHECKED BY S. E. THORVALDSEN  
MADE BY B. G. MARQUEZ



FILE NAME: P:\Proj\140366\10 Drawings\CA00\00-00 Proposed Boardwalk PL01 TIME: Wed, 21 Sep 2016 - 3:39pm LAST SAVE: Wed, 21 Sep 2016 - 3:27pm BY: Bmarquez

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CHECKED BY S. E. THORVALDSEN  
MADE BY B. G. MARQUEZ



### PROPOSED BOARDWALK PLAN

0 20 40  
SCALE IN FEET

DESCRIPTION OF WORK:  
1. DRILLED STEEL PIPE MICROPILES TO BE INSTALLED INTO BEDROCK.  
2. CONCRETE PILE CAPS TO BE INSTALLED OVER STEEL PILES.  
3. CONCRETE PLANKS TO BE INSTALLED SPANNING CONCRETE PILE CAPS.  
4. IPE DECKING TO BE INSTALLED OVER CONCRETE PLANKS.  
5. REINSTALL EXISTING RAILING ON NEW CUTOFF WALL.  
6. WROUGHT IRON RAILING, LIGHT POSTS, AND BENCHES TO BE INSTALLED ON DECKING.  
7. ALL ELECTRICAL CONDUITS TO POWER LIGHTING TO BE INSTALLED BELOW IPE DECKING.

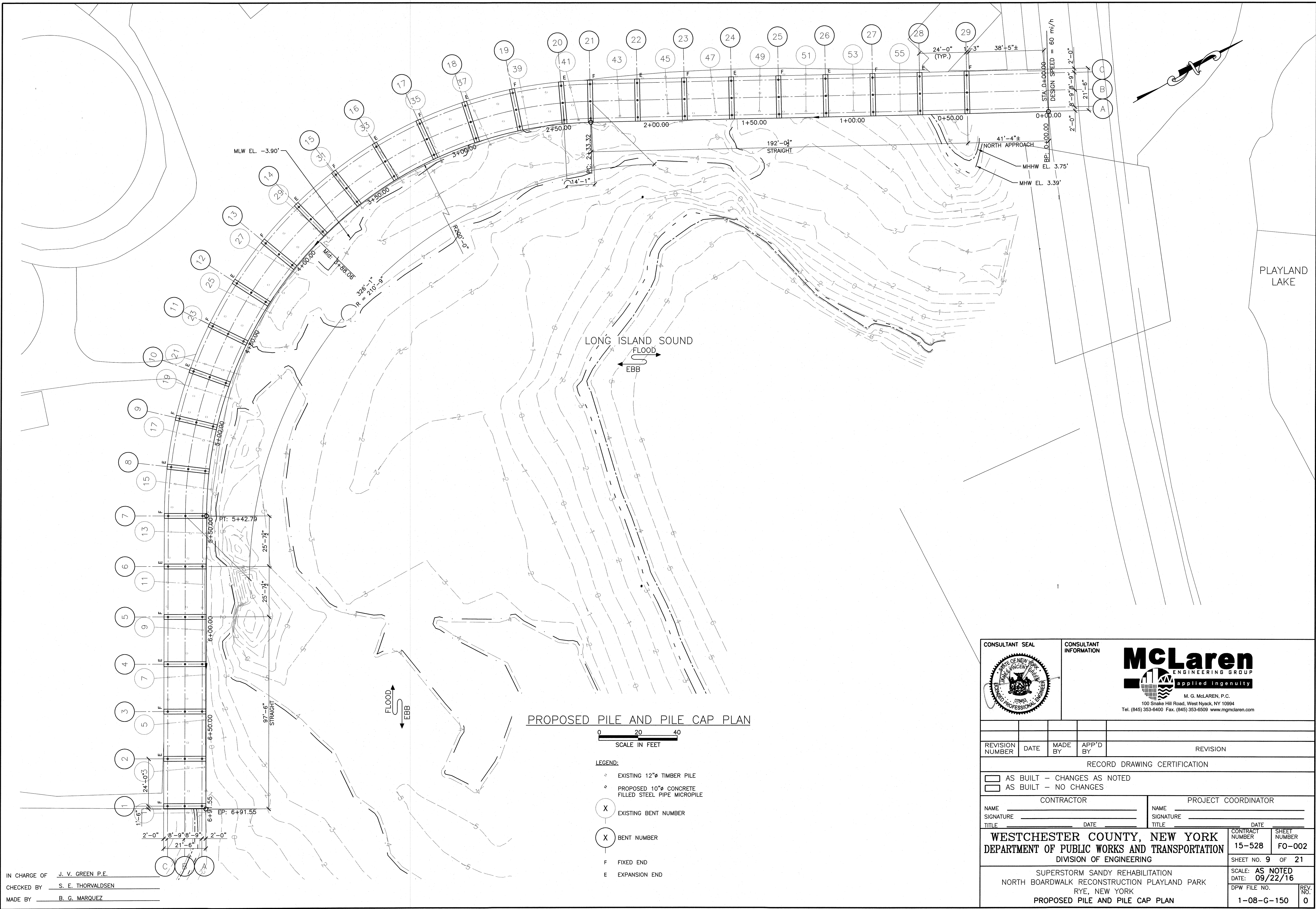
#### LEGEND:

- PROPOSED 10"Ø CONCRETE FILLED STEEL PIPE MICROPILE
- BENT NUMBER
- FIXED JOINT
- EXPANSION JOINT

<b>CONSULTANT SEAL</b> 		<b>CONSULTANT INFORMATION</b> <b>McLaren</b> ENGINEERING GROUP applied ingenuity M. G. McLAREN, P.C. 100 Snake Hill Road, West Nyack, NY 10994 Tel. (845) 353-6400 Fax. (845) 353-6509 www.mgmclaren.com		
REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
RECORD DRAWING CERTIFICATION				
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CONTRACTOR NAME: _____ SIGNATURE: _____ TITLE: _____		PROJECT COORDINATOR NAME: _____ SIGNATURE: _____ TITLE: _____		
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 15-528	SHEET NUMBER FO-001	
SUPERSTORM SANDY REHABILITATION NORTH BOARDWALK RECONSTRUCTION PLAYLAND PARK RYE, NEW YORK PROPOSED BOARDWALK PLAN		SCALE: AS NOTED DATE: 09/22/16 DPW FILE NO. 1-08-G-149 REV. NO. 0		



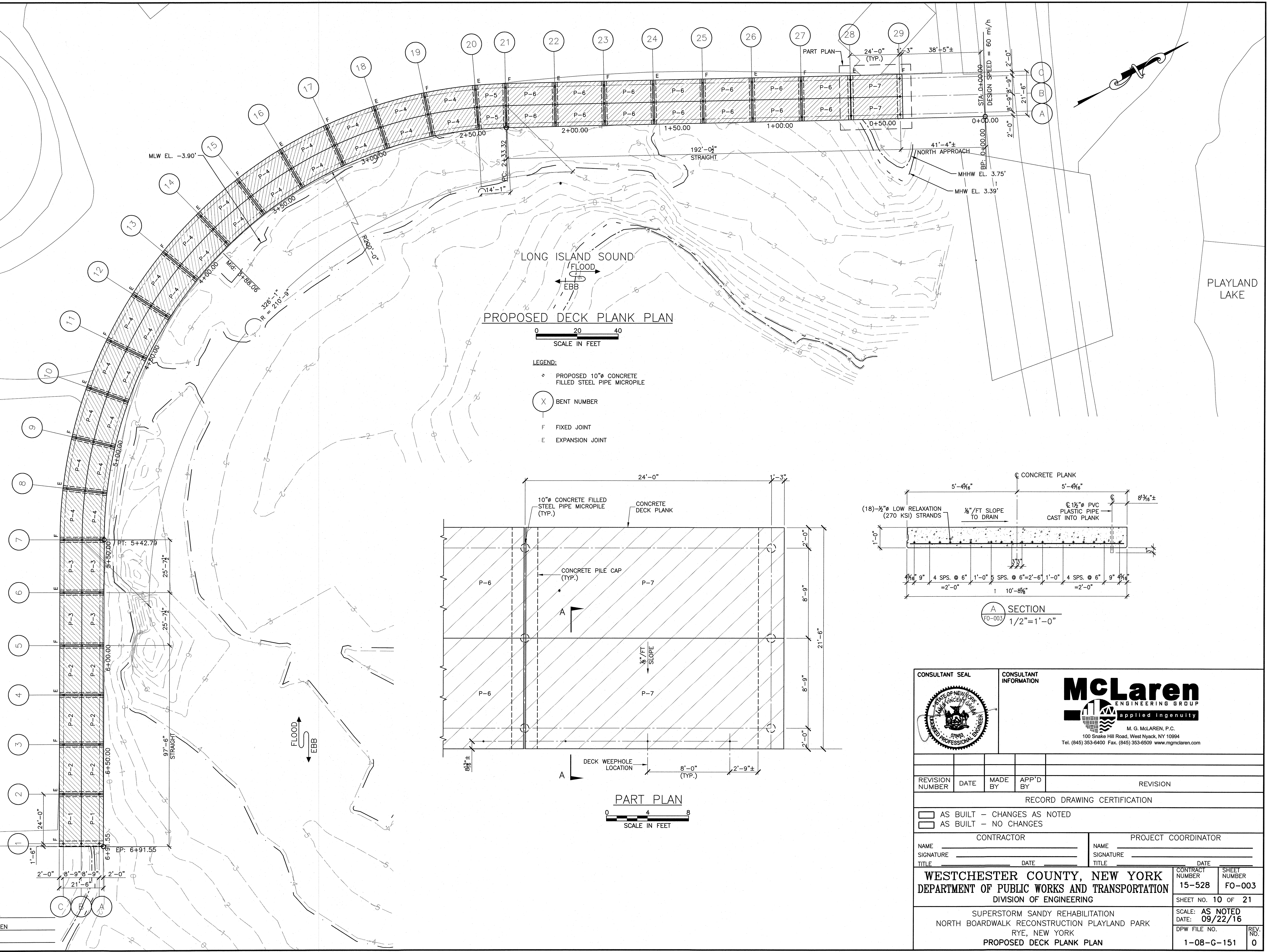
FILE NAME: P:\Proj\10\10386\10\_Dwg\000\10-002\_Proposed Pile and Pile Cap Plan.dwg PLOT TIME: Wed, 21 Sep 2016 - 3:39pm LAST SAVE: Tue, 20 Sep 2016 - 9:57am BY: BMR/gsp



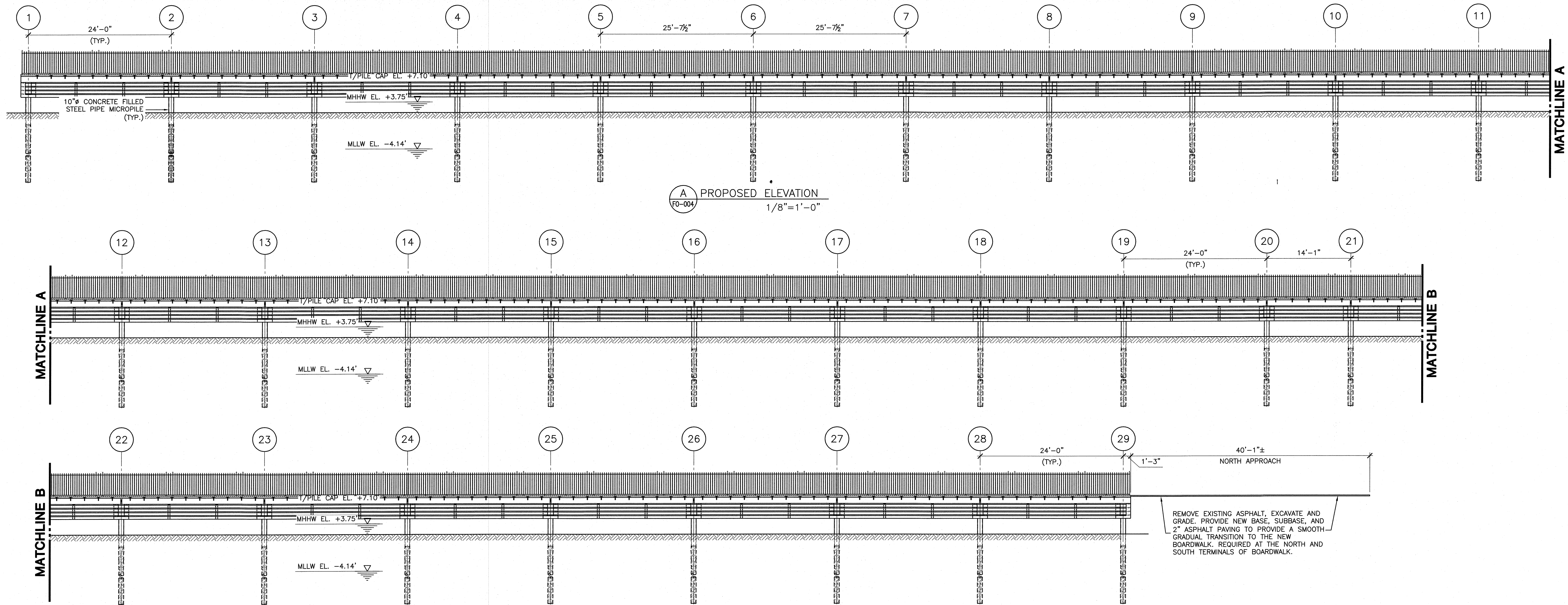


FILE NAME: P:\proj\10\10388\10\_Decks\DWG\FO-003\_Proposed Deck Plank Plan.dwg PLOT TIME: Wed, 21 Sep 2016 - 3:40pm LAST SAVE: Tue, 20 Sep 2016 - 9:58am BY: Blarquez

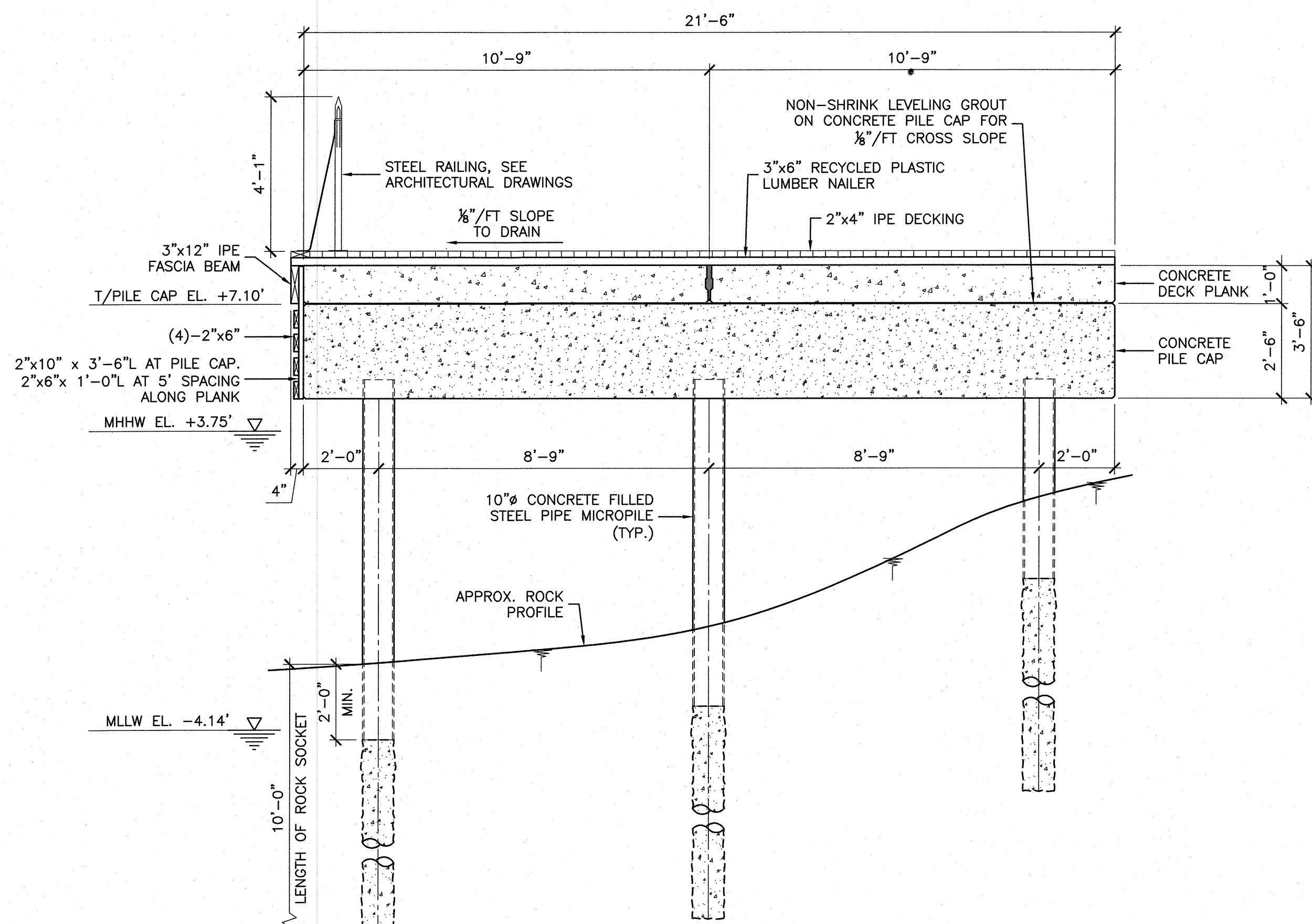
IN CHARGE OF J. V. GREEN P.E.  
CHECKED BY S. E. THORVALDSEN  
MADE BY B. G. MARQUEZ







REMOVE EXISTING ASPHALT, EXCAVATE AND GRADE. PROVIDE NEW BASE, SUBBASE, AND 2" ASPHALT PAVING TO PROVIDE A SMOOTH GRADUAL TRANSITION TO THE NEW BOARDWALK. REQUIRED AT THE NORTH AND SOUTH TERMINALS OF BOARDWALK.



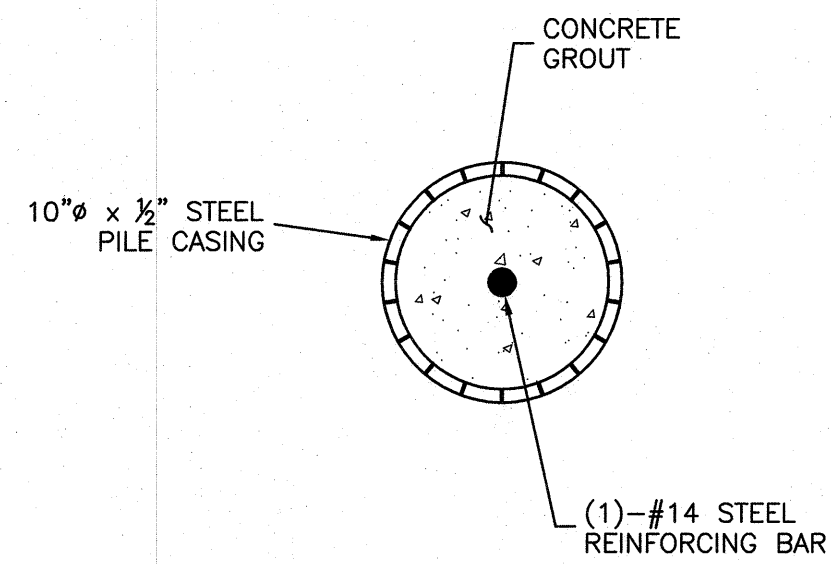
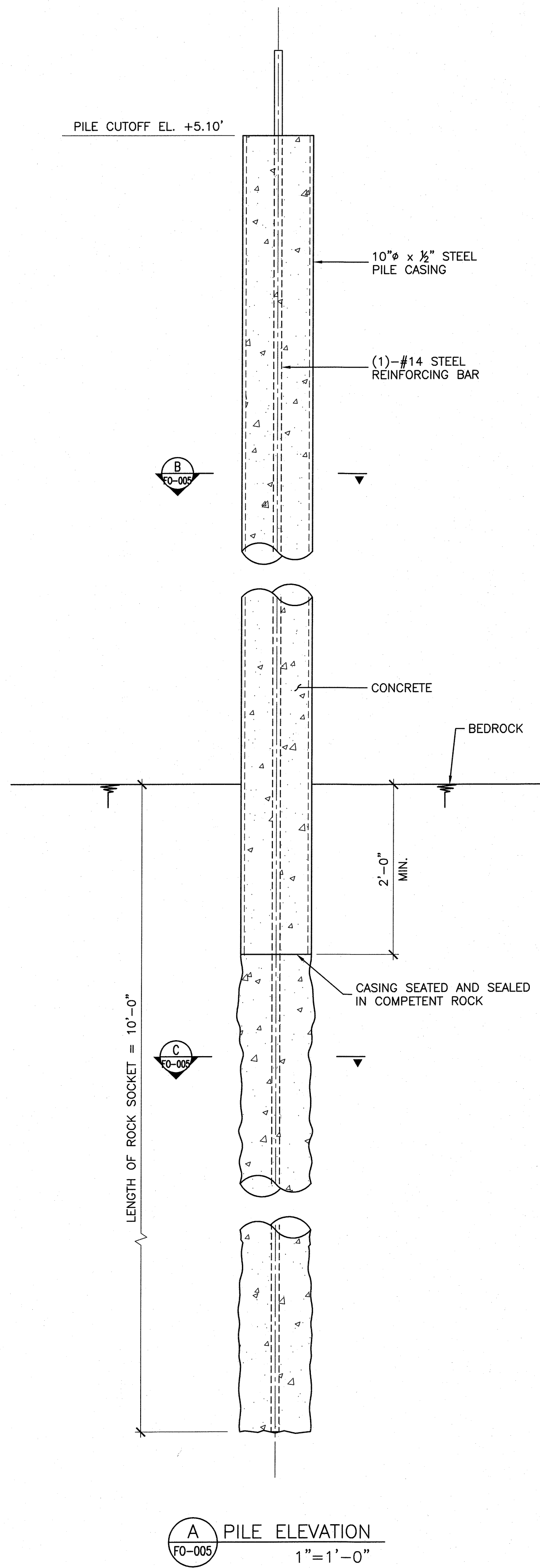
IN CHARGE OF J. V. GREEN P.E.  
 CHECKED BY S. E. THORVALDSEN  
 MADE BY B. G. MARQUEZ

