PORT OF TACOMA

NIM CROSSING PANEL REPAIRS PROJECT NO. 201141.01 CONTRACT NO. 071721

PORT COMMISSIONERS:

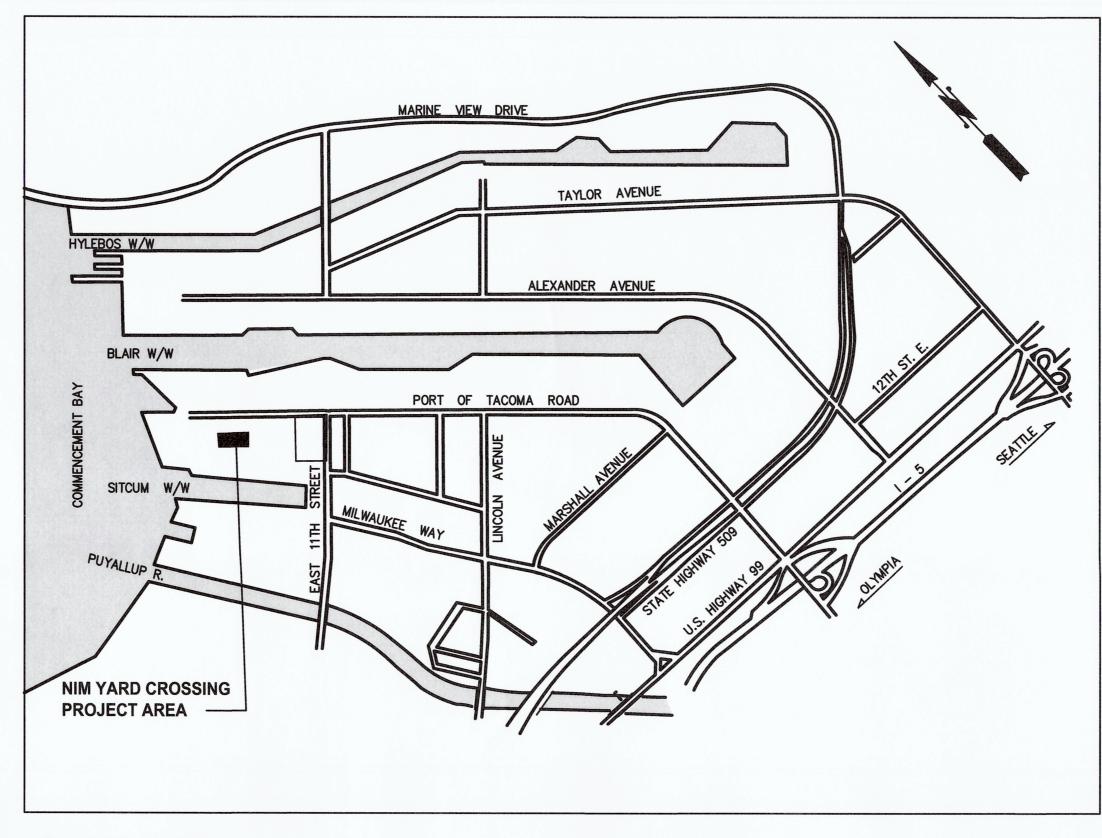
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SHEET INDEX:

SHEET#	SHEET DESIGNATION	SHEET TITLE
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2	R1	SITE PLAN
3	R2	EXISTING CONDITION SECTIONS
4	R3	EXISTING CONDITION PHOTOS
5	R4	SECTION DETAILS
6	R5	RAIL DETAILS





Tacoma

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ROVED:

TJH 07/01/2022

CHECKED BY DATE

SWK 07/11/2022

SWK 07/11/2022

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TED BY: thelbig Jul 11, 2022

