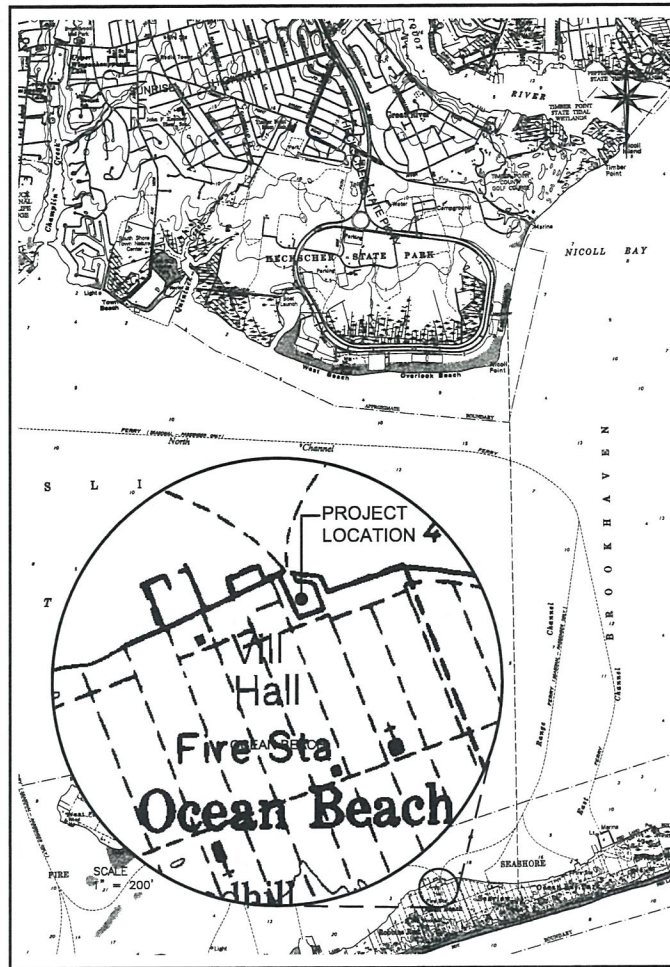


INDEX

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LOCATION MAP
SCALE 1" = 1000'



INCORPORATED VILLAGE OF OCEAN BEACH

VILLAGE OF OCEAN BEACH FERRY TERMINAL IMPROVEMENTS - PHASE II

PROJECT NO. 19018.000

PIN 076180

SEPTEMBER, 2019

DESCRIPTION	LEGEND	
	EXISTING	PROPOSED
CONCRETE PAVEMENT		
ASPHALT PAVEMENT		
CHAIN LINK FENCE		
GUIDE RAIL		
ELEVATION IN PLAN		
PROPERTY LINE		
CONTOUR LINES		
DECK		
EDGE OF PAVEMENT		
CURB		
BULKHEAD		
BUILDING FOUNDATION		
SIGN, TRAFFIC, RR, ETC.		
UTILITY POLE/GUY WIRE		
TREE		
EDGE OF WOODS		

GENERAL NOTES

- ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE IN CONFORMITY WITH THE LATEST NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYS DOT) STANDARD SPECIFICATIONS AND STANDARD SHEETS OR AS OTHERWISE SHOWN ON THE PLANS. NYS DOT STANDARD SPECIFICATIONS AND STANDARD SHEETS CAN BE OBTAINED AT (<https://www.dot.ny.gov/publications>).
- ALL WORK SHALL BE IN ACCORDANCE WITH THE NYSDEC & USACOE SPECIAL PERMIT CONDITIONS.
- ANY DEBRIS OR EXCESS MATERIAL FROM CONSTRUCTION OF THIS PROJECT SHALL BE COMPLETELY REMOVED FROM THE ADJACENT AREA (UPLAND) AND REMOVED TO AN APPROVED UPLAND AREA FOR DISPOSAL. NO DEBRIS IS PERMITTED IN TIDAL WETLANDS AND OR PROTECTED BUFFER AREAS.
- THERE SHALL BE NO DISTURBANCE TO VEGETATED TIDAL WETLANDS OR PROTECTED BUFFER AREAS AS A RESULT OF THE PERMITTED ACTIVITY.
- ALL AREAS OF SOIL DISTURBANCE RESULTING FROM THIS PROJECT SHALL BE STABILIZED IMMEDIATELY FOLLOWING NECESSARY EARTHWORK & GRADING OPERATIONS.
- ALL DISTURBED AREAS WHERE SOIL WILL BE TEMPORARILY EXPOSED OR STOCKPILED FOR LONGER THAN 48 HOURS SHALL BE CONTAINED IN A CONTINUOUS LINE OF REINFORCED SILT FENCE/STRAW BALE DIKE (OR OTHER NYSDEC APPROVED DEVICES) PLACED ON THE SEAWARD SIDE BETWEEN THE FILL AND THE WETLAND OR PROTECTED BUFFER AREA. TARPS ARE AUTHORIZED TO SUPPLEMENT THESE APPROVED METHODS.
- ALL FILL SHALL CONSIST OF "CLEAN" SAND, GRAVEL, OR SOIL (NOT ASPHALT, FLYASH, BROKEN CONCRETE OR DEMOLITION DEBRIS).
- NO EXCAVATION OF THE WATERWAY IS AUTHORIZED FOR THE PURPOSE OF OBTAINING FILL OR STONE MATERIAL.
- THE PROPOSED BULKHEAD SHALL BE COMPLETED PRIOR TO PLACEMENT OF ANY FILL MATERIAL BEHIND THE STRUCTURE.
- PRIOR TO ANY CONSTRUCTION OR REMOVAL OF BULKHEADS ALL BACKFILL SHALL BE EXCAVATED LANDWARD OF THE BULKHEAD AND RETAINED SO AS NOT TO ENTER THE WATERWAY, TIDAL WETLAND OR PROTECTED BUFFER AREA.
- THIS IS A FEDERALLY FUNDED PROJECT AND SECTION 106-11 "BUY AMERICA" OF THE NYS DOT STANDARD SPECIFICATIONS APPLIES.

MAYOR
JAMES S. MALLOTT

TRUSTEES
MATTHEW M. BLAKE
DAWN L. HARGRAVES
CHRISTOPHER F. NORRIS
BRIAN C. POWER

THE EDUCATION LAW OF THE STATE OF NEW YORK PROHIBITS ANY PERSON FROM ALTERING ANYTHING ON THE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATIONS, UNLESS ITS UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, WHERE SUCH ALTERATIONS ARE MADE, THE PROFESSIONAL ENGINEER MUST SIGN, SEAL, DATE AND DESCRIBE THE FULL EXTENT OF THE ALTERATION ON THE DRAWING AND/OR IN THE SPECIFICATION (NYS ED. LAW SECTION 7209-2).



ABBREVIATIONS

#	POUNDS	GAL.	GALVANIZED
Ø	DIAMETER	IN.	INCHES
A.O.B.E.	AS ORDERED BY ENGINEER	M.H.W.	MEAN HIGH WATER
ACQ	ALKALINE COPPER QUARTERNARY	M.L.W.	MEAN LOW WATER
ASPH.	ASPHALT	MAX.	MAXIMUM
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	MIN.	MINIMUM
BC	BOTTOM OF CURB	N.I.C.	NOT IN CONTRACT
BW	BOTTOM OF WALL	N.G.V.D.	NATIONAL GEODETIC VERTICAL DATUM
C.L.F.	CHAIN LINK FENCE	N.T.S.	NOT TO SCALE
CCA	CHROMATED COPPER ARSENATE	O.C.	ON CENTER
CF	CUBIC FOOT	O.H.	OVERHEAD
CONIFER.	CONIFEROUS	PROP.	PROPOSED
DIAM./DIA.	DIAMETER	PVC	POLYVINYL CHLORIDE
EA	EACH	SQ	SQUARE
EL.	ELEVATION	TC	TOP OF CURB
EXIST.	EXISTING	TYP.	TYPICAL
FT.	FEET	W/	WITH
		W/ OUT	WITHOUT

PREPARED AND RECOMMENDED BY: **LKMA** L. K. McLEAN ASSOCIATES, P.C.
437 SOUTH COUNTRY RD. BROOKHAVEN, NY 11719

PREPARED BY: DATE: 9/16/19
PRINCIPAL
ROBERT A. STEELE, PE NYSPE Lic. No. 077397

RECOMMENDED BY: DATE: 9/16/19
VILLAGE OF OCEAN BEACH
JAMES S. MALLOTT, MAYOR

Sep 16, 2019 - 01:35pm
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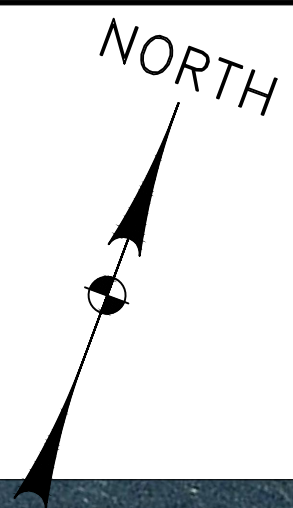
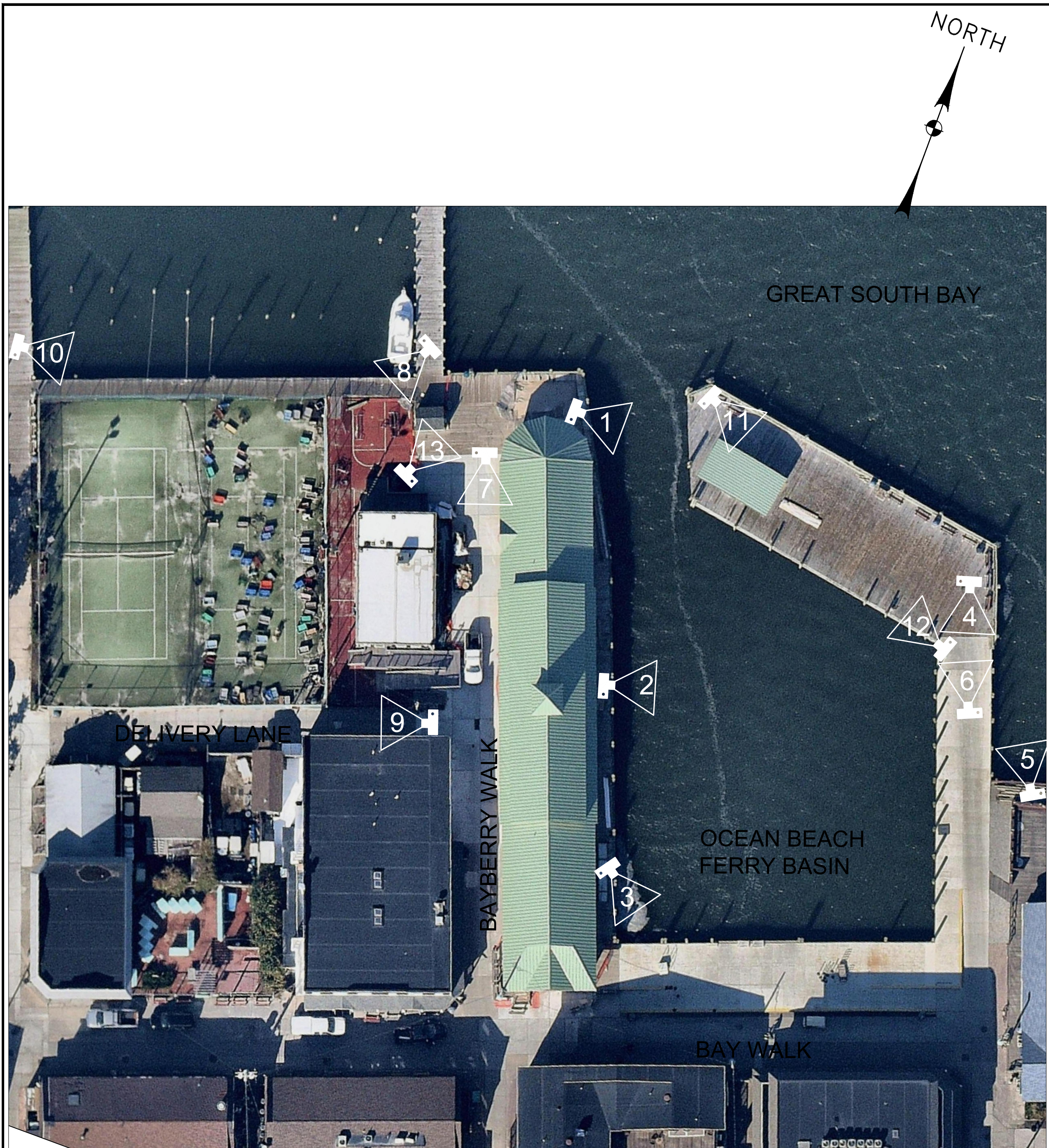


PHOTO NO. 1



PHOTO NO. 2



PHOTO NO. 3



PHOTO NO. 4



PHOTO NO. 5



PHOTO NO. 6



PHOTO NO. 7

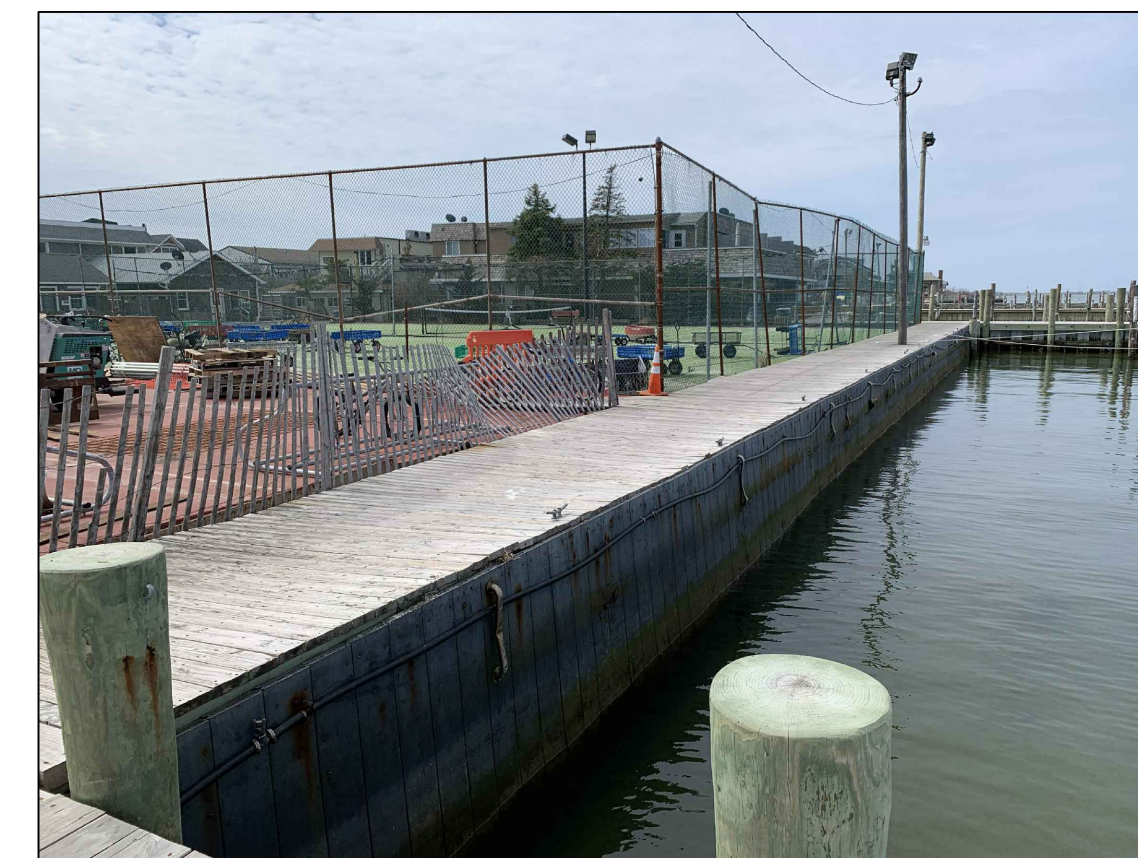


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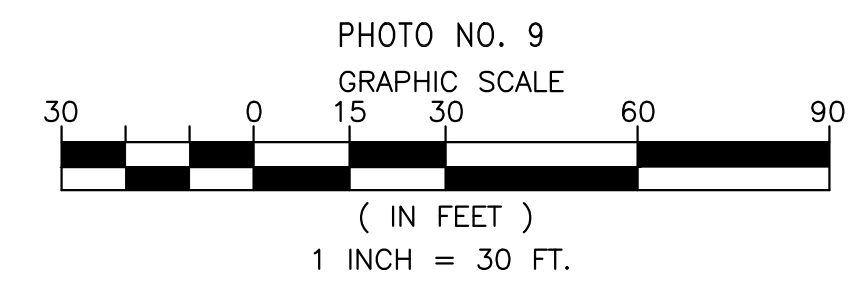


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PHOTO NO. 11

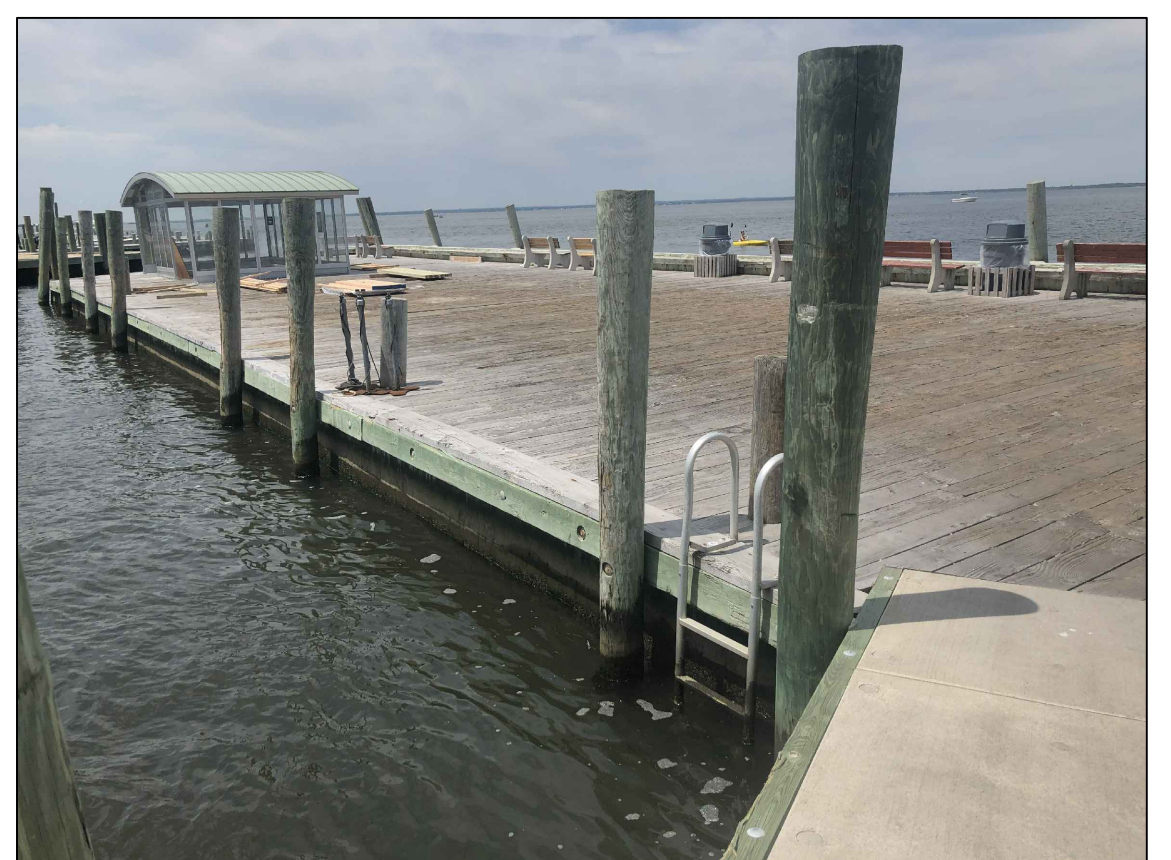


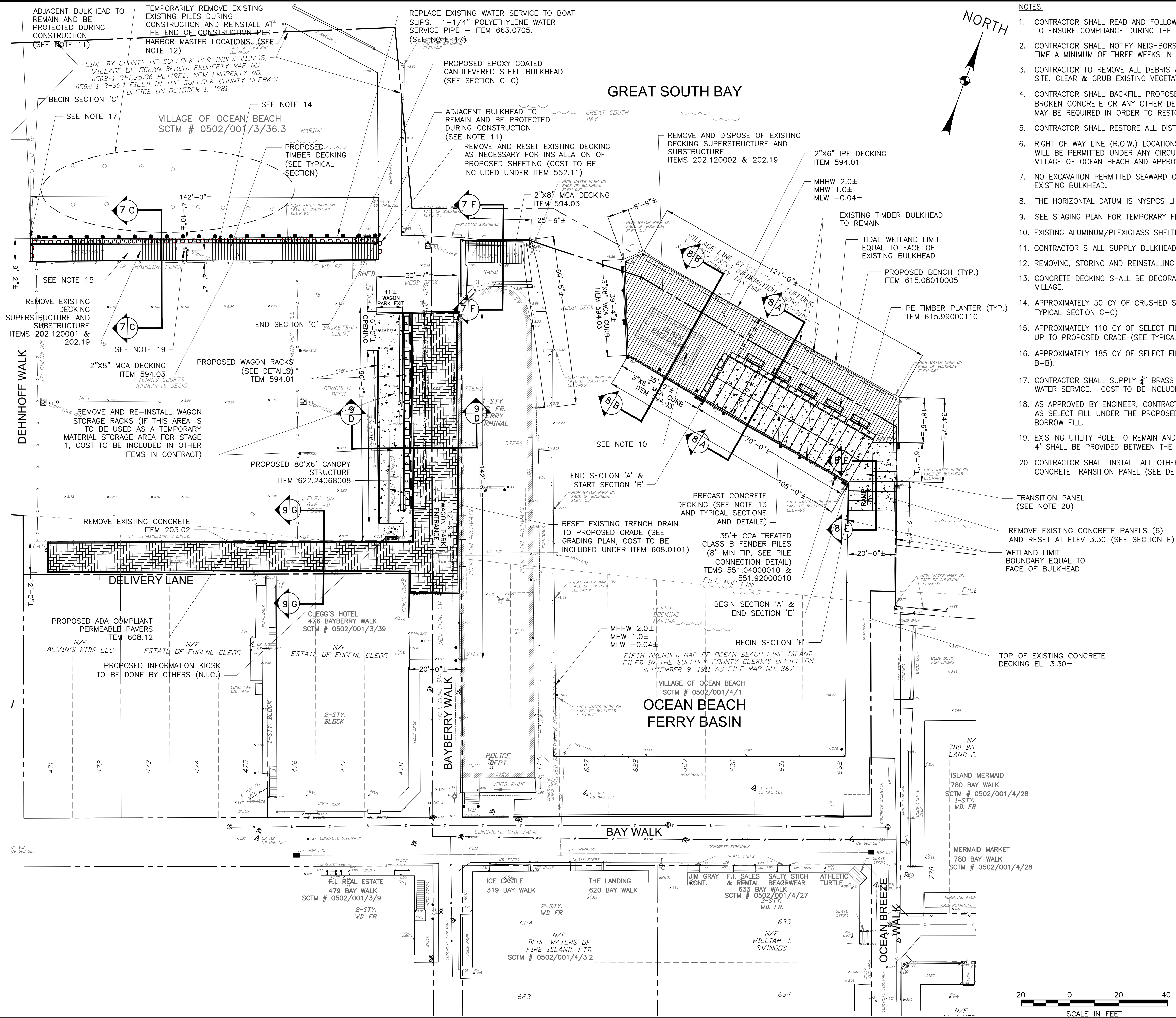
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PHOTO NO. 13