**B** PROPOSED CROSS SECTION  
 FO-004 3/8"=1'-0"

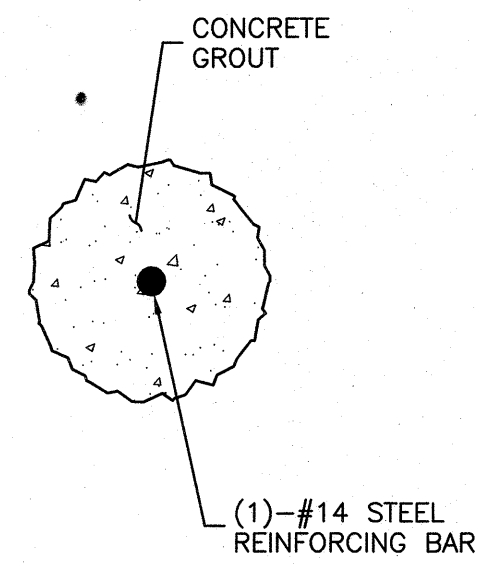
<b>CONSULTANT SEAL</b> 		<b>CONSULTANT INFORMATION</b> <b>McLaren</b> ENGINEERING GROUP applied ingenuity M. G. McLAREN, P.C. 100 Snake Hill Road, West Nyack, NY 10994 Tel. (845) 353-6400 Fax: (845) 353-6509 www.mgmclaren.com		
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CONTRACTOR		PROJECT COORDINATOR		
NAME	SIGNATURE	NAME	SIGNATURE	DATE
TITLE	DATE	TITLE	DATE	DATE
<b>WESTCHESTER COUNTY, NEW YORK</b> <b>DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION</b> <b>DIVISION OF ENGINEERING</b>		CONTRACT NUMBER	SHEET NUMBER	
		15-528	FO-004	
		SHEET NO. 11 OF 21		
		SCALE: AS NOTED		
		DATE: 09/22/16		
		DPW FILE NO.	REV. NO.	
		1-08-G-152	0	



FILE NAME: P:\Proj\40\40386\10\_Dwg\CA00\FO-005\_Pile Sections and Details.dwg PLOT TIME: Wed, 21 Sep 2016 - 3:41pm LAST SAVE: Tue, 20 Sep 2016 - 10:13am BY: BMarquez



B DRILLED MICROPILE CASING SECTION  
FO-005  
1-1/2"=1'-0"

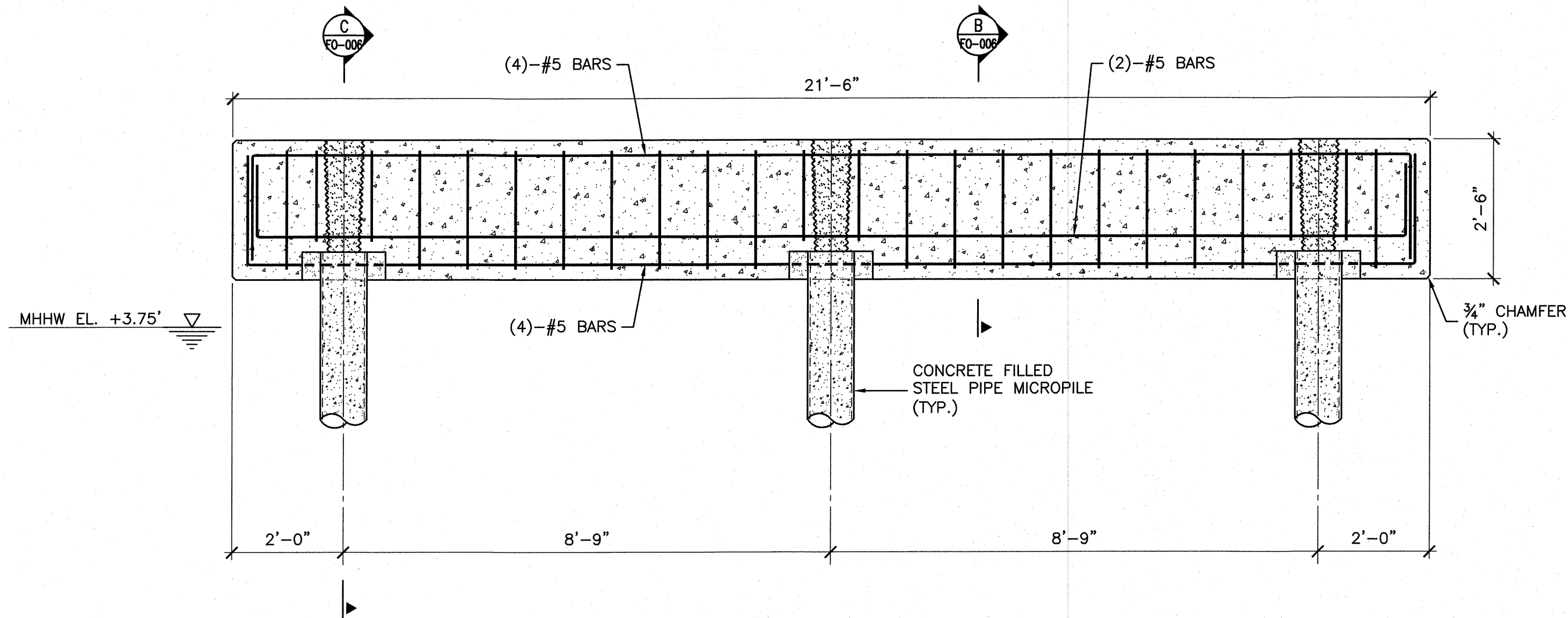


C DRILLED MICROPILE ROCK SOCKET SECTION  
FO-005  
1-1/2"=1'-0"

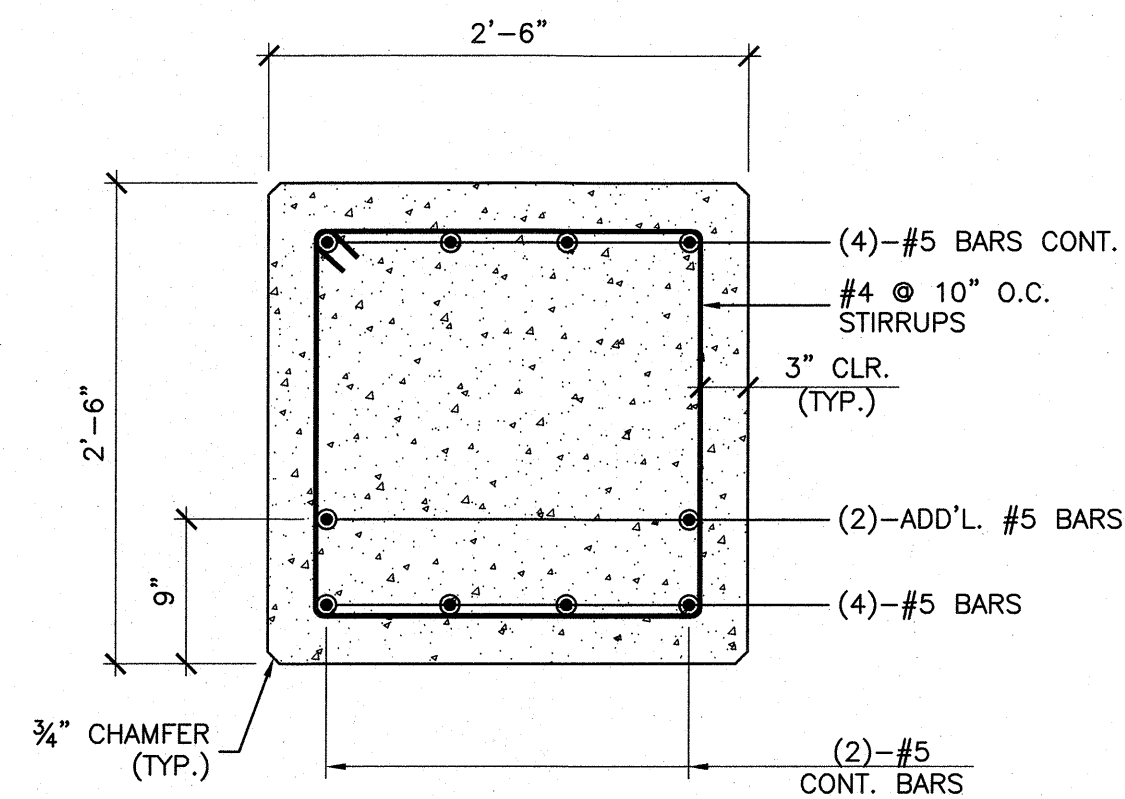
IN CHARGE OF J. V. GREEN P.E.  
CHECKED BY S. E. THORVALDSEN  
MADE BY B. G. MARQUEZ

CONSULTANT SEAL		CONSULTANT INFORMATION		<b>McLaren</b> ENGINEERING GROUP applied ingenuity M. G. McLAREN, P.C. 100 Snake Hill Road, West Nyack, NY 10994 Tel. (845) 353-6400 Fax. (845) 353-6509 www.mgmclaren.com	
REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION	
RECORD DRAWING CERTIFICATION					
<input type="checkbox"/> AS BUILT - CHANGES AS NOTED <input type="checkbox"/> AS BUILT - NO CHANGES					
CONTRACTOR			PROJECT COORDINATOR		
NAME _____ SIGNATURE _____ TITLE _____			NAME _____ SIGNATURE _____ TITLE _____		
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING				CONTRACT NUMBER 15-528	SHEET NUMBER FO-005
SUPERSTORM SANDY REHABILITATION NORTH BOARDWALK RECONSTRUCTION PLAYLAND PARK RYE, NEW YORK PILE SECTIONS AND DETAILS				SHEET NO. 12 OF 21 SCALE: AS NOTED DATE: 09/22/16 DPW FILE NO. 1-08-G-153 REV. NO. 0	

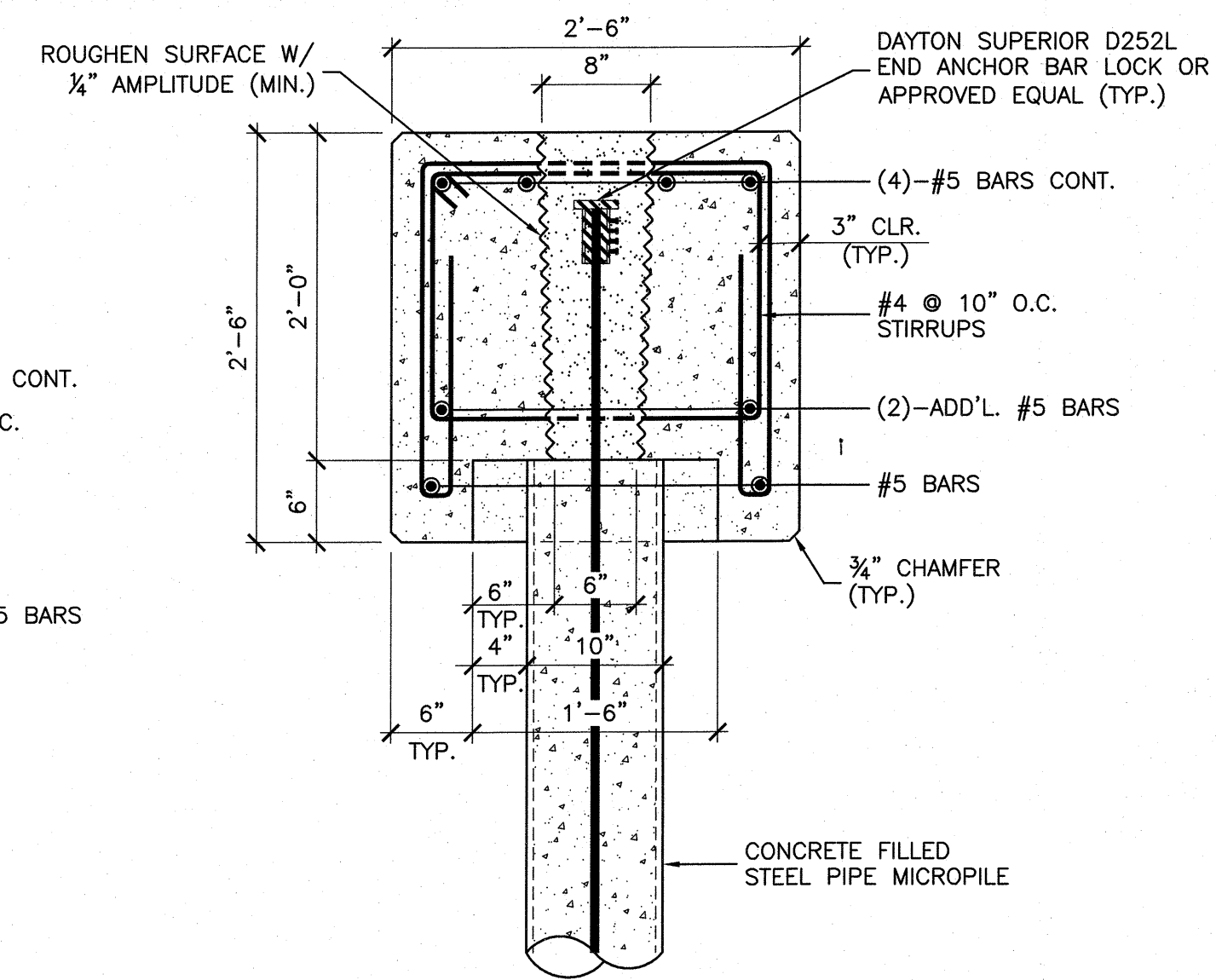




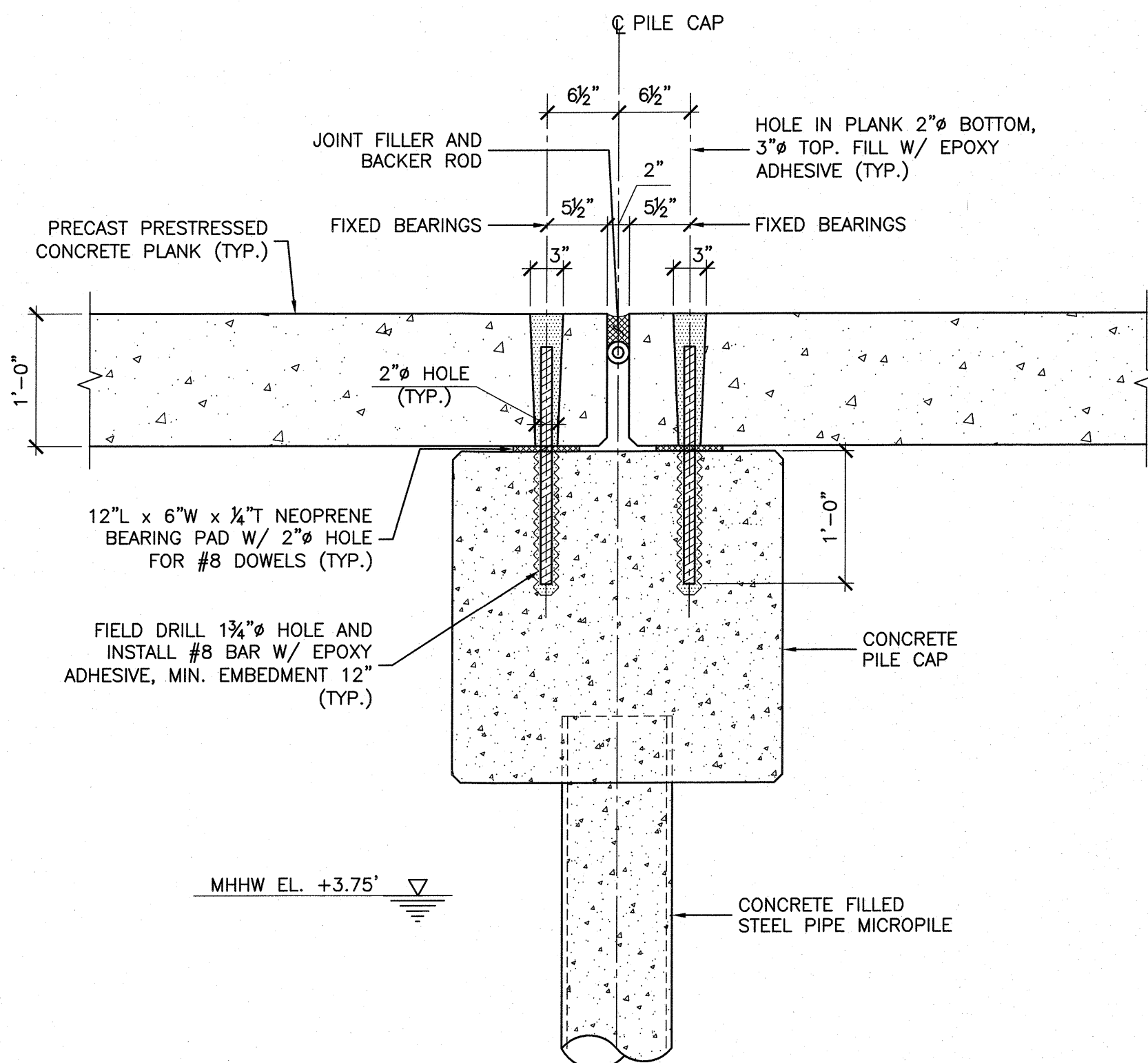
**(A) CONCRETE PILE CAP REINFORCEMENT**  
FO-006  
1/2"=1'-0"



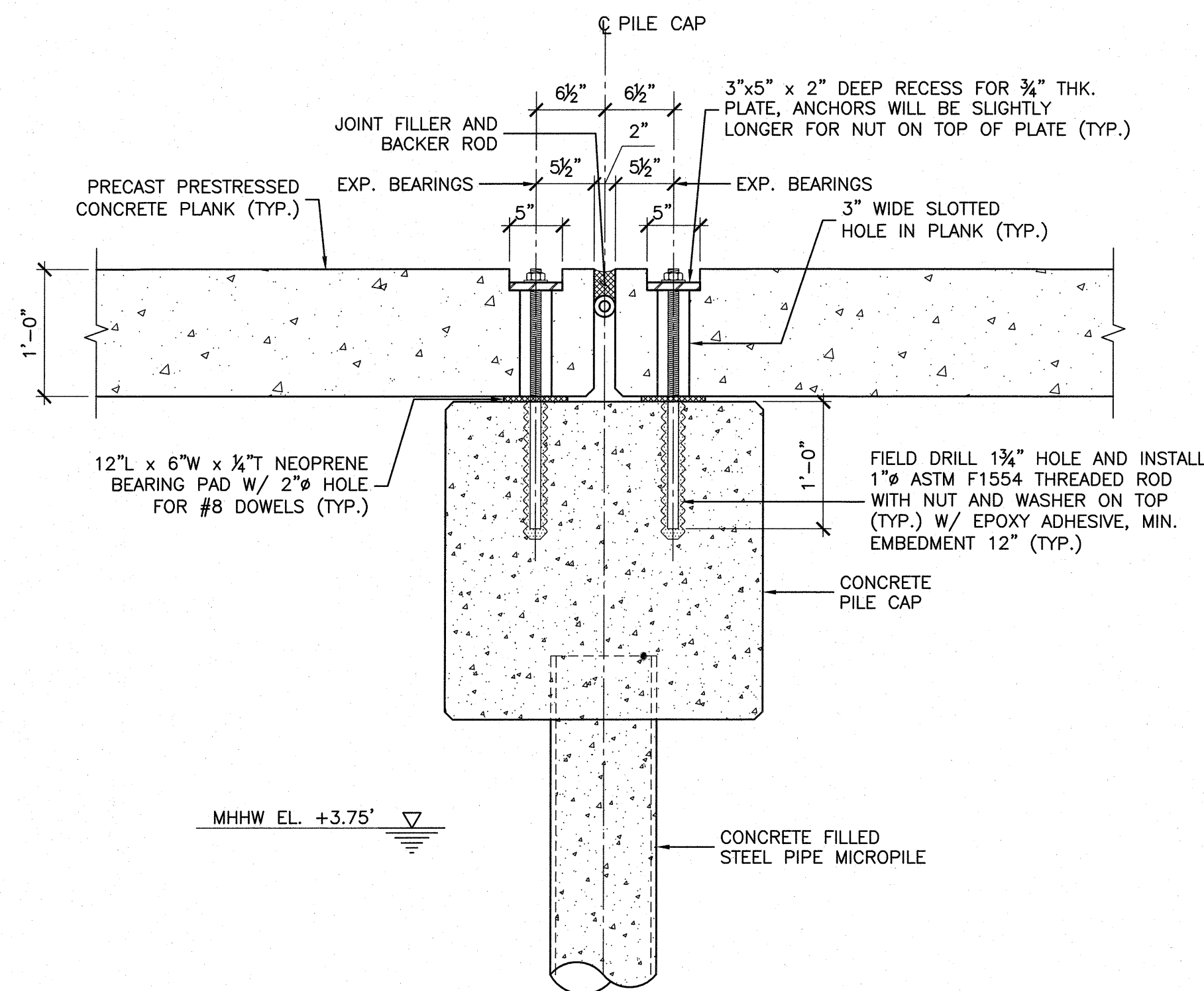
**(B) TYPICAL PILE CAP SECTION**  
FO-006  
1"=1'-0"



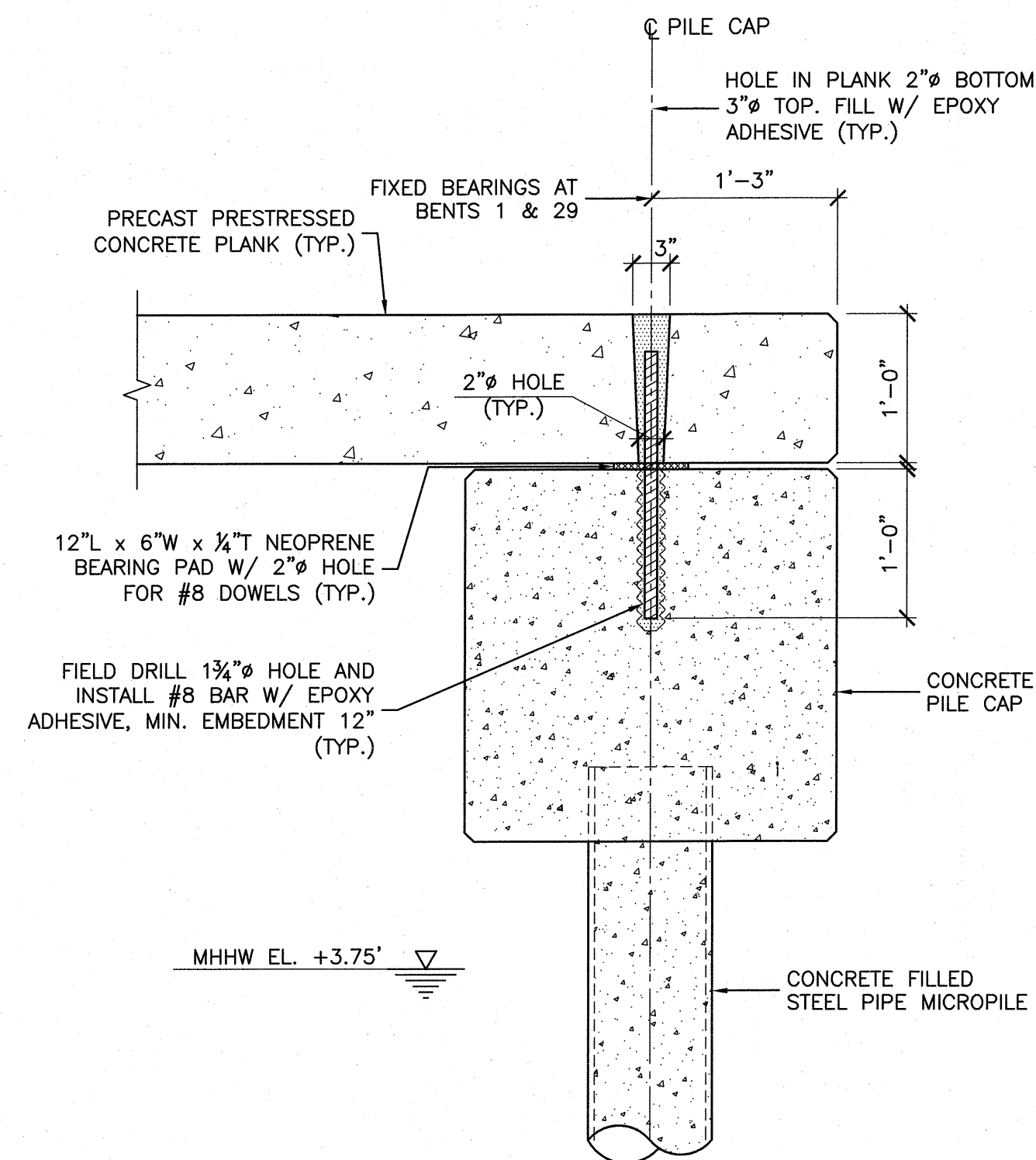
**(C) TYPICAL PILE CAP SECTION AT PILE**  
FO-006  
1"=1'-0"



