

Resurrection Bay

DOCK PLAN

SCALE: 1" = 40'

CONSTRUCTION NOTES:

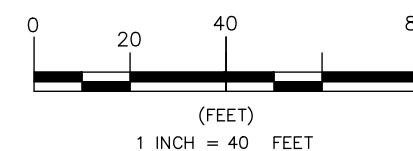
1. UNLESS MODIFIED OR OTHERWISE SPECIFIED HEREIN, SUBBASE AND PAVING WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. PANEL AND TRACK WORK SHALL BE DONE IN ACCORDANCE WITH AMERICAN RAILWAY ENGINEERING AND MAINTENANCE-OF-WAY ASSOCIATION MANUAL FOR RAILWAY ENGINEERING.
2. AFTER EXCAVATION, MECHANICALLY COMPACT THE DISTURBED SURFACE OF THE SUBGRADE.
3. NO WATER SHALL BE ALLOWED TO STAND ON THE SUBGRADE ONCE THE EXCAVATION IS OPENED UP. COVER AS NECESSARY AND ENSURE THAT SURFACE DRAINAGE IS AWAY FROM THE PROJECT.
4. CLOSE CLEARANCE IS ANTICIPATED AT TWO LOCATIONS BETWEEN THE NEW CROSSING PANELS AND THE EXISTING DOCK SHEET PILE TAIL WALLS. THE CONTRACTOR SHALL BE PREPARED TO TORCH REMOVE SMALL SECTIONS OF SHEET PILING AS DIRECTED BY THE OWNER.
5. D1 SUBBASE MATERIAL SHALL BE COMPACTED TO 98%, OR GREATER, OF THE MAXIMUM DENSITY USING THE APPROXIMATE OPTIMUM MOISTURE CONTENT FOR COMPACTION AS DETERMINED BY ASTM 212. PRIOR ESTABLISHMENT OF MAXIMUM DENSITY AND OPTIMUM MOISTURE CONTENT WILL BE ACCEPTED. THE CONTRACTOR MAY SUBMIT A COMPACTION PLAN THAT ENSURES THE MINIMUM SPECIFIED COMPACTION LEVEL FOR OWNER APPROVAL IN LIEU OF IN-PLACE DENSITY TESTING.
6. FLOWABLE FILL SHALL BE ADEQUATELY CURED TO PREVENT DAMAGE BEFORE PROCEEDING WITH FURTHER WORK. THE CONTRACTOR SHALL PROTECT THE FILL AS NECESSARY FROM CONSTRUCTION EQUIPMENT AND WORK ACTIVITIES.
7. APPLY AN ASPHALT TACK COAT TO THE TOP OF THE FLOWABLE FILL AND SIDES OF THE PRECAST TRACK PANELS NO MORE THAN FOUR (4) HOURS PRIOR TO PLACEMENT OF THE ASPHALT CONCRETE. ASPHALT SHALL BE PLACED IN A MAXIMUM OF THREE (3) INCH LIFTS WITH MECHANICAL COMPACTION, UTILIZING APPROPRIATE COMPACTION EQUIPMENT, OF EACH LIFT UNTIL THERE IS NO FURTHER EVIDENCE OF CONSOLIDATION.

GENERAL NOTES:

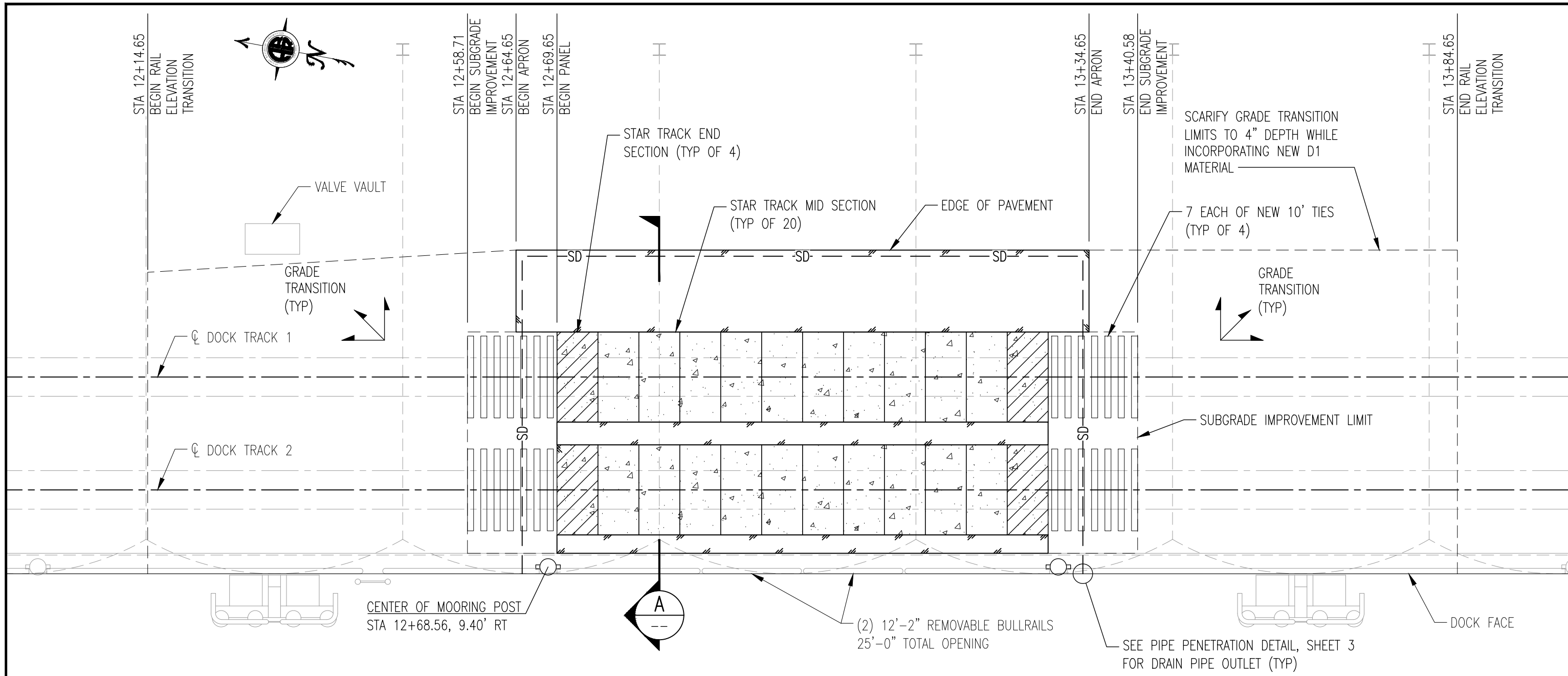
1. SCHEDULE THE BEGINNING OF ON-SITE WORK AND DAILY WORK COORDINATION WITH ARRC SEWARD PORT AND REAL ESTATE MANAGER. OTHER WORK ACTIVITIES ON THE SEWARD FREIGHT DOCK WILL BE ON-GOING AND THE CONTRACTOR SHALL COORDINATE DAILY OPERATIONS, WORK LIMITS, MATERIAL AND EQUIPMENT STORAGE REQUIREMENTS WITH THE PORT MANAGER.
2. BARRICADE OFF WORK LIMITS AS NECESSARY TO PROTECT PROJECT CONSTRUCTION AND GUARD AGAINST 3RD PARTY PERSONNEL AND EQUIPMENT HARM.
3. THE CONTRACTOR SHALL PROVIDE THEIR OWN UTILITIES AND SUPPORT FACILITIES NECESSARY TO COMPLETE THE WORK OR PROVIDE FOR THE CONTRACTOR'S EMPLOYEES UNLESS OTHERWISE AGREED UPON BY ARRC.
4. THE SEWARD FREIGHT DOCK IS AN ACTIVELY WORKING FACILITY. THE WORK TO INSTALL THE TRACK PANELS WILL NECESSARILY IMPACT DOCK OPERATIONS. THE CONTRACTOR SHALL UNDERTAKE THE WORK, ONCE BEGUN, IN A CONCERTED MANNER TO COMPLETE THE PROJECT, AND MINIMIZE THE DURATION OF DISRUPTION TO NORMAL DOCK OPERATIONS. SUBSTANTIAL COMPLETION SHALL BE WITHIN 10 DAYS OF BEGINNING WORK. FINAL COMPLETION SHALL BE WITHIN 15 DAYS OF BEGINNING WORK. WEATHER DELAYS FOR SENSATIVE ASPECTS OF THE WORK WILL BE ALLOWED.