DATE	BY	DESCRIPTION	APPROV. BY
REVISIONS			
INCORPORATED VILLAGE OF OCEAN BEACH OCEAN BEACH, NEW YORK VILLAGE OF OCEAN BEACH FERRY TERMINAL IMPROVEMENTS- PHASE II EXISTING CONDITIONS			
L. K. McLEAN ASSOCIATES, P.C. <small>CONSULTING ENGINEERS 437 SOUTH COUNTRY RD., BROOKHAVEN, NEW YORK 11719</small>			
Designed By:	KJM	Scale: AS NOTED	Sheet No.
Drawn By:	RAC	Date: SEP 2019	2 OF 14
Approved By:	RAS	File No. 19018.000	

Sep 16, 2019 - 01:36pm
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- NOTES:**
- CONTRACTOR SHALL READ AND FOLLOW ALL NYSDEC PERMIT CONDITIONS AND SPECIAL CONDITIONS CONTAINED IN THE PERMIT TO ENSURE COMPLIANCE DURING THE TERM OF THE PERMIT. THE PERMIT IS ATTACHED TO THE SPECIFICATIONS BOOK.
 - CONTRACTOR SHALL NOTIFY NEIGHBORS TO THE EAST AND WEST SIDE OF R.O.W. OF THE PROPOSED CONSTRUCTION START TIME A MINIMUM OF THREE WEEKS IN ADVANCE.
 - CONTRACTOR TO REMOVE ALL DEBRIS & UNSUITABLE FILL MATERIALS BEHIND BULKHEAD, DEBRIS IN WATER & DISPOSE OFF SITE. CLEAR & GRUB EXISTING VEGETATION.
 - CONTRACTOR SHALL BACKFILL PROPOSED BULKHEAD WITH CLEAN FILL ONLY (CLEAN SAND, GRAVEL OR SOIL, NO ASPHALT, BROKEN CONCRETE OR ANY OTHER DEBRIS) AND SHALL BE COMPACTED TO SUPPORT VEGETATIVE GROWTH OR PAVEMENT AS MAY BE REQUIRED IN ORDER TO RESTORE THE ENTIRE DISTURBED AREA AFTER THE CONSTRUCTION PROCESS.
 - CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS IN KIND UNLESS OTHERWISE NOTED ON THE PLANS.
 - RIGHT OF WAY LINE (R.O.W.) LOCATIONS SHOWN ON PLAN ARE ACCURATE. NO WORK OUTSIDE VILLAGE PROPERTY BOUNDARIES WILL BE PERMITTED UNDER ANY CIRCUMSTANCES UNLESS PROPERTY AND/OR EASEMENT RIGHTS ARE OBTAINED BY THE VILLAGE OF OCEAN BEACH AND APPROVED BY NYSOT.
 - NO EXCAVATION PERMITTED SEAWARD OF PROPOSED BULKHEAD EXCEPT TO RECOVER MATERIAL ORIGINATING FROM BEHIND THE EXISTING BULKHEAD.
 - THE HORIZONTAL DATUM IS NYSPCS LI ZONE, NAD83 (2011) AND THE VERTICAL DATUM IS NAVD88 (GEOID12A) - RTK GPS.
 - SEE STAGING PLAN FOR TEMPORARY FENCE LOCATIONS.
 - EXISTING ALUMINUM/PLEXIGLASS SHELTER STRUCTURE TO BE REMOVED BY OTHERS PRIOR TO THE START OF CONSTRUCTION.
 - CONTRACTOR SHALL SUPPLY BULKHEAD TERMINATION DETAIL TO ENGINEER FOR APPROVAL.
 - REMOVING, STORING AND REINSTALLING EXISTING TIMBER PILES TO BE INCLUDED UNDER ITEM 699.040001.
 - CONCRETE DECKING SHALL BE DECORATIVE TIMBER FORM FINISHED AND ADA COMPLIANT. COLOR SHALL BE SELECTED BY THE VILLAGE.
 - APPROXIMATELY 50 CY OF CRUSHED SIZE #1 STONE WILL BE PLACED BETWEEN THE EXISTING AND PROPOSED SHEETING (SEE TYPICAL SECTION C-C)
 - APPROXIMATELY 110 CY OF SELECT FILL WILL BE PLACED BENEATH THE PROPOSED DECKING TO BRING THE EXISTING GROUND UP TO PROPOSED GRADE (SEE TYPICAL SECTION C-C).
 - APPROXIMATELY 185 CY OF SELECT FILL WILL BE PLACED BELOW THE PROPOSED DECKING (SEE TYPICAL SECTIONS A-A AND B-B).
 - CONTRACTOR SHALL SUPPLY 3/4" BRASS HOSE BIBS WITH 1/2" TURN BALL VALVE AT THE EAST AND WEST ENDS OF THE NEW WATER SERVICE. COST TO BE INCLUDED UNDER ITEM 663.0705.
 - AS APPROVED BY ENGINEER, CONTRACTOR MAY BE ALLOWED TO USE SUITABLE EXCAVATED MATERIAL FROM PAVER EXCAVATION AS SELECT FILL UNDER THE PROPOSED BOARDWALK/DOCK AREAS. PAYMENT TO BE MADE UNDER ITEM 203.05-SELECT BORROW FILL.
 - EXISTING UTILITY POLE TO REMAIN AND BE PROTECTED DURING CONSTRUCTION OF PROPOSED BULKHEAD. A MINIMUM GAP OF 4' SHALL BE PROVIDED BETWEEN THE FACE OF EXISTING UTILITY POLE AND THE PROPOSED EDGE OF DECKING.
 - CONTRACTOR SHALL INSTALL ALL OTHER CONCRETE PANELS AND TAKE FINAL MEASUREMENT PRIOR TO ORDERING PRECAST CONCRETE TRANSITION PANEL (SEE DETAIL).

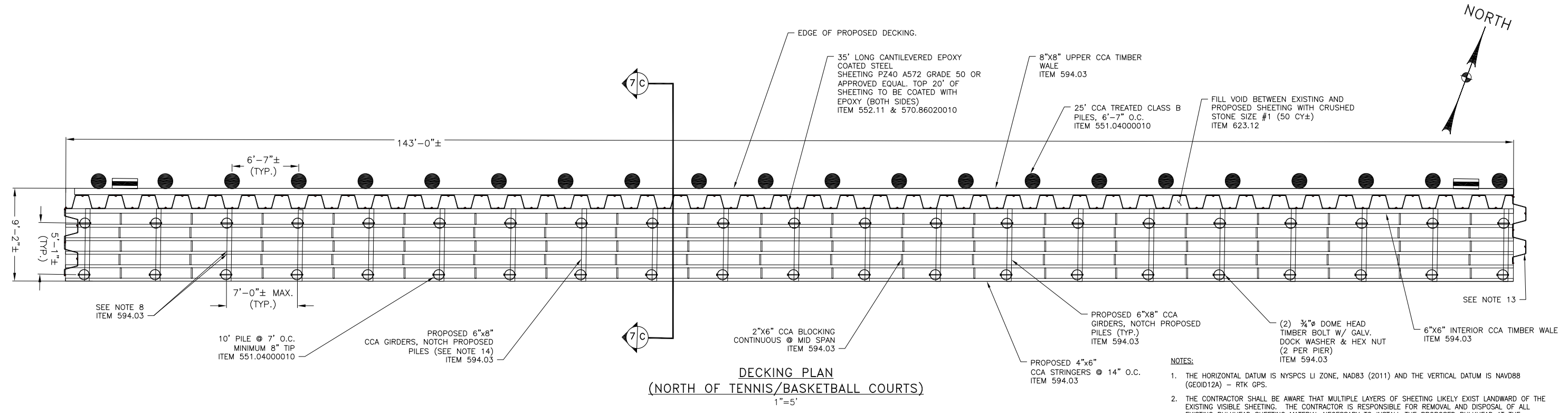
LEGEND

SYMBOL	DESCRIPTION
[Hatched pattern]	PROPOSED TIMBER DECKING (SEE DETAILS)
[Grid pattern]	PROPOSED CONCRETE DECKING (SEE DETAILS) - ITEM 555.0105
[Wavy line]	PROPOSED STEEL BULKHEAD (SEE TYPICAL SECTIONS)
[Dashed line]	PROPOSED SAWCUT ITEM 520.05000010
[Solid line]	DOCK LADDER (COST TO BE INCLUDED UNDER OTHER ITEMS IN CONTRACT, TOTAL 6EA.)
[Dotted line]	SCTM# 0502/001/4/28 SUFFOLK COUNTY TAX MAP # DISTRICT/SECTION/BLOCK/LOT
[Thin solid line]	PROPERTY LINES
[Cross-hatch pattern]	PROPOSED POROUS PAVERS ITEM 608.12
[Dashed rectangle]	PROPOSED CANOPY STRUCTURE ITEM 622.24068008
[Dotted rectangle]	PROPOSED CONCRETE SIDEWALK ITEM 608.0101
[Solid rectangle]	PROPOSED FLUSH CONCRETE CURB ITEM 609.04000010
[Hatched rectangle]	PROPOSED IPE BENCH ITEM 615.08010005
[Hatched rectangle]	PROPOSED IPE PLANTER ITEM 615.99000110

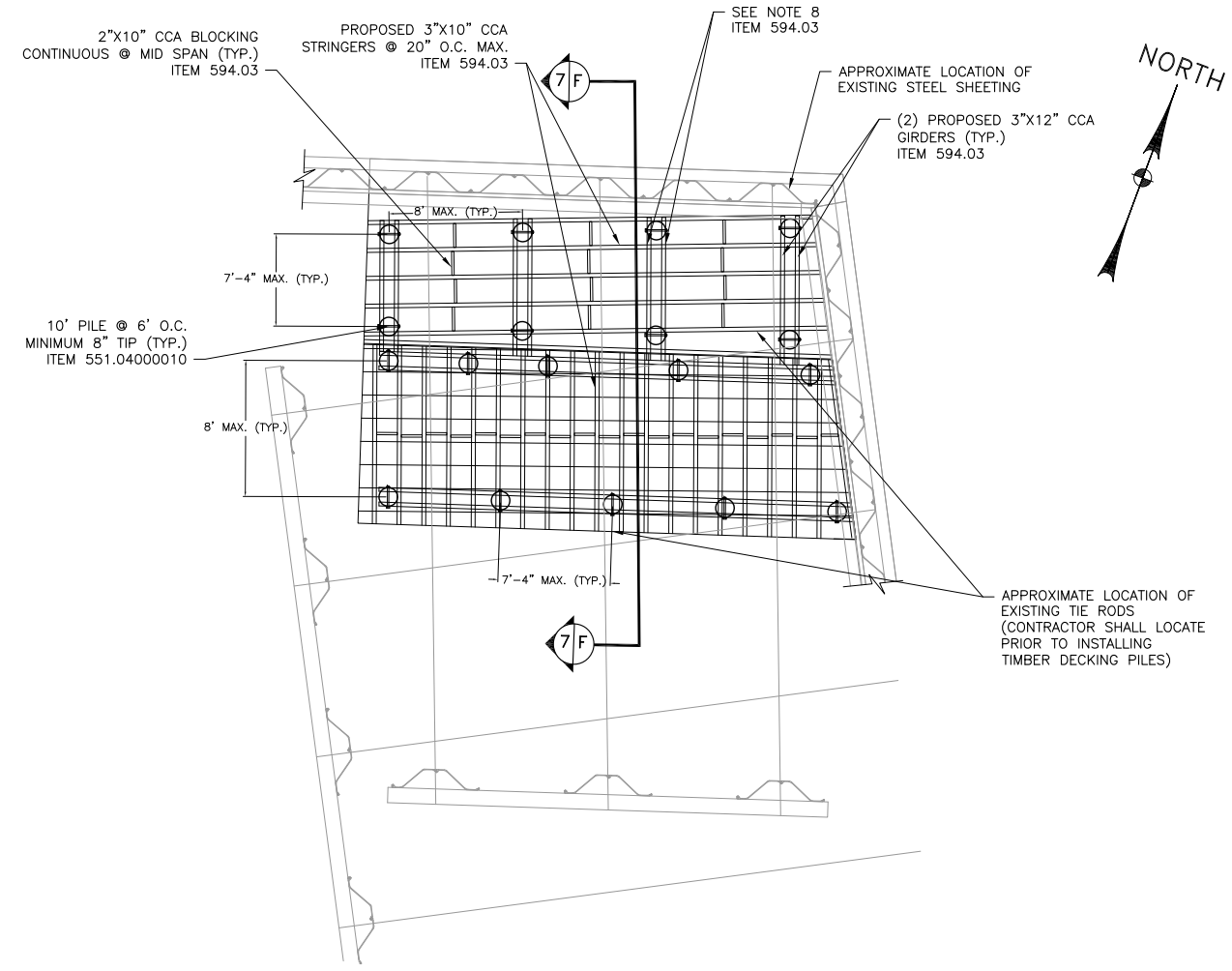
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VILLAGE OF OCEAN BEACH FERRY TERMINAL IMPROVEMENTS- PHASE II			
GENERAL PLAN			
L. K. McLEAN ASSOCIATES, P.C. CONSULTING ENGINEERS 437 SOUTH COUNTRY RD., BROOKHAVEN, NEW YORK 11719			
Designed By:	KJM	Scale: AS NOTED	Sheet No.
Drawn By:	RAC	Date: SEP 2019	3 OF 14
Approved By:	RAS	File No. 19018.000	



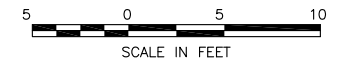
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DECKING PLAN
 (NORTH OF TENNIS/BASKETBALL COURTS)
 1"=5'



DECKING PLAN
 (NORTH OF FERRY TERMINAL BUILDING)
 1"=5'



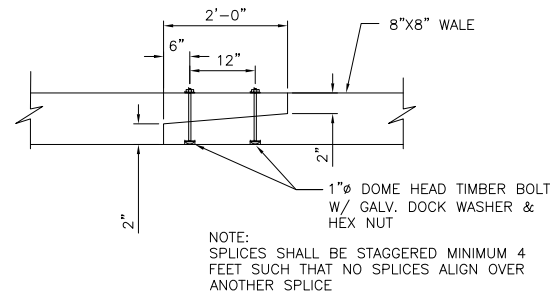
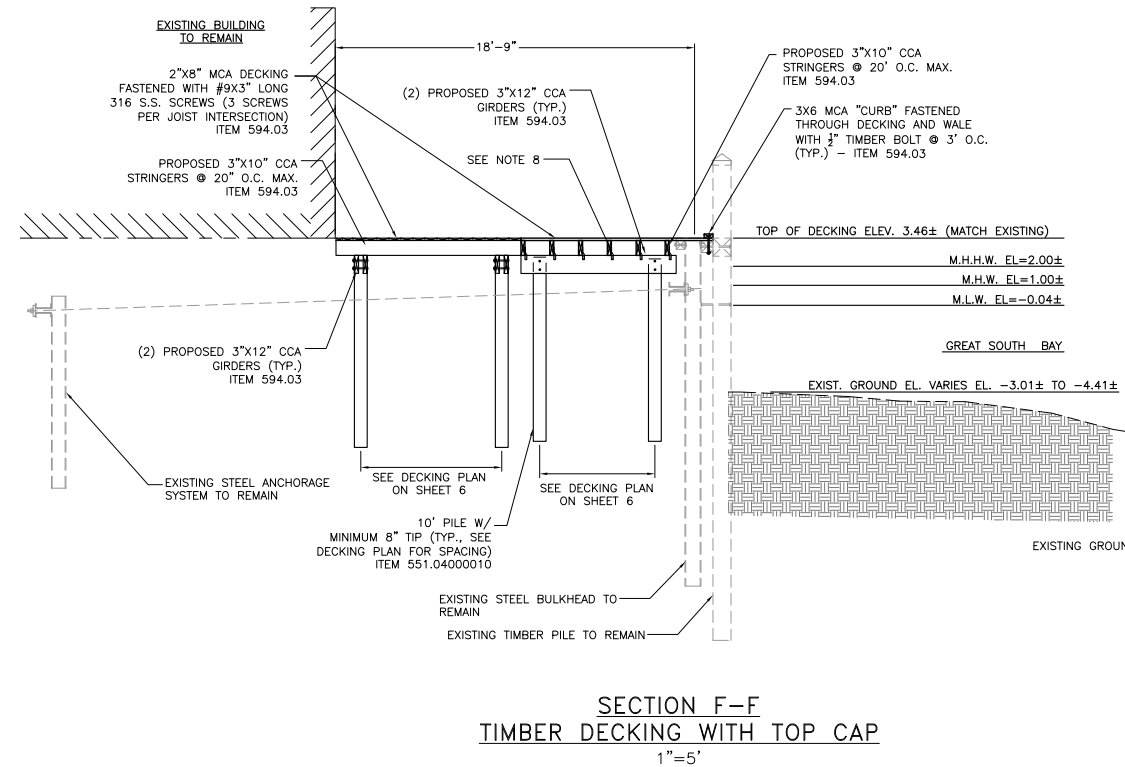
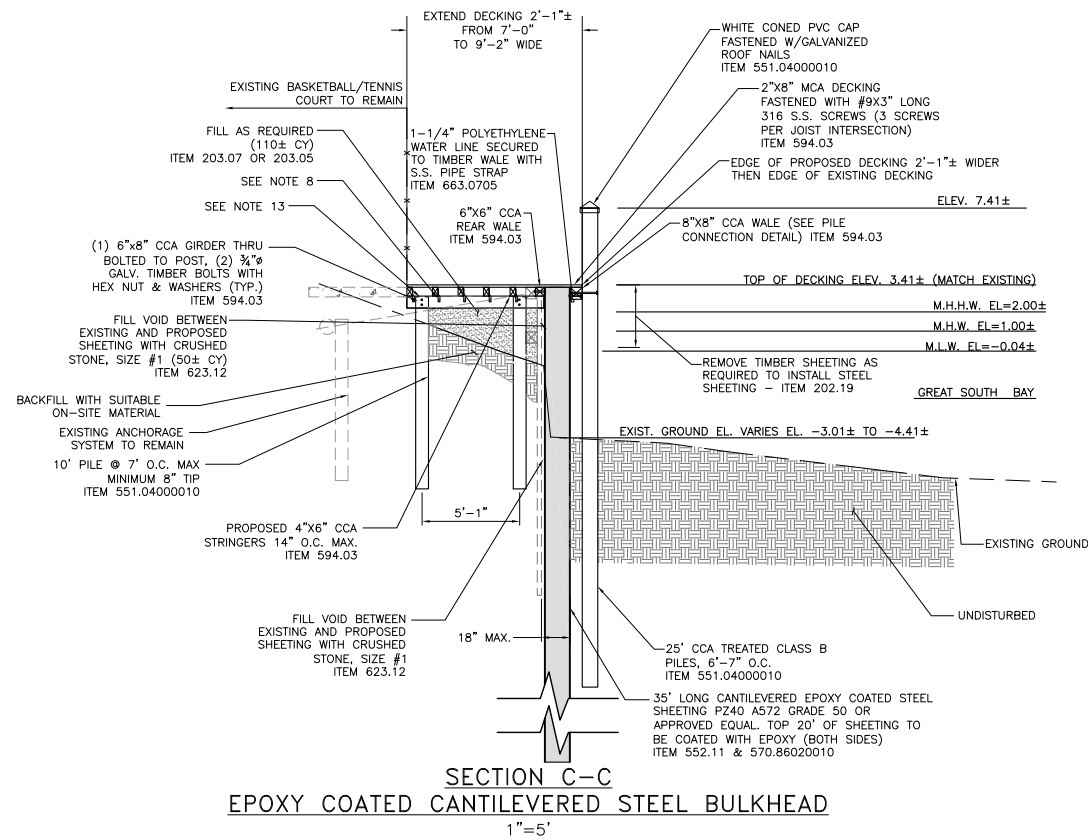
LEGEND

SYMBOL	DESCRIPTION
	PROPOSED CONCRETE DECKING (SEE DETAILS)
	PROPOSED DOCK LADDER (COST TO BE INCLUDED UNDER OTHER ITEMS IN CONTRACT)
	PROPOSED TIMBER DECKING PILE ITEM 551.04000010
	PROPOSED TIMBER MOORING/FENDER PILE ITEM 551.04000010

NOTES:

1. THE HORIZONTAL DATUM IS NYSPCS LI ZONE, NAD83 (2011) AND THE VERTICAL DATUM IS NAVD88 (GEOID12A) - RTK GPS.
2. THE CONTRACTOR SHALL BE AWARE THAT MULTIPLE LAYERS OF SHEETING LIKELY EXIST LANDWARD OF THE EXISTING VISIBLE SHEETING. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL EXISTING BULKHEAD SHEETING MATERIAL NECESSARY TO INSTALL THE PROPOSED BULKHEAD AT THE LOCATION SHOWN ON THE CONTRACT PLANS AND DETAILS. THE COST OF REMOVAL AND DISPOSAL OF THE ADDITIONAL ROWS OF SHEETING BEHIND THE EXISTING SEAWARD BULKHEAD SHALL BE PAID FOR UNDER ITEM 202.19.
3. ALL PROPOSED SHEETING SHALL BE INSTALLED TO SPECIFIED LENGTH UNLESS OTHERWISE APPROVED BY THE ENGINEER.
4. PRIOR TO REMOVAL OF EXISTING BULKHEAD(S), SOIL LANDWARD OF BULKHEAD SHALL BE EXCAVATED AND RETAINED SO AS NOT TO ENTER THE WATERWAY.
5. EXISTING DEPTH OF WATER ADJACENT TO BULKHEAD TO BE MAINTAINED.
6. REMOVAL OF EXISTING DECKING AND SUBSTRUCTURE TO BE PAID FOR AS FOLLOWS:
 - ITEM 202.120001 - WEST BOARDWALK SUPERSTRUCTURE (DECKING, STRINGERS & GIRDERS)
 - ITEM 202.120002 - NORTH FREIGHT DOCK SUPERSTRUCTURE (DECKING, STRINGERS & GIRDERS)
 - ITEM 202.19 - REMOVAL OF SUBSTRUCTURES (PILE FOUNDATIONS FOR DECKING)
7. ALL MARINE LUMBER (OTHER THAN DECKING) SHALL BE TREATED WITH CHROMATED COPPER ARSENATE TO A RETENTION OF NO LESS THAN 2.5 LB PER CUBIC FEET AS SPECIFIED BY THE CURRENT AMERICAN WOOD PRESERVERS ASSOCIATION STANDARD C18 FOR "STANDARD OF PRESSURE TREATED PILES AND TIMBERS IN MARINE CONSTRUCTION. TIMBER DECKING BOARDS SHALL BE TREATED WITH MICRONIZED COPPER AZOLE (MCA) WITH A RETENTION OF 0.06 POUNDS PER CUBIC FOOT.
8. HURRICANE TIES AND THEIR FASTENERS SHALL BE 316L STAINLESS STEEL AND PROVIDE A MINIMUM ALLOWABLE UPLIFT OF 780 LBS PER EACH. THEY SHALL BE INSTALLED AT EVERY STRINGER TO GIRDER INTERSECTION.
9. STEEL SHEETING INSTALLATION TOLERANCES:
 - VARIATION FROM PLAN LOCATION: CENTER OF SHEET ELEVATION SHALL BE NOT MORE THAN 3 INCHES FROM ITS DESIGNED POSITION.
 - VARIATION FROM VERTICAL: SHEET SHALL NOT BE MORE THAN 2 DEGREES FROM THE INDICATED VERTICAL OR INDICATED BATTER.
 - VARIATION FROM CUTOFF ELEVATION: TOP OF SHEETING SHALL BE NOT MORE THAN 2 INCHES FROM ITS DESIGNED CUTOFF ELEVATION.
10. CONTRACTOR SHALL PROTECT EXISTING FEATURES (INCLUDING BUT NOT LIMITED TO FENCES, RETAINING WALLS, SIDEWALK, ETC.) LANDWARD OF THE BULKHEAD. IF EXISTING FEATURES ARE DISTURBED OR DAMAGED DURING CONSTRUCTION THE CONTRACTOR SHALL REPAIR OR REPLACE A.O.B.E. WITH NO ADDITIONAL COST TO OWNER.
11. STEEL SHEETING SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS:
 - SECTION MODULUS = 60.7 IN³/FT
 - WEB THICKNESS = 0.50"
 - SECTION HEIGHT = 16.1"
12. ALL TREATED LUMBER FOR STRINGERS, GIRDERS, AND WALES SHALL BE GRADE DF NO. 1 OR BETTER. ALL OTHER TIMBERS SHALL BE DF NO. 2 OR BETTER.
13. CONTRACTOR SHALL REMOVE AND RESET EXISTING DECKING AS NECESSARY FOR INSTALLATION OF PROPOSED SHEETING (COST TO BE INCLUDED UNDER ITEM 552.11)
14. NOTCHES SHALL NOT EXCEED 50% OF THE CROSS SECTION OF THE POST OR PILE.