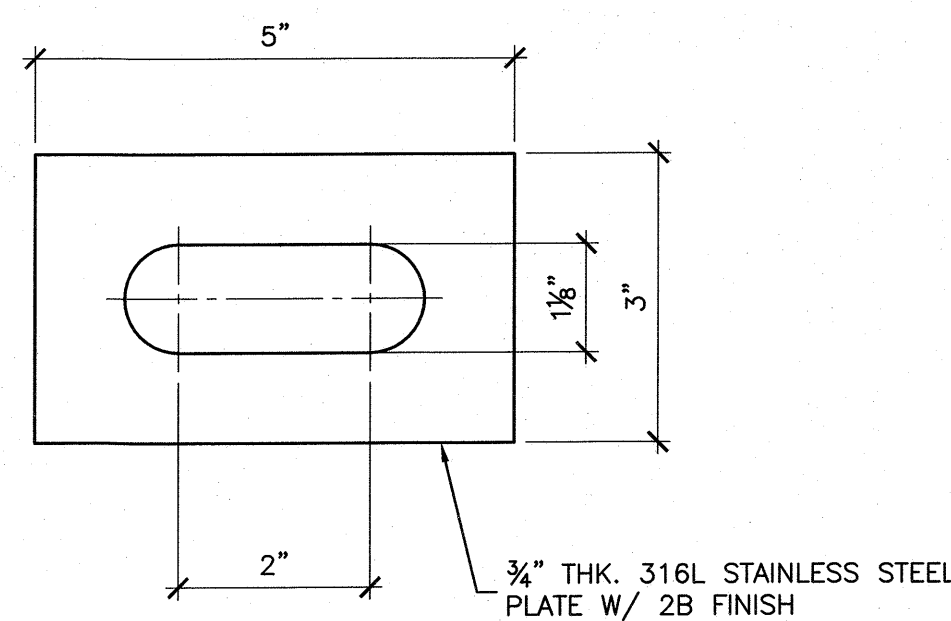
**(D) DECK FIXED JOINT DETAIL**  
FO-006  
1"=1'-0"



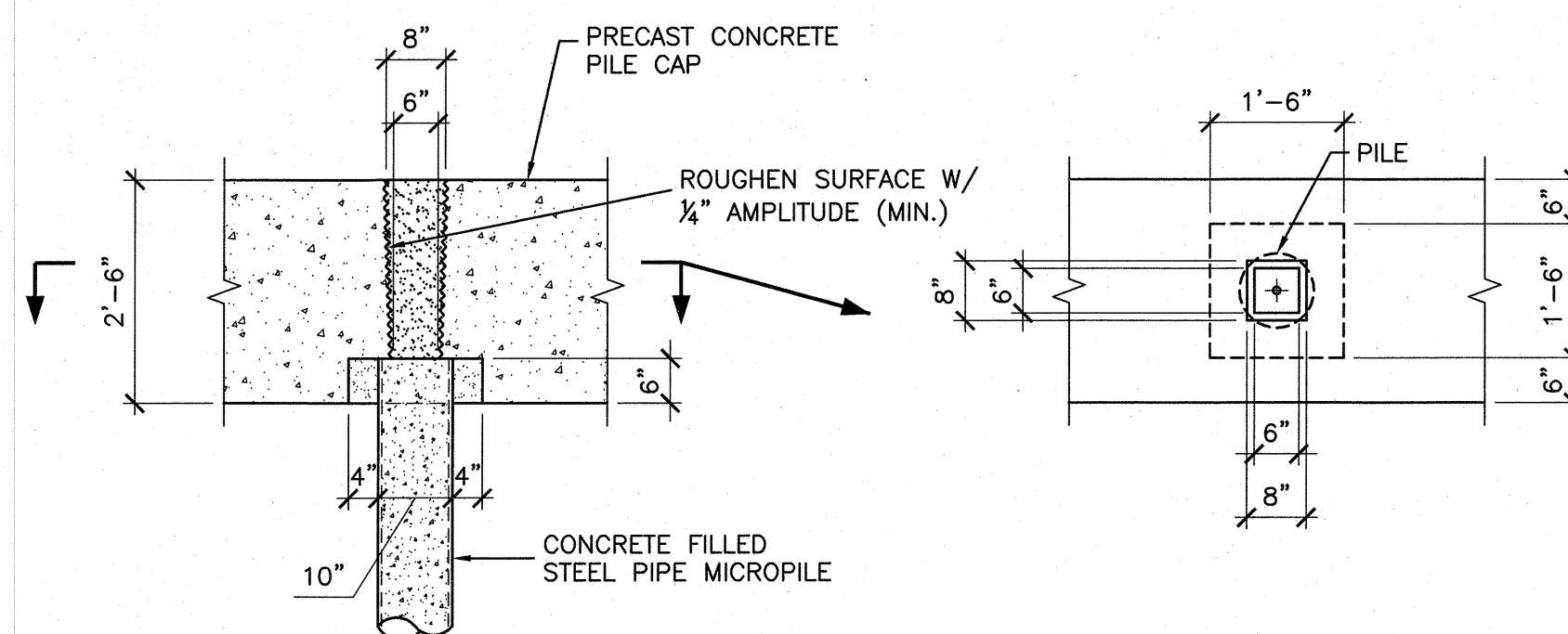
**(E) DECK EXPANSION JOINT DETAIL**  
FO-006  
1"=1'-0"



**(F) DECK FIXED END JOINT DETAIL AT BENTS 1 & 29**  
FO-006  
1"=1'-0"



**(G) EXPANSION JOINT PLATE**  
FO-006  
6"=1'-0"



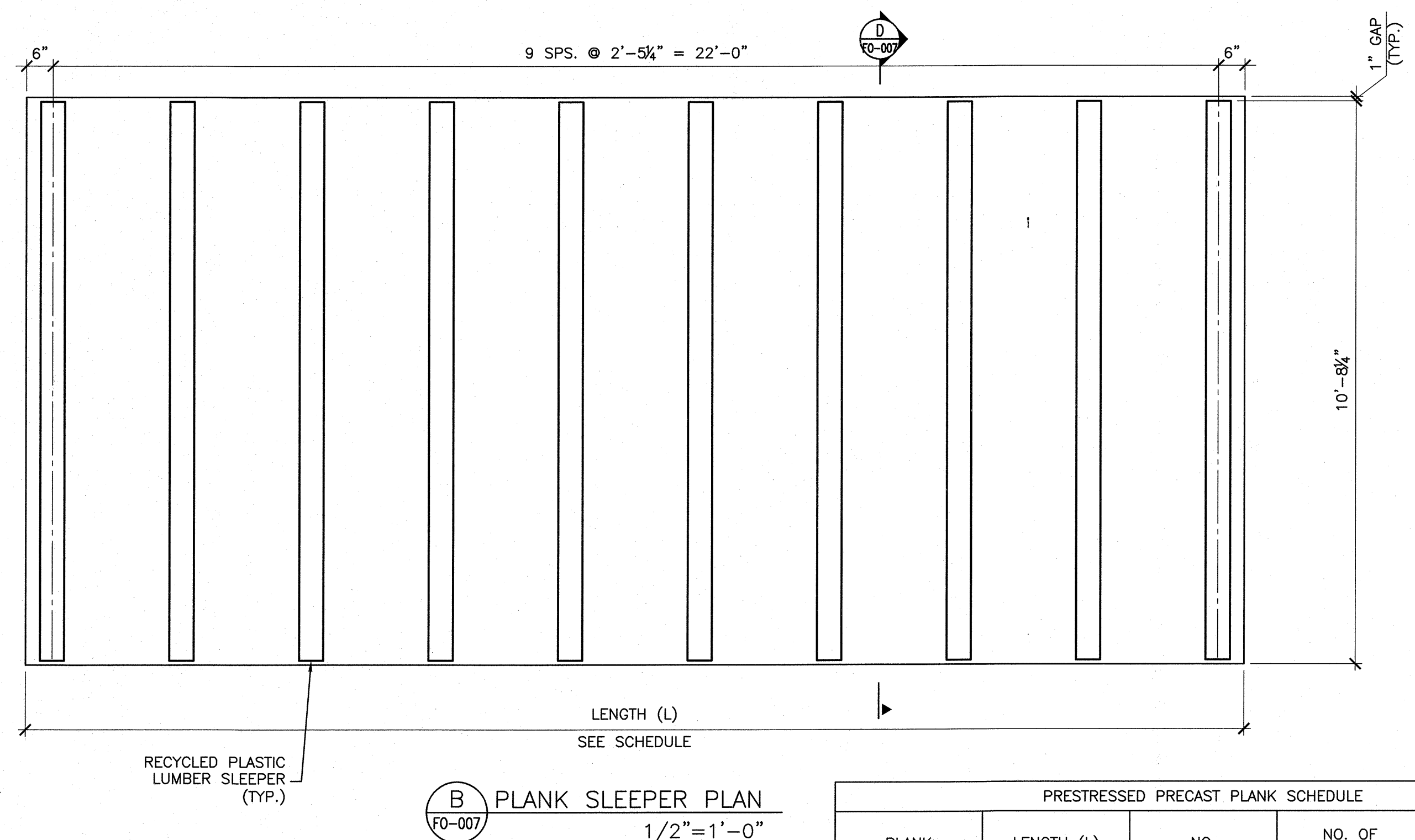
**(H) TYPICAL PILE CAP VOID DETAIL**  
FO-006  
1/2"=1'-0"

IN CHARGE OF J. V. GREEN P.E.  
CHECKED BY S. E. THORVALDSEN  
MADE BY B. G. MARQUEZ

NOTES:  
1. USE 316L STAINLESS STEEL PLATE WITH 2B FINISH.  
2. USE PTFE WASHER UNDER STEEL WASHER.  
3. PLANK SHALL HAVE SLOTTED ANCHOR HOLE THAT MATCHES SLOTTED HOLE IN EXPANSION JOINT PLATE.

<b>CONSULTANT SEAL</b> 		<b>CONSULTANT INFORMATION</b> <b>McLaren</b> ENGINEERING GROUP applied ingenuity M. G. McLAREN, P.C. 100 Snake Hill Road, West Nyack, NY 10994 Tel. (845) 353-6400 Fax. (845) 353-6509 www.mgmclaren.com		
REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
RECORD DRAWING CERTIFICATION				
<input type="checkbox"/> AS BUILT - CHANGES AS NOTED <input type="checkbox"/> AS BUILT - NO CHANGES				
CONTRACTOR		PROJECT COORDINATOR		
NAME	SIGNATURE	NAME	SIGNATURE	DATE
TITLE	DATE	TITLE	DATE	
<b>WESTCHESTER COUNTY, NEW YORK</b> <b>DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION</b> DIVISION OF ENGINEERING		SHEET NO. 13 OF 21 CONTRACT NUMBER 15-528 SHEET NUMBER FO-006 SCALE: AS NOTED DATE: 09/22/16 DPW FILE NO. 1-08-G-154 REV. NO. 0		

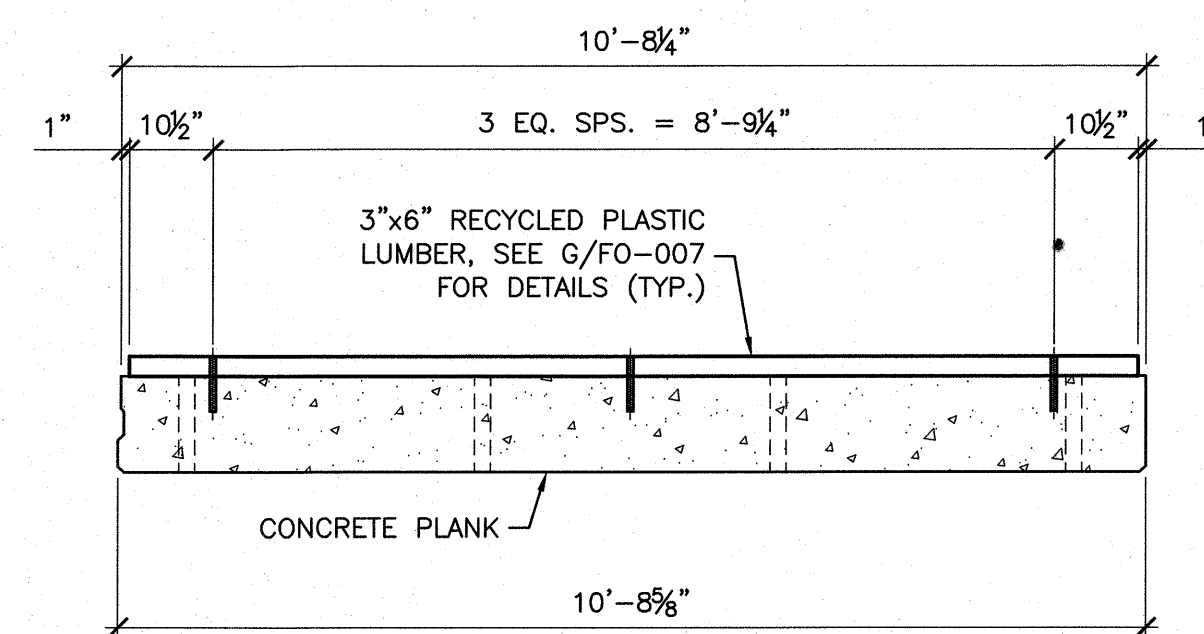





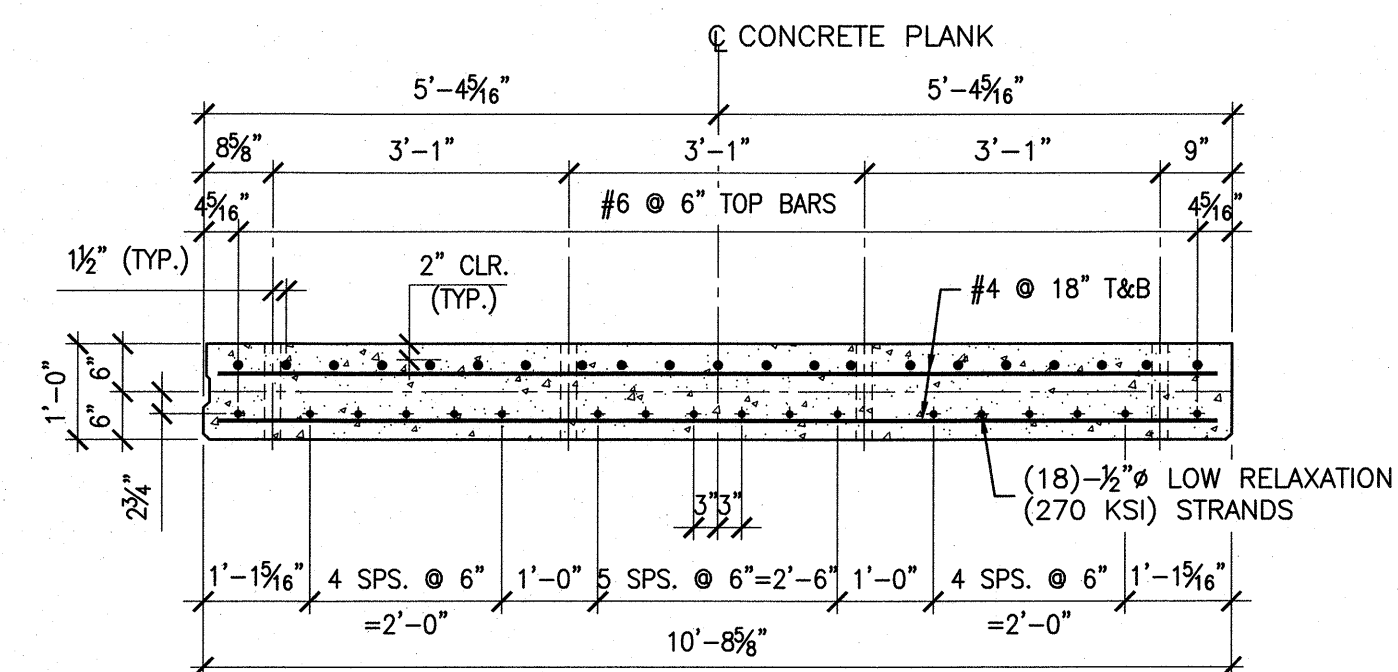
PRESTRESSED PRECAST PLANK SCHEDULE				
PLANK	LENGTH (L)	NO.	NO. OF STRANDS	STRAND SPACING (in)
P-1	SEE PLAN	1	18	SEE SECT. E/F0-007
P-2	SEE PLAN	3	18	11
P-3	SEE PLAN	2	18	11
P-4	SEE PLAN	13	18	11
P-5	SEE PLAN	1	18	11
P-6	SEE PLAN	7	18	11
P-7	SEE PLAN	1	18	11

NOTE: CONTRACTOR SHALL ADD TOP REINFORCING IN PRESTRESSED PRECAST PLANK FOR SHIPPING AND HANDLING AS NECESSARY.

A DECK PLANK DETAILS  
FO-007  $1/2"=1'-0"$




 PLANK SLEEPER SECTION  
 1/2"=1'-0"

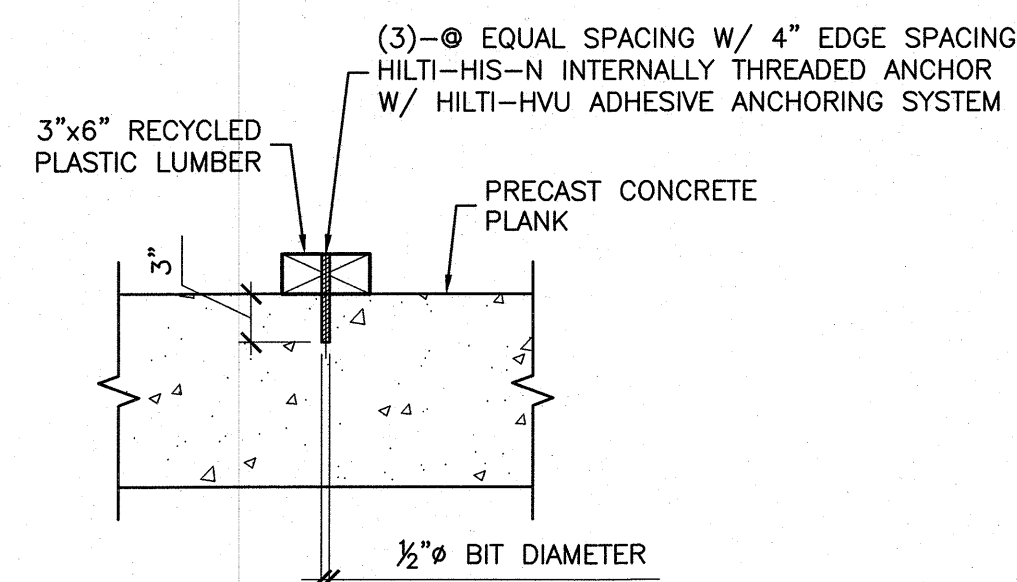


E
 TYPICAL PLANK REINFORCEMENT  
FO-007
1/2"=1'-0"

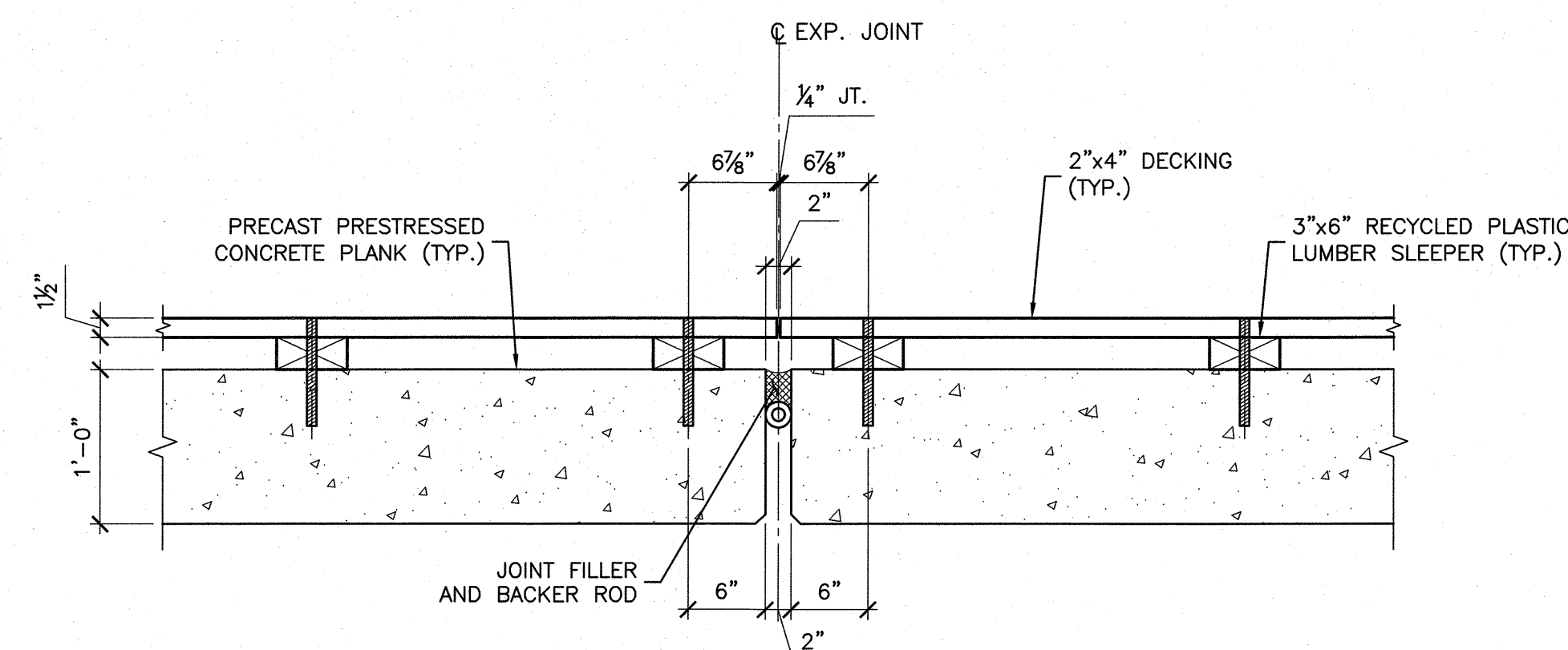
C TYPICAL DECK SECTION  
FO-007 1/2"=1'-0"

**NOTES:**


1. PRESTRESSED PRECAST PLANK  $F'_c=6,000$  PSI @ 28 DAYS AND  $F'_ci=3,500$  PSI AT TRANSFER.
2. REINFORCING SHALL BE SPACED 18" O.C. ALONG LENGTH OF PLANK.