DRAWING NOTES:

1. PROJECT STATIONING IS ALONG CENTERLINE OF DOCK TRACK 2.
2. MOORING POST ADJACENT TO THE REMOVABLE BULL RAIL = STA 12+68.36, 9.40' RIGHT.

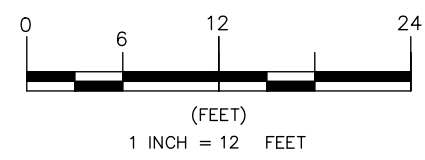



ALASKA RAILROAD CORPORATION ENGINEERING SERVICES P.O. BOX 107500, ANCHORAGE, ALASKA 99510-7500			
PROJECT :			
SEWARD FREIGHT DOCK CROSSING PANELS			
TITLE:			
GENERAL LAYOUT			
DESIGNED BY:	RJT	SCALE :	AS NOTED
DRAWN BY:	DxD	DATE :	7/12/2017
CHECKED BY:	RJT	APPROVED BY:	RJT
AFE NO.:		ACAD FILE:	
		DWG NO.	
		2 OF 7	



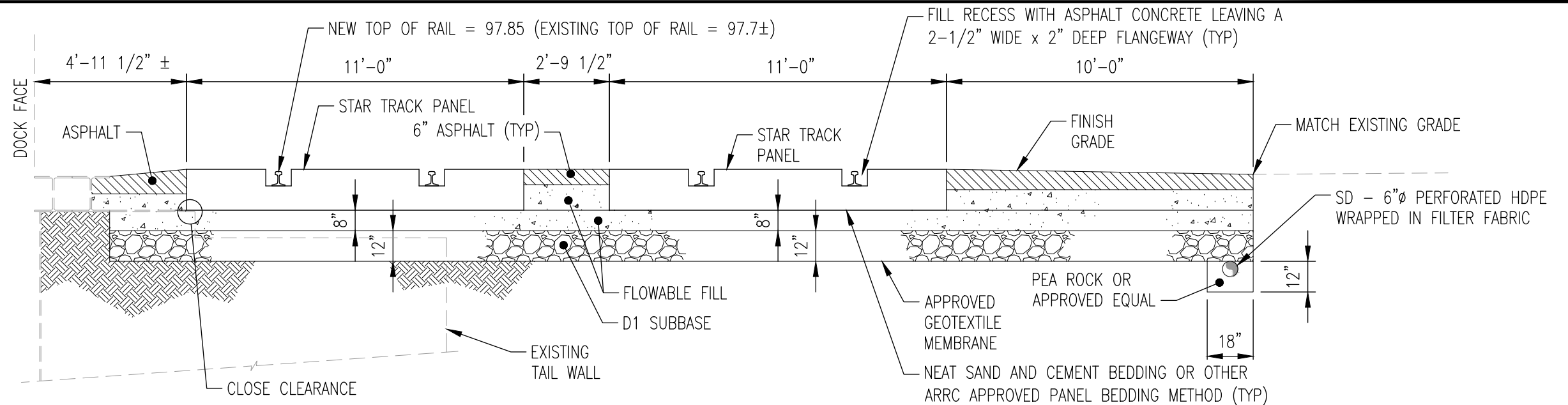
Resurrection Bay

DOCK PLAN
SCALE: 1" = 12'