DATE	BY	DESCRIPTION	APPROV. BY
REVISIONS			
INCORPORATED VILLAGE OF OCEAN BEACH OCEAN BEACH, NEW YORK VILLAGE OF OCEAN BEACH FERRY TERMINAL IMPROVEMENTS- PHASE II DECKING PLAN - 2			
L. K. McLEAN ASSOCIATES, P.C. <small>CONSULTING ENGINEERS 437 SOUTH COUNTRY RD., BROOKHAVEN, NEW YORK 11719</small>			
Designed By:	KJM	Scale:	AS NOTED
Drawn By:	RAC	Date:	SEP 2019
Approved By:	RAS	File No.:	19018.000
			Sheet No. 6 OF 14

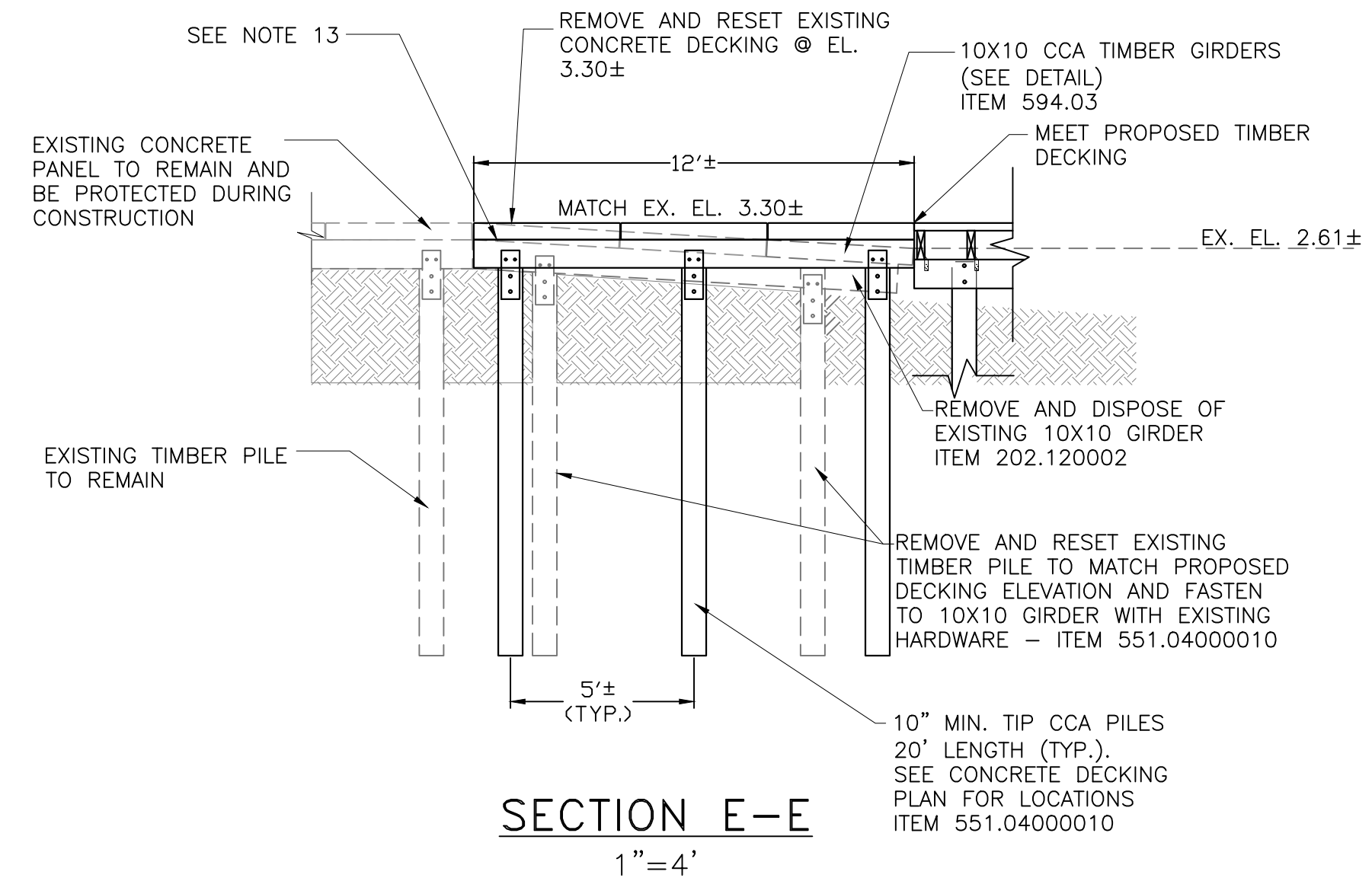
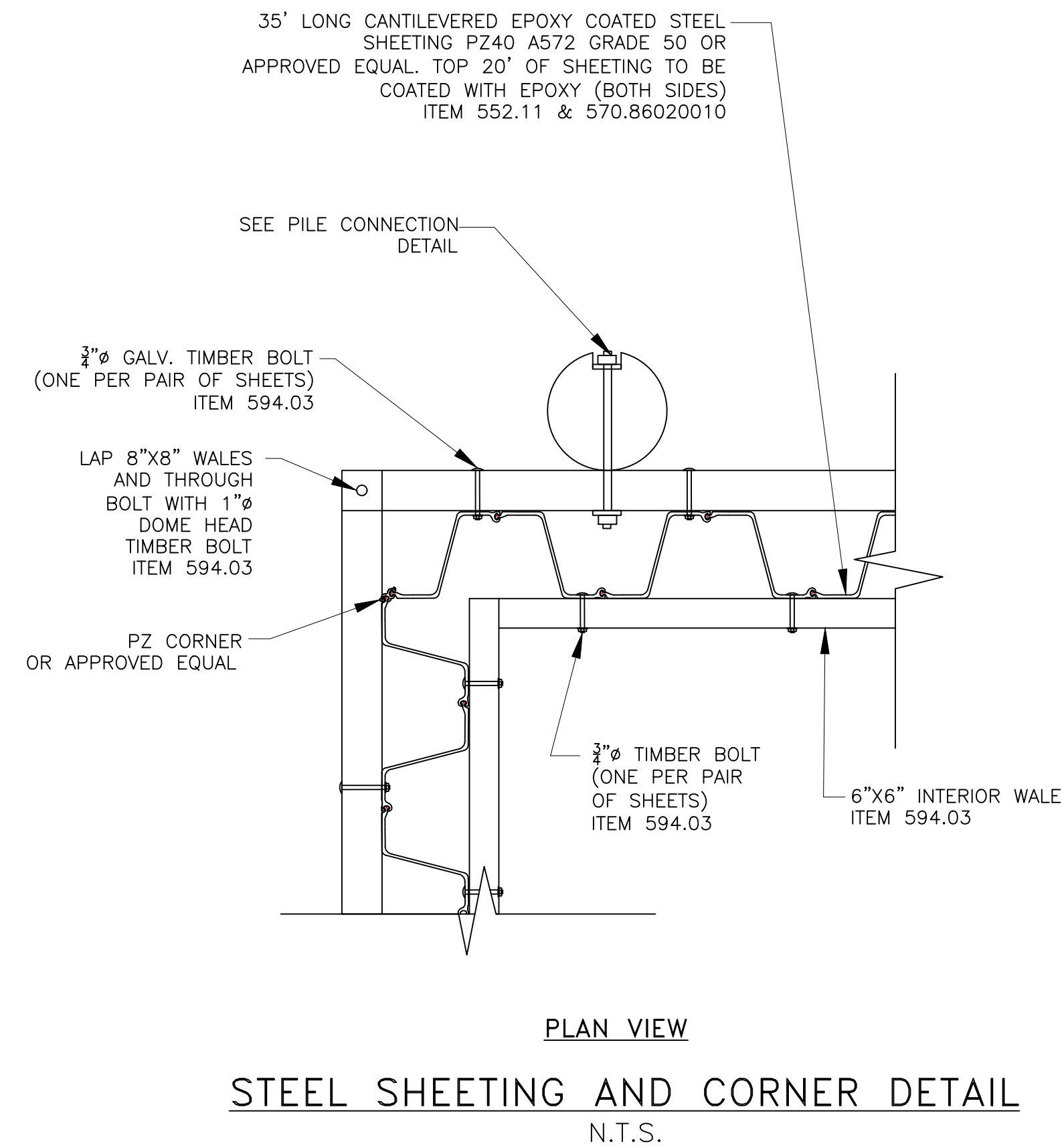
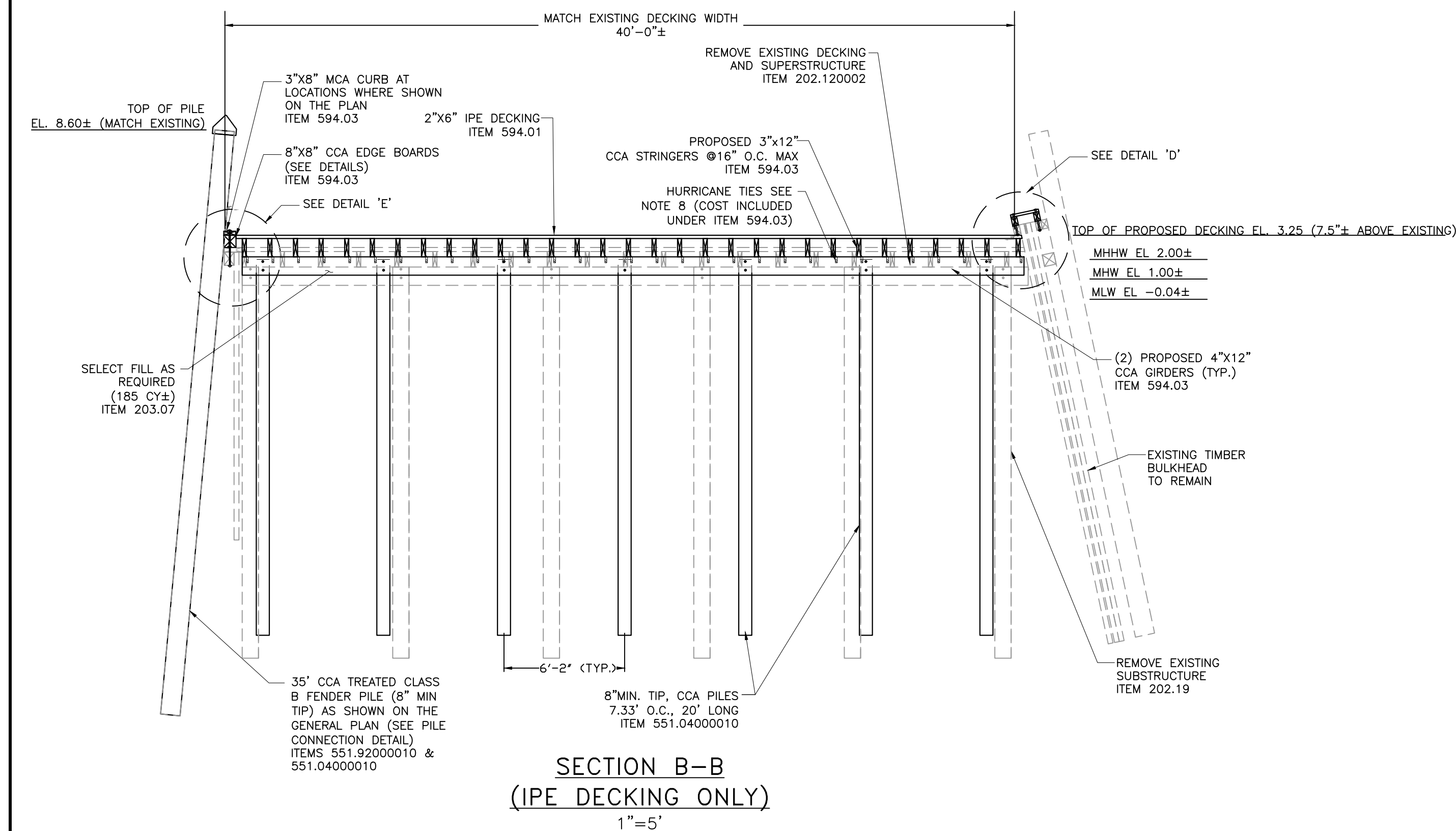
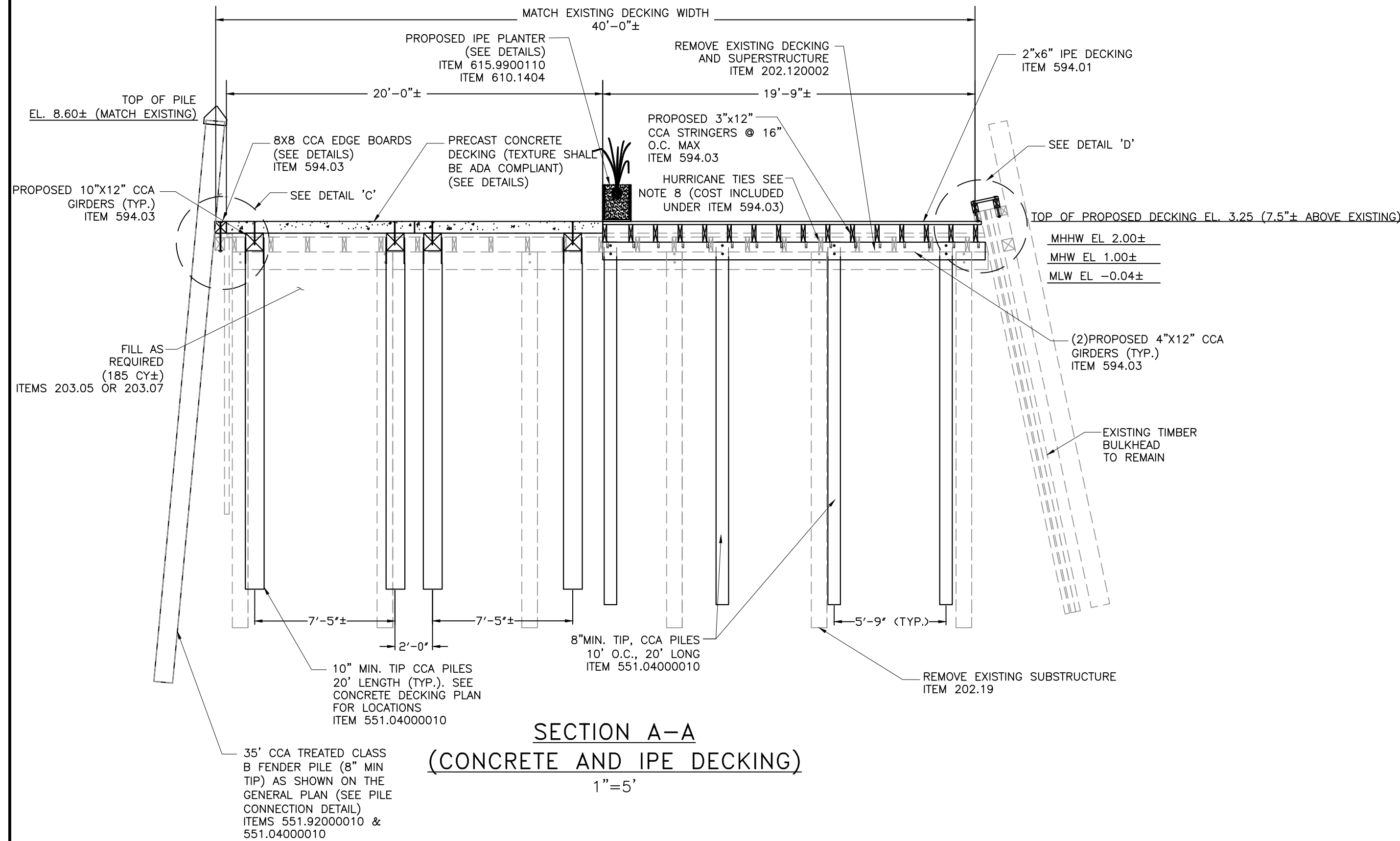


NOTES:

- THE HORIZONTAL DATUM IS NYSPCS LI ZONE, NAD83 (2011) AND THE VERTICAL DATUM IS NAVD88 (GEOID12A) - RTK GPS.
- THE CONTRACTOR SHALL BE AWARE THAT MULTIPLE LAYERS OF SHEETING LIKELY EXIST LANDWARD OF THE EXISTING BULKHEAD SHEETING. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL EXISTING BULKHEAD SHEETING MATERIAL NECESSARY TO INSTALL THE PROPOSED BULKHEAD AT THE LOCATION SHOWN ON THE CONTRACT PLANS AND DETAILS. THE COST OF REMOVAL AND DISPOSAL OF THE ADDITIONAL ROWS OF SHEETING BEHIND THE EXISTING SEAWARD BULKHEAD SHALL BE PAID FOR UNDER ITEM 202.19.
- ALL PROPOSED SHEETING SHALL BE INSTALLED TO SPECIFIED LENGTH UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- PRIOR TO REMOVAL OF EXISTING BULKHEAD(S), SOIL LANDWARD OF BULKHEAD SHALL BE EXCAVATED AND RETAINED SO AS NOT TO ENTER THE WATERWAY.
- EXISTING DEPTH OF WATER ADJACENT TO BULKHEAD TO BE MAINTAINED.
- REMOVAL OF EXISTING DECKING AND SUBSTRUCTURE TO BE PAID FOR AS FOLLOWS:
 - ITEM 202.120001 - WEST BOARDWALK SUPERSTRUCTURE (DECKING, STRINGERS & GIRDERS)
 - ITEM 202.120002 - NORTH FREIGHT DOCK SUPERSTRUCTURE (DECKING, STRINGERS & GIRDERS)
 - ITEM 202.19 - REMOVAL OF SUBSTRUCTURES (PILE FOUNDATIONS FOR DECKING)
- ALL MARINE LUMBER (OTHER THAN DECKING) SHALL BE TREATED WITH CHROMATED COPPER ARSENATE TO A RETENTION OF NO LESS THAN 2.5 LB PER CUBIC FEET AS SPECIFIED BY THE CURRENT AMERICAN WOOD PRESERVERS ASSOCIATION STANDARD C18 FOR "STANDARD OF PRESSURE TREATED PILES AND TIMBERS IN MARINE CONSTRUCTION. TIMBER DECKING BOARDS SHALL BE TREATED WITH MICRONIZED COPPER AZOLE (MCA) WITH A RETENTION OF 0.06 POUNDS PER CUBIC FOOT.
- HURRICANE TIES AND THEIR FASTENERS SHALL BE 316L STAINLESS STEEL AND PROVIDE A MINIMUM ALLOWABLE UPLIFT OF 780 LBS PER EACH. THEY SHALL BE INSTALLED AT EVERY STRINGER TO GIRDER INTERSECTION.
- STEEL SHEETING INSTALLATION TOLERANCES:
 - VARIATION FROM PLAN LOCATION: CENTER OF SHEET ELEVATION SHALL BE NOT MORE THAN 3 INCHES FROM ITS DESIGNED POSITION.
 - VARIATION FROM VERTICAL: SHEET SHALL NOT BE MORE THAN 2 DEGREES FROM THE INDICATED VERTICAL OR INDICATED BATTER.
 - VARIATION FROM CUTOFF ELEVATION: TOP OF SHEETING SHALL BE NOT MORE THAN 2 INCHES FROM ITS DESIGNED CUTOFF ELEVATION.
- CONTRACTOR SHALL PROTECT EXISTING FEATURES (INCLUDING BUT NOT LIMITED TO FENCES, RETAINING WALLS, SIDEWALK, ETC.) LANDWARD OF THE BULKHEAD. IF EXISTING FEATURES ARE DISTURBED OR DAMAGED DURING CONSTRUCTION THE CONTRACTOR SHALL REPAIR OR REPLACE A.O.B.E. WITH NO ADDITIONAL COST TO OWNER.
- STEEL SHEETING SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS:
 - SECTION MODULUS = 60.7 IN³/FT
 - WEB THICKNESS = 0.50"
 - SECTION HEIGHT = 16.1"
- ALL TREATED LUMBER FOR STRINGERS, GIRDERS, AND WALES SHALL BE GRADE DF NO. 1 OR BETTER. ALL OTHER TIMBERS SHALL BE DF NO. 2 OR BETTER.
- NOTCHES SHALL NOT EXCEED 50% OF THE CROSS SECTION OF THE POST OR PILE.