TYPICAL RECYCLED PLASTIC LUMBER  
SLEEPER ANCHORAGE DETAIL



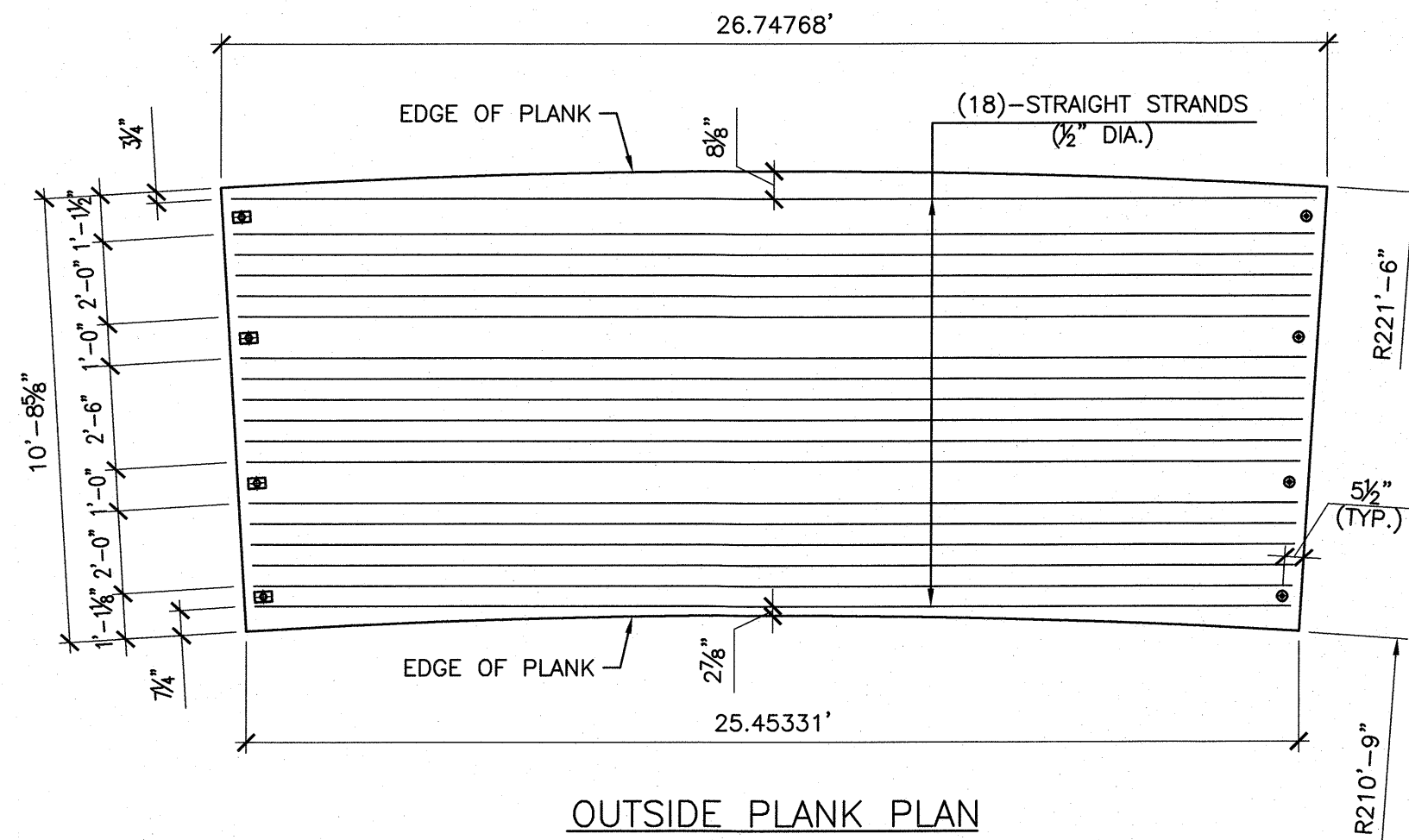
H DECKING EXPANSION JOINT DETAIL  
FO-007 1"=1'-0"


 TYPICAL PLANK SHEAR KEY DETAIL  
 1"=1'-0"

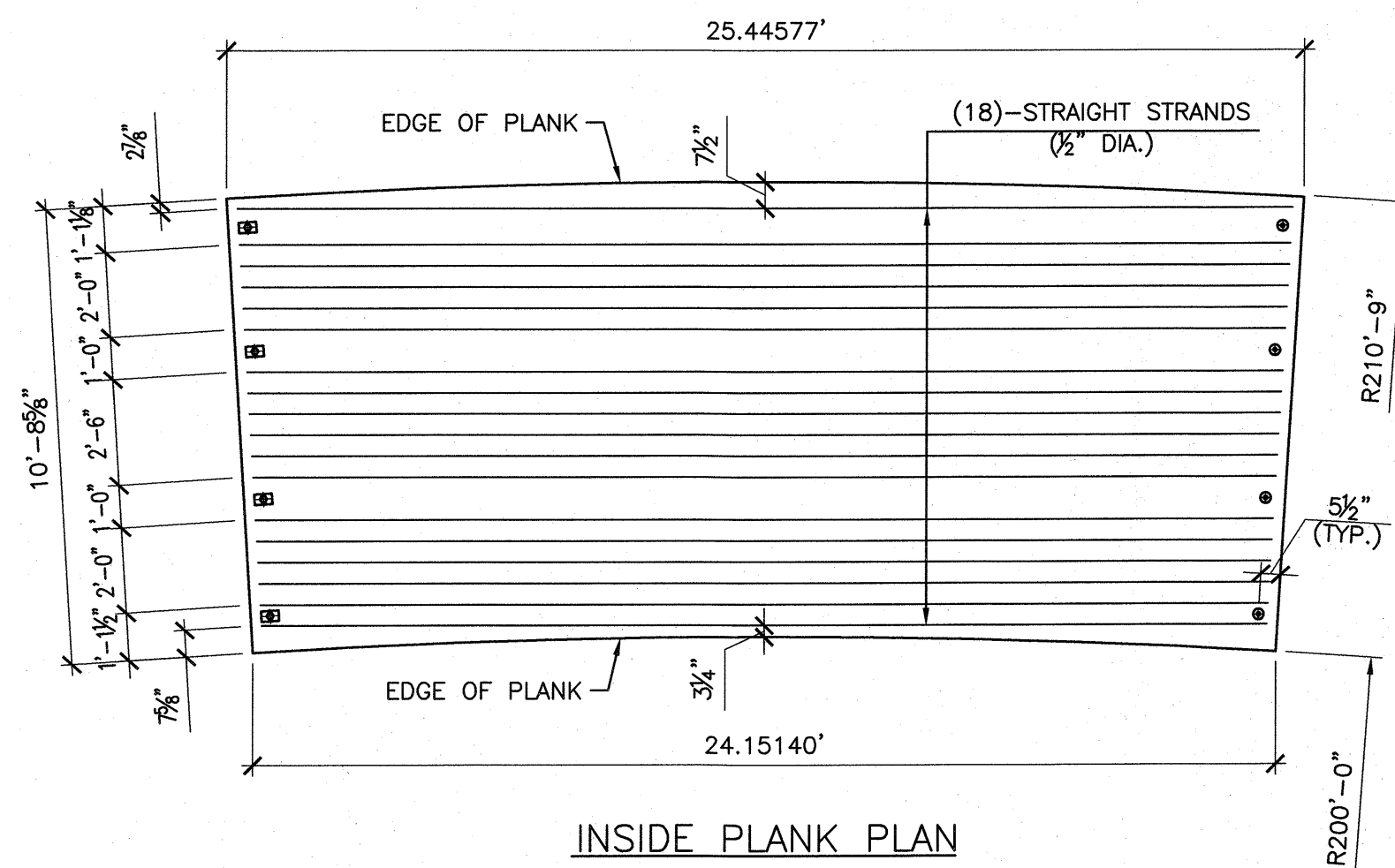
IN CHARGE OF J. V. GREEN P.E.  
CHECKED BY S. E. THORVALDSEN  
MADE BY B. G. MARQUEZ

CONSULTANT LEAD		CONSULTANT INFORMATION		 <p><b>McLaren</b> ENGINEERING GROUP applied ingenuity</p> <p>M. G. McLAREN, P.C. 100 Snake Hill Road, West Nyack, NY 10994 Tel. (845) 353-6400 Fax. (845) 353-6509 www.mgmclaren.com</p>	
					
REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION	
RECORD DRAWING CERTIFICATION					
<input type="checkbox"/> AS BUILT – CHANGES AS NOTED <input type="checkbox"/> AS BUILT – NO CHANGES					
CONTRACTOR NAME _____ SIGNATURE _____ TITLE _____ DATE _____			PROJECT COORDINATOR NAME _____ SIGNATURE _____ TITLE _____ DATE _____		
<b>WESTCHESTER COUNTY, NEW YORK</b> <b>DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION</b> DIVISION OF ENGINEERING				CONTRACT NUMBER <b>15-528</b>	SHEET NUMBER <b>FO-007</b>
SUPERSTORM SANDY REHABILITATION NORTH BOARDWALK RECONSTRUCTION PLAYLAND PARK RYE, NEW YORK <b>DECK PLANK AND DECKING SECTIONS AND DETAILS – 1</b>				SHEET NO. <b>14</b> OF <b>21</b> SCALE: <b>AS NOTED</b> DATE: <b>09/22/16</b> DPW FILE NO. <b>1-08-C-155</b>	REV. NO. <b>0</b>



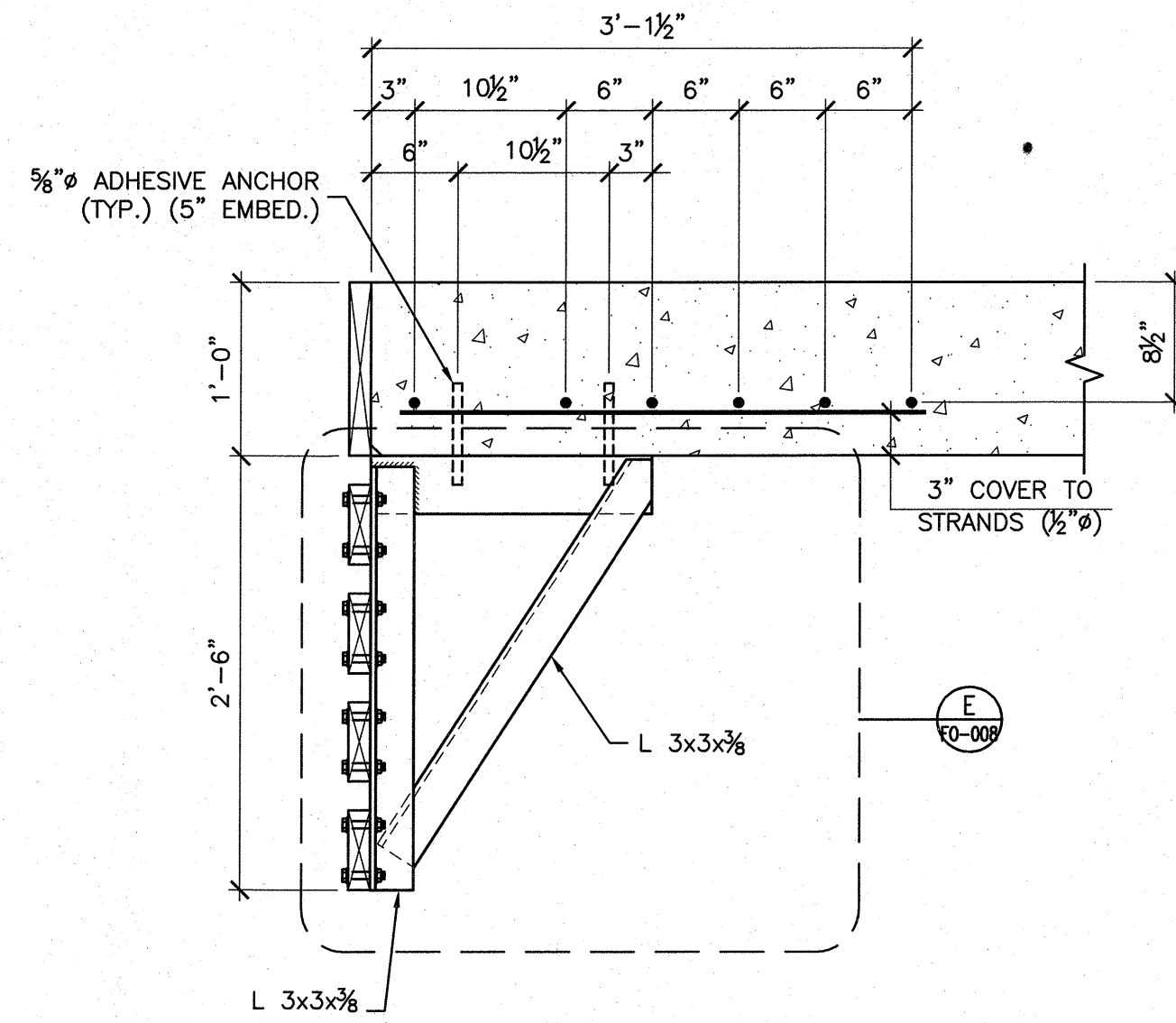


OUTSIDE PLANK PLAN



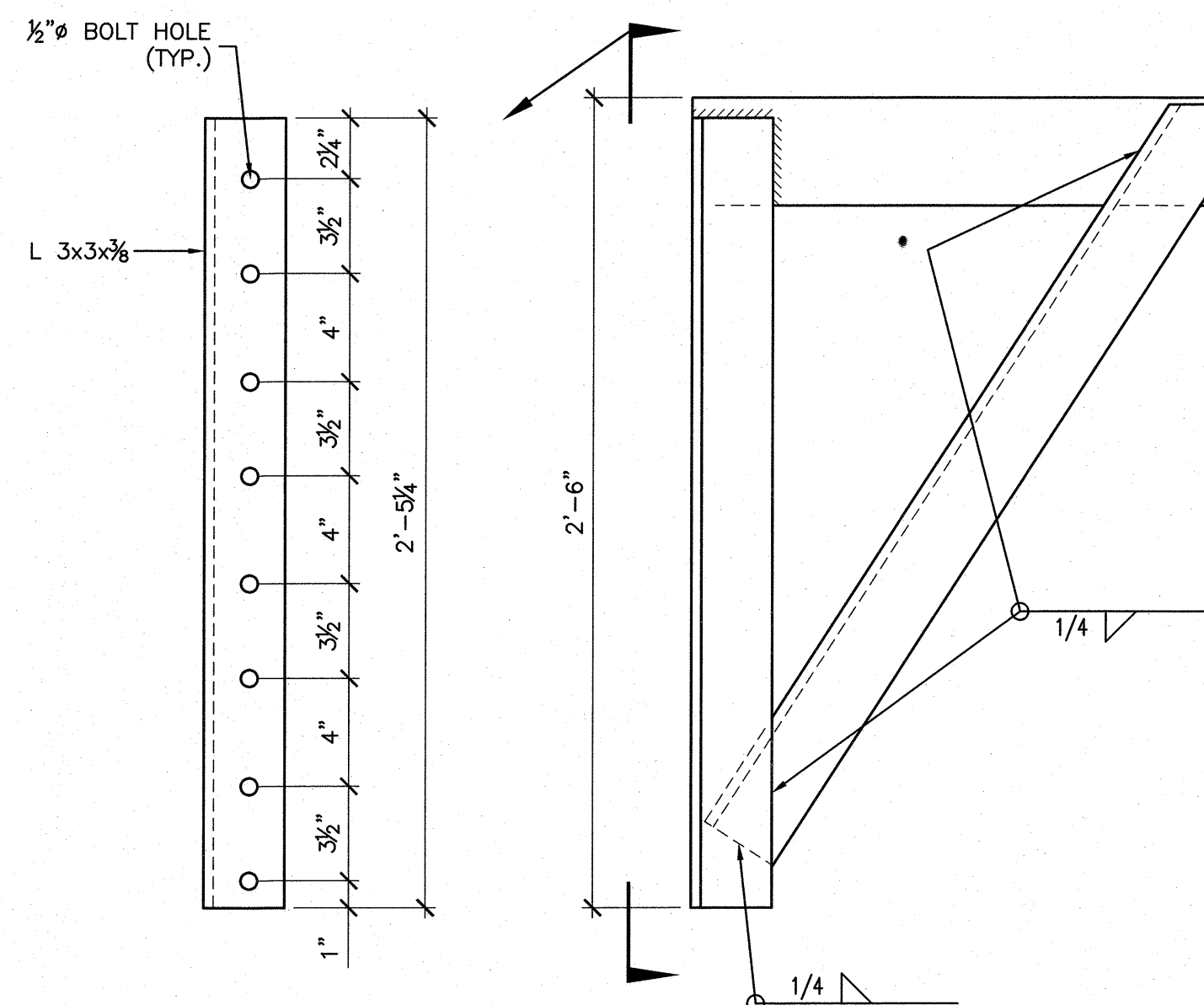
INSIDE PLANK PLAN

A CURVED PLANK GEOMETRY  
1/4"=1'-0"

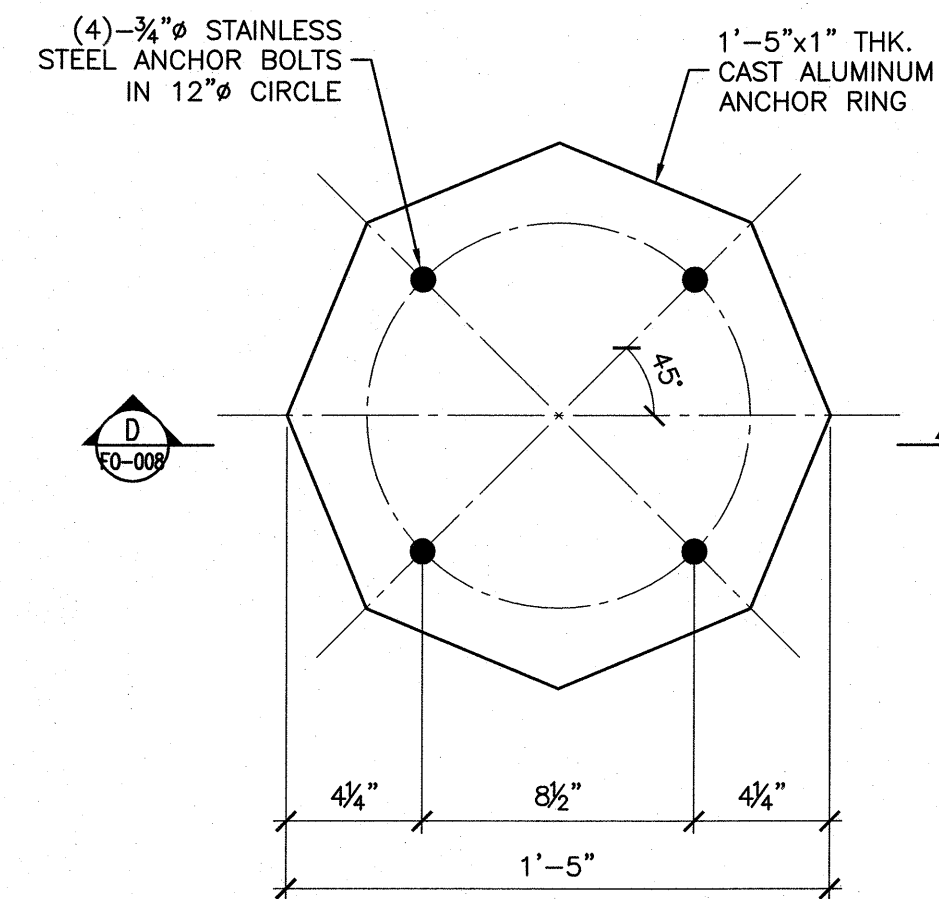


B BOARDWALK SKIRT MOUNTING BRACKET  
1"=1'-0"

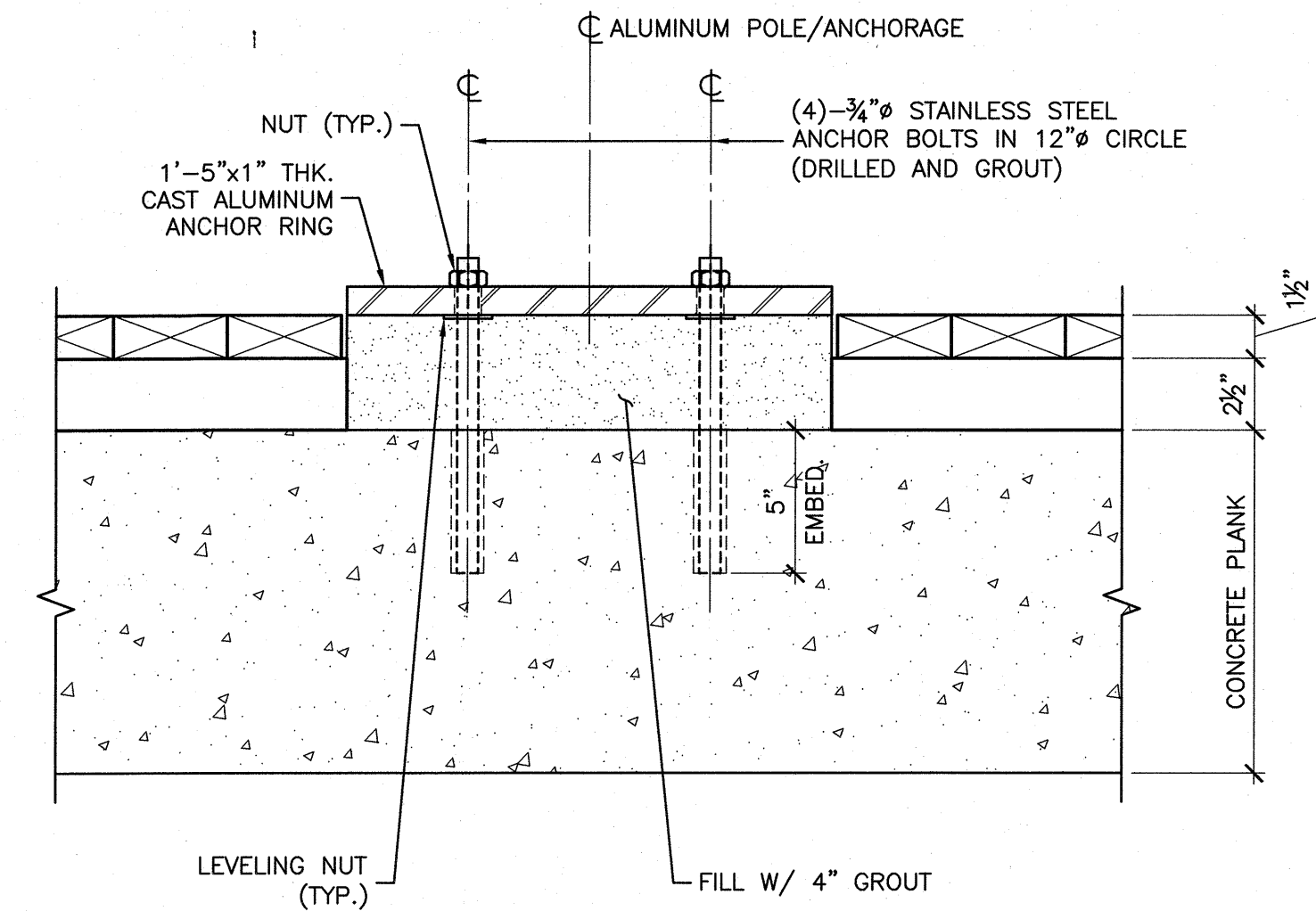
NOTE(S):  
1. BRACKET TO BE WELDED IN SHOP AND ANCHORED TO PLANK IN THE FIELD.  
2. INSERTS TO BE CAST-IN TO PRECAST PLANK TO ACCOMMODATE BRACKET ANCHORAGE.