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NIM CROSSING PANEL REPAIRS

COVER SHEET

COVER SHEET

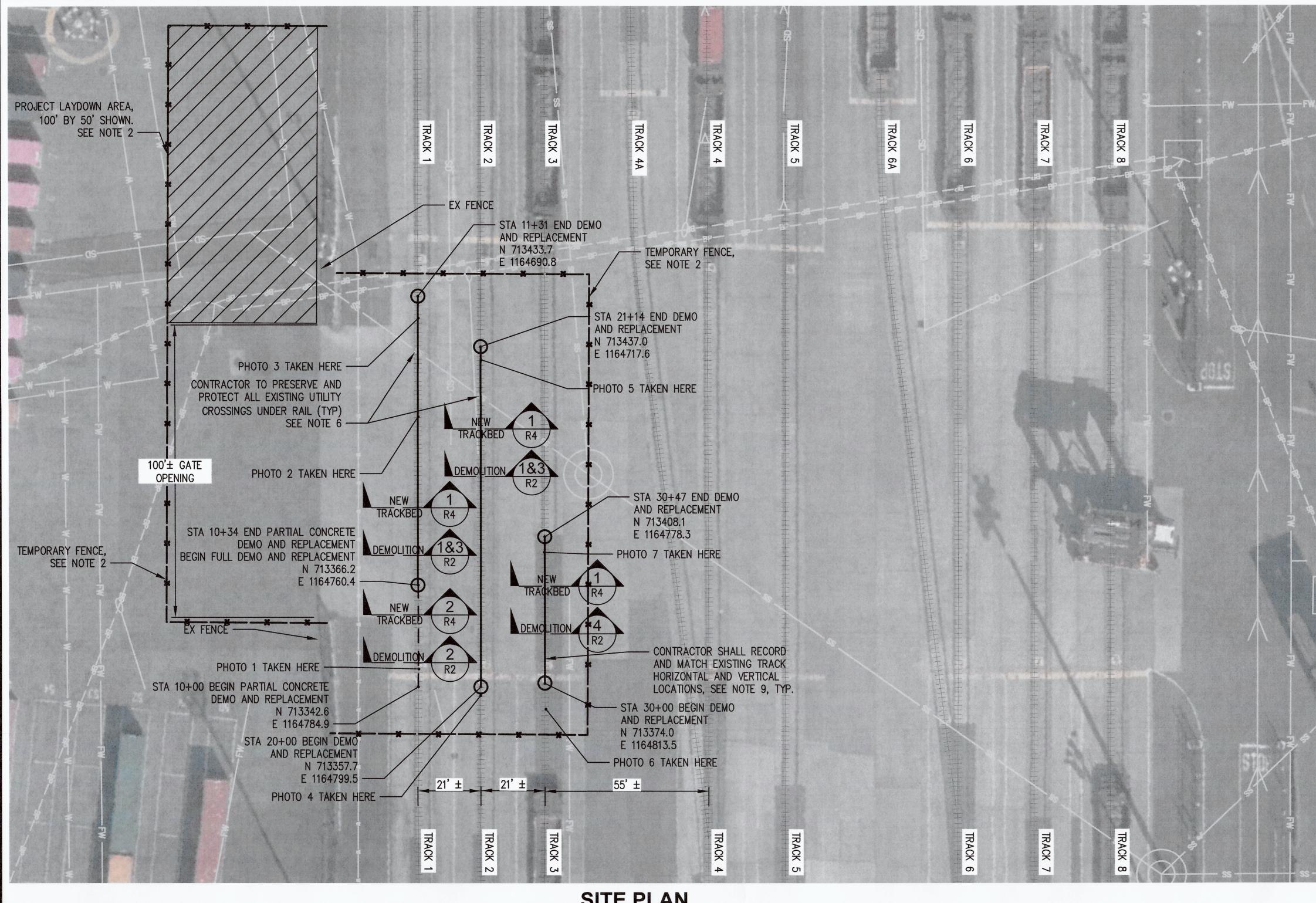
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RANGE: 03E

W83-SF

VERT: PORT OF TACOMA

SHEET 1 OF 6 1/CONS: 071721 0: 201141.01



SITE PLAN
SCALE: 1" = 20'