DATE	BY	DESCRIPTION	APPROV. BY
REVISIONS			
INCORPORATED VILLAGE OF OCEAN BEACH OCEAN BEACH, NEW YORK			
VILLAGE OF OCEAN BEACH FERRY TERMINAL IMPROVEMENTS- PHASE II			
BULKHEAD DETAILS - 1			
L. K. McLEAN ASSOCIATES, P.C. CONSULTING ENGINEERS 437 SOUTH COUNTRY RD., BROOKHAVEN, NEW YORK 11719			
Designed By:	KJM	Scale:	AS NOTED
Drawn By:	RAC	Date:	SEP 2019
Approved By:	RAS	File No.	19018.000
			Sheet No. 7 OF 14

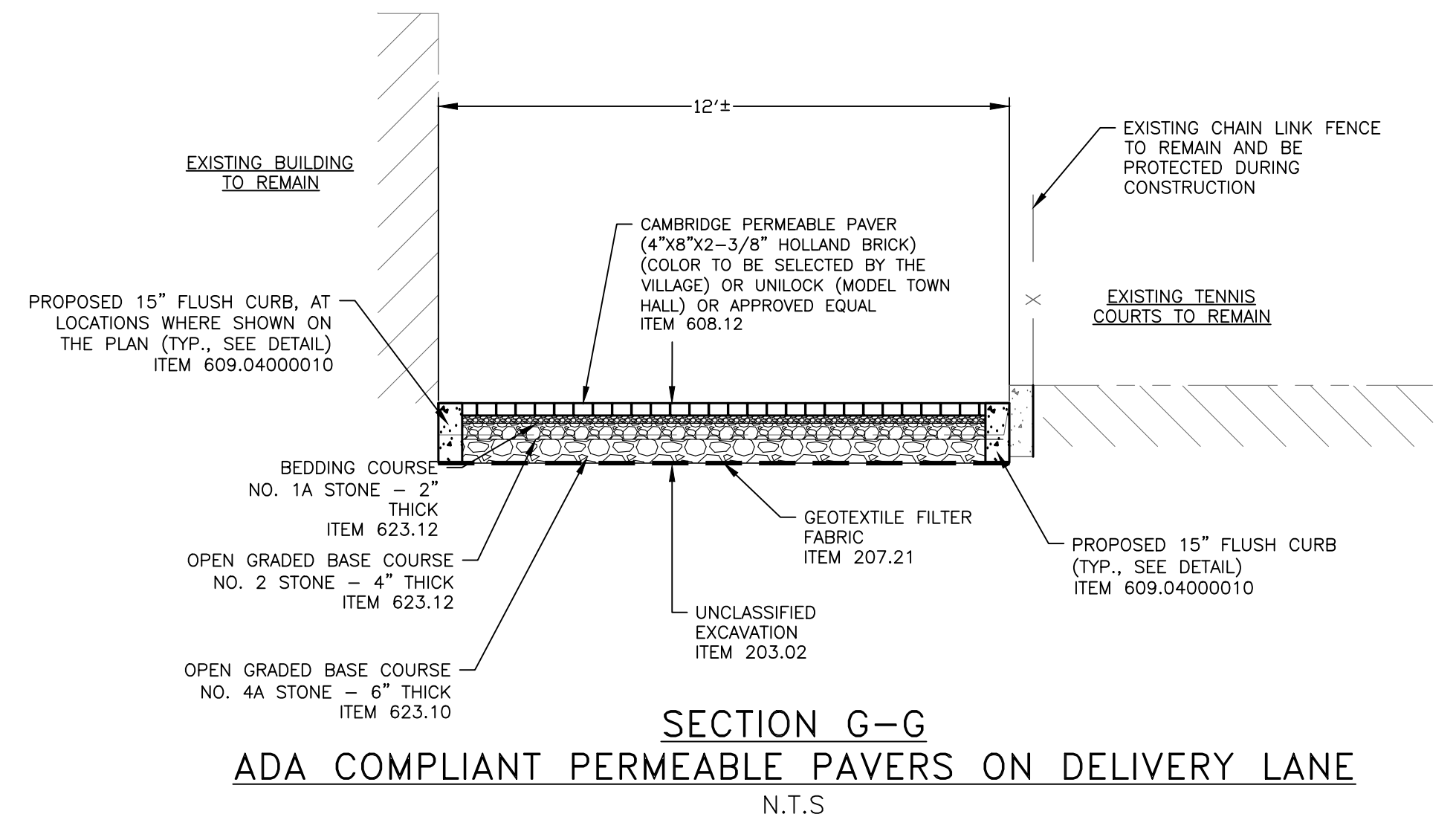
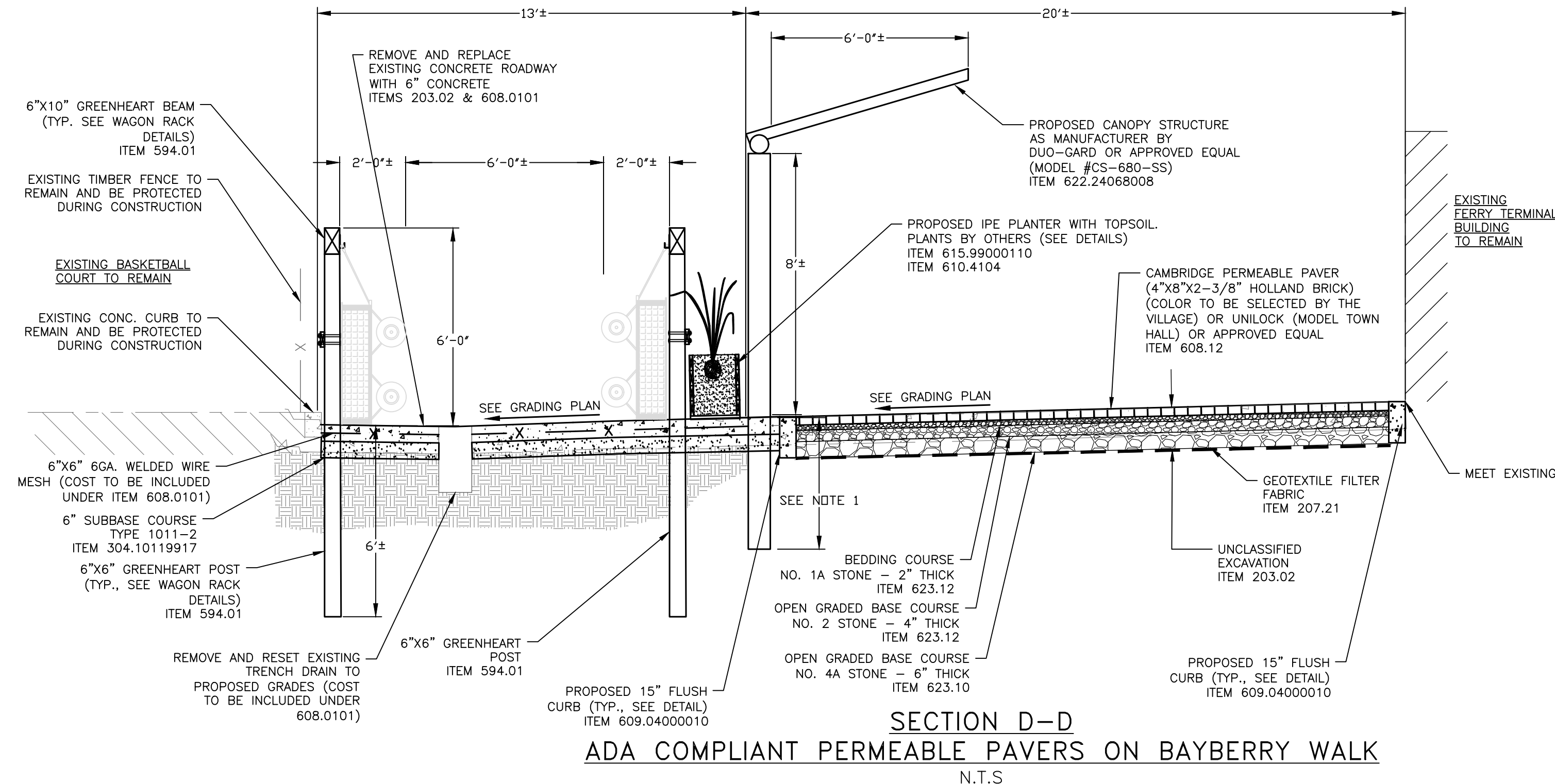
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 P:\19018.000 Ocean Beach Wagon Park\Civil dwg\Contract Drawings\BULKHEAD DETAILS_0.dwg



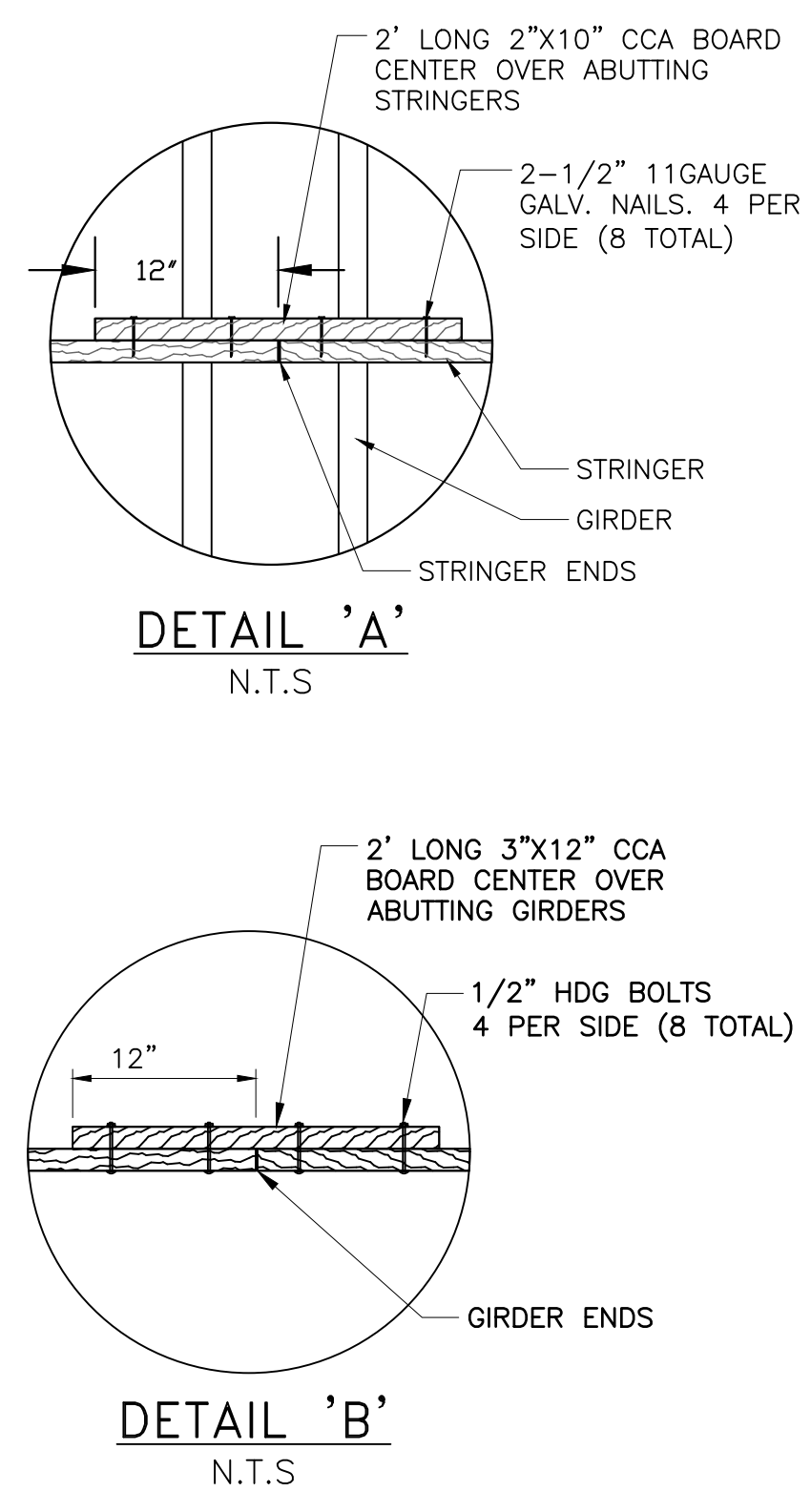
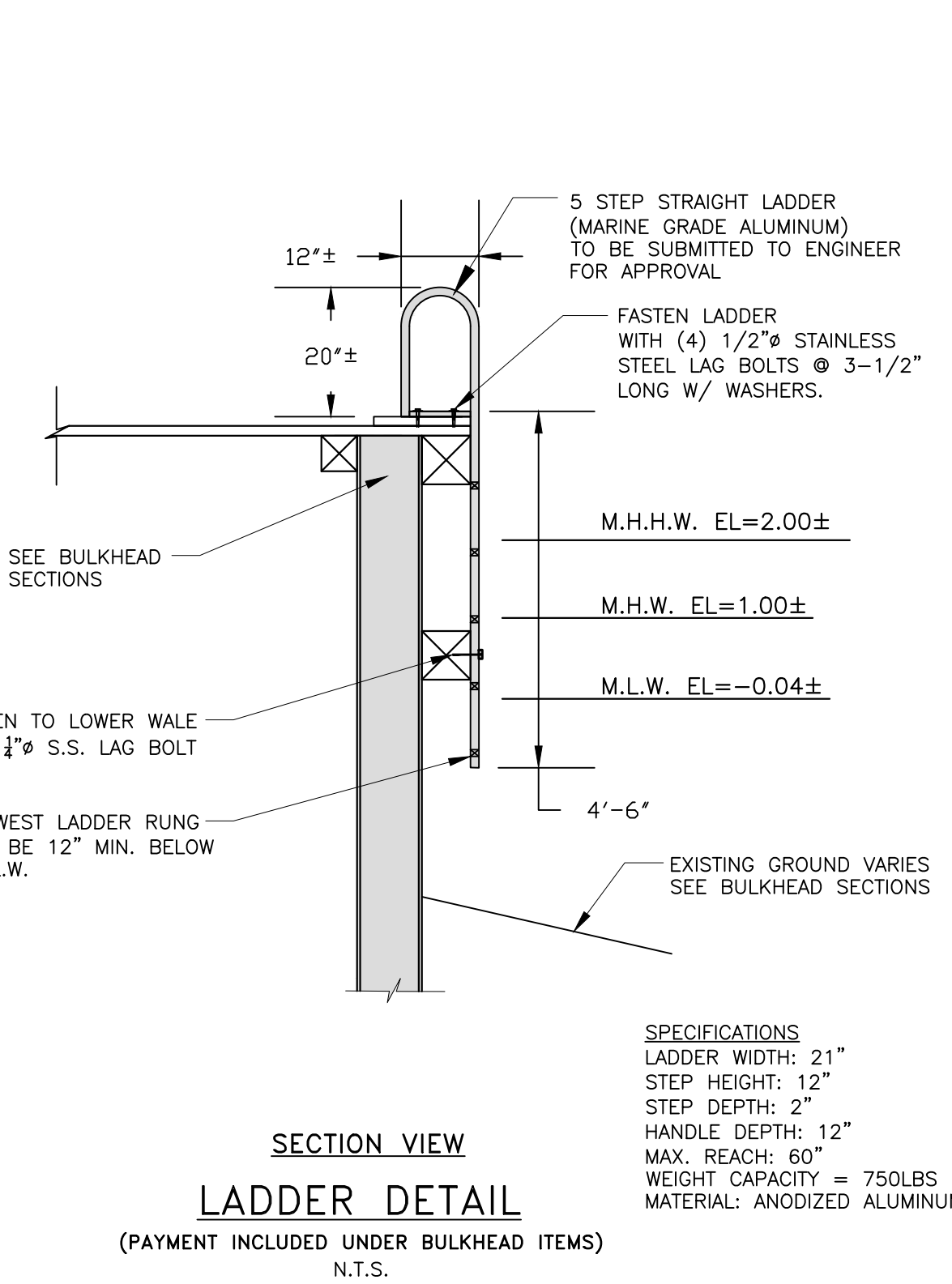
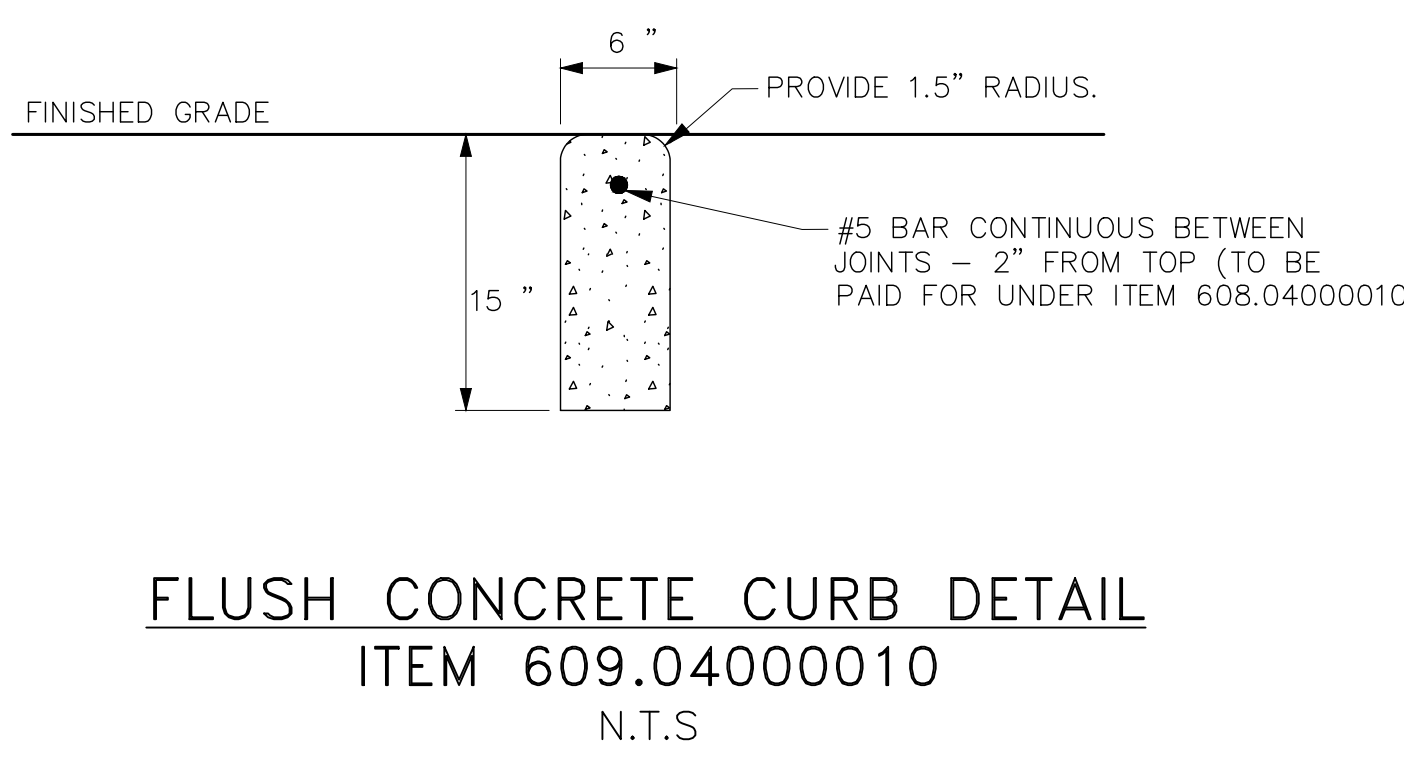
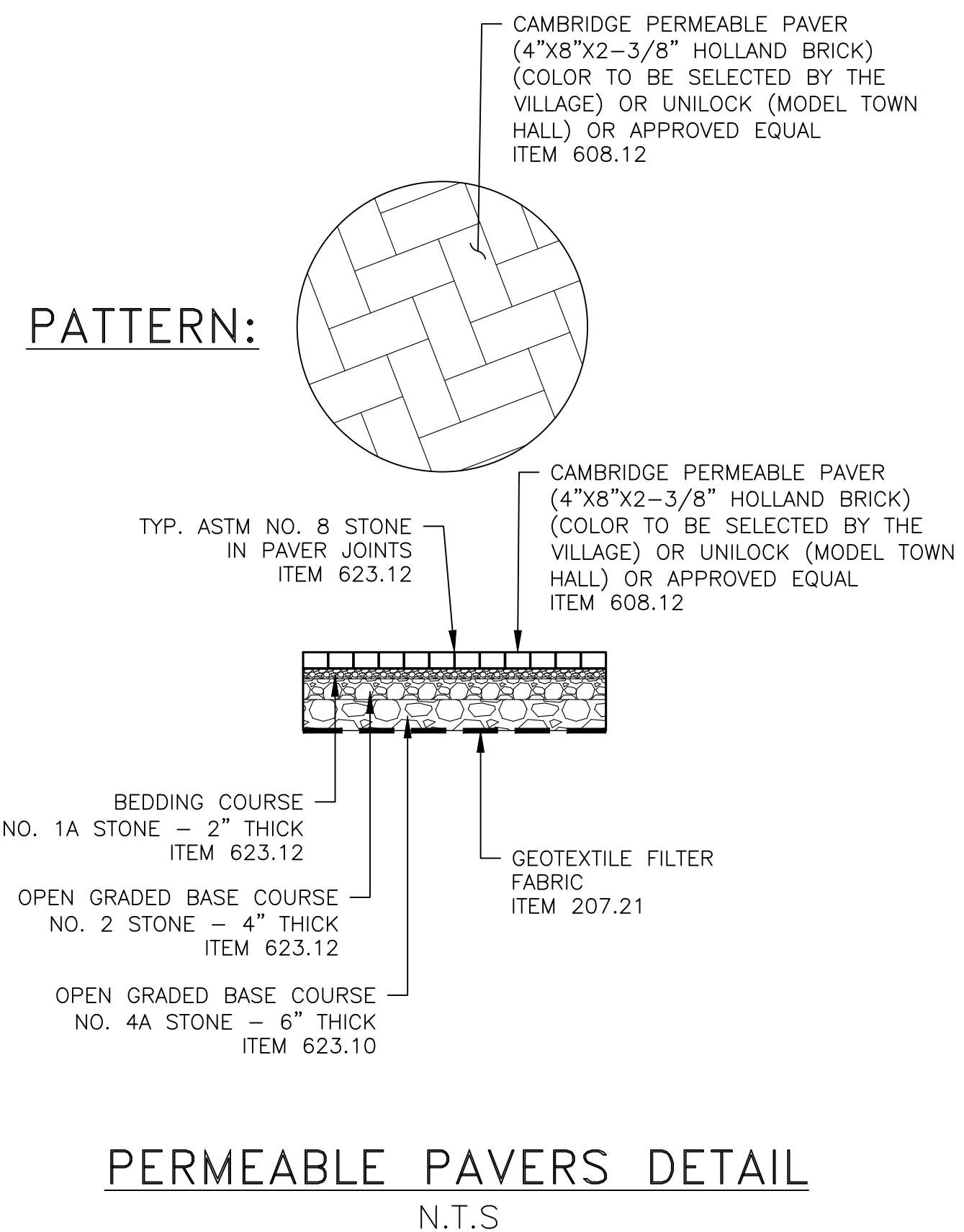
NOTES:

- THE HORIZONTAL DATUM IS NYSPCS LI ZONE, NAD83 (2011) AND THE VERTICAL DATUM IS NAVD88 (GEOID12A) - RTK GPS.
- THE CONTRACTOR SHALL BE AWARE THAT MULTIPLE LAYERS OF SHEETING LIKELY EXIST LANDWARD OF THE EXISTING VISIBLE SHEETING. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL EXISTING BULKHEAD SHEETING MATERIAL NECESSARY TO INSTALL THE PROPOSED BULKHEAD AT THE LOCATION SHOWN ON THE CONTRACT PLANS AND DETAILS. THE COST OF REMOVAL AND DISPOSAL OF THE ADDITIONAL ROWS OF SHEETING BEHIND THE EXISTING SEAWARD BULKHEAD SHALL BE PAID FOR UNDER ITEM 202.19.
- ALL PROPOSED SHEETING SHALL BE INSTALLED TO SPECIFIED LENGTH UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- PRIOR TO REMOVAL OF EXISTING BULKHEAD(S), SOIL LANDWARD OF BULKHEAD SHALL BE EXCAVATED AND RETAINED SO AS NOT TO ENTER THE WATERWAY.
- EXISTING DEPTH OF WATER ADJACENT TO BULKHEAD TO BE MAINTAINED.
- REMOVAL OF EXISTING DECKING AND SUBSTRUCTURE TO BE PAID FOR AS FOLLOWS:
 - ITEM 202.120001 - WEST BOARDWALK SUPERSTRUCTURE (DECKING, STRINGERS & GIRDERS)
 - ITEM 202.120002 - NORTH FREIGHT DOCK SUPERSTRUCTURE (DECKING, STRINGERS & GIRDERS)
 - ITEM 202.19 - REMOVAL OF SUBSTRUCTURES (PILE FOUNDATIONS FOR DECKING)
- ALL MARINE LUMBER (OTHER THAN DECKING) SHALL BE TREATED WITH CHROMATED COPPER ARSENATE TO A RETENTION OF NO LESS THAN 2.5 LB PER CUBIC FEET AS SPECIFIED BY THE CURRENT AMERICAN WOOD PRESERVERS ASSOCIATION STANDARD C18 FOR "STANDARD OF PRESSURE TREATED PILES AND TIMBERS IN MARINE CONSTRUCTION. TIMBER DECKING BOARDS SHALL BE TREATED WITH MICRONIZED COPPER AZOLE (MCA) WITH A RETENTION OF 0.06 POUNDS PER CUBIC FOOT.
- HURRICANE TIES AND THEIR FASTENERS SHALL BE 316L STAINLESS STEEL AND PROVIDE A MINIMUM UPLIFT OF 780 LBS EACH. THEY SHALL BE INSTALLED AT EVERY STRINGER TO GIRDER INTERSECTION.
- NOTCHES SHALL NOT EXCEED 50% OF THE CROSS SECTION OF THE POST OR PILE.
- IPE DECKING SHALL ACHIEVE A MINIMUM MEMBER SPAN OF 12' BETWEEN SUPPORTS AT 100 LBS. PER SQUARE FOOT UNIFORM LIVE LOAD.
- STEEL SHEETING SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS:
 - SECTION MODULUS = 60.7 IN³/FT
 - WEB THICKNESS = 0.50"
 - SECTION HEIGHT = 16.1"
- IPE DECKING 2"x6", TO BE INSTALLED WITH 8" SPACING AND FASTENED WITH #14 X 3 1/2" T316 STAINLESS STEEL SCREWS. PLANKS TO BE PRE-DRILLED 3/8" FROM THE OUTSIDE EDGE AND 1-1/2" OFF THE ENDS OF EACH PLANK.
- CONTRACTOR SHALL SHIM BOTTOM OF PROPOSED CONCRETE DECKING WITH CCA LUMBER AS NECESSARY AND FASTEN TO EXISTING TIMBER WALE WITH GALVANIZED HARDWARE A.O.B.E. TO BE PAID FOR UNDER ITEM 594.03.
- ALL TREATED LUMBER FOR STRINGERS, GIRDERS, AND WALES SHALL BE GRADE DF NO. 1 OR BETTER. ALL OTHER TIMBERS SHALL BE DF NO. 2 OR BETTER.