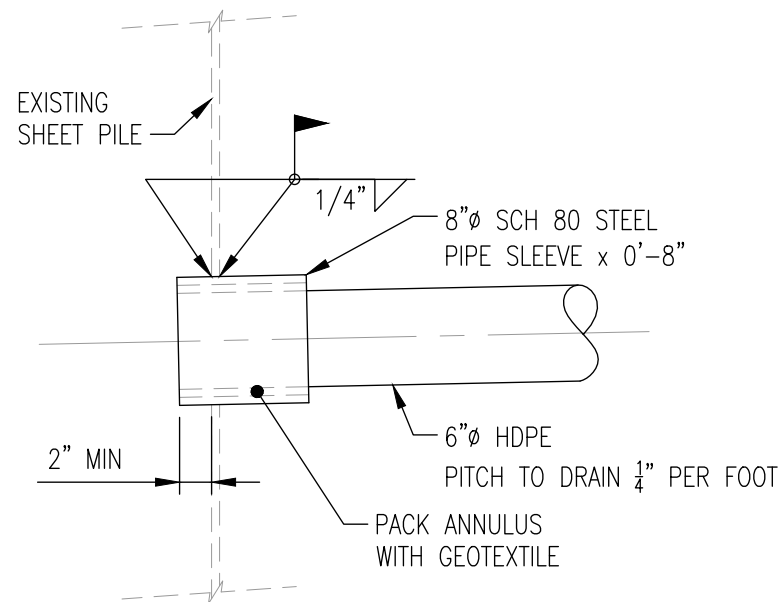
 ALASKA RAILROAD CORPORATION ENGINEERING SERVICES P.O. BOX 107500, ANCHORAGE, ALASKA 99510-7500		
PROJECT :		
SEWARD FREIGHT DOCK CROSSING PANELS		
TITLE:		
PANEL LAYOUT AND GRADING LIMITS		
DESIGNED BY: RJT	SCALE : AS NOTED	AFE NO.:
DRAWN BY: DxD	DATE : 7/12/2017	ACAD FILE:
CHECKED BY: RJT		DWG NO. 3 OF 7
APPROVED BY: RJT		

750C-Half.ctb
U:\ACAD\eng-projects\Seward\StarTrack Panels\Dock Plan.dwg



SECTION A

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



NOTE:
CAREFULLY CUT HOLE IN DOCK SHEET PILE USING A TEMPLATE.

PIPE PENETRATION DETAIL

SCALE: 1" = 1'-0"

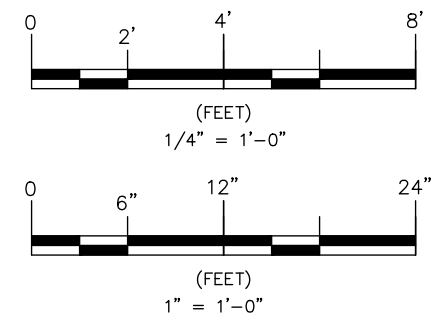
MATERIAL NOTES:


1. ALL MATERIALS TO CONSTRUCT AND INSTALL THE CROSSING PANELS AS SPECIFIED WITHIN THESE DRAWINGS SHALL BE FURNISHED BY THE CONTRACTOR UNLESS NOTED AS MATERIAL FURNISHED BY THE OWNER.
2. FLOWABLE FILL SHALL BE A CONTROLLED LOW STRENGTH MATERIAL PER ACI 229 R-99 WITH A MINIMUM STRENGTH OF 500 PSI. THE CONTRACTOR SHALL SAMPLE THE MATERIAL DURING PLACEMENT AND PROVIDE DOCUMENTATION TO THE OWNER OF COMPLIANCE WITH THE MINIMUM STRENGTH REQUIREMENT. THE FINISHED SURFACE OF THE FLOWABLE FILL SHALL NOT DEVIATE MORE THAN 3/16 INCH FROM AQ 16 FOOT STRAIGHT EDGE. ANY DEVIATIONS GREATER THAN 3/16 INCH SHALL BE CORRECTED.
3. ASPHALT CONCRETE SHALL MEET THE REQUIREMENTS OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES (ADOT&PF) STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, CLASS A, TYPE 2 UNLESS OTHERWISE APPROVED BY THE OWNER.
4. SUBBASE MATERIAL SHALL BE IN ACCORDANCE WITH ADOT&PF AGGREGATE GRADATION FOR BASE COURSE D-1. THE CONTRACTOR SHALL SUBMIT DOCUMENTATION OF COMPLIANCE WITH AGGREGATE QUALITY PROPERTIES AND GRADATION.