LEGEND

EXISTING RAIL, SEE NOTE 9

PARTIAL CONCRETE DEMO AND REPLACEMENT, SEE DETAIL 2 ON SHEET R2

> REMOVE EXISTING TRACK AND INSTALL NEW TRACK, SEE DETAILS 1, 3, AND 4 ON SHEET R2

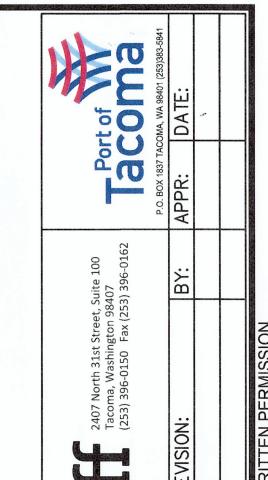
CONTRACTOR LAYDOWN AND STAGING AREA

WELDED JOINT TO EX RAIL, SEE NOTE 3

TEMPORARY FENCE

NOTES

- SEE SHEETS R2 THROUGH R3 FOR EXISTING TRACKBED SECTIONS AND PHOTOS. SEE DETAIL 1 ON SHEET R4 FOR THE PROPOSED TRACKBED SECTION.
- 2. TRACK REPLACEMENTS ARE WITHIN AN ACTIVE YARD. CONTRACTOR SHALL CONFINE OPERATIONS AND STAGING TO THE LAYDOWN AREA SHOWN ON THE PLANS. LAYDOWN AND TEMPORARY FENCING LIMITS SHALL BE CONFIRMED WITH PORT IN THE FIELD. CONTRACTOR SHALL YIELD TO RAIL TRAFFIC AT ALL TIMES, AND SHALL BE REQUIRED TO COORDINATE WORK ON A WEEKLY AND DAILY BASIS WITH TERMINAL OPERATIONS AND LONGSHORE.
- 3. ALL EXISTING RAIL IS ASSUMED TO BE 115 LB RAIL. CONTRACTOR TO CONFIRM IN FIELD. TRACKS 1 AND 2 ARE WELDED RAIL, TRACK 3 IS JOINTED RAIL. FOR BIDDING, CONTRACTOR SHALL ASSUME WELDED JOINTS AT THE CONNECTIONS TO EXISTING RAIL ARE BETWEEN THE SAME SIZE RAIL SECTIONS. CONTRACTOR SHALL INCLUDE A UNIT COST FOR A COMPROMISE WELDED JOINT IN THE EVENT THAT A RAIL SIZE OTHER THAN 115 LB IS ENCOUNTERED AT THE CONNECTION LOCATIONS.
- 4. ALL NEW RAIL SHALL BE 115 LB WELDED RAIL, UNO.
- 5. ALL NEW TRACK TIES ARE STEEL, SEE R5 FOR STANDARD DETAILS.
- 6. ALL LOCATIONS OF EXISTING IMPROVEMENTS SHOWN ARE FROM AVAILABLE GIS RECORDS AND SHOULD BE CONSIDERED APPROXIMATE AND NOT NECESSARILY COMPLETE. THE CONTRACTOR SHALL FIELD VERIFY ALL IMPROVEMENTS AND EXISTING UTILITIES.
- 7. CONTRACTOR SHALL MAINTAIN AND PROTECT ALL SITE IMPROVEMENTS NOT OTHERWISE NOTED FOR DEMOLITION. CONTRACTOR SHALL REPAIR OR REPLACE ALL ITEMS DAMAGED BY CONSTRUCTION AT NO ADDITIONAL COST TO THE PORT.
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EMPLOYING THE NECESSARY BMPS AS NEEDED TO PREVENT SEDIMENT LADEN RUNOFF FROM LEAVING THE SITE OR ENTERING THE STORM DRAIN SYSTEM.
- 9. CONTRACTOR SHALL BE RESPONSIBLE FOR MATCHING THE HORIZONTAL AND VERTICAL LOCATION OF EXISTING TRACK WORK FOR ALL NEW TRACK WORK. AT A MINIMUM, PRIOR TO DEMOLITION, THE CONTRACTOR SHALL INSTALL SURVEY PINS AT 20' INTERVALS OFFSET 15' FROM TRACK CENTERLINE AND RECORD EXISTING TOP OF RAIL ELEVATIONS, EACH PIN SHALL HAVE UNIQUE NUMBERS CORRESPONDING TO THAT LOCATION'S HORIZONTAL POSITION AND ELEVATION. ALL INFORMATION SHALL BE MADE AVAILABLE TO THE PORT AT THEIR REQUEST. VERTICAL CONTROL SURVEY OF FINISHED TOP OF RAIL SHALL BE SUBMITTED TO THE PORT FOR REVIEW AND APPROVAL. SUBMITTAL SHALL INCLUDE A TABLE COMPARING EXISTING SURVEYED DATA TO AS CONSTRUCTED TOP OF RAIL ELEVATIONS AT SAME INTERVAL ABOVE.
- 10. (NOT IN CONTRACT). SEE PHOTOS ON SHEET R3 FOR STRIPING AND PAVEMENT MARKING REPLACEMENT REQUIREMENTS. STRIPING AND PAVEMENT MARKING TO BE COMPLETED BY PORT MAINTENANCE UPON COMPLETION OF CONTRACT WORK.