DATE	BY	DESCRIPTION	APPROV. BY
REVISIONS			
INCORPORATED VILLAGE OF OCEAN BEACH OCEAN BEACH, NEW YORK VILLAGE OF OCEAN BEACH FERRY TERMINAL IMPROVEMENTS- PHASE II BULKHEAD DETAILS - 2			
L. K. McLEAN ASSOCIATES, P.C. CONSULTING ENGINEERS 437 SOUTH COUNTRY RD., BROOKHAVEN, NEW YORK 11719			
Designed By:	KJM	Scale: AS NOTED	Sheet No.
Drawn By:	RAC	Date: SEP 2019	8 OF 14
Approved By:	RAS	File No. 19018.000	

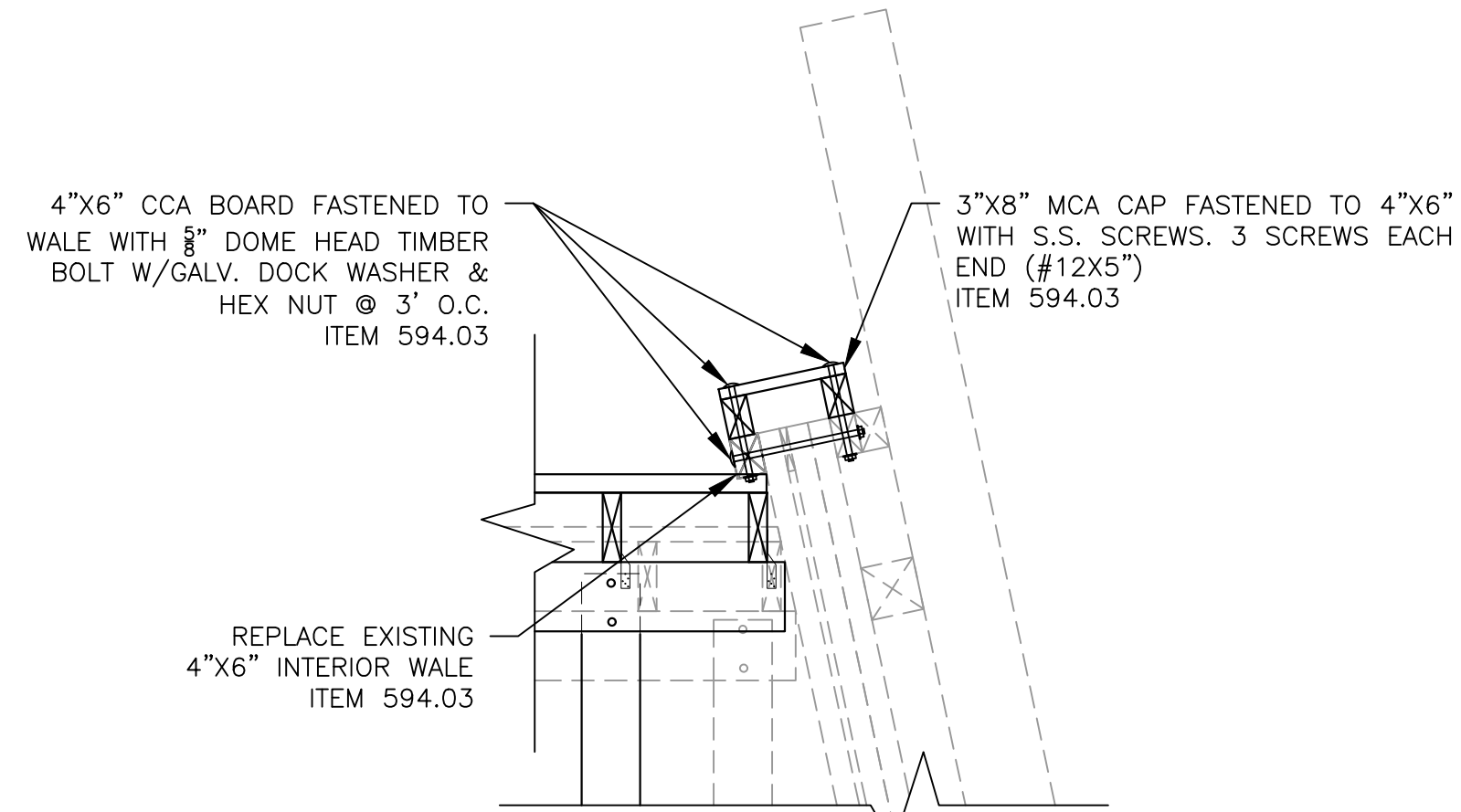


- NOTES:**
- DESIGN OF FOUNDATION AND PROPOSED CANOPY STRUCTURE SHALL BE DESIGNED BY CANOPY MANUFACTURER AND STAMPED BY A LICENSED PROFESSIONAL ENGINEER IN NEW YORK STATE. DESIGN SHALL MEET THE INTERNATIONAL BUILDING CODE (IBC) AS ADOPTED BY NY STATE. DESIGN SHALL ALSO MEET THE REQUIREMENTS OF ASCE 7-16, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.
 - THE PROJECT SITE IS LOCATED WITHIN A FEMA FLOOD PLAIN AND SHALL BE DESIGNED IN ACCORDANCE WITH ASCE 24-14, FLOOD RESISTANCE DESIGN AND CONSTRUCTION.
 - SOIL BORING INFORMATION IS LOCATED IN THE CONTRACT DOCUMENT.
 - COLOR OF CANOPY ROOF AND CANOPY STRUCTURE SHALL BE SELECTED BY THE VILLAGE.

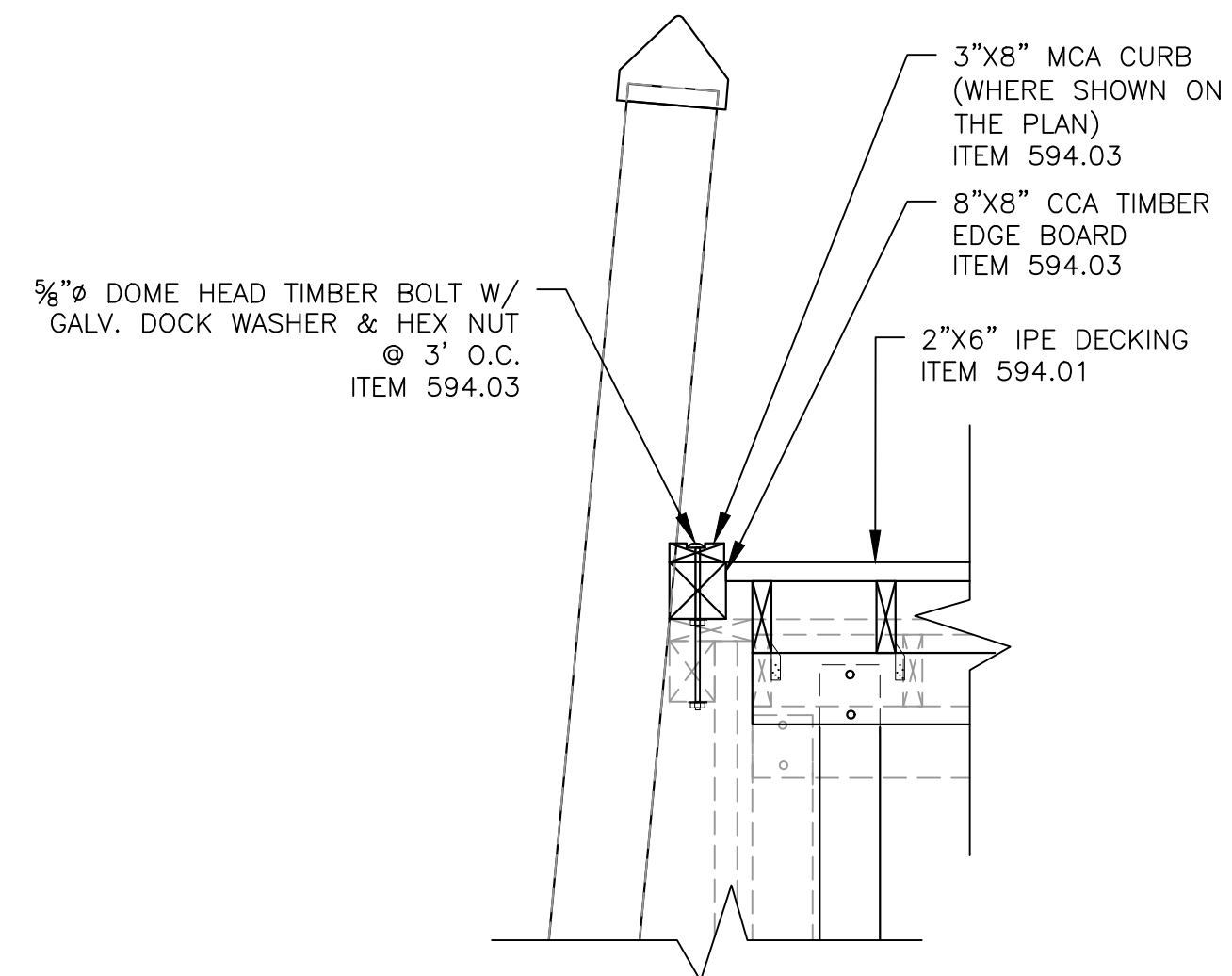


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REVISIONS			
INCORPORATED VILLAGE OF OCEAN BEACH OCEAN BEACH, NEW YORK			
VILLAGE OF OCEAN BEACH FERRY TERMINAL IMPROVEMENTS- PHASE II			
MISCELLANEOUS DETAILS-1			
L. K. McLEAN ASSOCIATES, P.C. CONSULTING ENGINEERS 437 SOUTH COUNTRY RD., BROOKHAVEN, NEW YORK 11719			
Designed By:	KJM	Scale: AS NOTED	Sheet No.
Drawn By:	RAC	Date: SEP 2019	9 OF 14
Approved By:	RAS	File No. 19018.000	

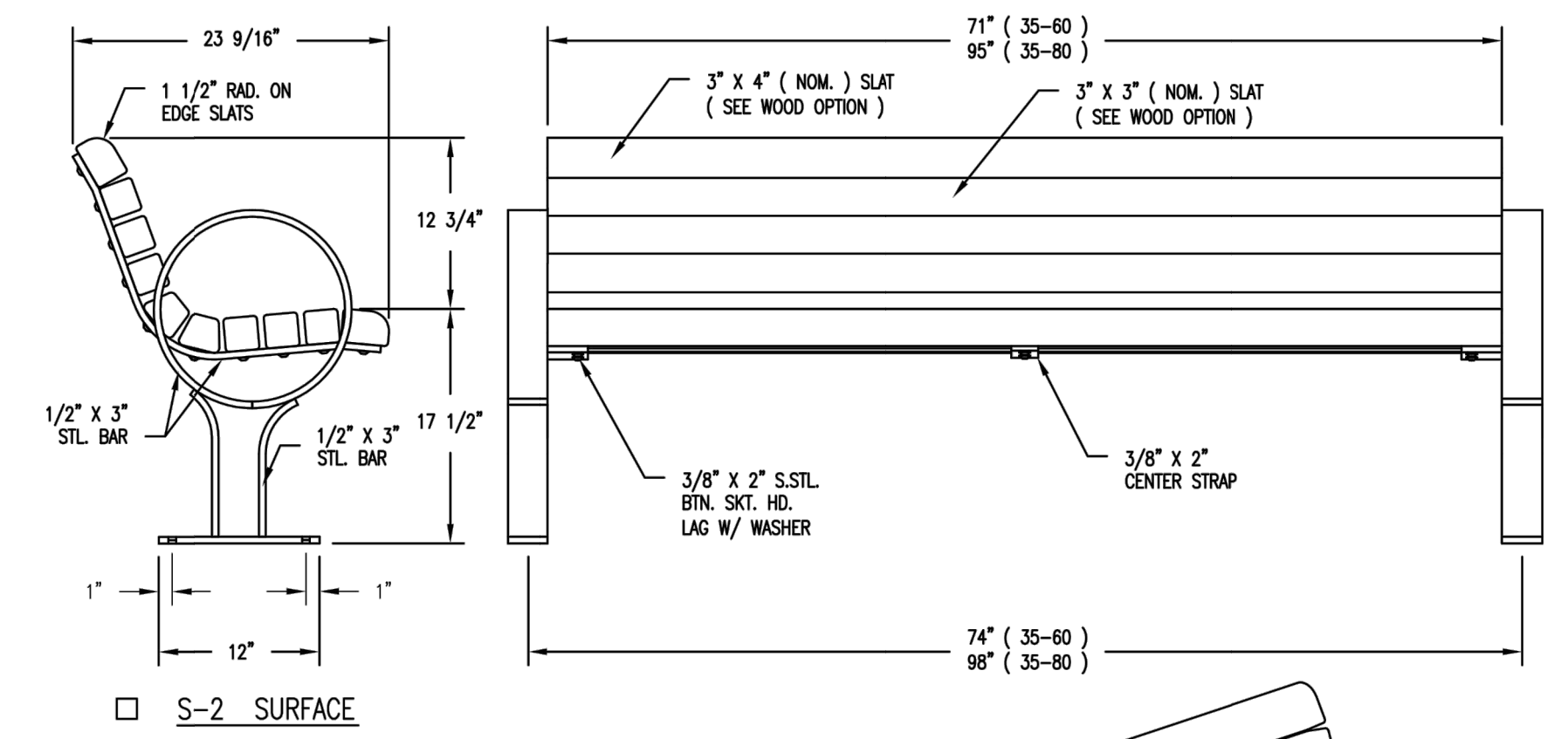
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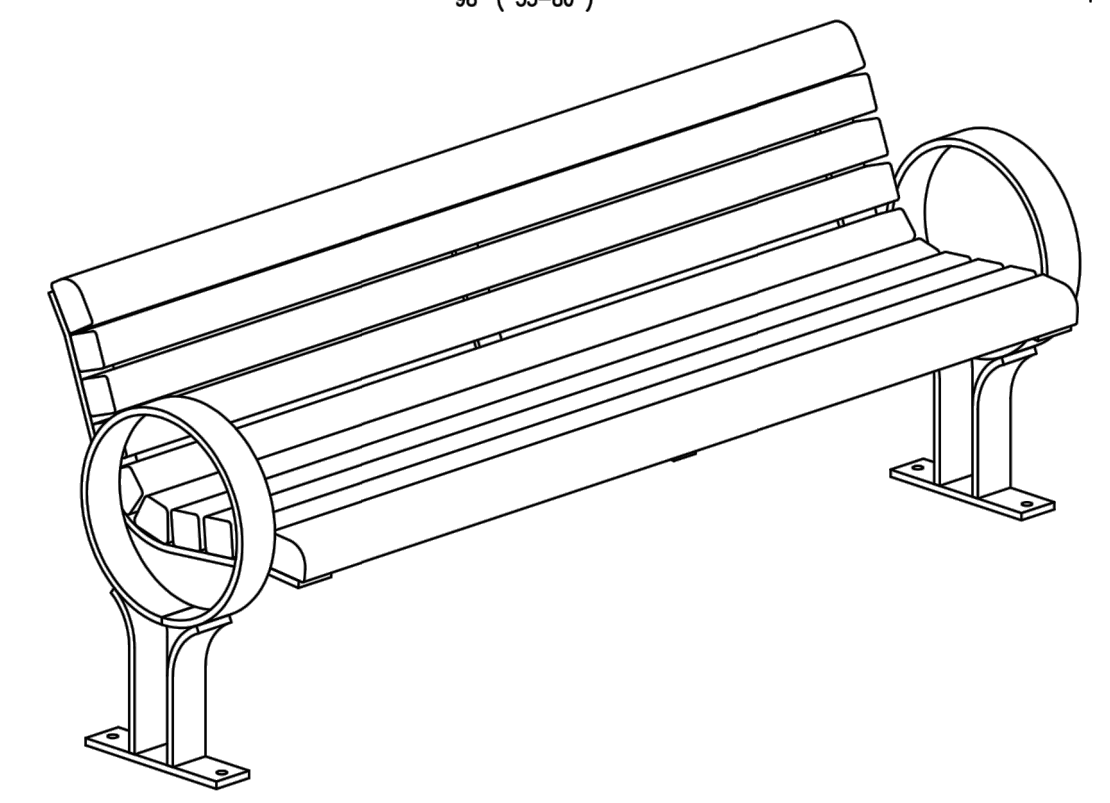
DETAIL 'D'
DECKING CONNECTION NORTH SIDE
OF FREIGHT DOCK
1"=2'



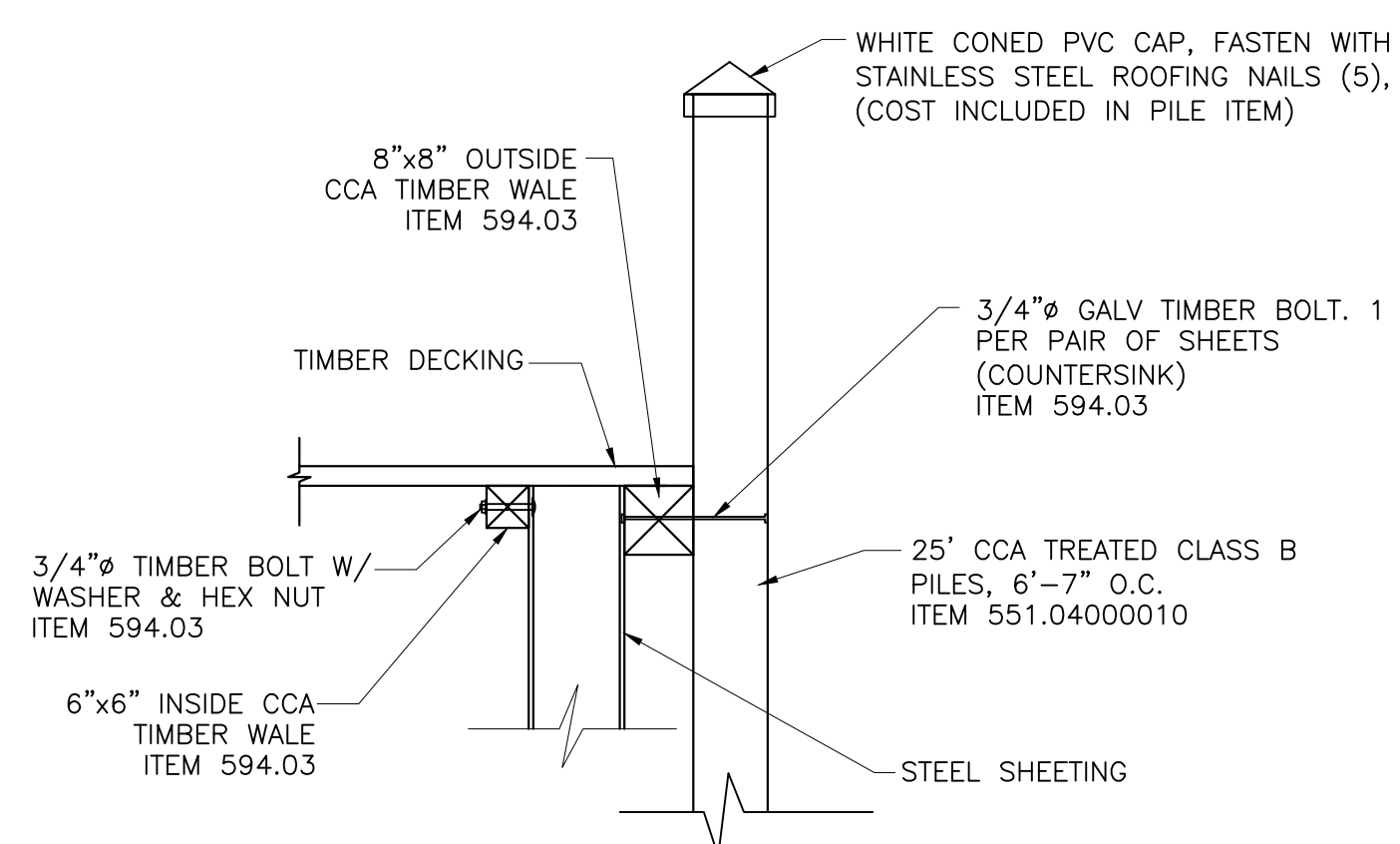
DETAIL 'E'
DECKING CONNECTION SOUTH SIDE OF
FREIGHT DOCK @ TIMBER DECKING
1"=2'