E SKIRT MOUNTING BRACKET DETAIL  
2"=1'-0"



C ALUMINUM POLE/ANCHORAGE PLAN  
2"=1'-0"



D ALUMINUM POLE/ANCHORAGE SECTION  
2"=1'-0"

FILE NAME: P:\Proj\45140\358\10\_Dwg\000\FC-008\_Deck Sections and Details.dwg PLOT TIME: Wed, 21 Sep 2016 - 3:41pm LAST SAVE: Tue, 20 Sep 2016 - 10:17am BY: BMarquez

IN CHARGE OF J. V. GREEN P.E.  
CHECKED BY S. E. THORVALDSEN  
MADE BY B. G. MARQUEZ

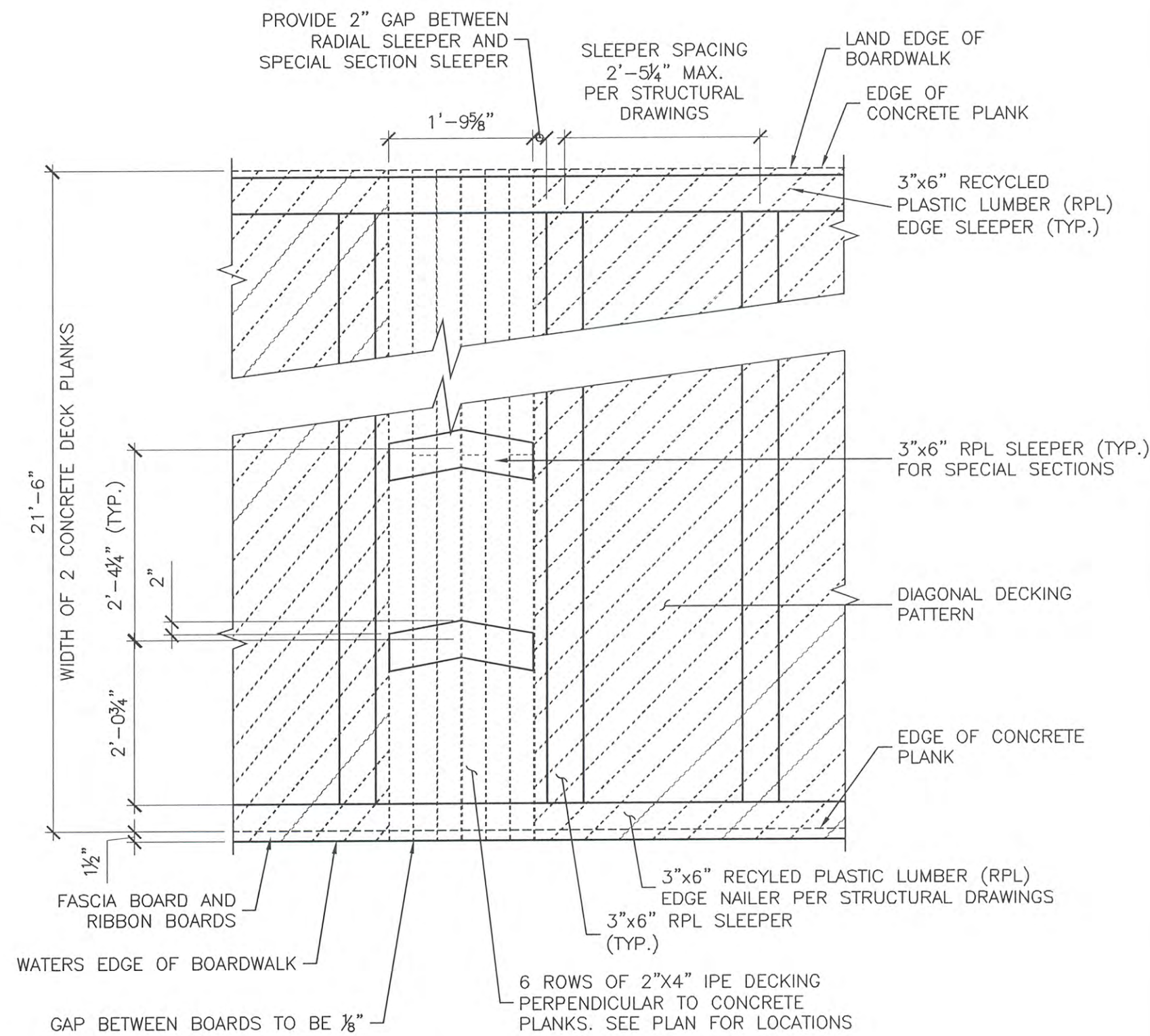
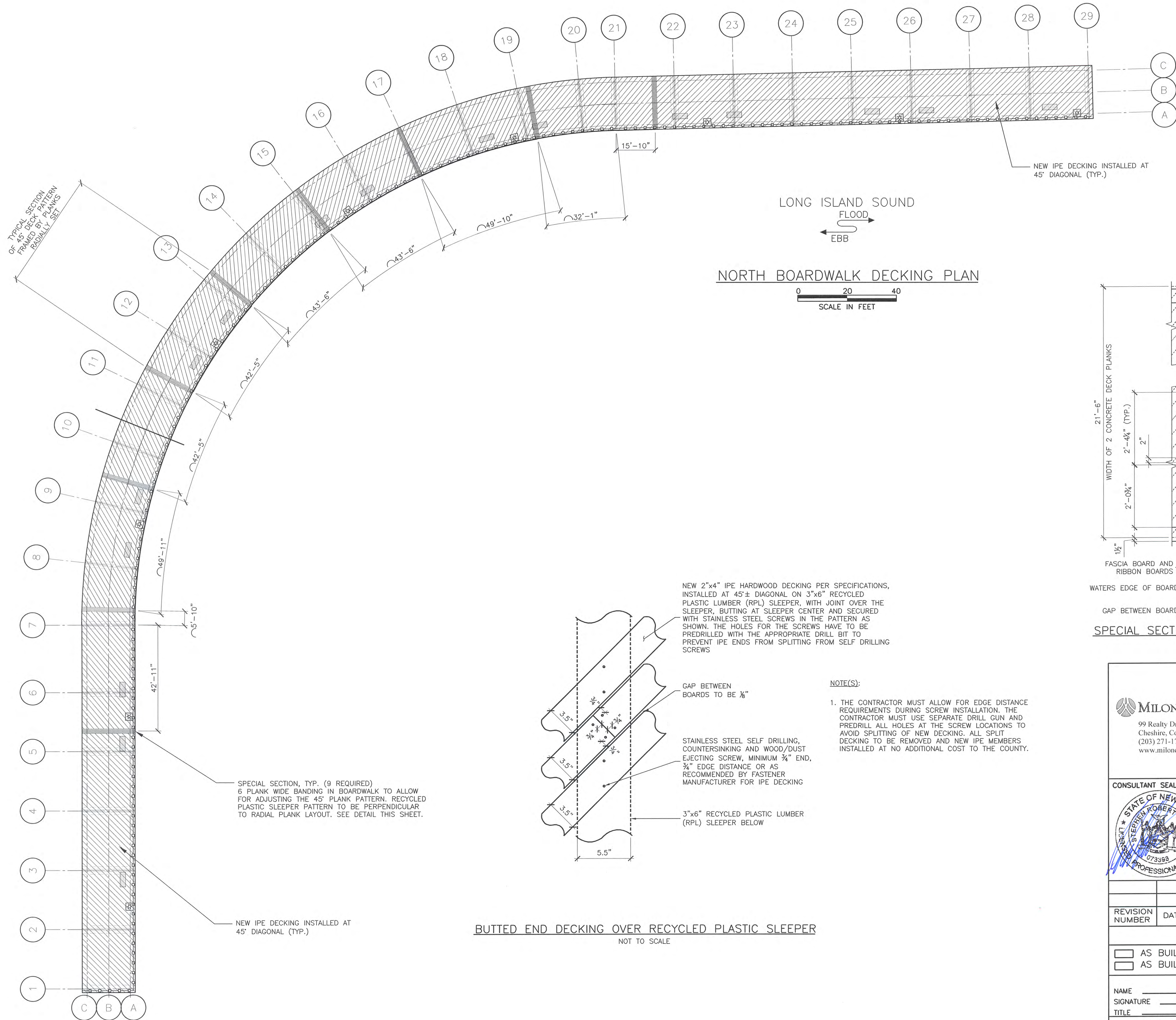
<b>CONSULTANT SEAL</b> 		<b>CONSULTANT INFORMATION</b>  <b>McLaren</b> ENGINEERING GROUP applied ingenuity M. G. McLAREN, P.C. 100 Snake Hill Road, West Nyack, NY 10994 Tel. (845) 353-6400 Fax. (845) 353-6509 www.ngmclaren.com		
REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
RECORD DRAWING CERTIFICATION				
<input type="checkbox"/> AS BUILT - CHANGES AS NOTED <input type="checkbox"/> AS BUILT - NO CHANGES				
CONTRACTOR		PROJECT COORDINATOR		
NAME	SIGNATURE	NAME	SIGNATURE	DATE
TITLE	DATE	TITLE	DATE	
WESTCHESTER COUNTY, NEW YORK		CONTRACT NUMBER	SHEET NUMBER	
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION		15-528	FO-008	
DIVISION OF ENGINEERING		SHEET NO. 15 OF 21		
SUPERSTORM SANDY REHABILITATION		SCALE: AS NOTED		
NORTH BOARDWALK RECONSTRUCTION PLAYLAND PARK		DATE: 09/22/16		
RYE, NEW YORK		DPW FILE NO.	REV. NO.	
DECK PLANK AND DECKING SECTIONS AND DETAILS - 2		1-08-G-156	0	







FILE NAME: C:\Users\lirid\AppData\Local\Temp\A\Project\4820\Mil-Mac-Prop Decking Layout and Details.dwg PLOT TIME: Wed, 21 Sep 2016 - 3:31pm LAST SAVE: Wed, 21 Sep 2016 - 2:20pm B1: blank



SPECIAL SECTION RECYCLED PLASTIC SLEEPER PLAN  
NOT TO SCALE

NOTE(S):

1. THE CONTRACTOR MUST ALLOW FOR EDGE DISTANCE REQUIREMENTS DURING SCREW INSTALLATION. THE CONTRACTOR MUST USE SEPARATE DRILL GUN AND PREDRILL ALL HOLES AT THE SCREW LOCATIONS TO AVOID SPLITTING OF NEW DECKING. ALL SPLIT DECKING TO BE REMOVED AND NEW IPE MEMBERS INSTALLED AT NO ADDITIONAL COST TO THE COUNTY.

BUTTED END DECKING OVER RECYCLED PLASTIC SLEEPER  
NOT TO SCALE

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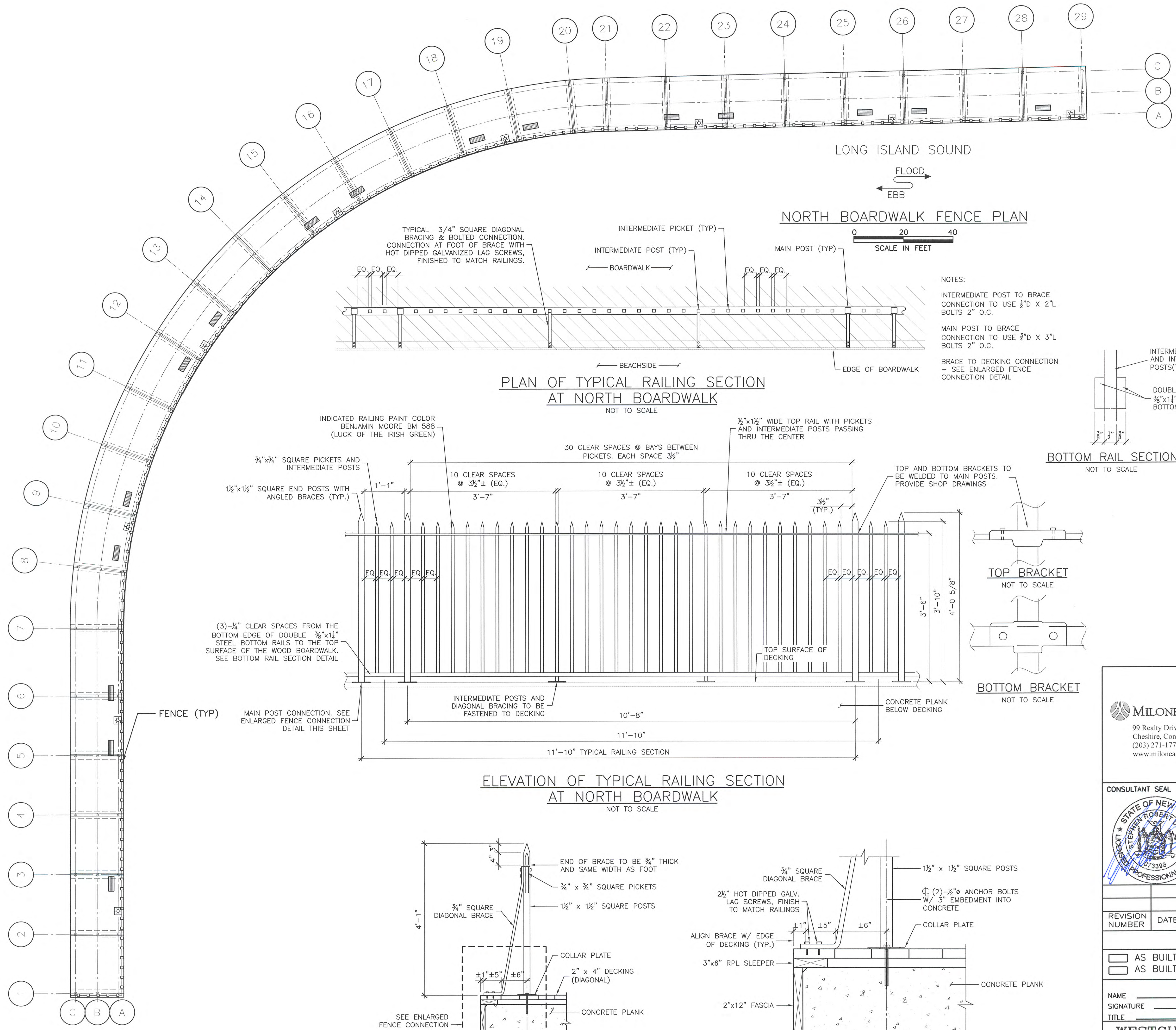


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100 Snake Hill Road, West Nyack, NY 10994  
Tel. (845) 353-6400 Fax. (845) 353-6509 www.mgmclaren.com

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
RECORD DRAWING CERTIFICATION				
<input type="checkbox"/> AS BUILT - CHANGES AS NOTED <input type="checkbox"/> AS BUILT - NO CHANGES				
CONTRACTOR		PROJECT COORDINATOR		
NAME	SIGNATURE	NAME	SIGNATURE	
TITLE	DATE	TITLE	DATE	
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING				CONTRACT NUMBER 15-528 SHEET NUMBER FO-010
SUPERSTORM SANDY REHABILITATION NORTH BOARDWALK RECONSTRUCTION PLAYLAND PARK RYE, NEW YORK PROPOSED DECKING LAYOUT AND DETAILS				SHEET NO. 17 OF 21 SCALE: AS NOTED DATE: 09/22/16 DPW FILE NO. 1-08-G-158 REV. NO. 0

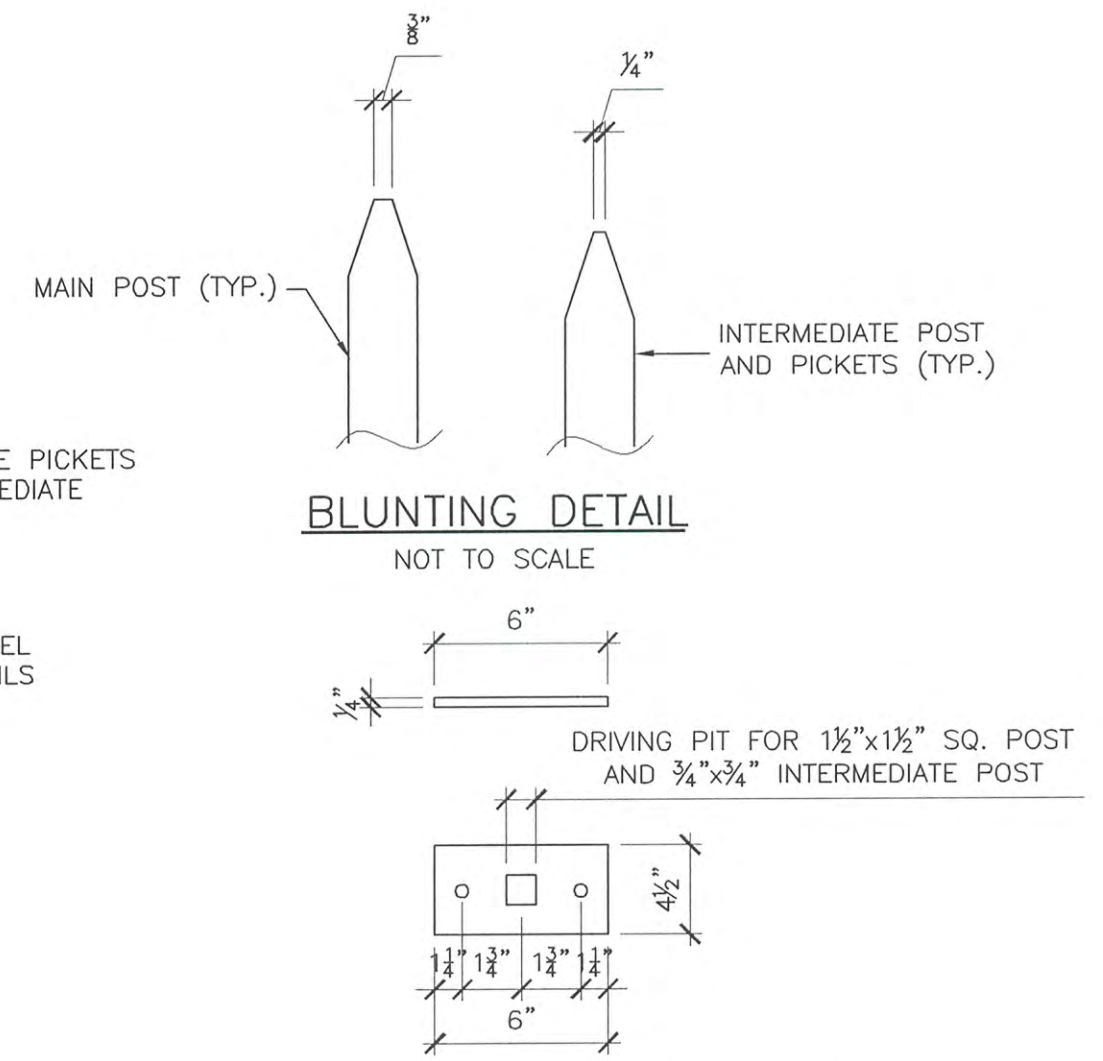
IN CHARGE OF \_\_\_\_\_  
CHECKED BY T. R. SHEIL  
MADE BY K. C. FUSELIER





NOTES:  
INTERMEDIATE POST TO BRACE  
CONNECTION TO USE 2" D X 2" L  
BOLTS 2" O.C.  
MAIN POST TO BRACE  
CONNECTION TO USE 2" D X 3" L  
BOLTS 2" O.C.  
BRACE TO DECKING CONNECTION  
- SEE ENLARGED FENCE  
CONNECTION DETAIL

INTERMEDIATE PICKETS  
AND INTERMEDIATE  
POSTS(TYP.)  
DOUBLE  
3/8"x1 1/2" STEEL  
BOTTOM RAILS  
NOT TO SCALE



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NOTES:  
1. PROVIDE SHOP DRAWINGS FOR ALL FENCING ELEMENTS.  
REFER TO SPECIFICATIONS FOR CLARIFICATION ON  
MATERIAL AND METHOD REQUIREMENTS.  
2. PRIMER AND PAINT FINISH TO BE PER SPECIFICATIONS.  
COLOR: BENJAMIN MOORE, BM 588(LUCK OF THE IRISH  
GREEN). SUBMIT PAINT SAMPLES