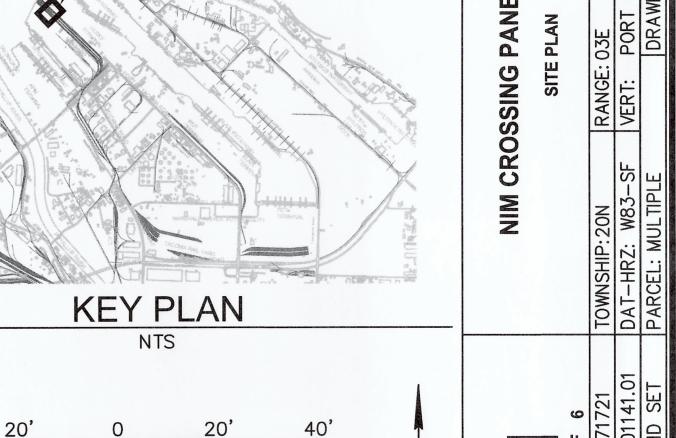


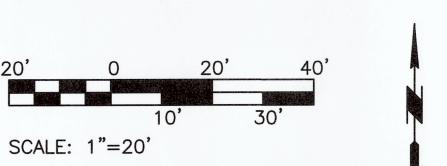


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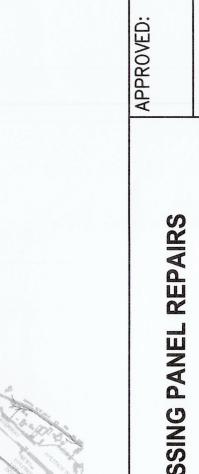
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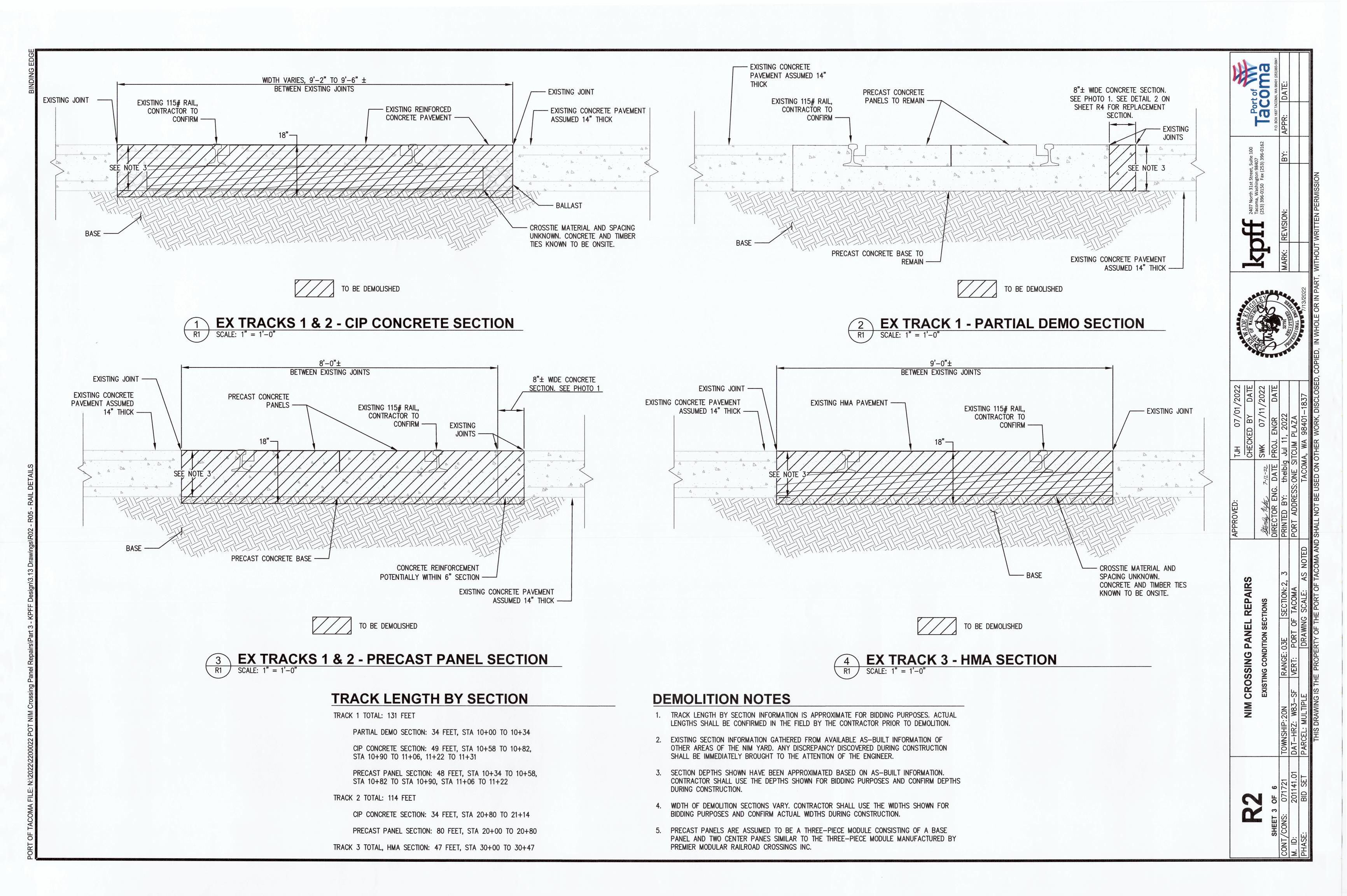