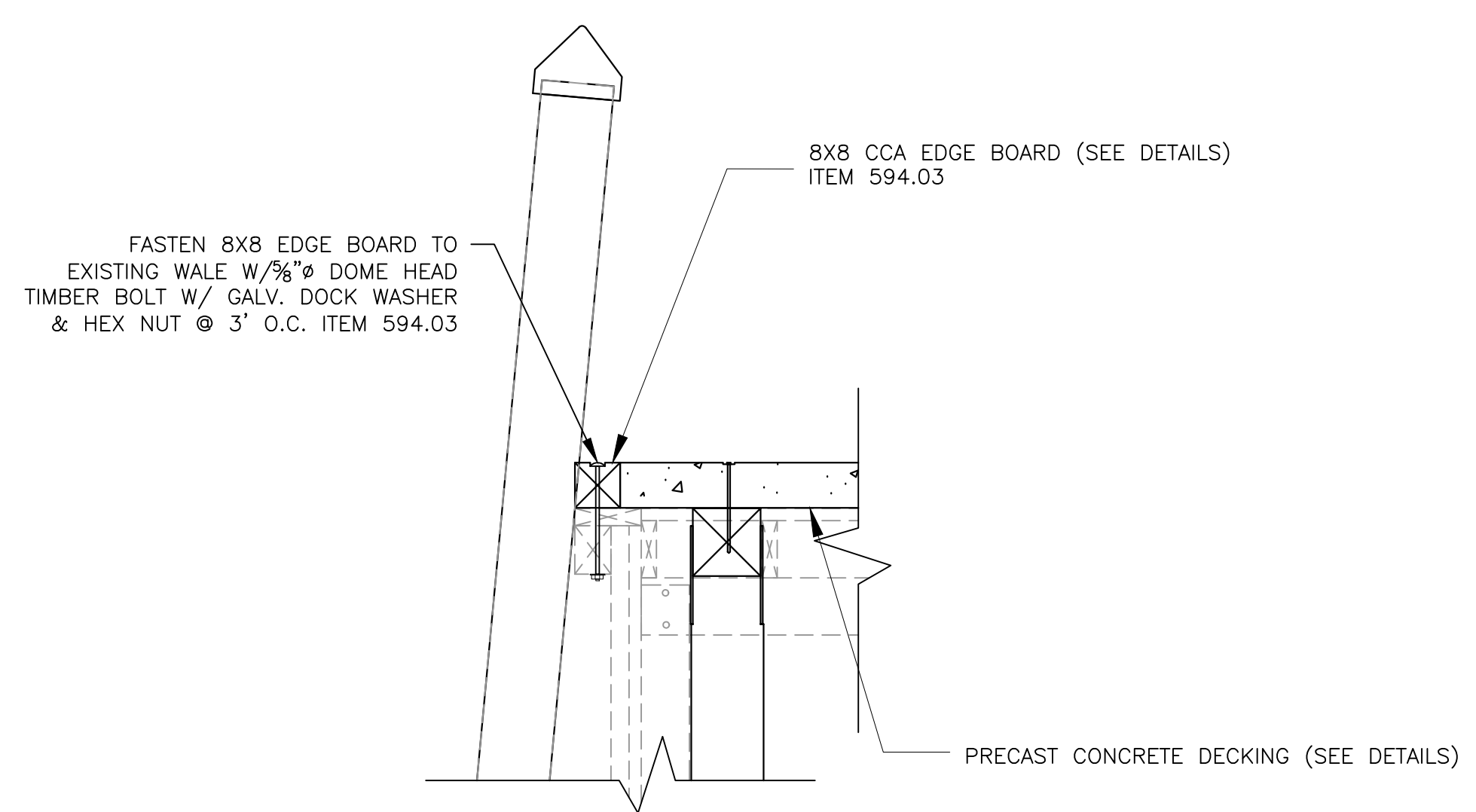
- NOTES:**
1. IPE BENCH SHALL BE FASTENED TO PROPOSED IPE DECKING WITH (4) 1/2" GALV. THROUGH BOLTS.
 2. ALL STEEL MEMBERS SHALL BE COATED WITH ZINC RICH EPOXY THEN FINISHED WITH POLYESTER POWDER COATING.
 3. ALL WOOD MEMBERS SHALL BE IPE (SIZES AND DIMENSIONS AS RECOMMENDED BY MANUFACTURER).
 4. IPE BENCH SHALL BE AS MANUFACTURED BY DUMOR INC. OR APPROVED EQUAL.



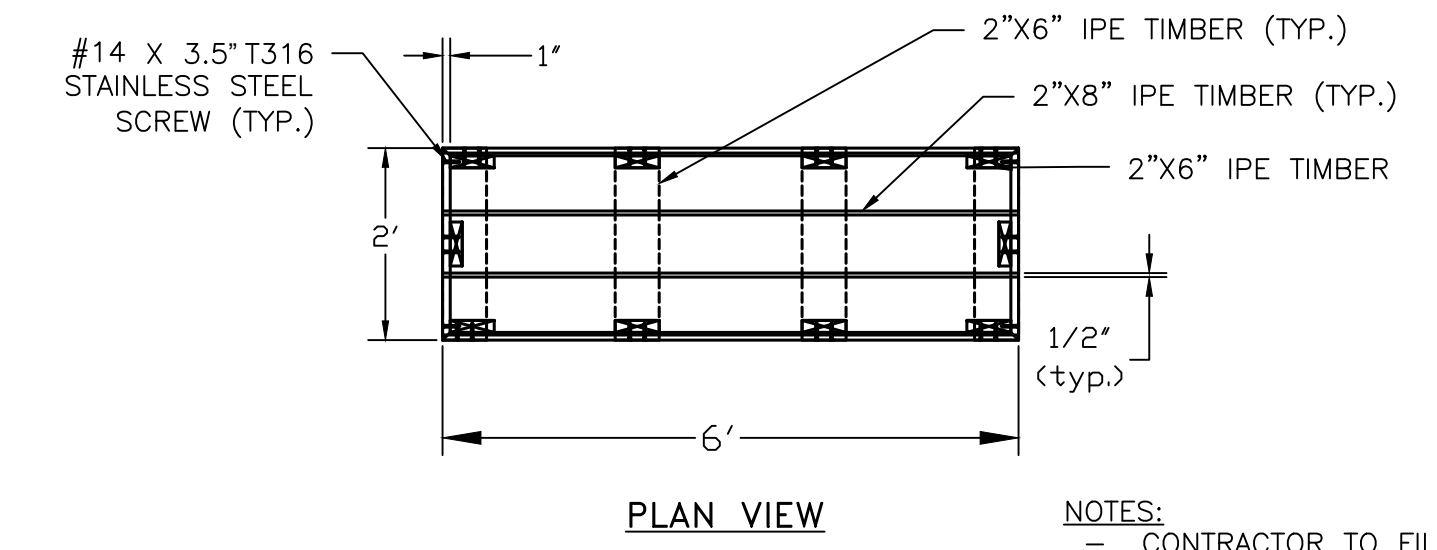
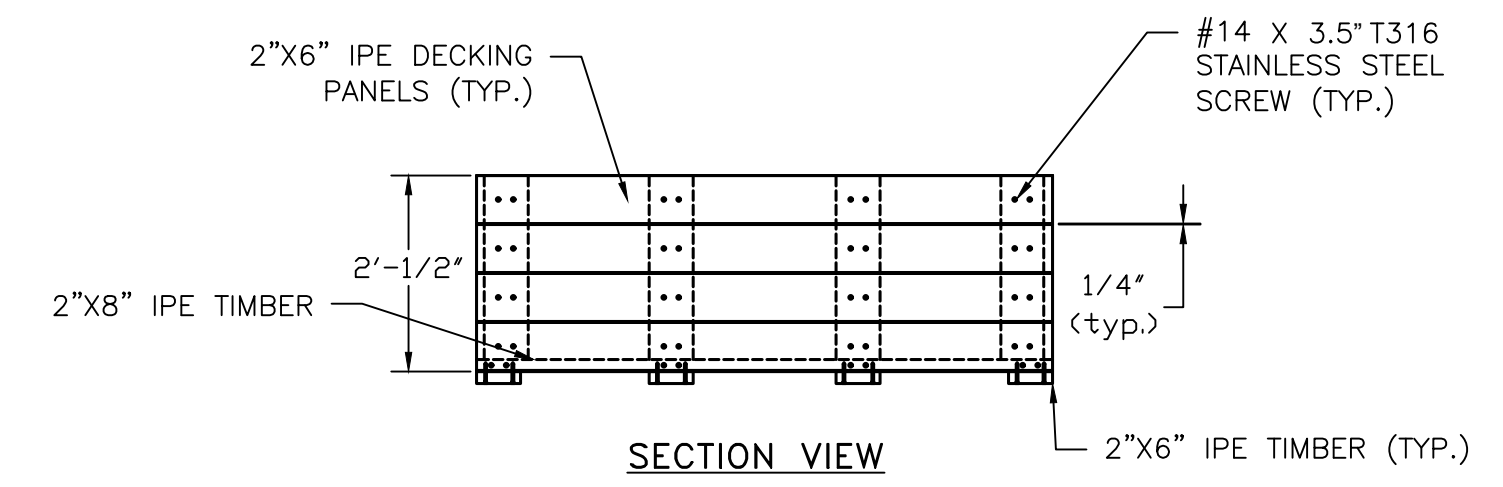
6' LONG IPE BENCH DETAIL, TYPE 1
ITEM 615.08010005
N.T.S.



PILE CONNECTION DETAIL
N.T.S.

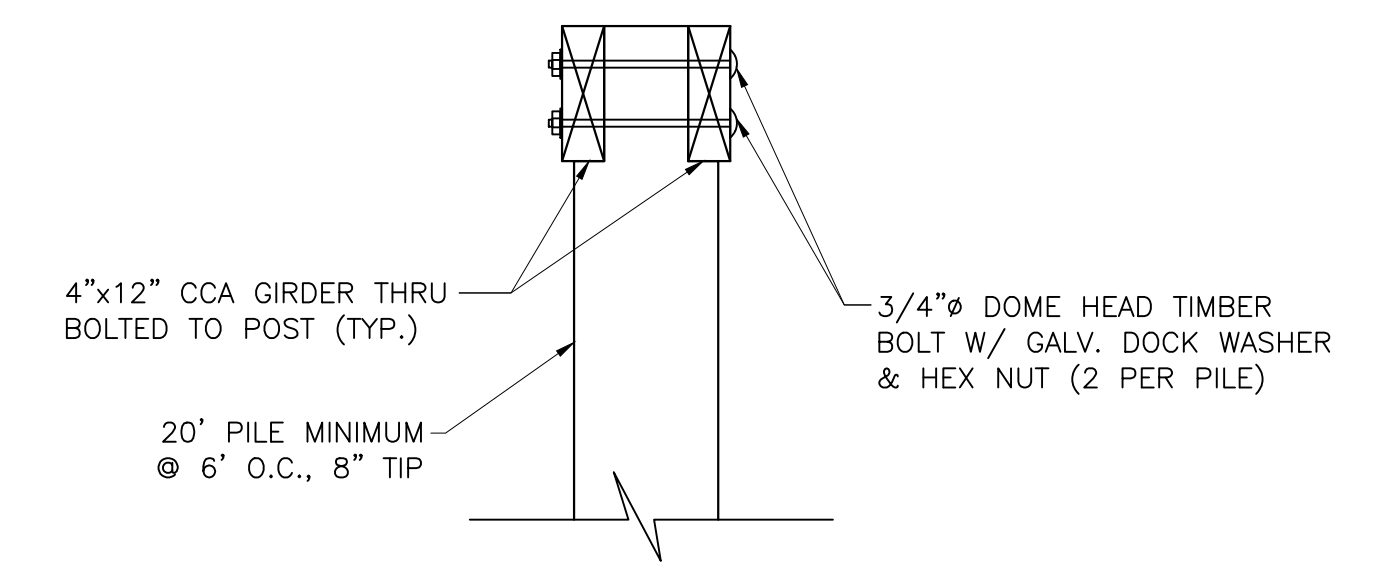


DETAIL 'C'
DECKING CONNECTION SOUTH SIDE OF
FREIGHT DOCK @ CONCRETE DECKING
1"=2'



IPE PLANTER DETAIL
ITEM 615.99000110
N.T.S.

- NOTES:**
- CONTRACTOR TO FILL PLANTERS WITH TOPSOIL A.O.B.E - ITEM 610.1404
 - PLANTS TO BE PROVIDED BY OTHERS

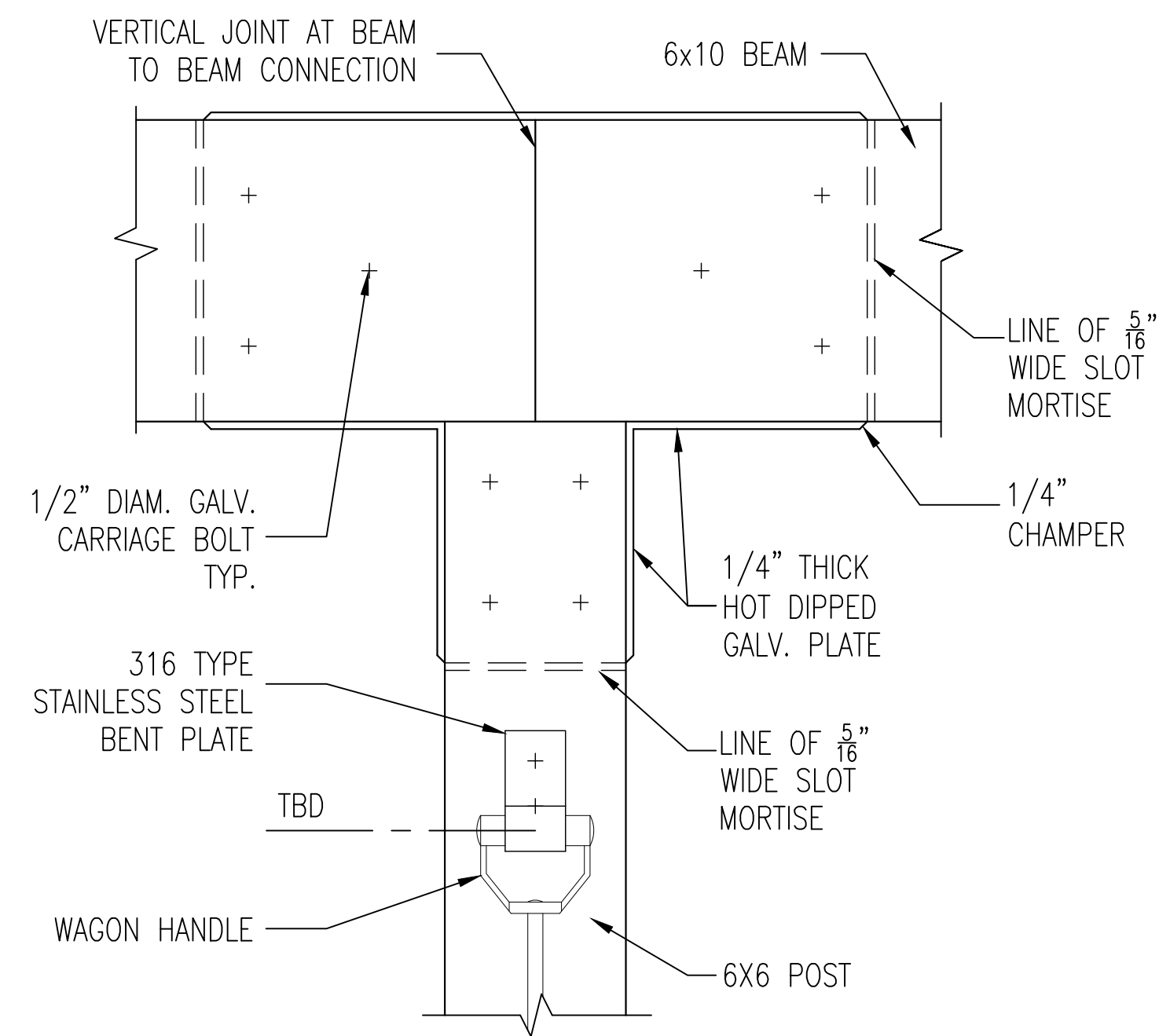


GIRDER TO PILE CONNECTION DETAIL
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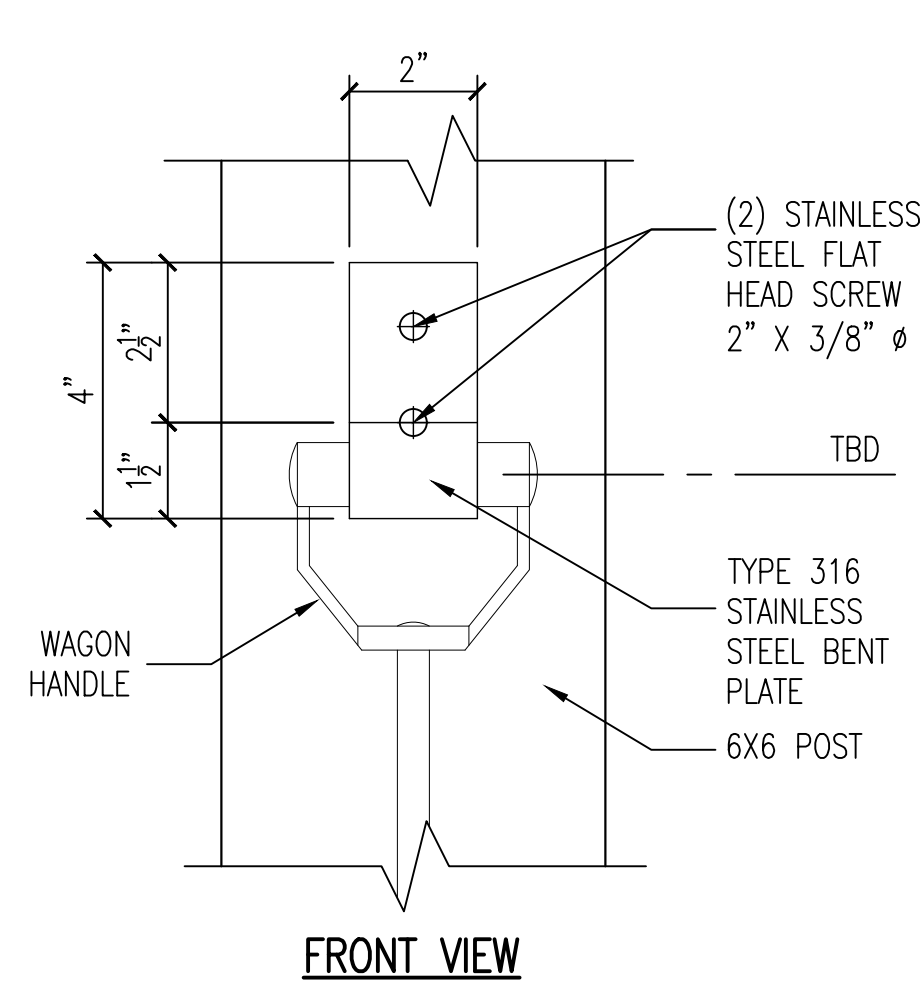
DATE	BY	DESCRIPTION	APPROV. BY
REVISIONS			
INCORPORATED VILLAGE OF OCEAN BEACH OCEAN BEACH, NEW YORK			
VILLAGE OF OCEAN BEACH FERRY TERMINAL IMPROVEMENTS- PHASE II			
MISCELLANEOUS DETAILS - 2			
L. K. McLEAN ASSOCIATES, P.C. CONSULTING ENGINEERS 437 SOUTH COUNTRY RD., BROOKHAVEN, NEW YORK 11719			
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Drawn By:	RAC	Date: SEP 2019	10 OF 14
Approved By:	RAS	File No. 19018.000	

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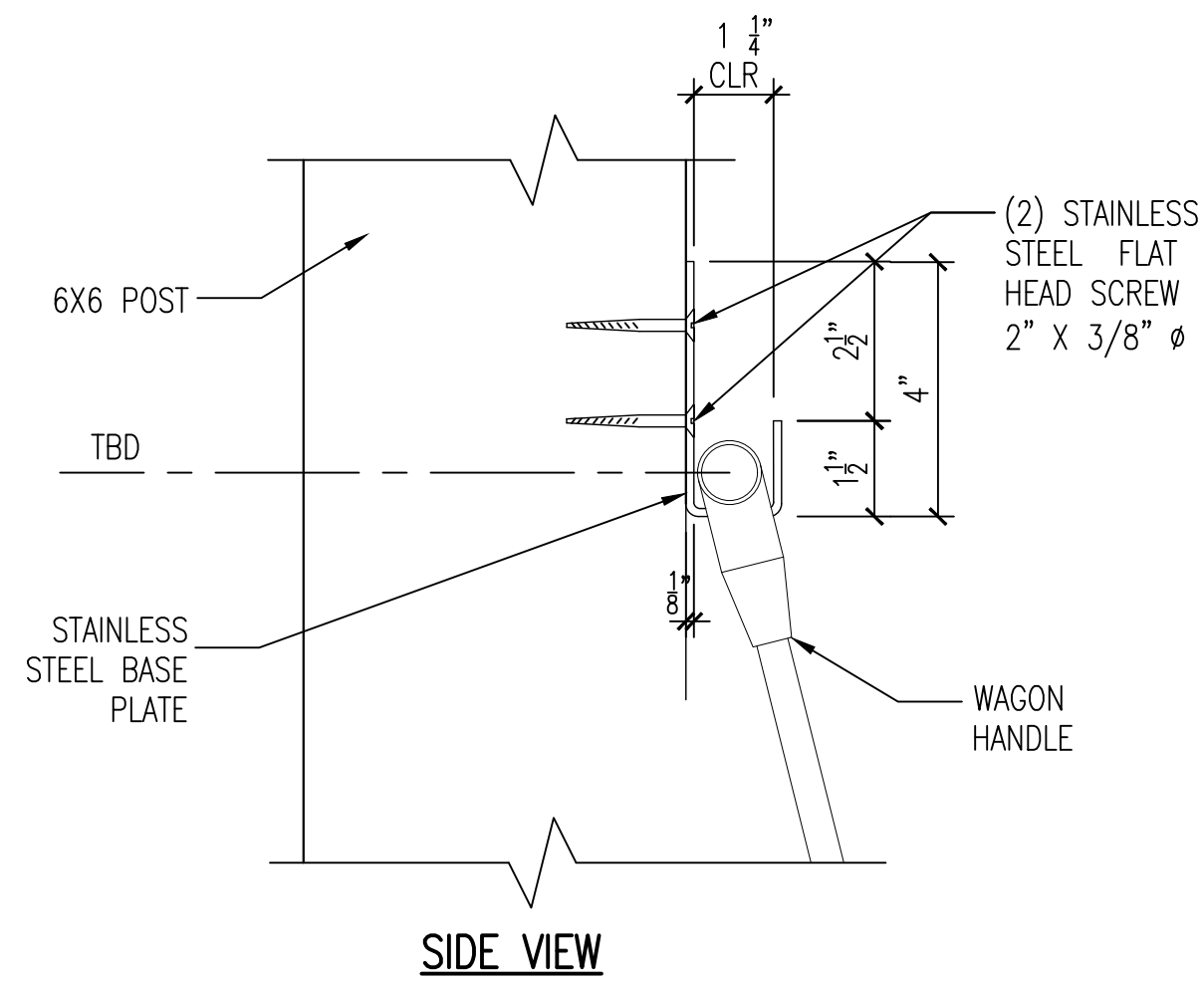
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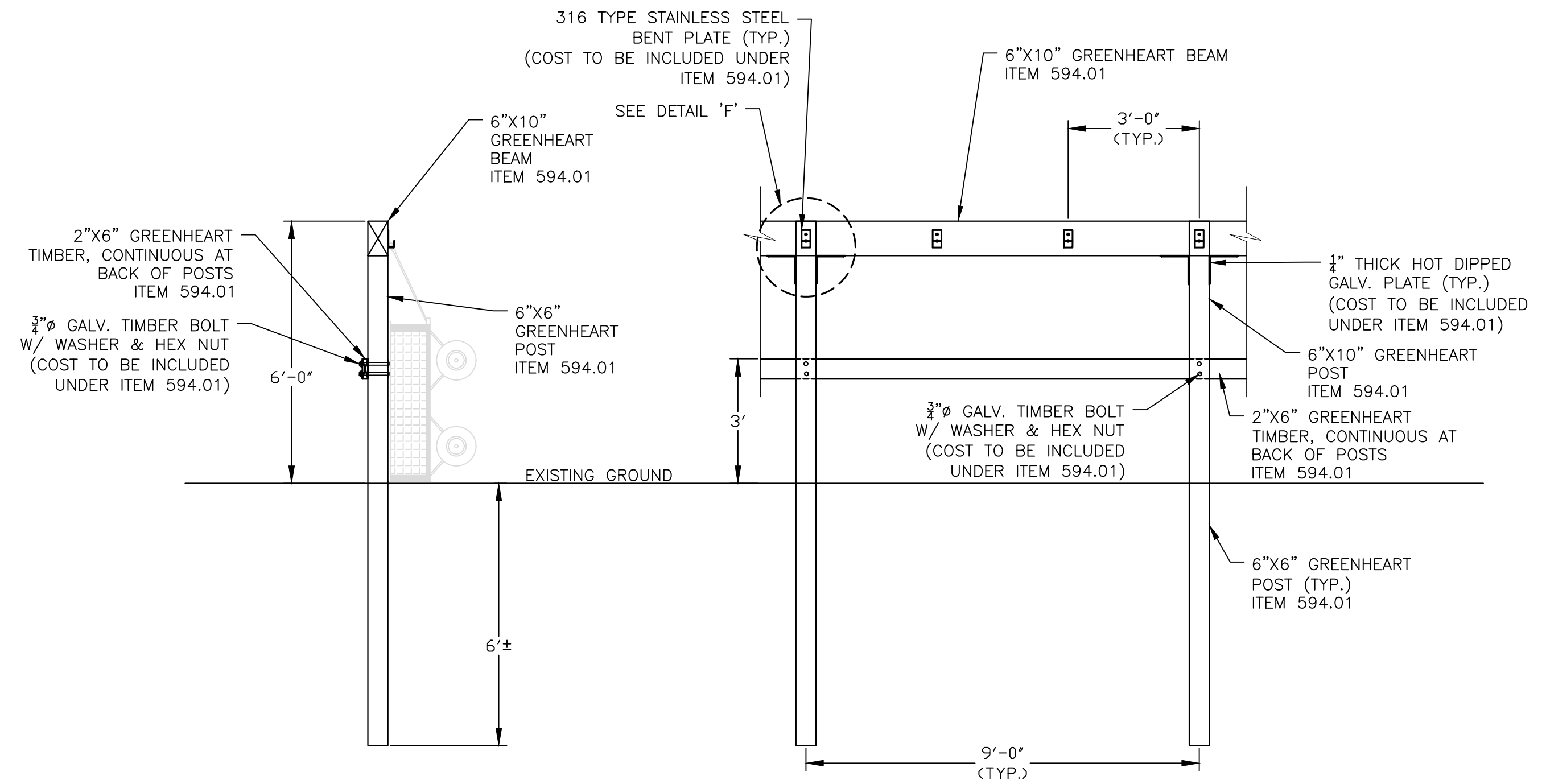
DETAIL 'F'
N.T.S.