CONSULTANT  
INFORMATION



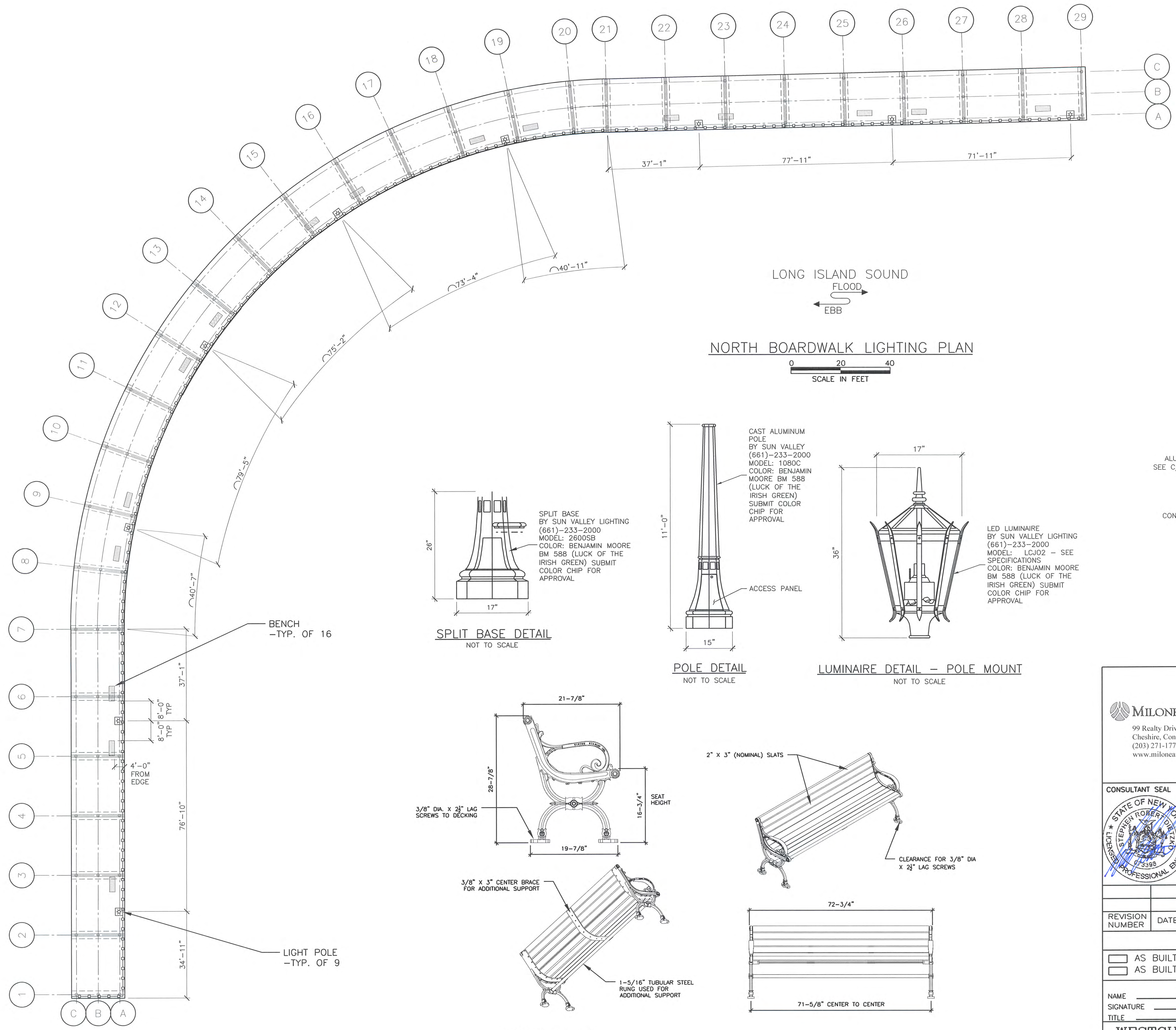
M. G. McLAREN, P.C.  
100 Snake Hill Road, West Nyack, NY 10994  
Tel. (845) 353-6400 Fax. (845) 353-6509 www.mgmclaren.com

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
RECORD DRAWING CERTIFICATION				
CONTRACTOR		PROJECT COORDINATOR		
NAME SIGNATURE TITLE	DATE	NAME SIGNATURE TITLE	DATE	
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 15-528	SHEET NUMBER FO-011	
SUPERSTORM SANDY REHABILITATION NORTH BOARDWALK RECONSTRUCTION PLAYLAND PARK RYE, NEW YORK PROPOSED FENCE LAYOUT AND DETAILS		SHEET NO. 18 OF 21 SCALE: AS NOTED DATE: 09/22/16 DPW FILE NO.	REV. NO. 0	

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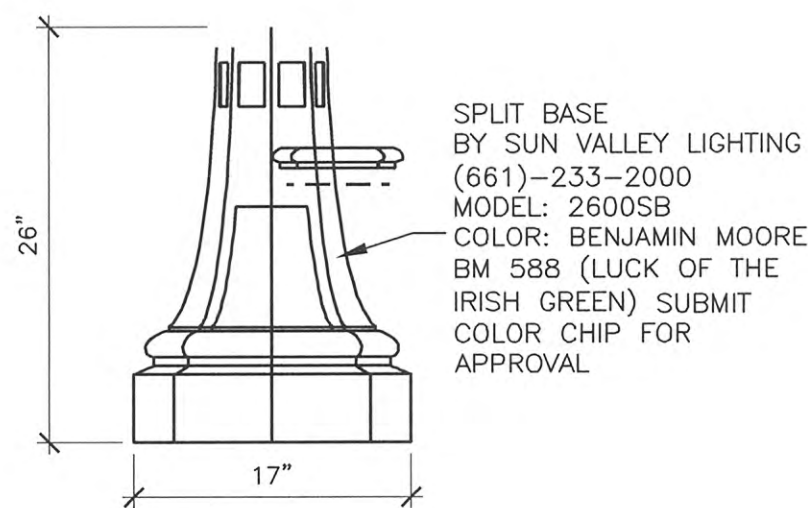
IN CHARGE OF \_\_\_\_\_  
CHECKED BY T. R. SHEIL  
MADE BY K. C. FUSELIER



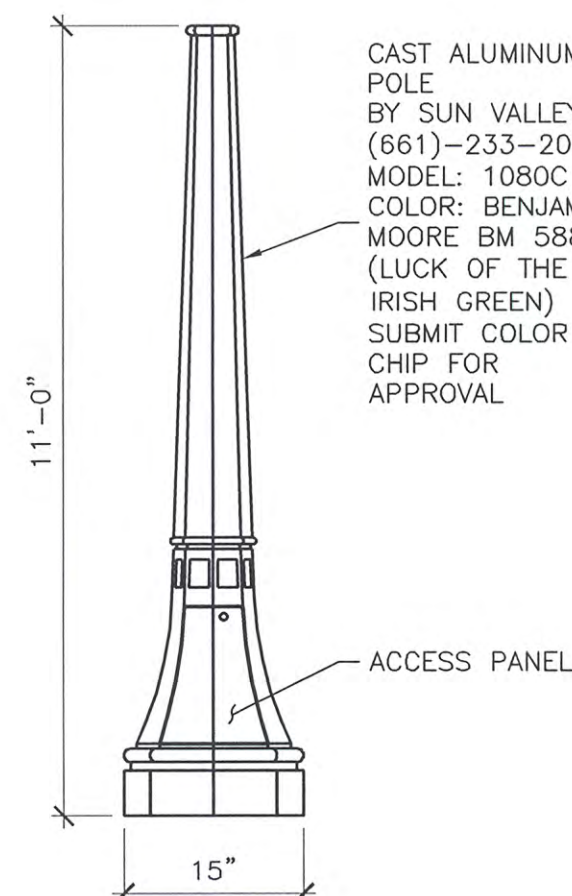


NORTH BOARDWALK LIGHTING PLAN

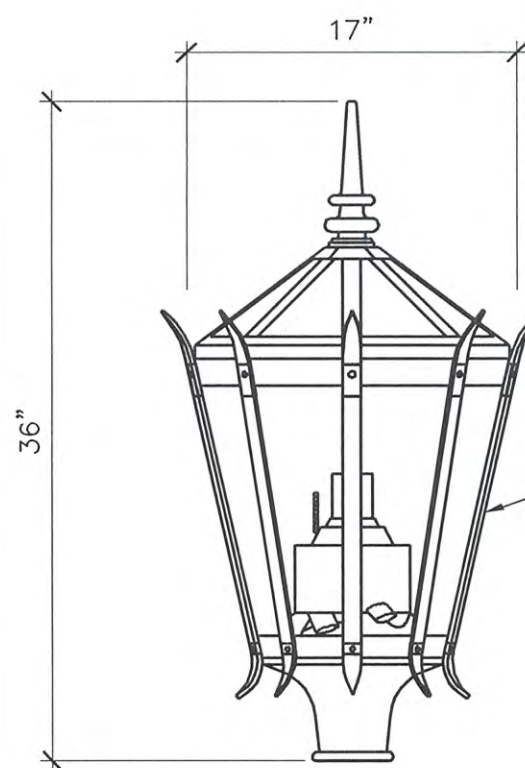
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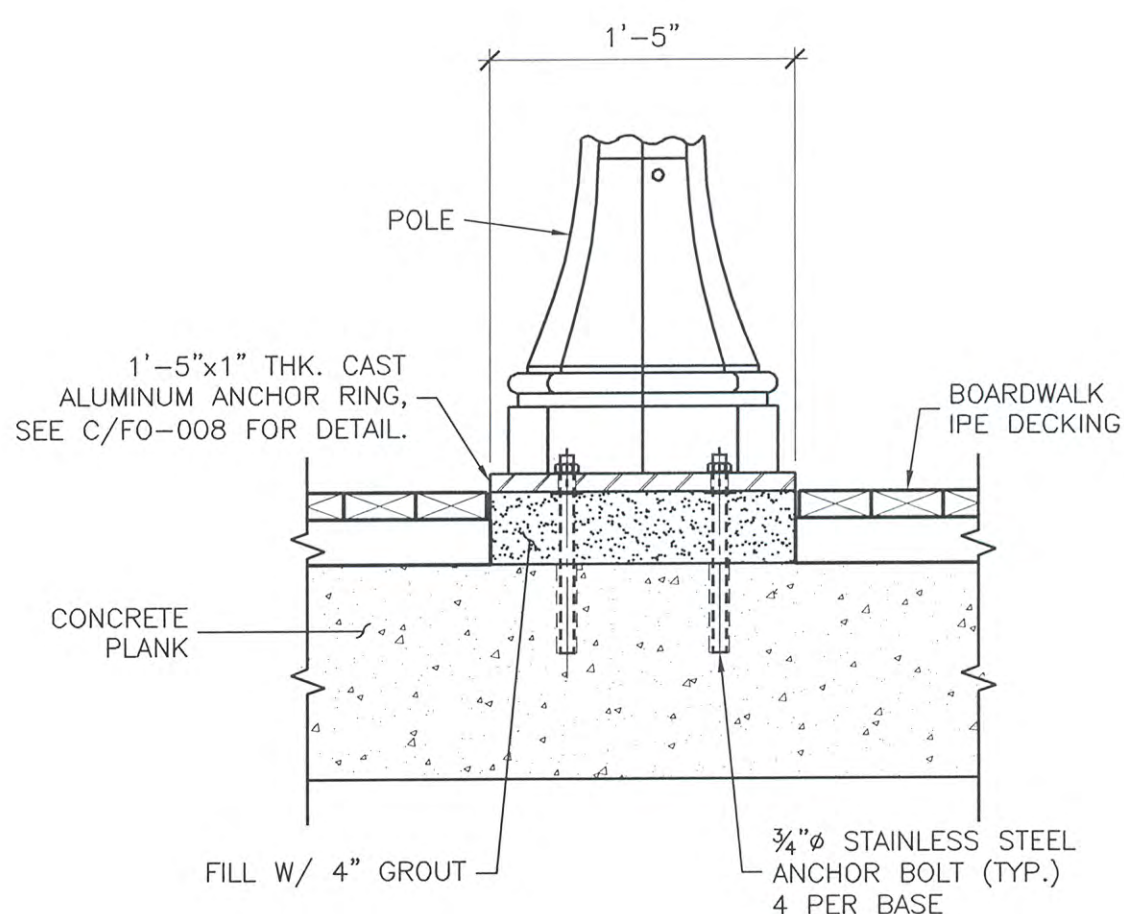
SPLIT BASE DETAIL  
NOT TO SCALE



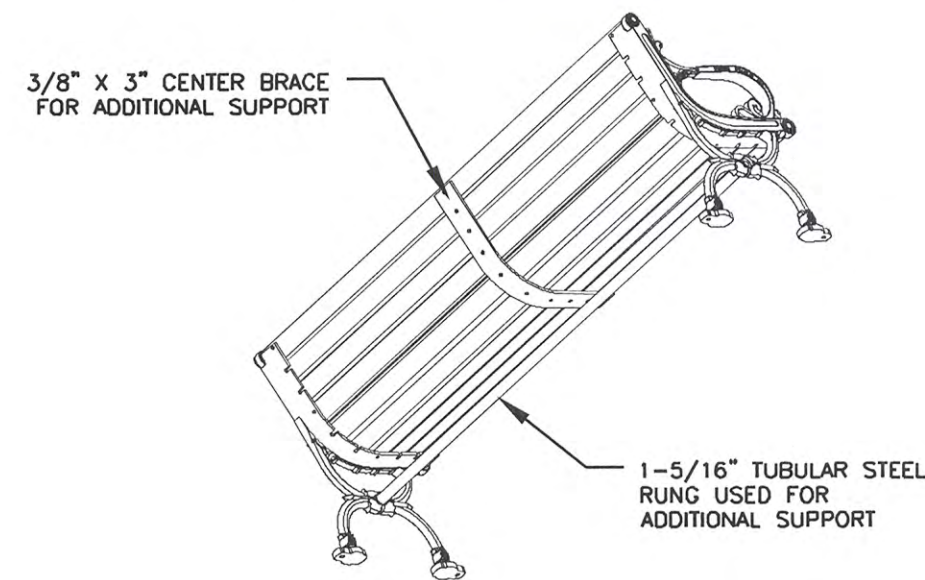
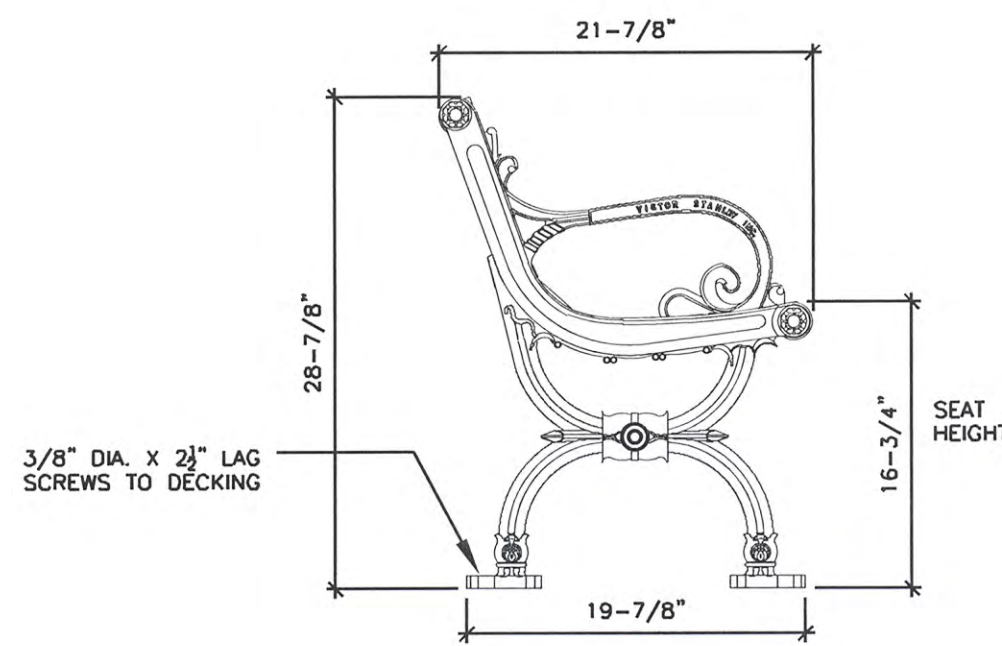
POLE DETAIL  
NOT TO SCALE



LUMINAIRE DETAIL - POLE MOUNT  
NOT TO SCALE

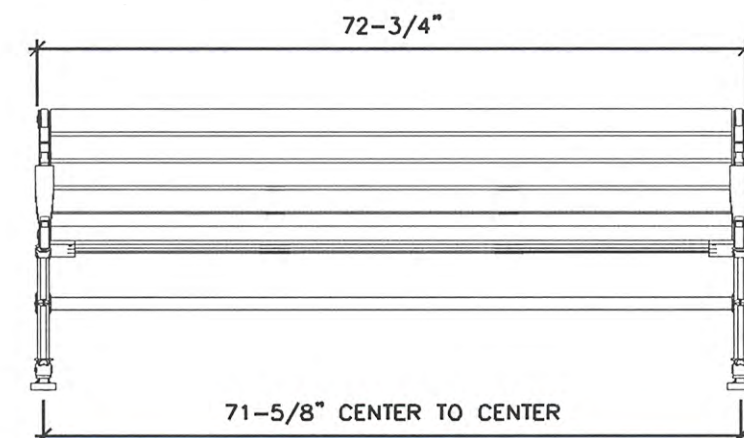
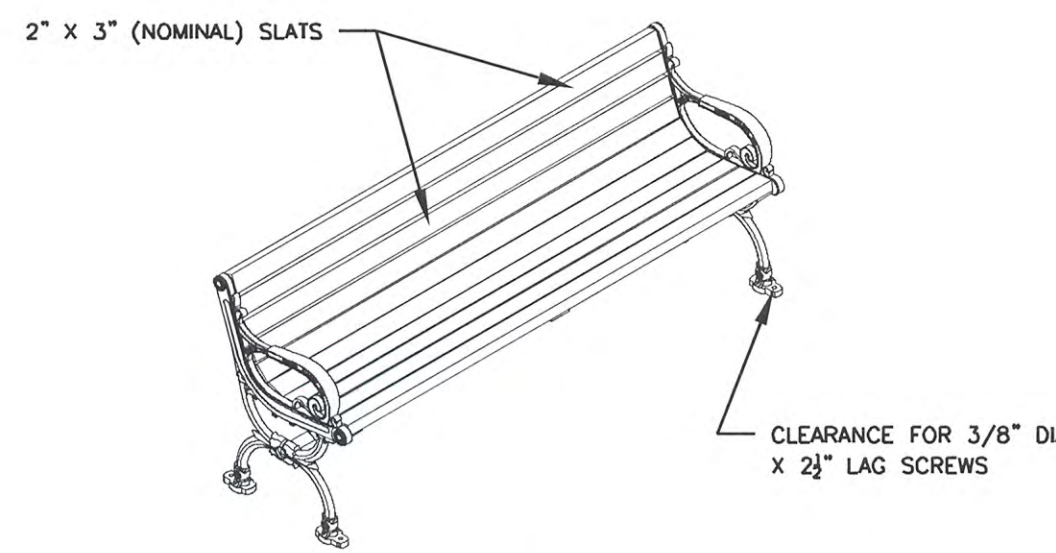


POLE MOUNTING DETAIL  
NOT TO SCALE



MANUFACTURER: VICTOR STANLEY  
MODEL: C-10  
LENGTH: 6'  
POWDER COATING: BLACK  
SLAT TYPES: 2nd SITE SYSTEMS® REINFORCED RECYCLED PLASTIC  
SLATS COLOR: CHERRY  
INTERMEDIATE & CENTER ARM RESTS: NONE

BENCH DETAIL - SURFACE MOUNTED  
N.T.S.



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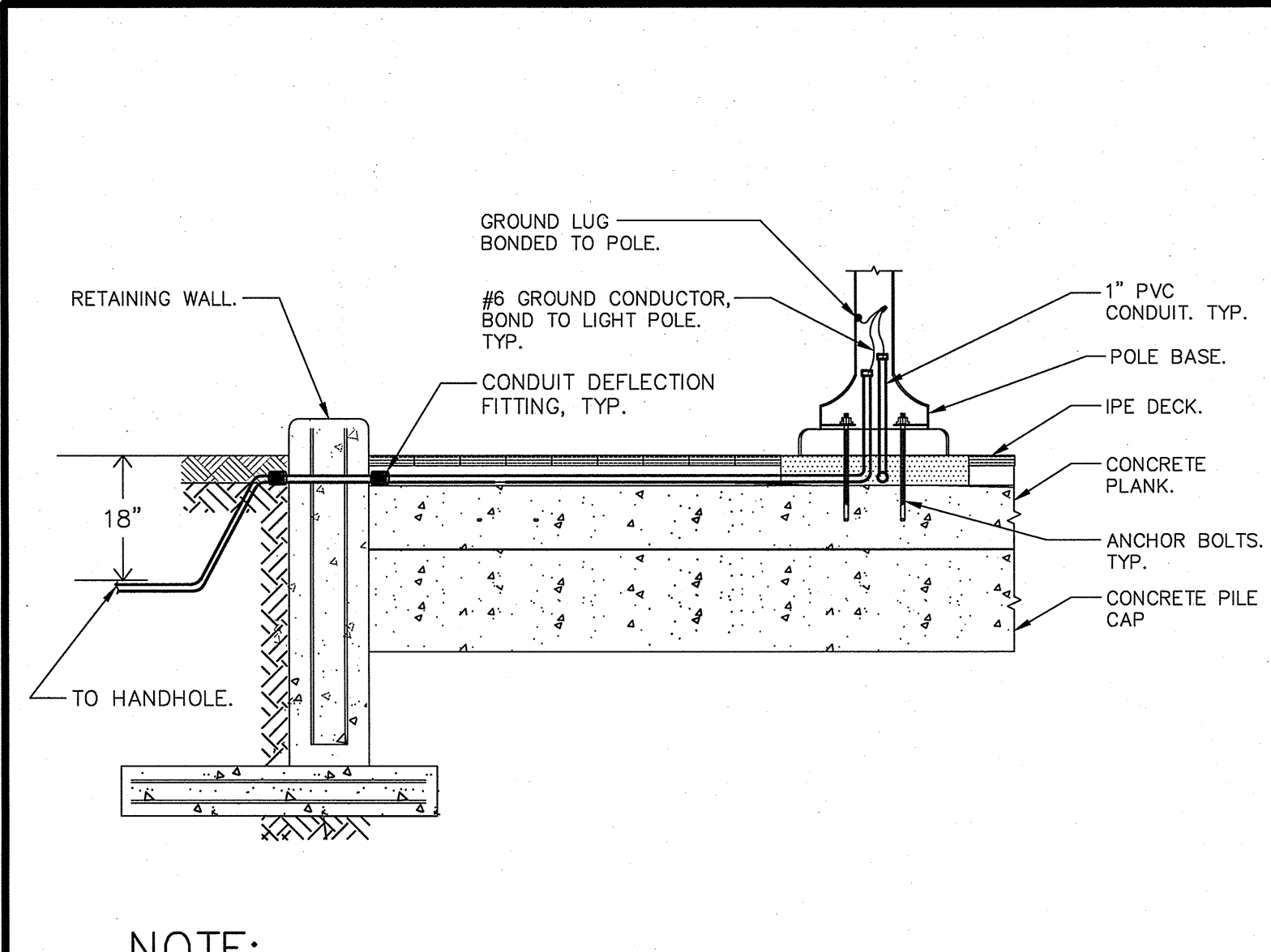
M. G. McLAREN, P.C.  
100 Snake Hill Road, West Nyack, NY 10994  
Tel. (845) 353-6400 Fax: (845) 353-6509 www.mgmclaren.com

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
RECORD DRAWING CERTIFICATION				
<input type="checkbox"/> AS BUILT - CHANGES AS NOTED <input type="checkbox"/> AS BUILT - NO CHANGES				
CONTRACTOR		PROJECT COORDINATOR		
NAME	SIGNATURE	NAME	SIGNATURE	DATE
TITLE	DATE	TITLE	DATE	DATE
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING				CONTRACT NUMBER 15-528 SHEET NUMBER E-001
SUPERSTORM SANDY REHABILITATION NORTH BOARDWALK RECONSTRUCTION PLAYLAND PARK RYE, NEW YORK PROPOSED LIGHTING LAYOUT, BENCH LAYOUT AND DETAILS				SHEET NO. 19 OF 21 SCALE: AS NOTED DATE: 09/22/16 DPW FILE NO. 1-08-E-160 REV. NO. 0