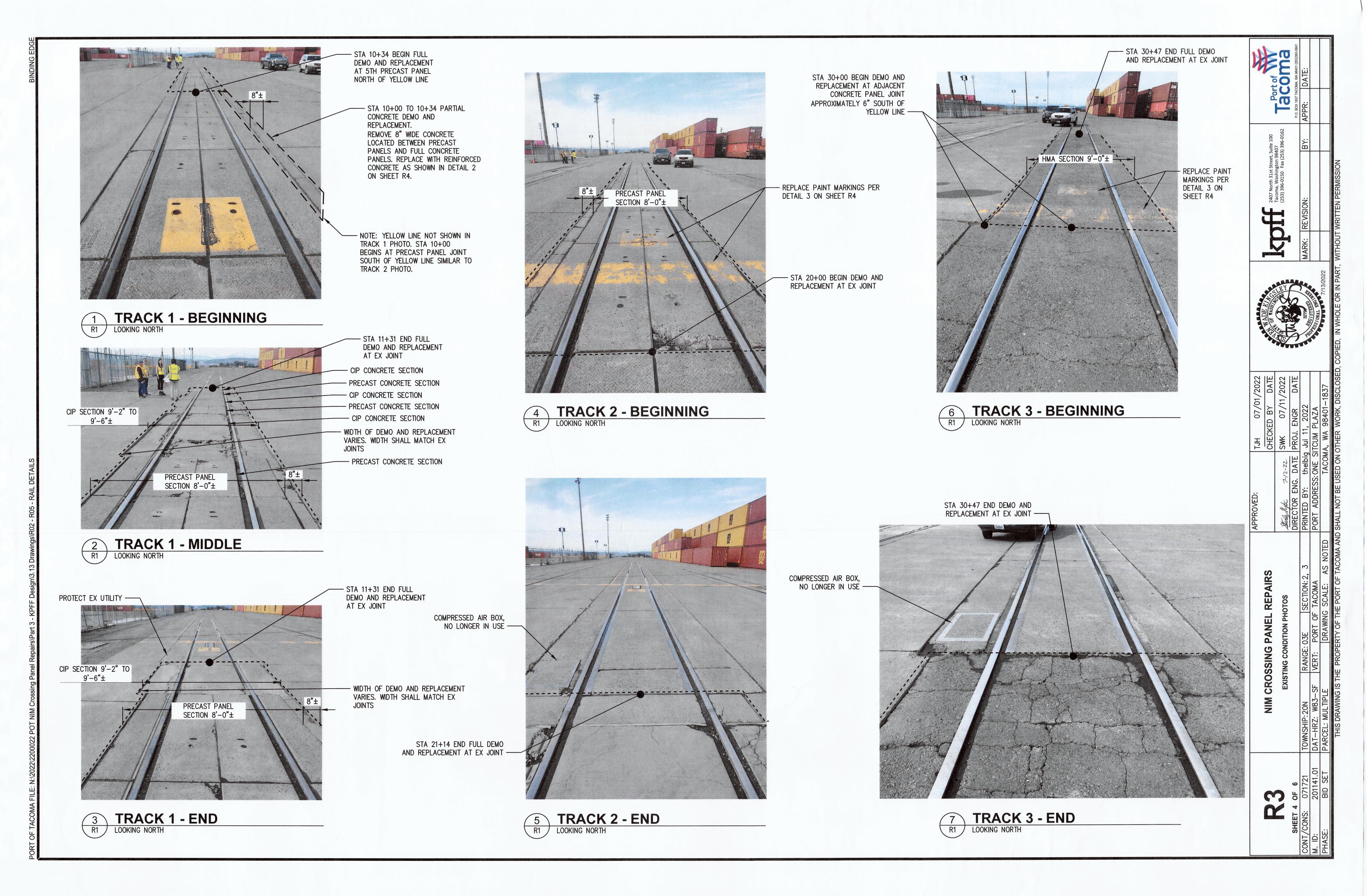


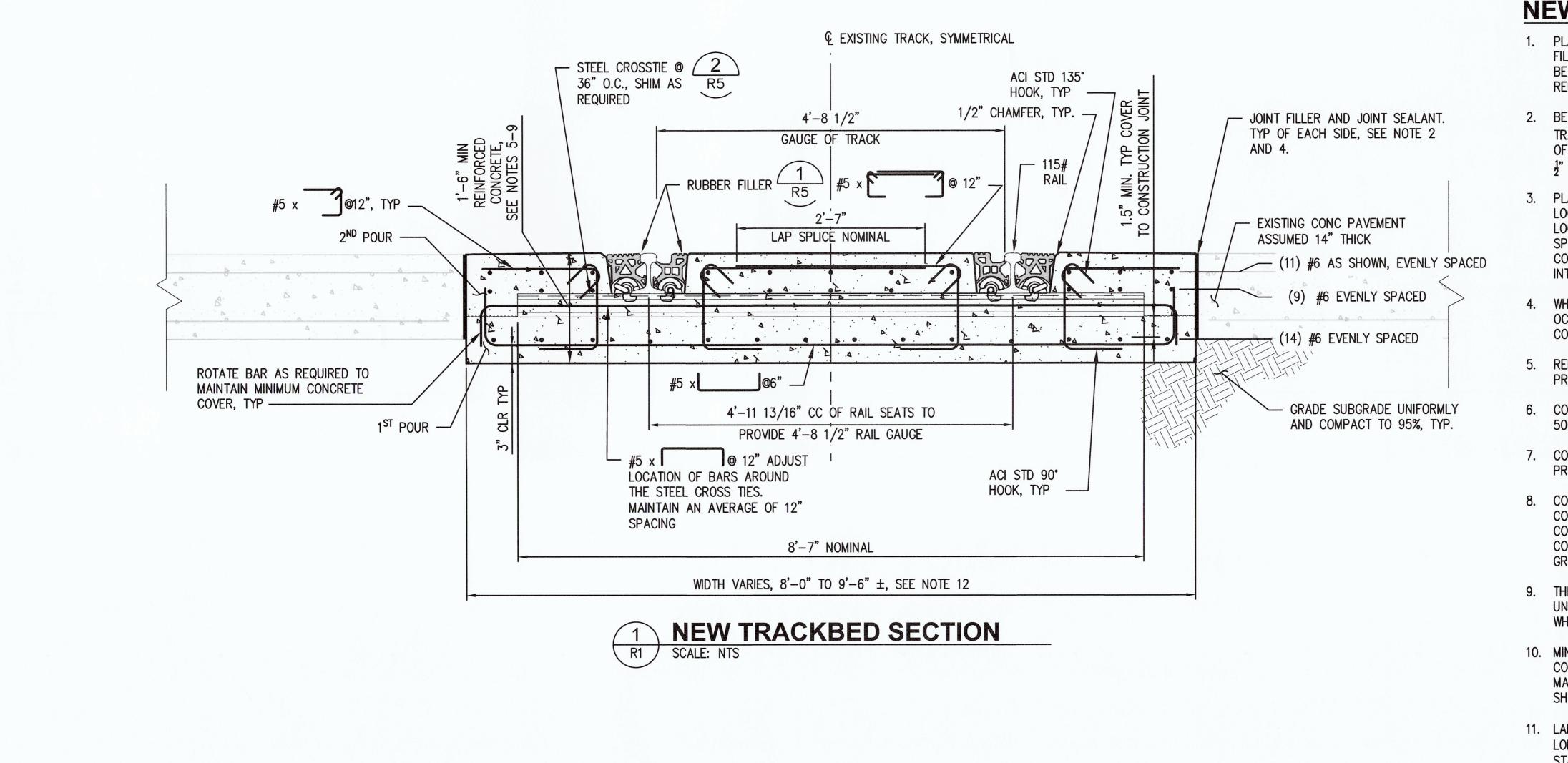


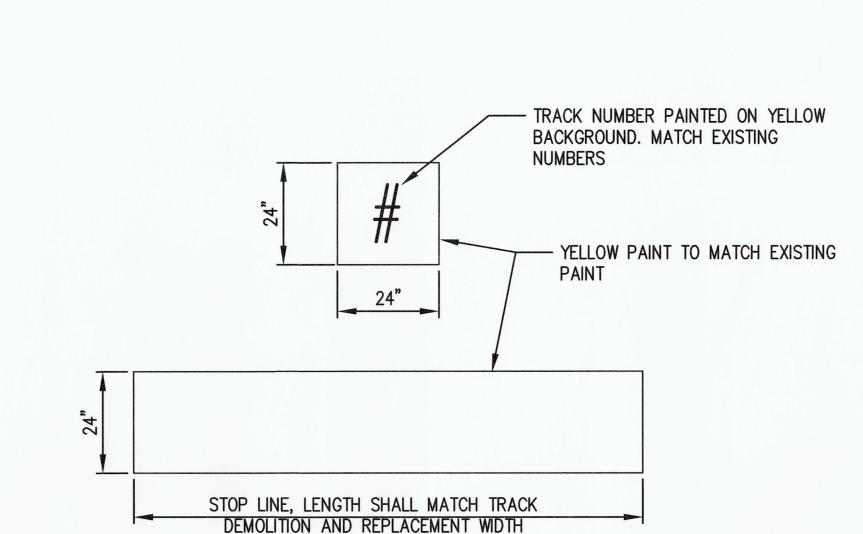
NIM YARD WORK AREA











DETAIL 3 NOT IN CONTRACT. PAINT AND STRIPING WORK TO BE COMPLETED BY PORT MAINTENANCE AFTER CONTRACT WORK IS COMPLETE.