FRONT VIEW



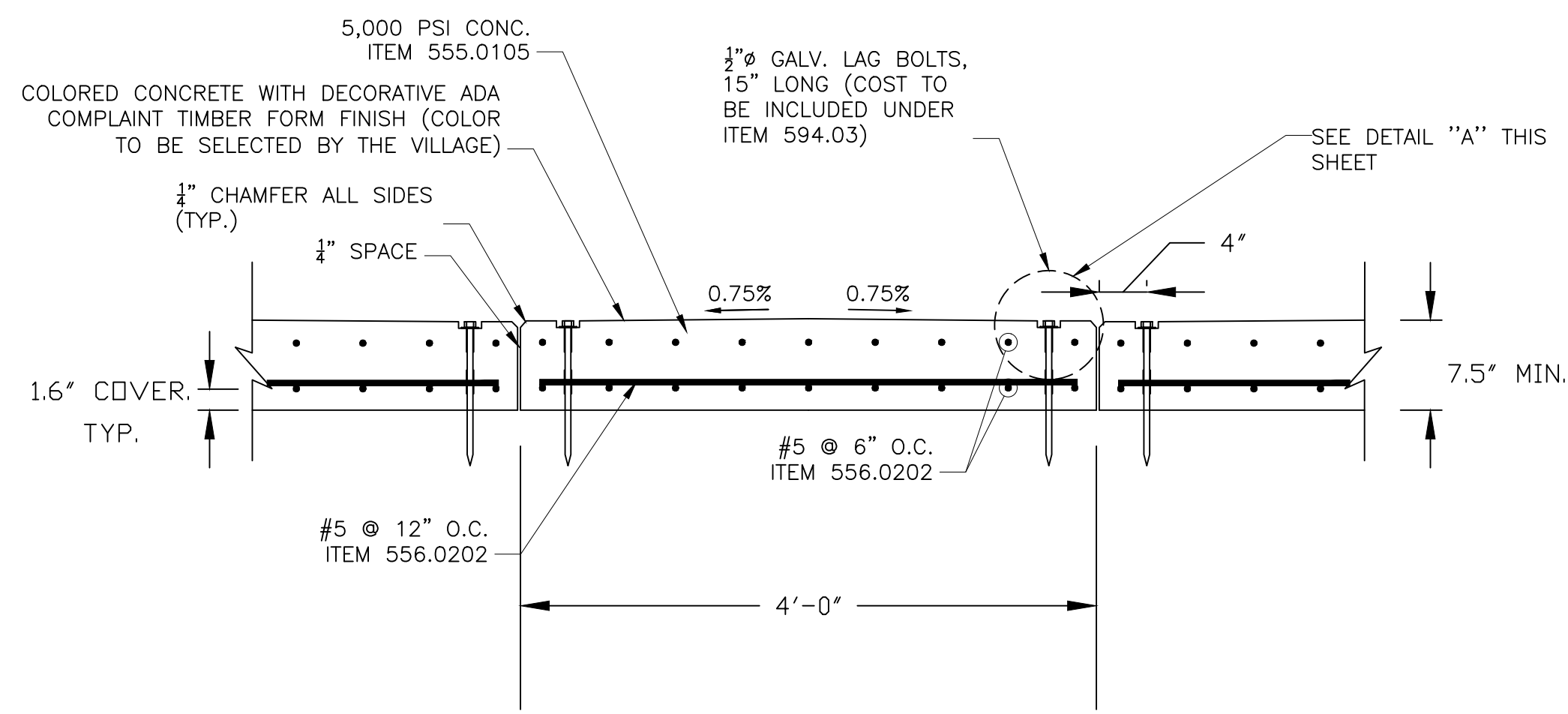
SIDE VIEW



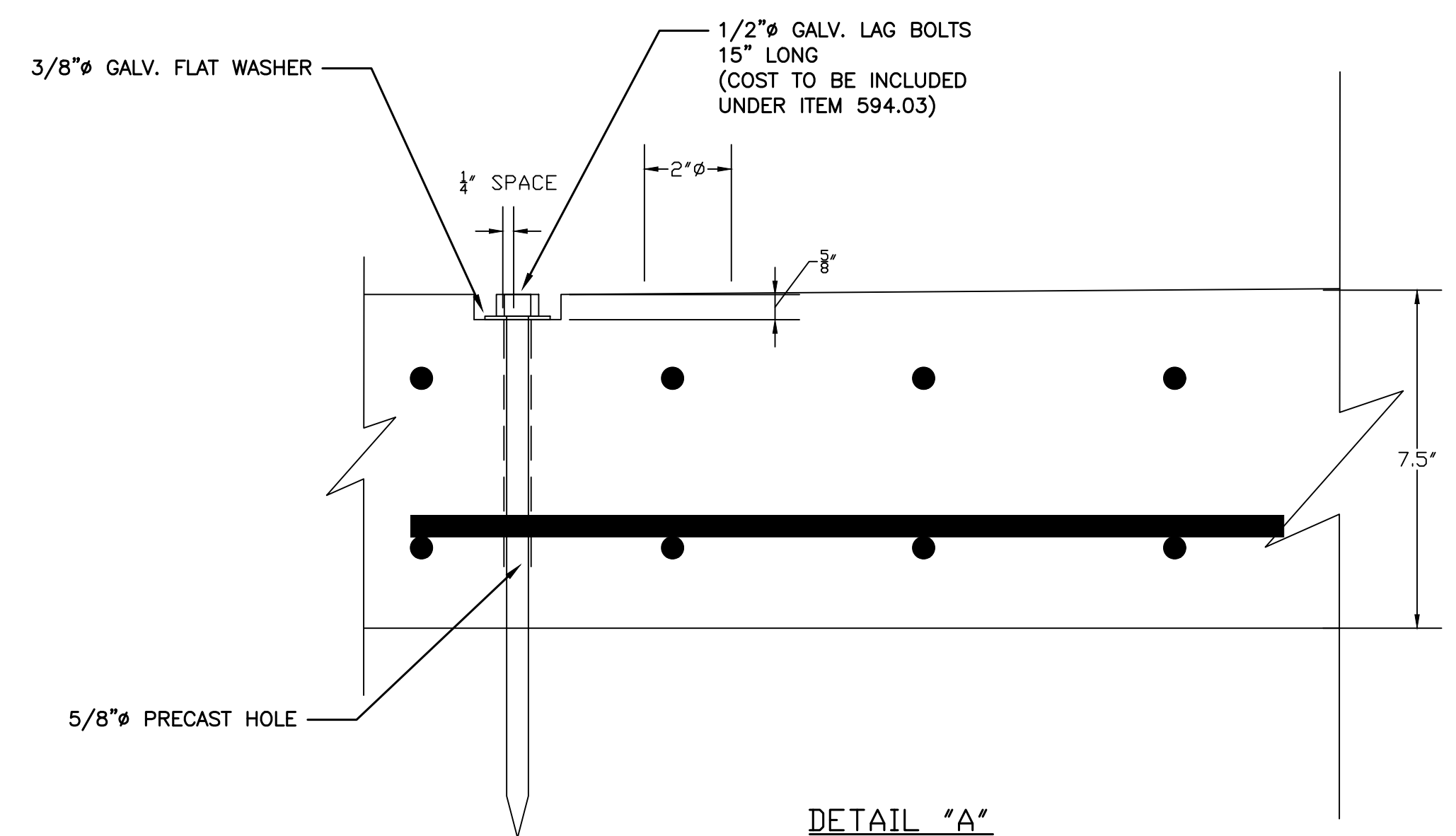
WAGON RACK DETAIL
N.T.S.

DATE	BY	DESCRIPTION	APPROV. BY
REVISIONS			
INCORPORATED VILLAGE OF OCEAN BEACH OCEAN BEACH, NEW YORK VILLAGE OF OCEAN BEACH FERRY TERMINAL IMPROVEMENTS- PHASE II MISCELLANEOUS DETAILS-3			
L. K. McLEAN ASSOCIATES, P.C. <small>CONSULTING ENGINEERS 437 SOUTH COUNTRY RD., BROOKHAVEN, NEW YORK 11719</small>			
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Drawn By:	RAC	Date: SEP 2019	11 OF 14
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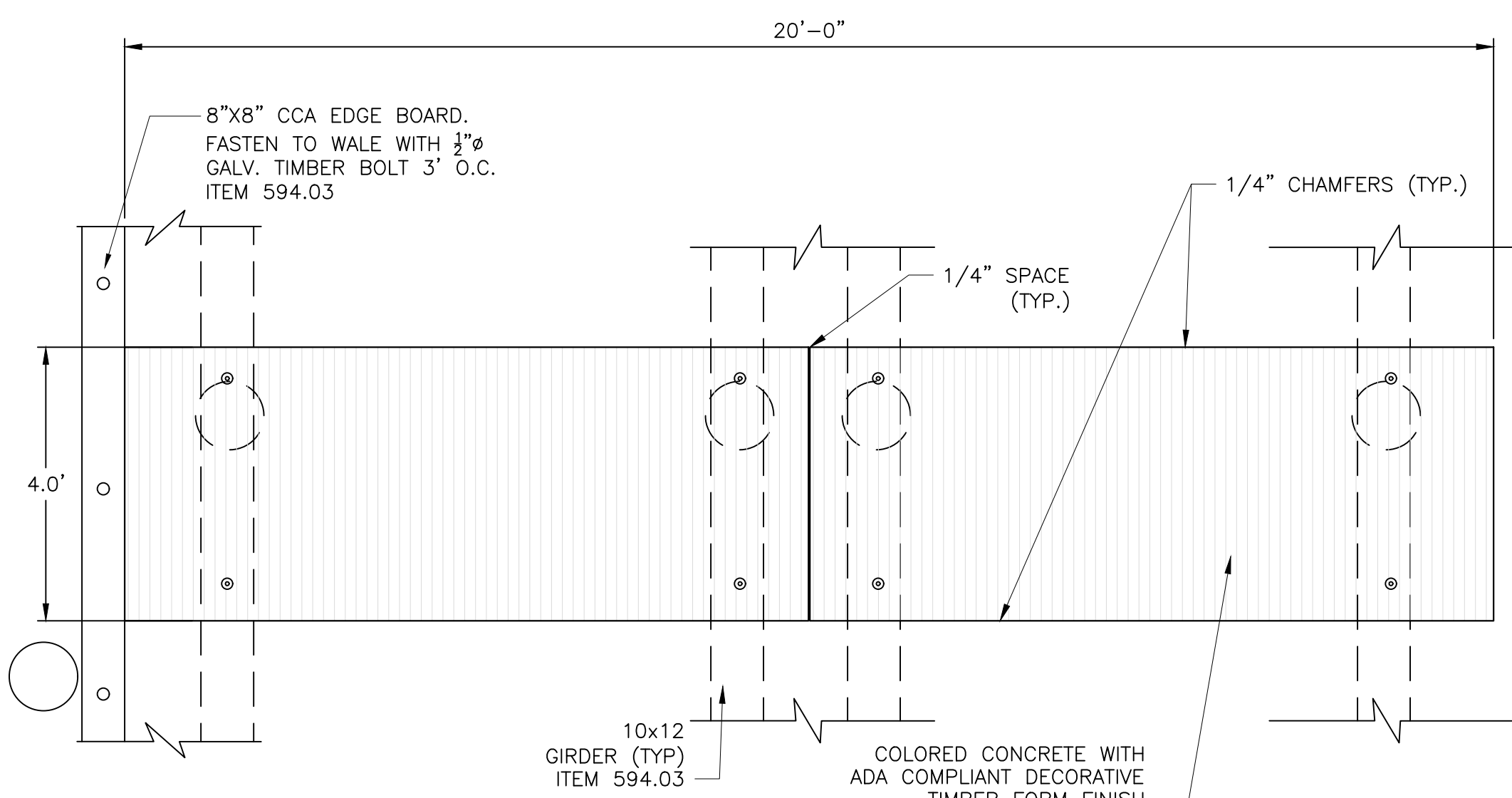
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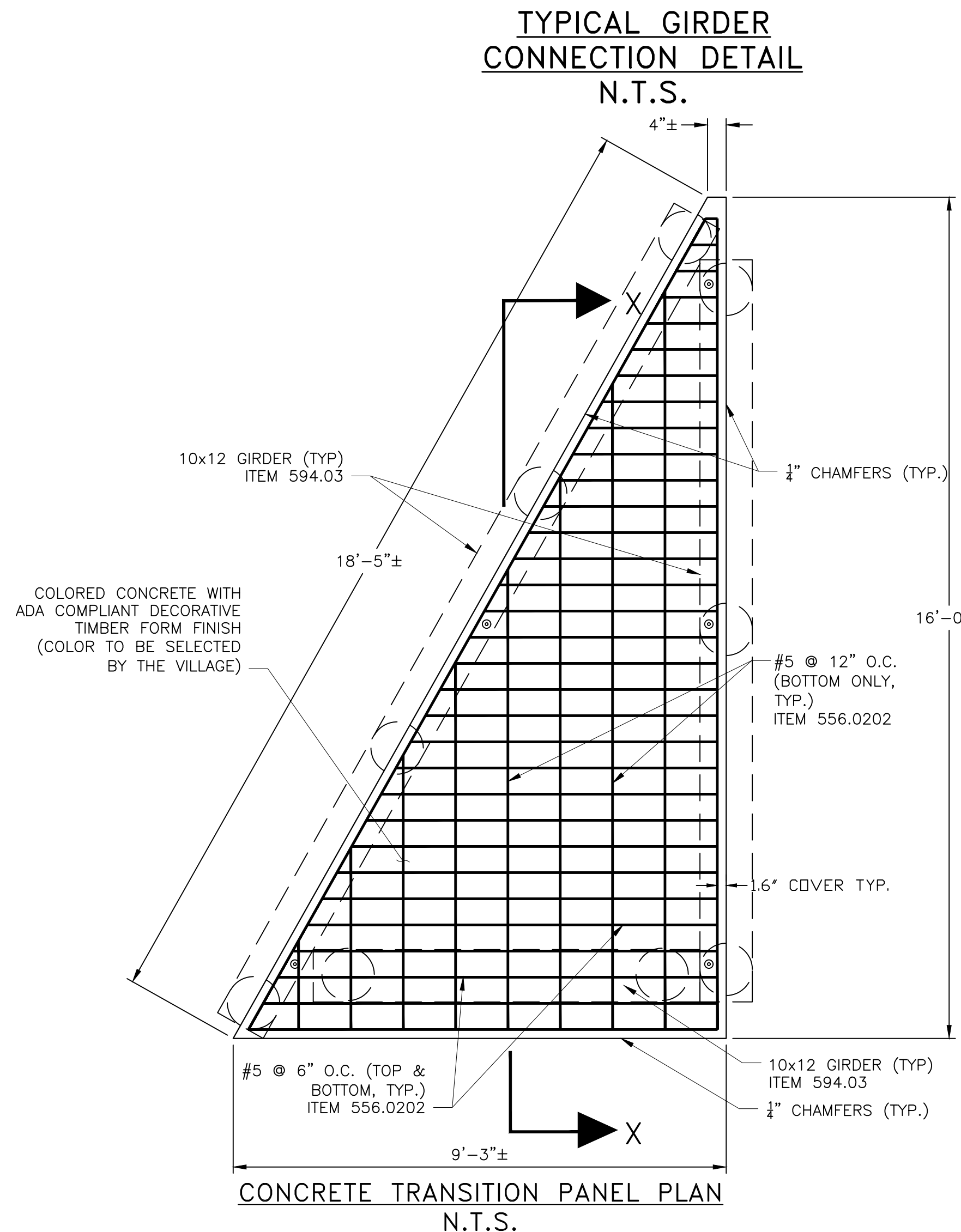
CONCRETE PANEL SECTION
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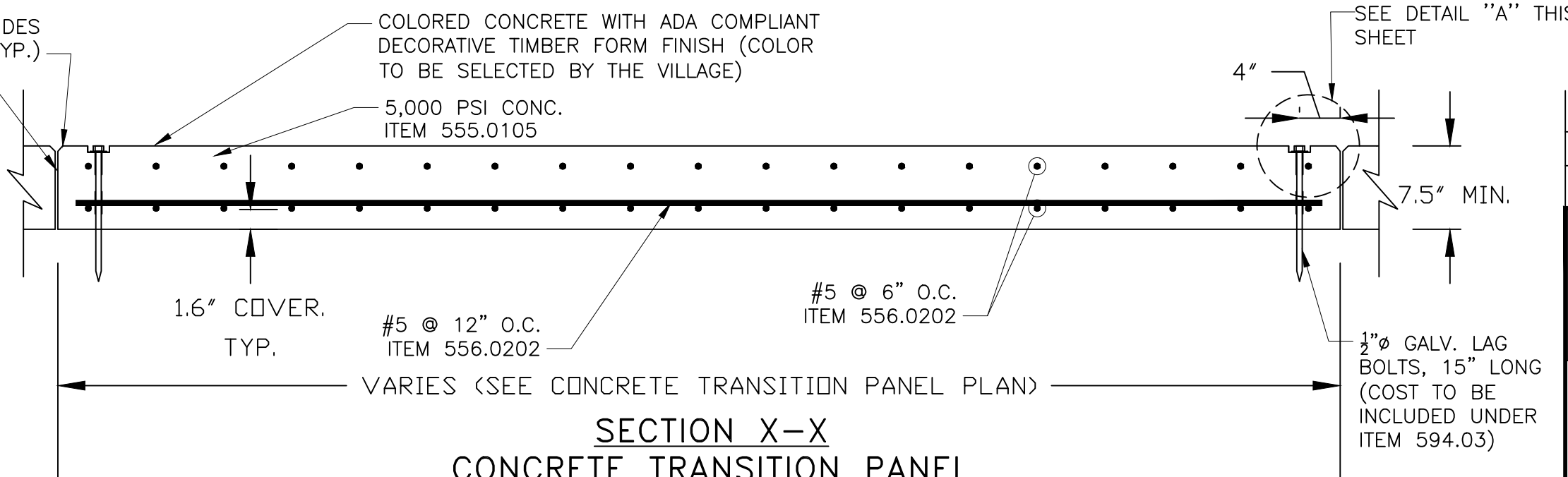
DETAIL "A"
N.T.S.



PLAN VIEW

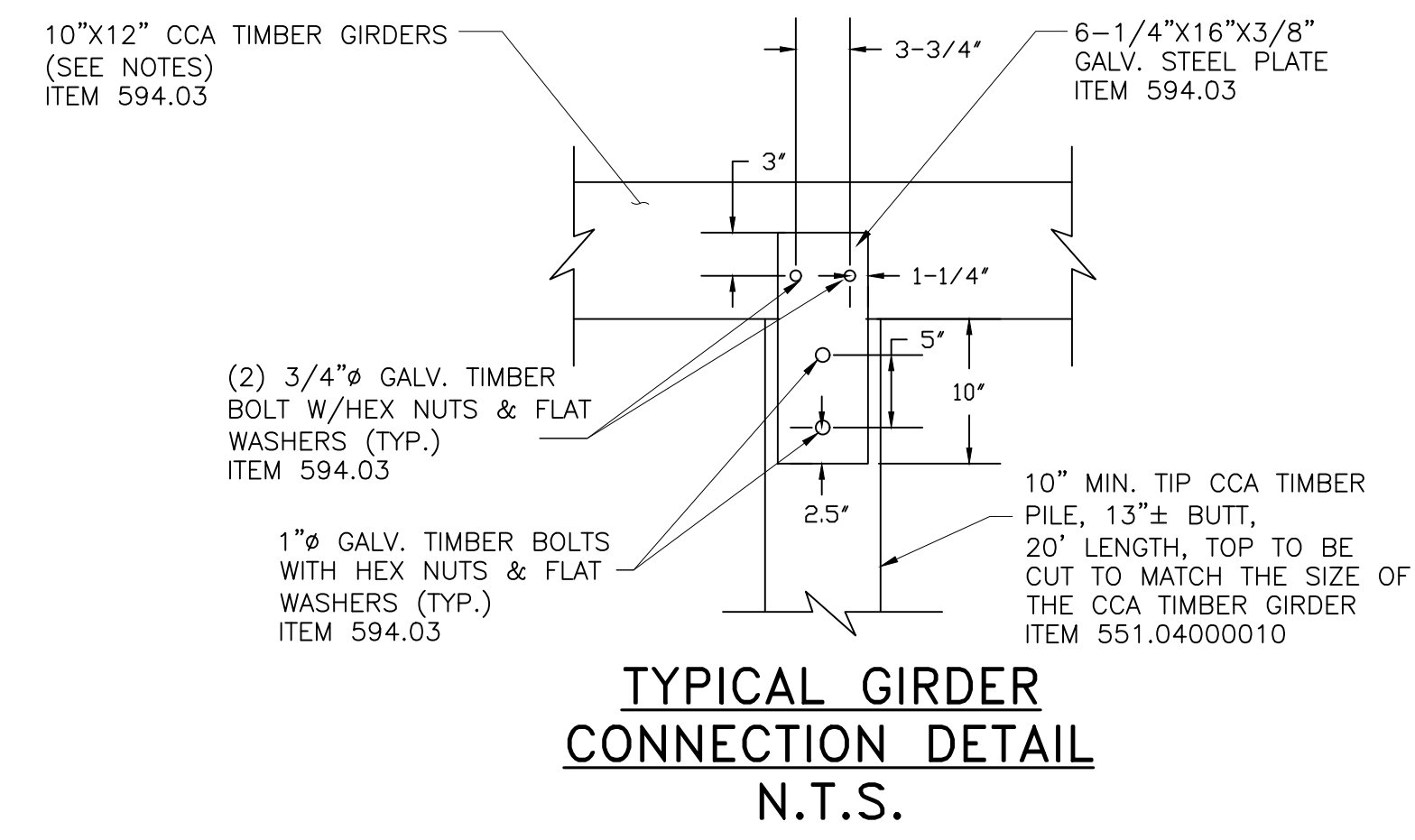


CONCRETE TRANSITION PANEL PLAN
N.T.S.