IN CHARGE OF \_\_\_\_\_  
CHECKED BY T. R. SHEIL  
MADE BY K. C. FUSELIER

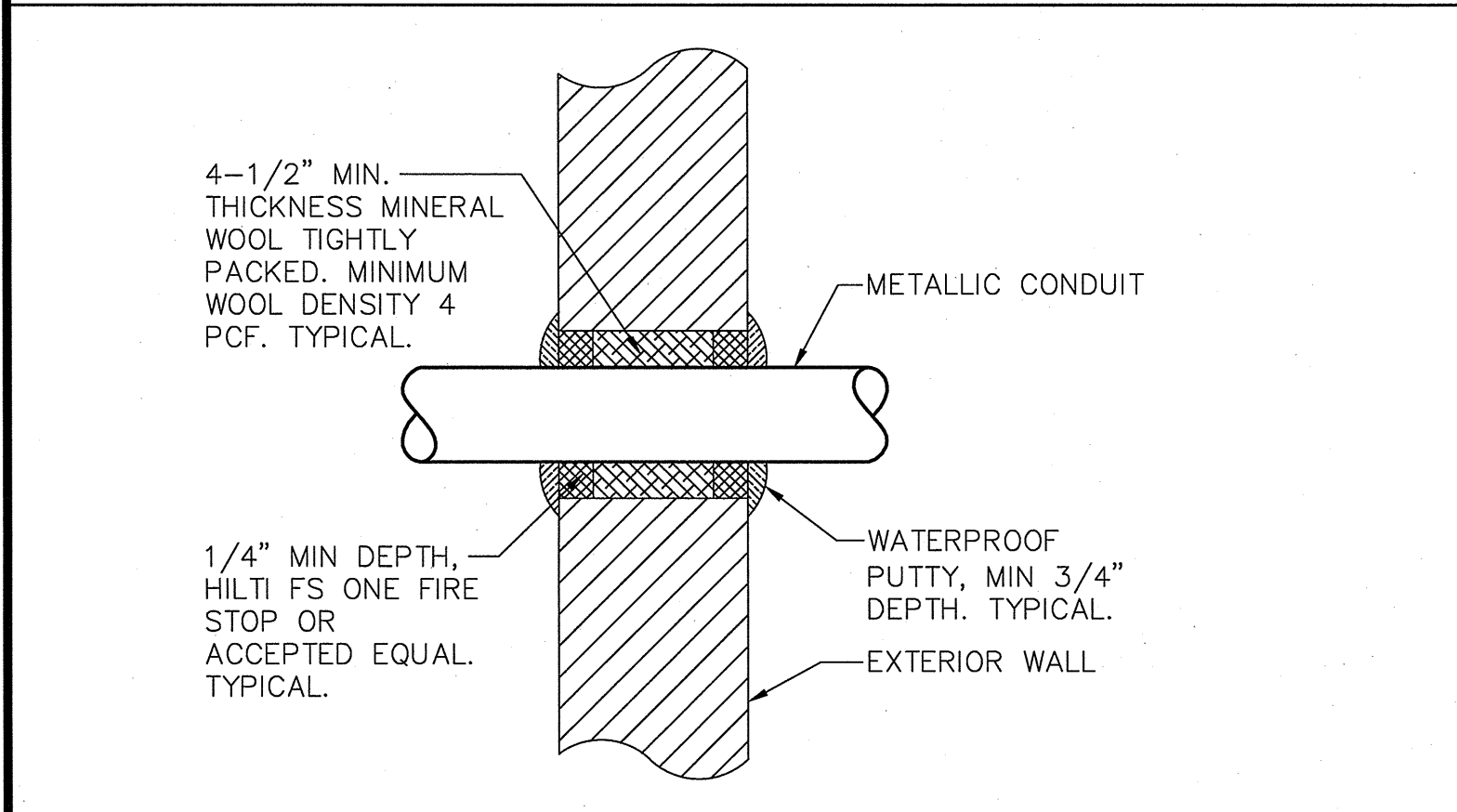


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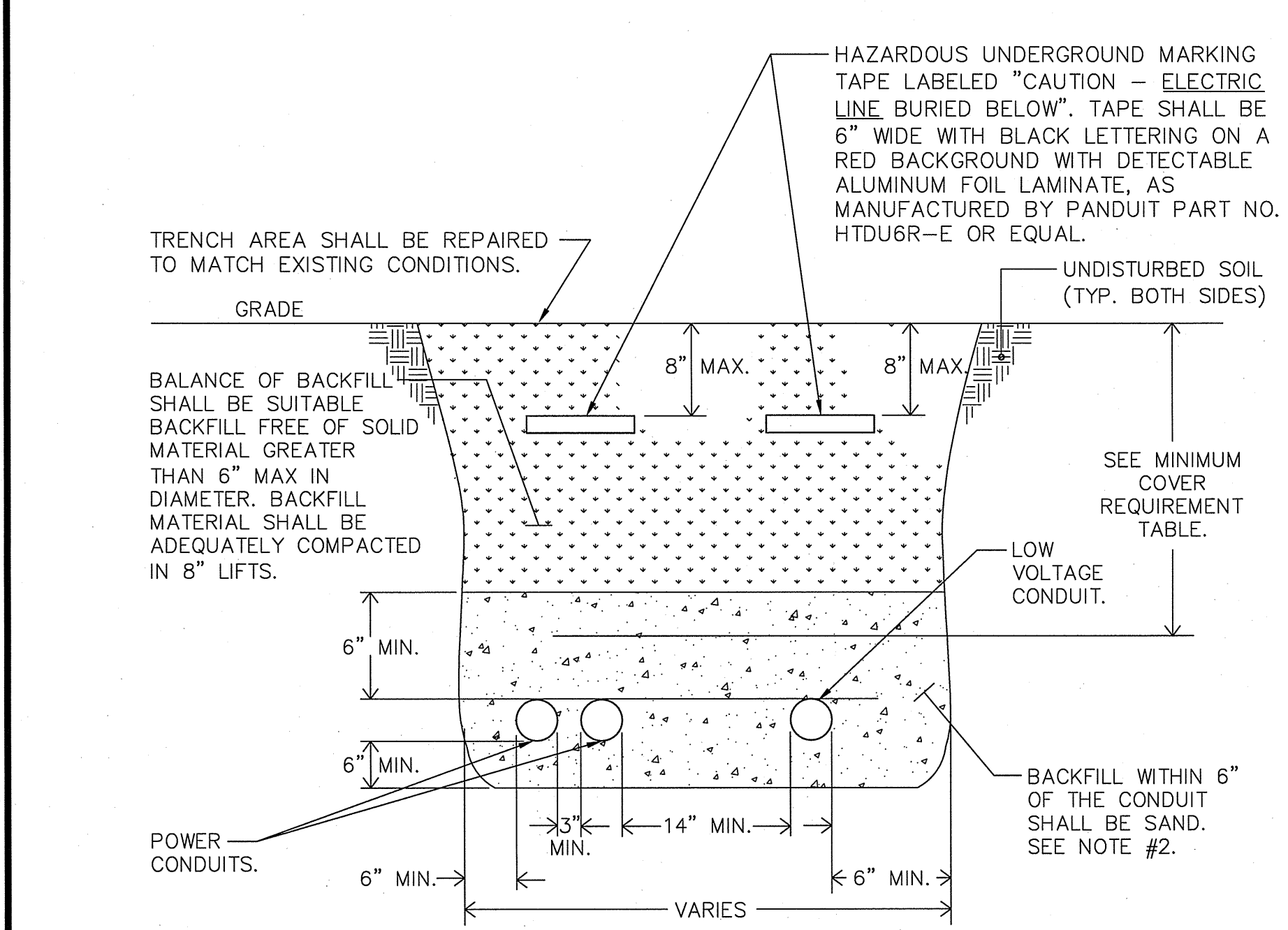


**NOTE:**  
1.) SEE SITE ENGINEERS DRAWINGS FOR MORE DETAIL.

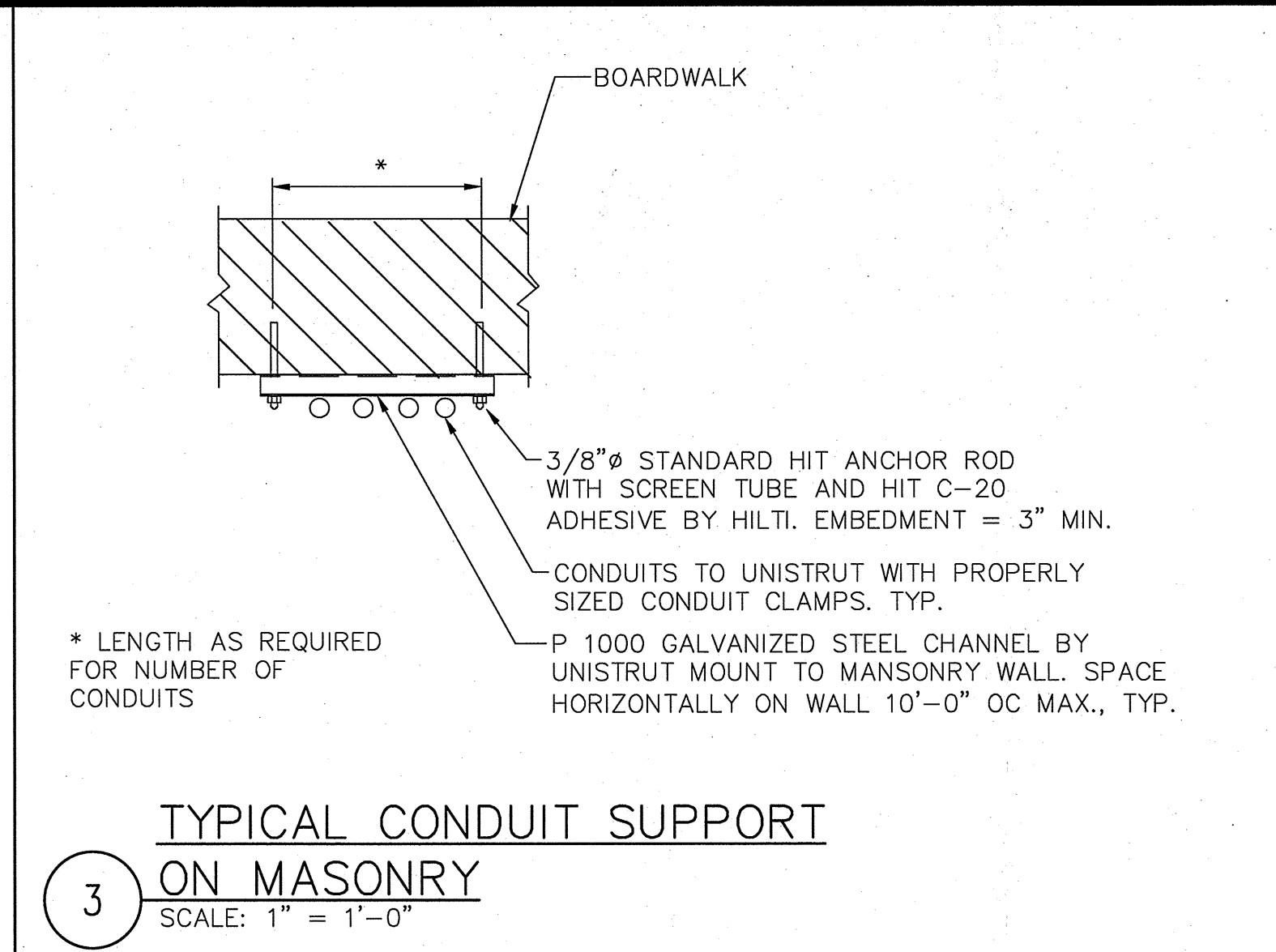
**5 BOARDWALK PENETRATION AND LIGHT POST ELECTRICAL INSTALLATION DETAIL**  
SCALE: NONE



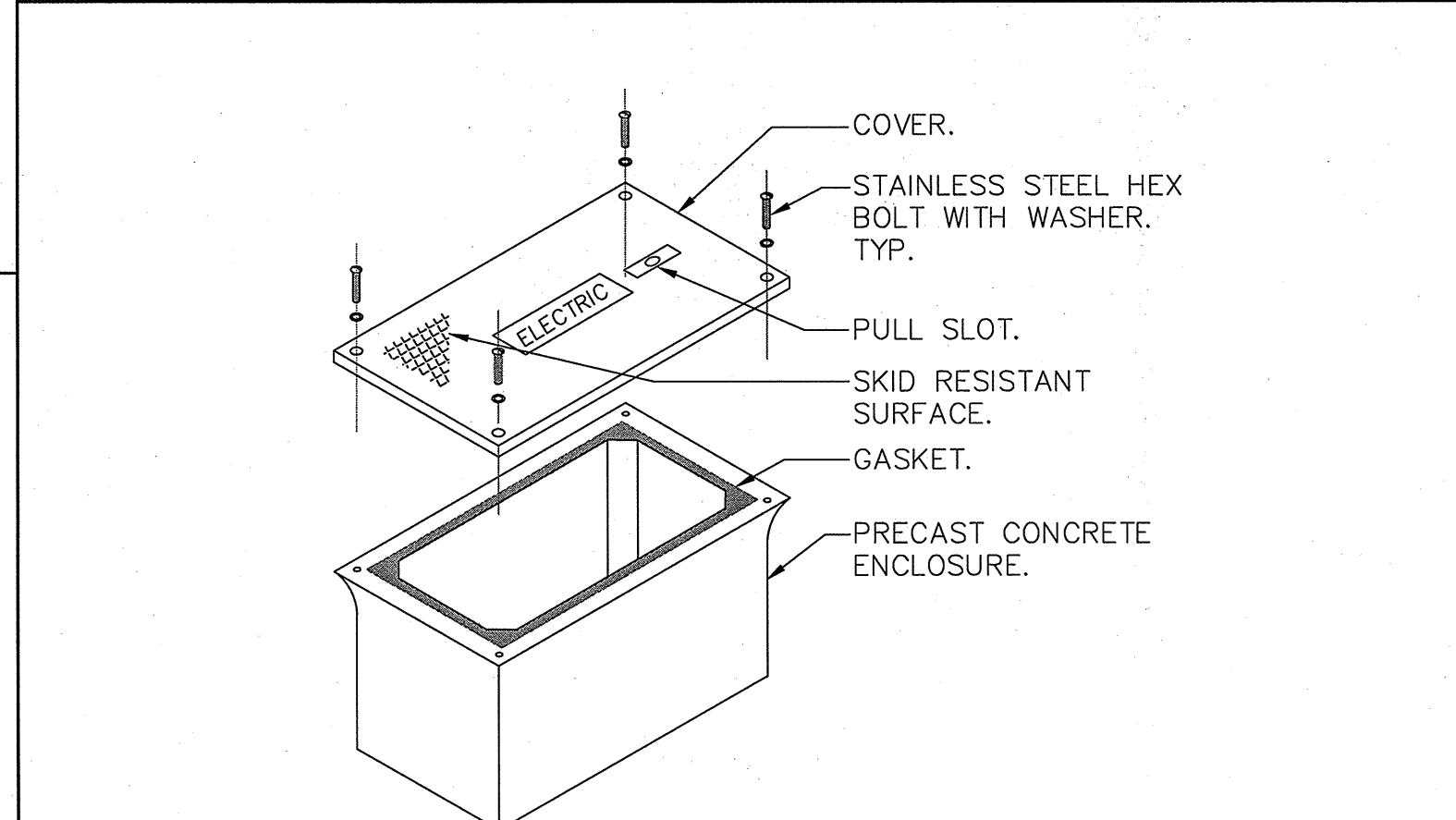
**4 TYPICAL ABOVE GRADE CONDUIT EXTERIOR MASONRY WALL PENETRATION DETAIL**  
SCALE: NONE



**1 TRENCHING DETAIL FOR CONDUIT**  
SCALE: NONE



**3 TYPICAL CONDUIT SUPPORT ON MASONRY**  
SCALE: 1" = 1'-0"



**NOTES:**  
1.) HAND HOLE SHALL BE SIZE INDICATED ON DWG E--3.1 WITH OPEN BOTTOM AND RATED FOR VEHICULAR TRAFFIC AS MANUFACTURED BY QUAZITE PD STYLE OR EQUAL. BOX SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.  
2.) PROVIDE 6" OF GRAVEL BELOW BOX.  
3.) COVER SHALL BE IMPRINTED WITH THE APPROPRIATE DESCRIPTION OF BOX CONTENTS (I.E. ELECTRIC, TELEPHONE, DATA, CABLE TV, ETC.).

**2 HAND HOLE DETAIL**  
SCALE: NONE

MINIMUM COVER REQUIREMENT TABLE	
LOCATION	NONMETALLIC RACEWAYS LISTED FOR DIRECT BURIAL WITHOUT CONCRETE ENCASEMENT OR OTHER APPROVED RACEWAYS
ALL LOCATION NOT SPECIFIED BELOW.	18"
IN TRENCH BELOW 2-IN. THICK CONCRETE OR EQUIVALENT.	12"
UNDER MINIMUM OF 4-IN. THICK CONCRETE EXTERIOR SLAB WITH NO VEHICULAR TRAFFIC AND THE SLAB EXTENDING NOT LESS THAN 6 IN. BEYOND THE UNDERGROUND INSTALLATION.	4" SEE NOTE #2.
UNDER STREETS, HIGHWAYS, ROADS, ALLEYS, DRIVEWAYS, AND PARKING LOTS.	24"

**NOTES:**  
1.) DETAIL SHOWN FOR INFORMATION PURPOSES. SAME CONCEPT SHALL ALSO APPLY FOR SINGLE CONDUITS.  
2.) SAND MAY BE OMITTED FOR INSTALLATIONS WHERE COVER REQUIREMENTS ARE 6" OR LESS.

SYMBOLS AND ABBREVIATIONS		
SYMBOL	ABBREVIATION	DESCRIPTION
—	—	CONDUIT AND WIRING
—UG—	—	BURIED CONDUIT
⚡	—	HOMERUN TO PANEL, ARROWS INDICATE # 1P
⬅	—	MULTI-POLE HOMERUN
□	—	ELECTRICAL EQUIPMENT AS INDICATED
Ⓜ	—	ELECTRIC METER
Ⓜ	—	JUNCTION BOX
Ⓜ	—	FUSED DISCONNECT SWITCH
Ⓜ	—	UNFUSED DISCONNECT SWITCH
Ⓜ	CB	CIRCUIT BREAKER
Ⓜ	GND	GROUND AS PER LOCAL CODE
Ⓜ	—	TRANSFER SWITCH
Ⓜ	XFMR	TRANSFORMER
Ⓜ	CT	CURRENT TRANSFORMER
Ⓜ	AS	AMPERAGE OF SWITCH
Ⓜ	ATS	AUTOMATIC TRANSFER SWITCH
Ⓜ	AWG	AMERICAN WIRE GAUGE
Ⓜ	BLDG	BUILDING
Ⓜ	CKT	CIRCUIT
Ⓜ	CU	COPPER
Ⓜ	MCB	MAIN CIRCUIT BREAKER
Ⓜ	MLO	MAIN LUG ONLY
Ⓜ	NIC	NOT IN CONTRACT
Ⓜ	NTS	NOT TO SCALE
Ⓜ	PNL	PANEL

**NOTES:**  
1.) ALL SYMBOLS AND ABBREVIATIONS MAY NOT BE APPLICABLE FOR THIS PROJECT.  
2.) SEE LANDSCAPE PLANS FOR LIGHTING FIXTURE INFORMATION.

**GENERAL NOTES**

1.) ALL WORK SHOWN IS NEW UNLESS OTHERWISE NOTED (UON) EXISTING TO REMAIN (EX.).

2.) THE DRAWINGS ARE TO BE CONSIDERED SCHEMATIC ONLY AND DO NOT NECESSARILY SHOW THE EXACT LOCATIONS AND DETAILS OF THE WORK TO BE INSTALLED.

3.) THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND PAYING ALL FEES ASSOCIATED WITH THIS WORK INCLUDING FILING WITH THE UTILITY COMPANY (AS REQUIRED), AND WITH LOCAL AUTHORITY HAVING JURISDICTION.

4.) ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO HIRE A THIRD PARTY ELECTRICAL INSPECTION AGENCY TO PROVIDE UL INSPECTIONS AND SUBMIT A CERTIFICATE OF INSPECTION PRIOR TO FINAL REQUEST FOR PAYMENT.

6.) ALL CONDUCTORS SHALL BE COPPER UON "ON DRAWINGS".

7.) ELECTRONIC FILES OF THE MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION DRAWINGS ARE AVAILABLE TO THE CONTRACTOR VIA COMPACT DISK. THE ENGINEER MAY GRANT THE CONTRACTOR A LIMITED LICENSE TO MAKE A DERIVATIVE WORK OF THE DATABASE FOR THE PURPOSE OF SHOP DRAWINGS, SUBMITTALS AND AS-BUILT DRAWINGS. UPON REQUEST, THE ENGINEER SHALL PROVIDE A RELEASE FORM THAT MUST BE SIGNED AND RETURNED BY THE CONTRACTOR ALONG WITH A LUMP SUM FEE OF TWO HUNDRED AND FIFTY (\$250.00) DOLLARS PRIOR TO RELEASE OF THE ELECTRONIC FILES. THIS FEE IS FOR TIME AND MATERIAL COSTS INCURRED IN PREPARING AND TRANSMITTING THE REQUESTED DATA.

8.) CIRCUIT NUMBERS ARE FOR INFORMATION PURPOSES ONLY. ACTUAL CIRCUIT NUMBERS SHALL BE DETERMINED IN THE FIELD.

13.) INSTALL CONDUIT EXPANSION FITTINGS AT ALL LOCATIONS WHERE CONDUITS CROSS BUILDING OR STRUCTURE EXPANSION JOINTS.

14.) INSTALL CONDUIT DEFLECTION FITTINGS AT ALL LOCATIONS WHERE CONDUITS TRANSITION FROM GROUND TO BOARDWALK.

**TRENCHING NOTES**

1.) CONTRACTOR SHALL LOCATE ALL EXISTING UNDERGROUND UTILITIES THAT ARE NOT PART OF N.Y. STATE "CODE 753" PRIOR TO DIGGING.

2.) ALL EXCAVATING IN THE AREA OF THE EXISTING UNDERGROUND EQUIPMENT, PIPES AND CONDUITS SHALL BE PERFORMED BY HAND.

3.) ANY AREA/PLANTS OR LANDSCAPING OR PAVEMENTS DISTURBED DURING THE EXCAVATION SHALL BE RESTORED OR REPLACED TO MATCH EXISTING CONDITIONS BY THE CONTRACTOR AT NO COST TO THE OWNER.

4.) ANY EXISTING BURIED CONDUITS, DRAINAGE, SPRINKLER PIPING, ETC. THAT IS DISTURBED AND/OR DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.

5.) THE PLANS SHOW SOME KNOWN SUBSURFACE STRUCTURES, ABOVE GROUND STRUCTURES AND/OR UTILITIES BELIEVED TO EXIST IN THE WORKING AREA, EXACT LOCATION OF WHICH MAY VARY FROM THE LOCATIONS INDICATED. IN PARTICULAR, THE CONTRACTOR IS WARNED THAT THE EXACT OR EVEN APPROXIMATE LOCATION OF SUCH PIPELINES, SUBSURFACE STRUCTURES AND/OR UTILITIES IN THE AREA MAY OR MAY NOT BE SHOWN; AND IT SHALL BE HIS RESPONSIBILITY TO PROCEED WITH GREAT CARE IN EXECUTING ANY WORK. 48 HOURS BEFORE YOU DIG, DRILL OR BLAST, CALL 1-800-962-7962 (NY STATE).