NEW SECTION NOTES

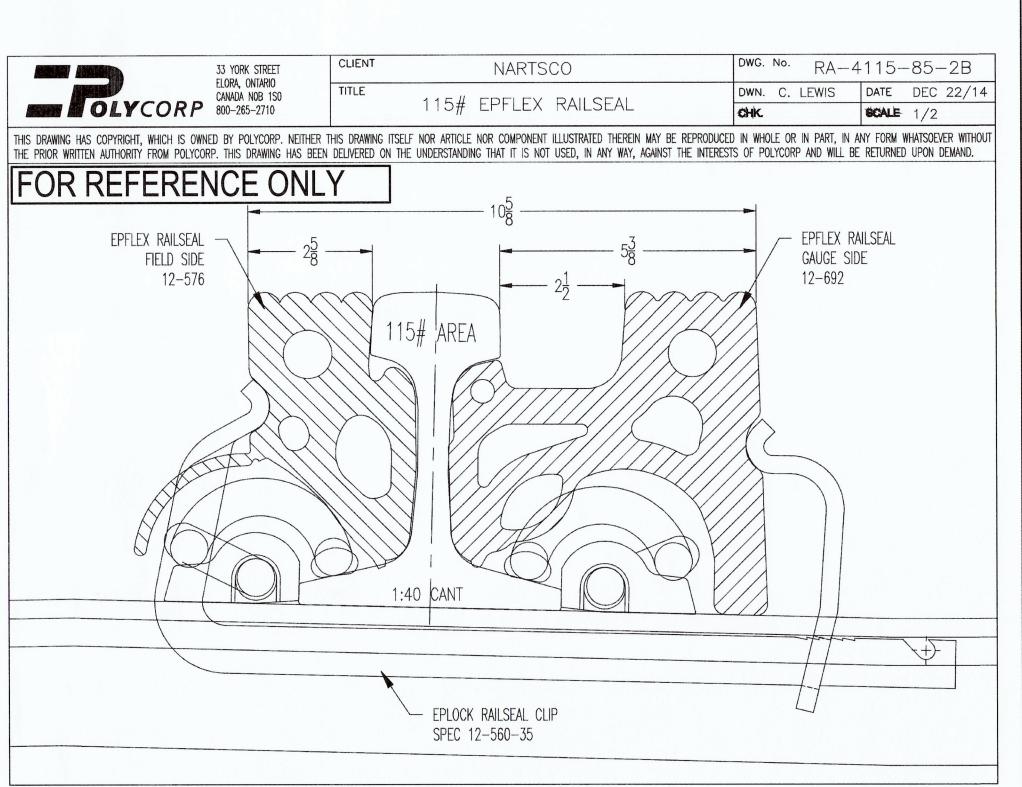
- 1. PLACE ONE (1) $\frac{1}{2}$ " X 1 $\frac{1}{2}$ " TO 2" DEPTH EXPANSION JOINT FILLER PER TRACK LOCATED APPROXIMATELY HALF WAY BETWEEN THE BEGINNING AND END OF TRACKBED REPLACEMENT.
- 2. BETWEEN EXISTING PAVEMENT AND NEW CONCRETE TRACKBED, PLACE JOINT SEALANT BEAD 1 BELOW THE TOP OF THE CONCRETE SURFACE. BELOW JOINT SEALANT, PLACE ½" X FULL DEPTH JOINT FILLER.
- 3. PLACE TRANSVERSE CONSTRUCTION JOINTS AT ALL LOCATIONS WHERE NEW TRACKBED SECTION CHANGES WIDTH. LOCATE AND CONSTRUCT CONTRACTION JOINTS EVENLY SPACED BETWEEN CONSTRUCTION JOINTS SUCH THAT A CONTRACTION JOINT OR CONSTRUCTION JOINT OCCURS AT AN INTERVAL OF NOT MORE THAN 20 FEET.
- 4. WHERE SPALLING ON EXISTING PAVEMENT SURFACE HAD OCCURED, CLEAN SURFACE, EPOXY AND PATCH TO SMOOTH
- 5. REBAR SHOP DRAWINGS SHALL BE REVIEWED AND APPROVED PRIOR TO FABRICATION.
- 6. CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI AT 28 DAYS SHALL BE USED.
- 7. CONCRETE SHALL ACHIEVE 4000 PSI COMPRESSIVE STRENGTH PRIOR TO OPENING TRACKS TO TRAIN OPERATIONS.
- 8. CONTRACTOR MAY CONSIDER USE OF HIGH EARLY STRENGTH CONCRETE. IF HIGH EARLY STRENGTH CONCRETE IS USED, CONCRETE SHALL CURE FOR 3 DAYS OR UNTIL 4000 PSI COMPRESSIVE STRENGTH IS ACHIEVED, WHICHEVER IS GREATER, BEFORE OPENING TRACKS TO TRAIN OPERATIONS.
- 9. THE FIRST POUR OF CONCRETE SHALL CURE FOR 2 DAYS OR UNTIL 60% OF 28 DAY COMPRESSIVE STRENGTH IS ACHIEVED, WHICHEVER IS GREATER, BEFORE SECOND POUR IS PLACED.
- 10. MINIMUM DIMENSION IS ASSUMED TO MATCH EXISTING CONDITIONS IN THE YARD. THE DEPTH SHALL BE REVISED TO MATCH EXISTING IF IT IS FOUND TO BE GREATER THAN
- 11. LAP SPLICE #6 BARS 3'-1". NO MORE THAN 50% OF THE LONGITUDINAL BARS MAY BE SPLICED AT A LOCATION. STAGGER ADJACENT BAR SPLICE BY A MINIMUM OF 3'-1".
- 12. FOR PRECAST PANEL DEMOLITION AND REPLACEMENT AREAS, CONTRACTOR SHALL TORCH CUT TIES TO PROVIDE 3" CLEAR ON BOTH SIDES OF TIE.