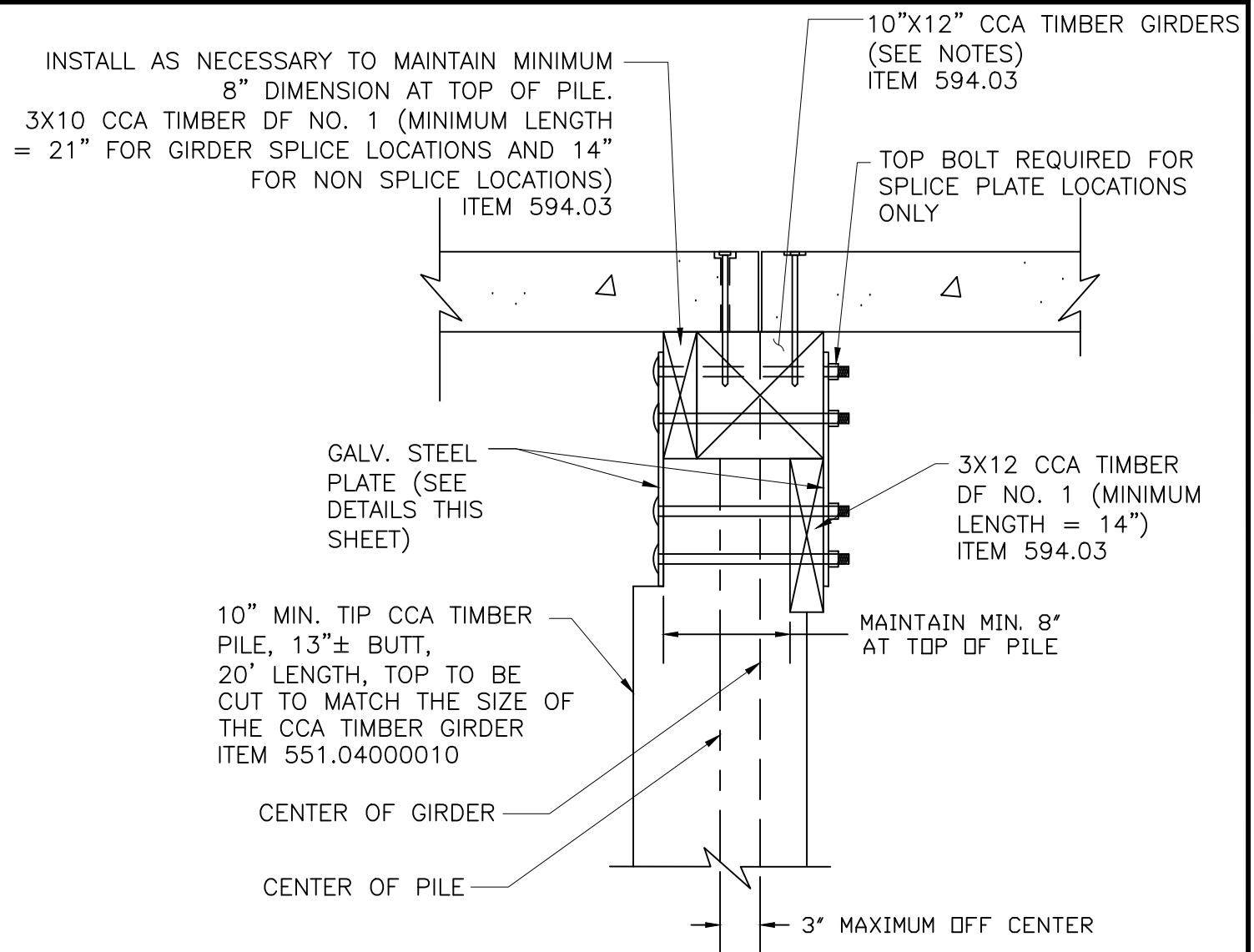


SECTION X-X
CONCRETE TRANSITION PANEL
N.T.S.

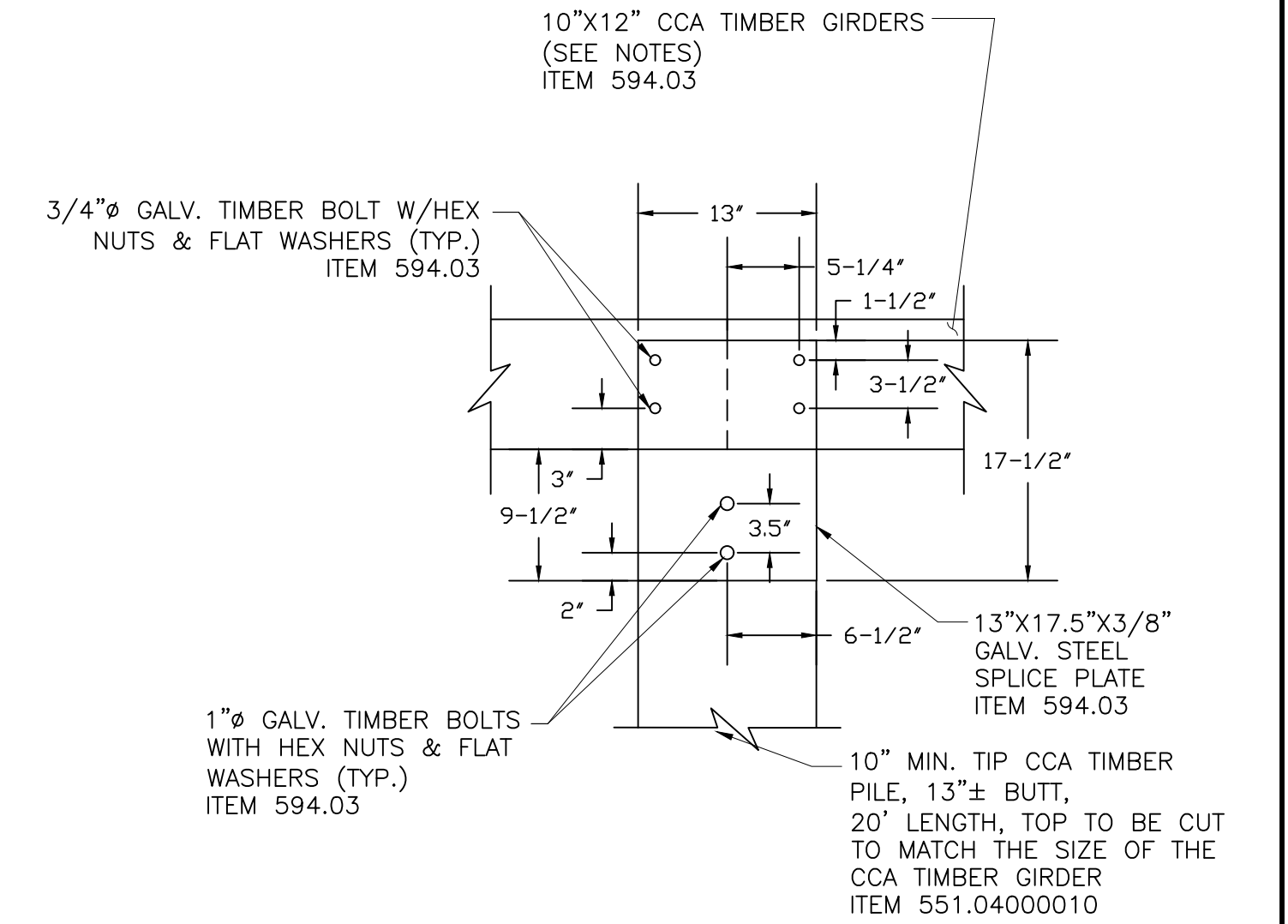
- NOTES:
- DIMENSIONS SHOWN ABOVE ARE APPROXIMATE AND SHALL BE FIELD VERIFIED. CONTRACTOR SHALL NOT ORDER PANEL SHOWN ABOVE UNTIL AFTER ALL OTHER PANELS HAVE BEEN INSTALLED. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEERS ATTENTION IMMEDIATELY.
 - SEE FREIGHT DOCK DECKING PLAN FOR INFORMATION NOT SHOWN.



TYPICAL GIRDER CONNECTION DETAIL
N.T.S.



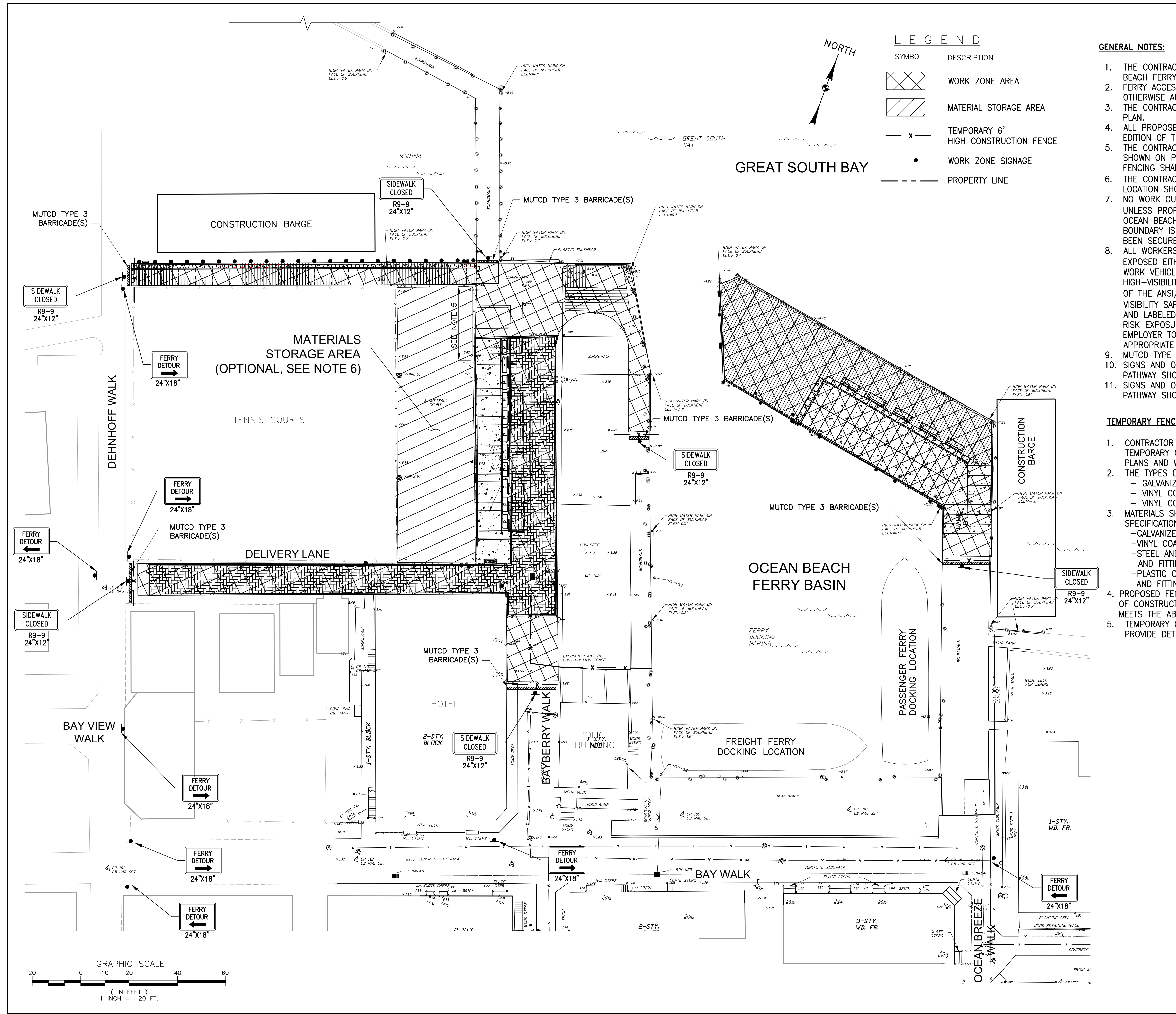
PILE ADJUSTMENT DETAIL
(AS NECESSARY)
N.T.S.



GIRDER SPLICE PLATE DETAIL
N.T.S.

DATE	BY	DESCRIPTION	APPROV. BY
REVISIONS			
INCORPORATED VILLAGE OF OCEAN BEACH OCEAN BEACH, NEW YORK VILLAGE OF OCEAN BEACH FERRY TERMINAL IMPROVEMENTS- PHASE II CONCRETE DECKING DETAILS			
L. K. McLEAN ASSOCIATES, P.C. CONSULTING ENGINEERS 437 SOUTH COUNTRY RD., BROOKHAVEN, NEW YORK 11719			
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LEGEND

SYMBOL	DESCRIPTION
	WORK ZONE AREA
	MATERIAL STORAGE AREA
	TEMPORARY 6' HIGH CONSTRUCTION FENCE
	WORK ZONE SIGNAGE
	PROPERTY LINE

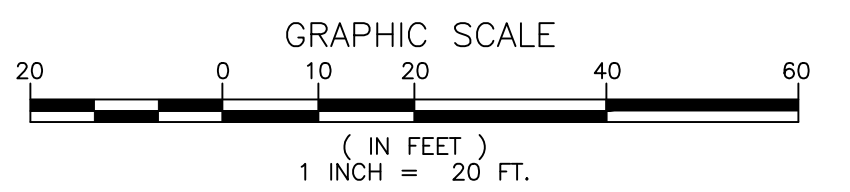
GENERAL NOTES:

1. THE CONTRACTOR SHALL NOT DOCK A BARGE OR ANY OTHER EQUIPMENT WITHIN THE OCEAN BEACH FERRY DOCK BASIN AT ANY POINT DURING CONSTRUCTION.
2. FERRY ACCESS SHALL NOT BE IMPEDED AT ANY POINT DURING CONSTRUCTION UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.
3. THE CONTRACTOR SHALL STORE EQUIPMENT AND MATERIALS AT LOCATIONS AS SHOWN ON THE PLAN.
4. ALL PROPOSED WORK ZONE SIGNAGE SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE NYSMUTCD.
5. THE CONTRACTOR IS PERMITTED TO REMOVE SECTIONS OF BASKETBALL COURT FENCING AS SHOWN ON PLAN, IN ORDER TO GAIN ACCESS FOR MATERIALS STORAGE. UPON COMPLETION, FENCING SHALL BE REPLACED IN-KIND.
6. THE CONTRACTOR SHALL STORE EQUIPMENT AND MATERIALS (EXCEPT SOIL MATERIAL) AT THE LOCATION SHOWN ON THE PLAN.
7. NO WORK OUTSIDE THE TERMINAL PROPERTY WILL BE PERMITTED UNDER ANY CIRCUMSTANCES UNLESS PROPERTY AND/OR EASEMENT RIGHTS ARE OBTAINED BY THE INCORPORATED VILLAGE OF OCEAN BEACH AND APPROVED BY NYS DOT. MINOR WALKWAY RESTORATION OUTSIDE THE HIGHWAY BOUNDARY IS ONLY PERMITTED AFTER A SIGNED RELEASE FROM THE PROPERTY OWNER HAS BEEN SECURED.
8. ALL WORKERS, INCLUDING EMERGENCY RESPONDERS, WITHIN THE RIGHT-OF-WAY WHO ARE EXPOSED EITHER TO TRAFFIC (VEHICLES USING THE HIGHWAY FOR PURPOSES OF TRAVEL) OR TO WORK VEHICLES AND CONSTRUCTION EQUIPMENT WITHIN THE TTC ZONE SHALL WEAR HIGH-VISIBILITY SAFETY APPAREL THAT MEETS THE PERFORMANCE CLASS 2 OR 3 REQUIREMENTS OF THE ANSI/ISEA 107-2004 PUBLICATION ENTITLED "AMERICAN NATIONAL STANDARD FOR HIGH VISIBILITY SAFETY APPAREL AND HEADWEAR" (SEE SECTION 1A.11), OR EQUIVALENT REVISIONS, AND LABELED AS MEETING THE ANSI 107-2004 STANDARD PERFORMANCE FOR CLASS 2 OR 3 RISK EXPOSURE, EXCEPT AS PROVIDED IN PARAGRAPH 5. A PERSON DESIGNATED BY THE EMPLOYER TO BE RESPONSIBLE FOR WORKER SAFETY SHALL MAKE THE SELECTION OF THE APPROPRIATE CLASS OF GARMENT.
9. MUTCD TYPE 3 BARRICADES SHALL BE PLACED AT THE LOCATIONS SHOWN ON THE PLANS.
10. SIGNS AND OTHER DEVICES MOUNTED LOWER THAN 7 FEET ABOVE THE TEMPORARY PEDESTRIAN PATHWAY SHOULD NOT PROJECT MORE THAN 4 INCHES INTO ACCESSIBLE PEDESTRIAN FACILITIES.
11. SIGNS AND OTHER DEVICES MOUNTED LOWER THAN 7 FEET ABOVE THE TEMPORARY PEDESTRIAN PATHWAY SHOULD NOT PROJECT MORE THAN 4 INCHES INTO ACCESSIBLE PEDESTRIAN FACILITIES.

TEMPORARY FENCE NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, ERECTING, MOVING AND REMOVING 6' TEMPORARY CHAIN LINK FENCING AND METAL GATES AT THE LOCATIONS SHOWN ON THE PLANS AND WHERE DIRECTED BY THE ENGINEER.
2. THE TYPES OF THE FENCES TO BE USED MAY BE ONE OF THE FOLLOWING:
 - GALVANIZED STEEL CHAIN-LINK FENCING ON STEEL FRAME
 - VINYL COATED STEEL CHAIN-LINK FENCING ON STEEL FRAME
 - VINYL COATED STEEL CHAIN-LINK FENCING ON PLASTIC COATED FRAME FENCE GATES
3. MATERIALS SHALL CONFORM TO THE FOLLOWING SECTIONS OF THE NYS DOT STANDARD SPECIFICATIONS:

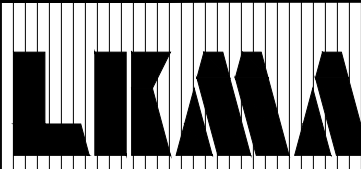
- GALVANIZED STEEL FENCE FABRIC	710-02
- VINYL COATED STEEL FENCE FABRIC	710-03
- STEEL AND IRON POSTS, RAILS, BRACES AND FITTINGS FOR CHAIN-LINK FENCE	710-10
- PLASTIC COATED POSTS, RAILS, BRACES AND FITTINGS FOR CHAIN-LINK FENCE	710-12
4. PROPOSED FENCING SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO START OF CONSTRUCTION. CONTRACTOR MAY ELECT TO USE PORTABLE TEMPORARY FENCING THAT MEETS THE ABOVE REQUIREMENTS.
5. TEMPORARY CHAIN LINK FENCING SHALL BE EQUIPPED WITH A CONTINUOUS BOTTOM RAIL TO PROVIDE DETECTABLE EDGING FOR PEDESTRIANS.



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INCORPORATED VILLAGE OF OCEAN BEACH OCEAN BEACH, NEW YORK VILLAGE OF OCEAN BEACH FERRY TERMINAL IMPROVEMENTS- PHASE II			
WORK ZONE TRAFFIC CONTROL PLAN			
L. K. McLEAN ASSOCIATES, P.C.			
CONSULTING ENGINEERS 437 SOUTH COUNTRY RD., BROOKHAVEN, NEW YORK 11719			
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Drawn By:	RAC	Date: SEP 2019	13 OF 14
Approved By:	RAS	File No. 19018.000	

Sep 17, 2019 - 11:14am
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ITEMS	DESCRIPTION OF WORK	UNIT	ESTIMATED QUANTITY
202.120001	Remove Existing Superstructure (West Boardwalk)	LS	1
202.120002	Remove Existing Superstructure (North Freight Dock)	LS	1
202.19	Removal of Substructures	CY	63
203.02	Unclassified Excavation	CY	250
203.05	Select Borrow Fill	CY	70
203.07	Select Granular Fill	CY	300
207.21	Geotextile Separation	SY	460
304.10119917	Subbase Course, Type 1011-2	CY	25
520.05000010	Saw Cutting Portland Cement Concrete and Composite Pavements	LF	40
551.04000010	CCA Treated Piles	LF	4,450
551.92000010	Removal of Piles	EA	18
552.11	Permanent Steel Sheeting	SF	5,500
555.0105	Concrete for Structures, Class A	CY	42
556.0202	Epoxy Coated Bar Reinforcement for Structures	LB	9,600
570.86020010	Epoxy Paint System for Steel Sheeting	SF	10,600
594.01	Timber and Lumber	CF	755
594.03	Treated Timber and Lumber	CF	2,200
608.0101	Concrete Sidewalk and Driveways	CY	25
608.12	Precast Concrete Block Paved Sidewalks and Driveways	SY	460
609.04000010	Concrete Curb, Type A	LF	615
610.1404	Topsoil - Special Planting Mix	CY	22
615.08010005	Bench Type 1	EA	5
615.99000110	Planters, Type 01	EA	24
619.01	Basic Work Zone Traffic Control	LS	1
622.24068008	Prefabricated Bus Shelter	LS	1
623.10	Screened Gravel (In-Place Measure)	CY	85
623.12	Crushed Stone (In-Place Measure)	CY	120
625.01	Survey Operations	LS	1
661.01000108	Reestablish Electrical Service to Customers	LS	1
663.0705	Polyethylene Water Service Pipe 1-1/4"	LF	160
699.040001	Mobilization	LS	1

DATE	BY	DESCRIPTION	APPROV. BY
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 INCORPORATED VILLAGE OF OCEAN BEACH OCEAN BEACH, NEW YORK VILLAGE OF OCEAN BEACH FERRY TERMINAL IMPROVEMENTS- PHASE II			
TABLE OF ITEMS			
L. K. McLEAN ASSOCIATES, P.C. <small>CONSULTING ENGINEERS 437 SOUTH COUNTRY RD., BROOKHAVEN, NEW YORK 11719</small>			
Designed By:	KJM	Scale: AS NOTED	Sheet No.
Drawn By:	RAC	Date: SEP 2019	14 OF 14
Approved By:	RAS	File No. 19018.000	