**DEFINITION OF TERMS**

1.) WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "CLIENT" IS USED, IT MUST BE UNDERSTOOD THAT WESTCHESTER COUNTY IS INTENDED.

4.) WHEREVER IN THE CONTRACT DOCUMENTS THE WORDS "ELECTRICAL UTILITY" OR "POWER COMPANY" ARE USED, IT MUST BE UNDERSTOOD THAT "CON EDISON" IS INTENDED.

7.) "WORK" MUST BE DEEMED TO CONSIST OF ALL LABOR AND OPERATIONS, TRANSPORTATION, HOISTING, MATERIALS, TOOLS, EQUIPMENT, SERVICES, INSPECTIONS, INVESTIGATIONS, COORDINATION AND SUPERVISION REQUIRED AND / OR REASONABLY NECESSARY TO PRODUCE THE CONSTRUCTION REQUIRED BY THE CONTRACT DOCUMENTS.

8.) "FURNISH" MEANS THE DESIGN, FABRICATION, PURCHASE AND DELIVERY TO THE JOB SITE.

9.) "INSTALL OR INSTALLATION" MEANS THE ACT OF PHYSICALLY PLACING, APPLYING, SETTING, ERECTING, ANCHORING, SECURING, ETC., CONSTRUCTION MATERIALS, EQUIPMENT, FURNISHINGS, APPLIANCES, AND SIMILAR ITEMS SPECIFIED AND FURNISHED AT THE JOB SITE. INSTALLATION OF SPECIFIED ITEMS MUST BE COMPLETE IN ALL RESPECTS.

10.) "PROVIDE" MEANS TO FURNISH AND INSTALL CONSTRUCTION MATERIAL, EQUIPMENT, ETC. AS DEFINED ABOVE.

11.) THE FOLLOWING ARE DEFINITIONS OF SHOP DRAWING STAMP ACTIONS:

A.) "NO EXCEPTIONS TAKEN" MEANS THAT THE SHOP DRAWING IS CORRECT AS TO PERFORMANCE, CAPACITY, ETC. AND SUBSTANTIAL CONFORMANCE TO THE CONTRACT DRAWINGS AND SPECIFICATIONS. FABRICATION AND/OR PURCHASE MAY COMMENCE.

B.) "MAKE CORRECTIONS NOTED" MEANS THAT THE SHOP DRAWING IS CORRECT AS TO PERFORMANCE, CAPACITY, ETC. AND SUBSTANTIAL CONFORMANCE TO THE CONTRACT DRAWINGS AND/OR SPECIFICATIONS, SUBJECT TO AND IN COMPLIANCE WITH THE ANNOTATIONS AND/OR CORRECTIONS INDICATED ON THE SHOP DRAWING. FABRICATION AND/OR PURCHASE MAY COMMENCE.

C.) "AMEND AND RESUBMIT" MEANS THAT THE COMMENTS AND/OR CORRECTION ARE SO EXTENSIVE AND IMPORTANT THAT THE REVIEWER WANTS TO SEE HOW THE COMMENTS AND/OR CORRECTIONS ARE RESOLVED PRIOR TO RELEASE FOR FABRICATION AND/OR PURCHASE. FABRICATIONS AND/OR PURCHASE MAY NOT COMMENCE.

D.) "REJECTED" MEANS THAT THE SHOP DRAWING DOES NOT COMPLY OR CONFORM TO THE CONTRACT DRAWINGS AND/OR SPECIFICATIONS. FABRICATION AND/OR PURCHASE MAY NOT COMMENCE.

**DEMOLITION NOTES**

1.) ALL EQUIPMENT SHALL BE DISCONNECTED AND REMOVED BACK TO POWER SOURCE ORIGINATION UNLESS OTHERWISE NOTED (UON) EXISTING TO REMAIN (EX.).

2.) CONTRACTOR SHALL VERIFY EXTENT OF DEMOLITION WORK IN THE FIELD PRIOR TO BID AND SHALL INCLUDE ALL LABOR AND MATERIALS IN BASE BID INCLUDING ALL TEMPORARY CONNECTIONS, CONDUIT AND WIRE IN ORDER TO ACCOMMODATE CONSTRUCTION AND PROVIDE CONTINUOUS SERVICE TO DEVICES AND SYSTEMS TO REMAIN, TEMPORARY AND PERMANENTLY. WORK REQUIRING THE SHUT-DOWN OF THE BUILDING POWER SHALL BE PERFORMED DURING OVERTIME AND SHALL BE INCLUDED IN BASE BID.

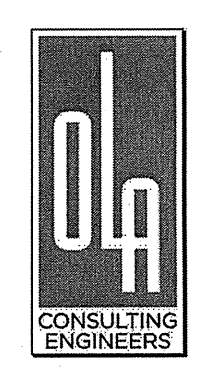
3.) CIRCUIT BREAKER, CONDUIT AND CONDUCTOR SIZES INDICATED SHALL BE FIELD VERIFIED PRIOR TO BID.

4.) ALL EXISTING ELECTRICAL EQUIPMENT NO LONGER IN USE, SUCH AS DISCONNECT SWITCHES, MOTOR CONTROLLERS, MOTOR STARTER PANELS, ETC. SHALL BE REMOVED UON.

5.) ALL DISCONNECTED & REMOVED EXISTING ELECTRICAL ITEMS THAT ARE NOT BEING REUSED SHALL BE RETURNED TO THE OWNER OR DISPOSED OF AS DIRECTED.


6.) THE CONTRACTOR SHALL INCLUDE IN THE BASE BID FOR ALL MATERIAL & LABOR REQUIRED FOR THE EXTENSIONS, REROUTING & RELOCATION OF EXISTING SYSTEM COMPONENTS, EQUIPMENT, WIRING, CONDUITS & CABLING SO AS TO MAINTAIN OPERATION OF ALL SYSTEMS THROUGHOUT THE BUILDING DURING DEMOLITION & CONSTRUCTION PHASES.

OLA P/NO.: NMEG0040



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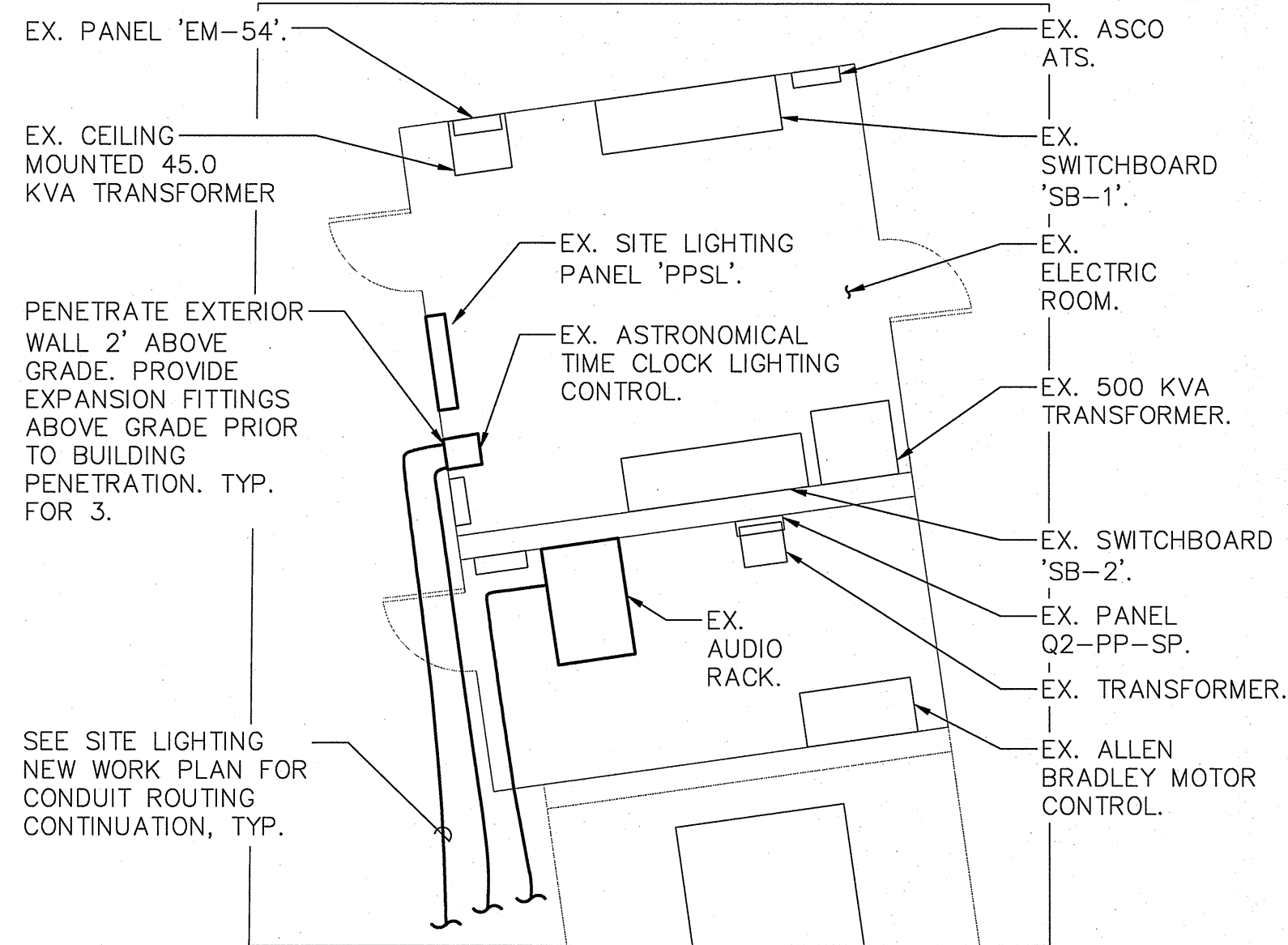
CONSULTANT INFORMATION

**McLaren**  
ENGINEERING GROUP  
applied ingenuity

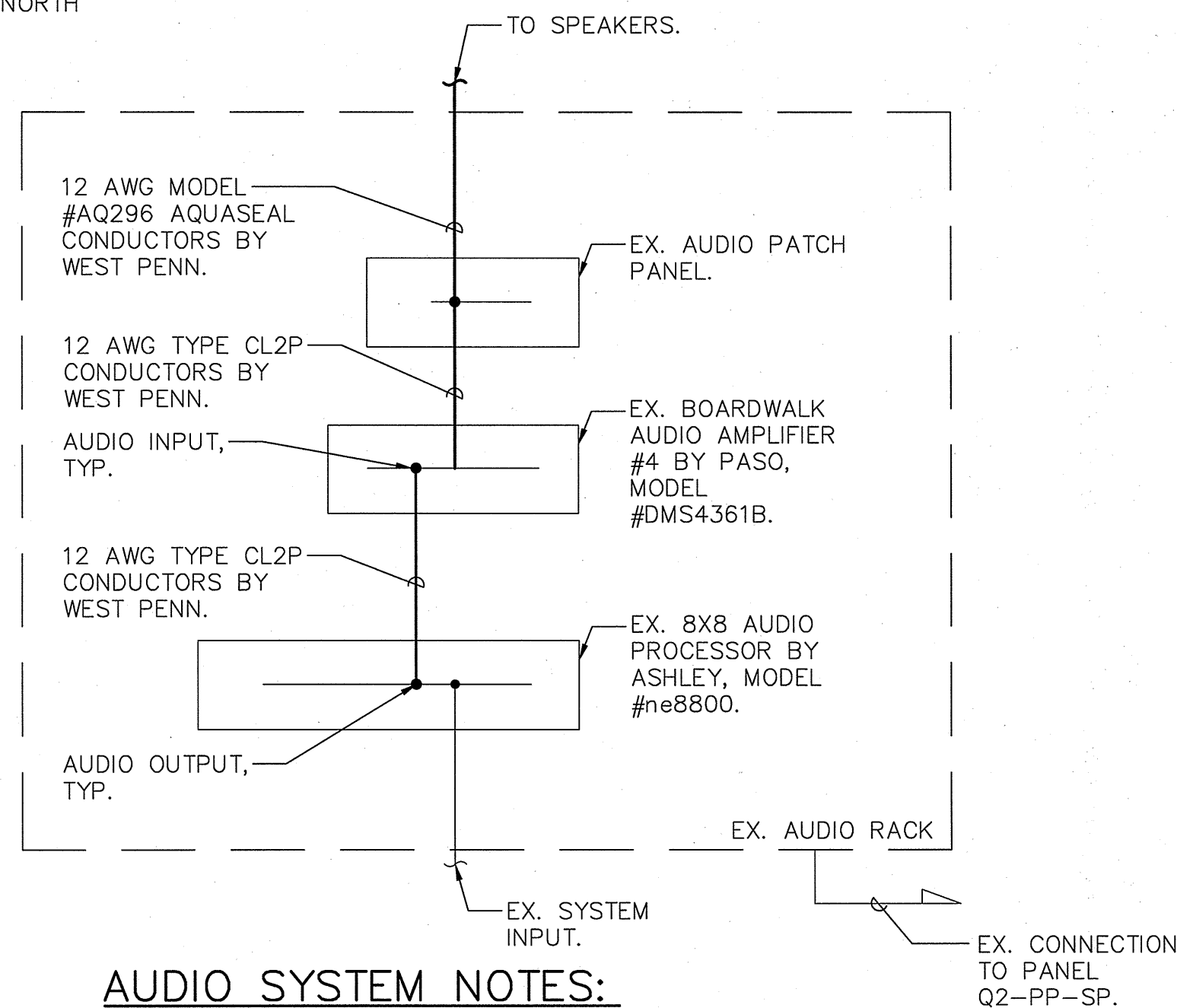
M. G. McLAREN, P.C.  
330 West 42nd Street, 14th Flr, New York NY 10036  
Tel. (212) 548-1440 Fax. (212) 548-1431 www.mgmclaren.com

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
RECORD DRAWING CERTIFICATION				
<input type="checkbox"/> AS BUILT - CHANGES AS NOTED <input type="checkbox"/> AS BUILT - NO CHANGES				
CONTRACTOR		PROJECT COORDINATOR		
NAME		NAME		
SIGNATURE		SIGNATURE		
TITLE	DATE	TITLE	DATE	
WESTCHESTER COUNTY, NEW YORK		CONTRACT NUMBER	SHEET NUMBER	
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION		15-528	E-002	
DIVISION OF ENGINEERING		SHEET NO. 20 OF 21		
SUPERSTORM SANDY REHABILITATION		SCALE: AS NOTED		
NORTH BOARDWALK RECONSTRUCTION PLAYLAND PARK		DATE: 7/26/16		
TOWN OF RYE, NEW YORK		DPW FILE NO.		
ABBREVIATIONS, NOTES AND DETAILS		REV. NO. 0		





**3 ELECTRIC ROOM NEW WORK PART PLAN**  
SCALE: 1" = 20'  
NORTH

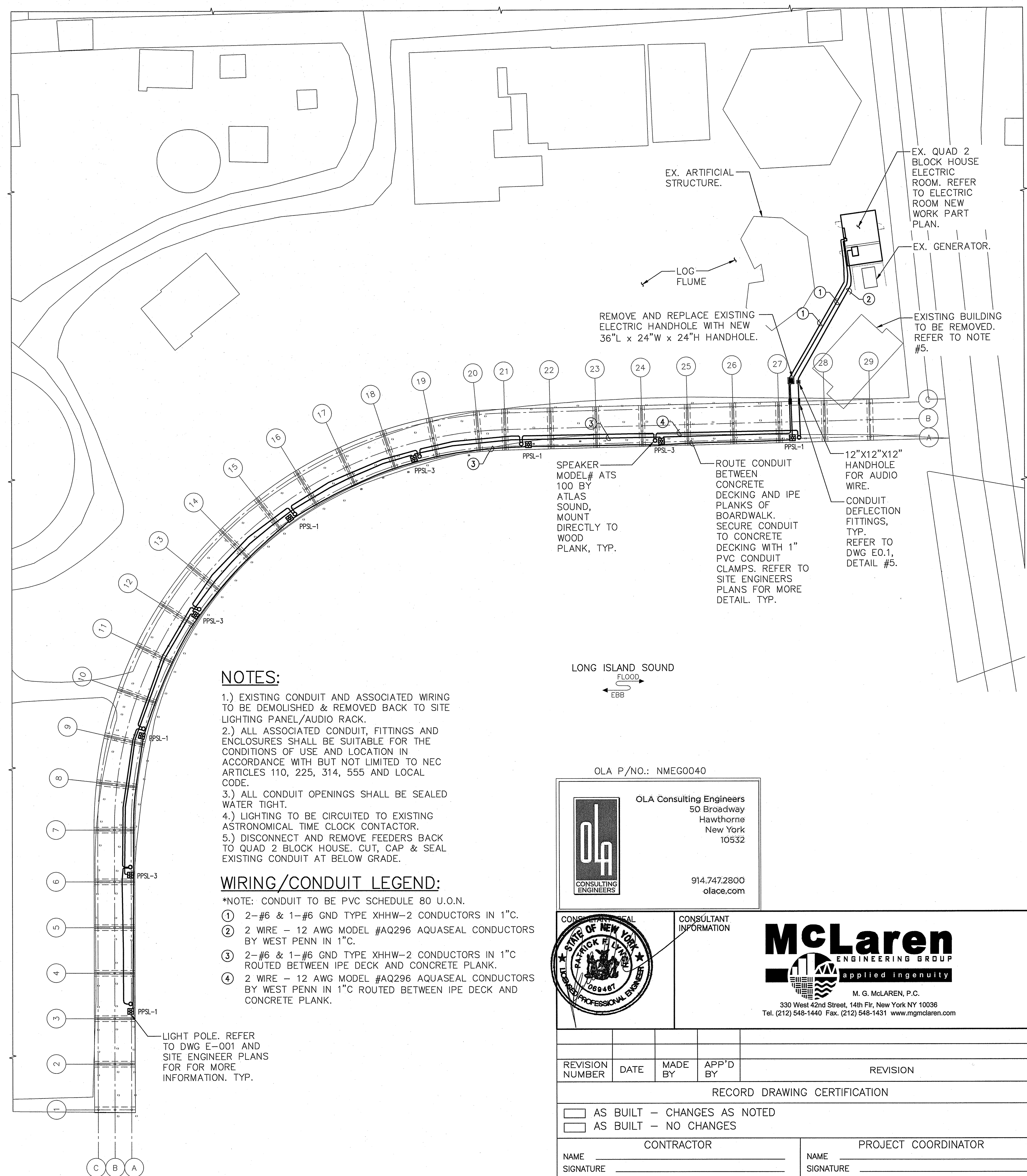


**2 AUDIO SYSTEM CONTROL WIRING DIAGRAM**  
SCALE: NONE

**EX. PPSL PANEL SCHEDULE**

MAIN RATING: <u>100A</u>			MAIN C.B.: <u>MLO</u>			KAIC RATING: <u>14KAIC</u>		
VOLTAGE: <u>480Y/277V</u>			PHASE: <u>3</u>		WIRE: <u>4</u>		MOUNTING: <u>SURFACE</u>	
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.	
1	* BOARDWALK LIGHT FIXTURES	20	1	—	—	—	2	
3	* BOARDWALK LIGHT FIXTURES	20	1	—	—	—	4	
5	—	—	—	—	—	—	6	
7	—	—	—	—	—	—	8	
9	—	—	—	—	—	—	10	
11	—	—	—	—	—	—	12	
13	—	—	—	—	—	—	14	
15	—	—	—	—	—	—	16	
17	—	—	—	1	20	EX. SITE LIGHTING	18	
19	EX. SITE LIGHTING	20	1	1	20	EX. SITE LIGHTING	20	
21	EX. SITE LIGHTING	20	1	1	20	EX. SITE LIGHTING	22	
23	EX. SITE LIGHTING	20	1	1	20	EX. SITE LIGHTING	24	
25	EX. SITE LIGHTING	20	1	1	20	EX. SITE LIGHTING	26	
27	EX. SITE LIGHTING	20	1	1	20	EX. SITE LIGHTING	28	
29	EX. SITE LIGHTING	20	1	1	20	EX. SITE LIGHTING	30	
31	EX. SITE LIGHTING	20	1	1	20	EX. SITE LIGHTING	32	

NOTES:  
1.) \* REPRESENTS A NEW CIRCUIT, PROVIDE BREAKER INDICATED.



**NOTES:**

- 1.) EXISTING CONDUIT AND ASSOCIATED WIRING TO BE DEMOLISHED & REMOVED BACK TO SITE LIGHTING PANEL/AUDIO RACK.
- 2.) ALL ASSOCIATED CONDUIT, FITTINGS AND ENCLOSURES SHALL BE SUITABLE FOR THE CONDITIONS OF USE AND LOCATION IN ACCORDANCE WITH BUT NOT LIMITED TO NEC ARTICLES 110, 225, 314, 555 AND LOCAL CODE.
- 3.) ALL CONDUIT OPENINGS SHALL BE SEALED WATER TIGHT.
- 4.) LIGHTING TO BE CIRCUITED TO EXISTING ASTRONOMICAL TIME CLOCK CONTACTOR.
- 5.) DISCONNECT AND REMOVE FEEDERS BACK TO QUAD 2 BLOCK HOUSE. CUT, CAP & SEAL EXISTING CONDUIT AT BELOW GRADE.

**WIRING/CONDUIT LEGEND:**

- \*NOTE: CONDUIT TO BE PVC SCHEDULE 80 U.O.N.
- 1) 2-#6 & 1-#6 GND TYPE XHHW-2 CONDUCTORS IN 1" C.
  - 2) 2 WIRE - 12 AWG MODEL #AQ296 AQUASEAL CONDUCTORS BY WEST PENN IN 1" C.
  - 3) 2-#6 & 1-#6 GND TYPE XHHW-2 CONDUCTORS IN 1" C ROUTED BETWEEN IPE DECK AND CONCRETE PLANK.
  - 4) 2 WIRE - 12 AWG MODEL #AQ296 AQUASEAL CONDUCTORS BY WEST PENN IN 1" C ROUTED BETWEEN IPE DECK AND CONCRETE PLANK.

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REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
RECORD DRAWING CERTIFICATION				
<input type="checkbox"/> AS BUILT - CHANGES AS NOTED <input type="checkbox"/> AS BUILT - NO CHANGES			CONTRACTOR NAME _____ SIGNATURE _____ DATE _____	
PROJECT COORDINATOR NAME _____ SIGNATURE _____ DATE _____			CONTRACT NUMBER <b>15-528</b>	
SHEET NUMBER <b>E-003</b>			SHEET NO. 21 OF 21	
SCALE: <b>AS NOTED</b> DATE: <b>7/26/16</b> DPW FILE NO. <b>1-08-E-162</b>				
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING SUPERSTORM SANDY REHABILITATION NORTH BOARDWALK RECONSTRUCTION PLAYLAND PARK TOWN OF RYE, NEW YORK ELECTRICAL SITE LIGHTING NEW WORK PLAN				

**1 ELECTRICAL SITE LIGHTING NEW WORK PLAN**  
SCALE: 1" = 20'  
NORTH