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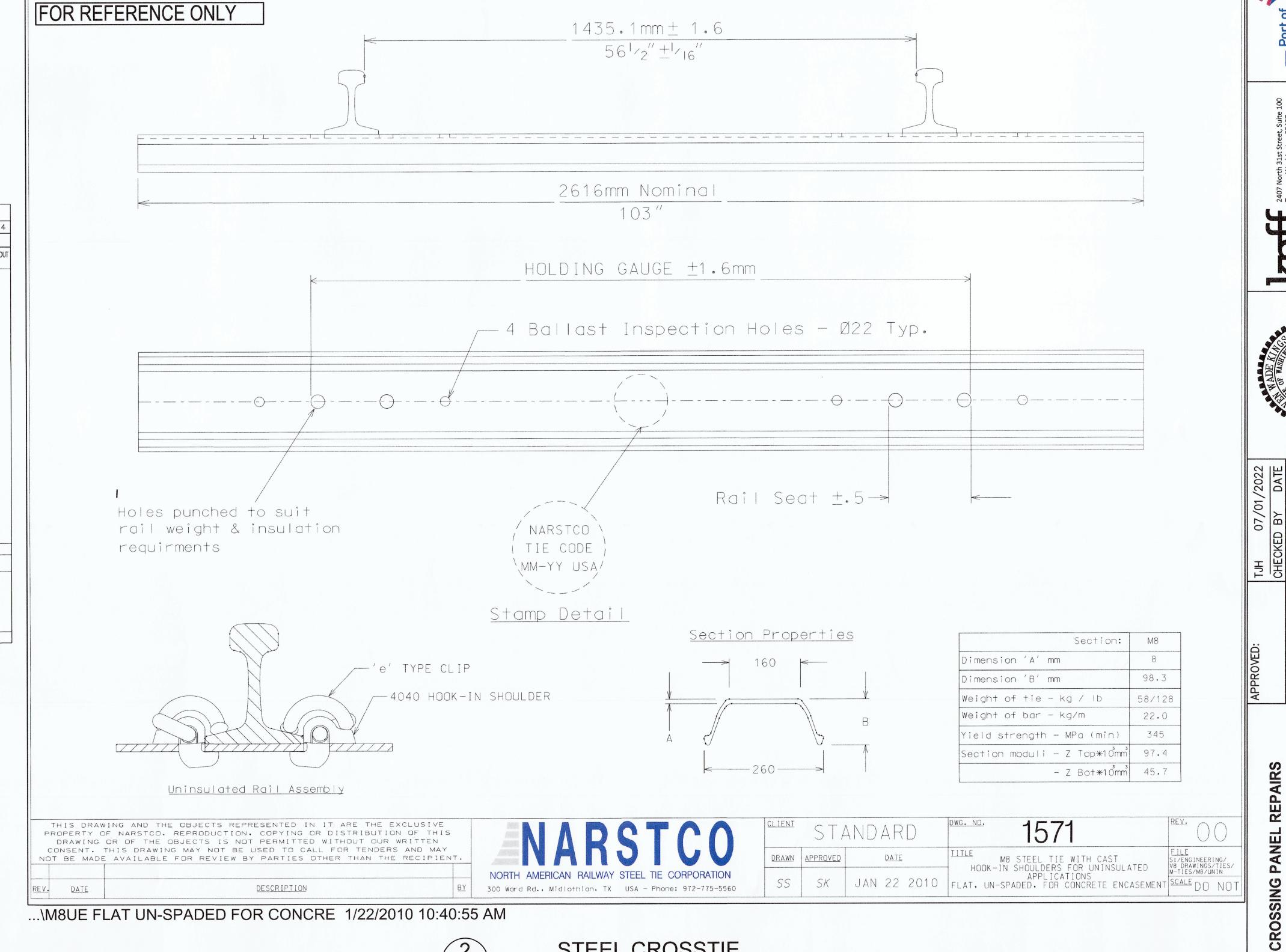
CROSSING PANEL

PROPOSED 8" WIDE BY 14" DEPTH (4) #4 EVENLY SPACED. 2" CONCRETE REPLACEMENT. COVER, 1.5" SIDE CLR, 3' CONCRETE TO MEET THE STANDARDS BOTTOM CLR. LISTED IN THE DETAIL 1 NOTES. — **EXISTING PRECAST** JOINT FILLER AND JOINT SEALANT. TYP CONCRETE PANELS -OF EACH SIDE. PLACE JOINT SEALANT BEAD 1 BELOW THE TOP OF THE CONCRETE SURFACE. BELOW JOINT SEALANT, PLACE 1 X FULL DEPTH JOINT EXISTING PRECAST CONCRETE EXISTING CONCRETE PAVEMENT BASE ----ASSUMED 14" THICK ----PARTIAL CONCRETE REPLACEMENT

SCALE: 1" = 1'-0"









SCALE: NTS