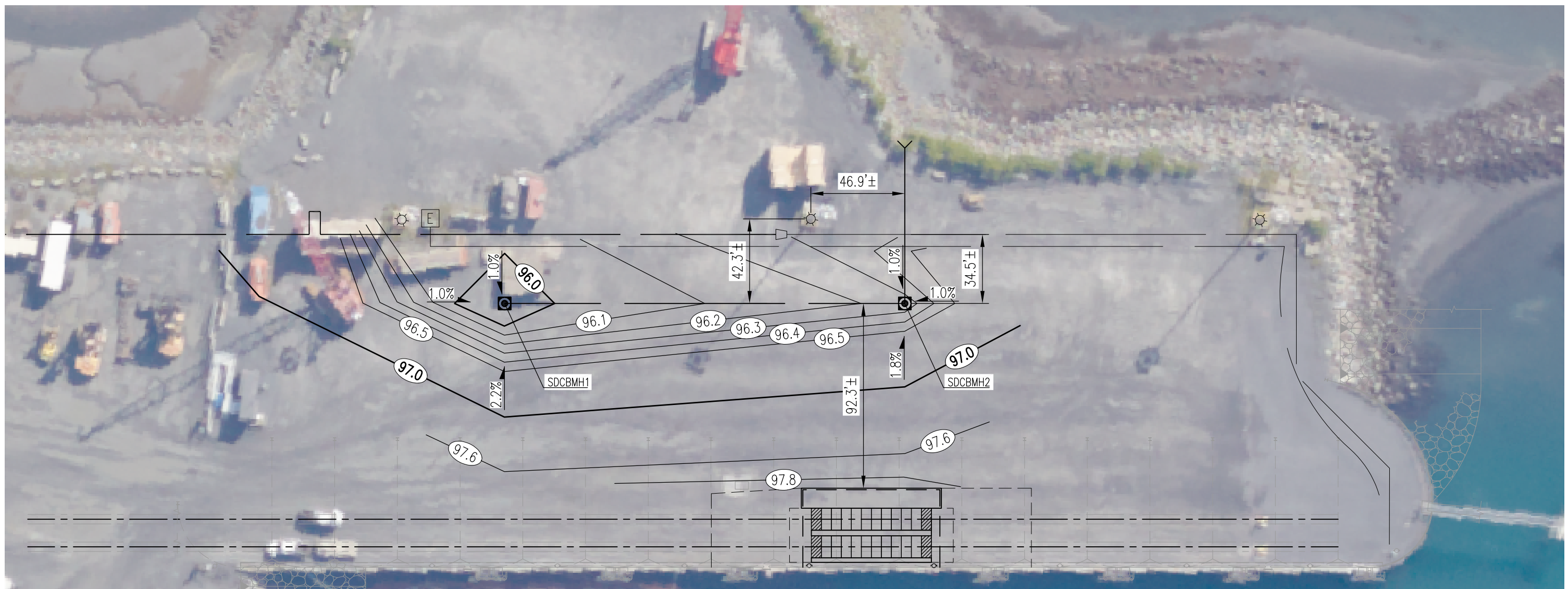
MATERIALS FURNISHED BY OWNER:

STARTRACK END SECTIONS	4 EACH
STARTRACK MID SECTIONS	20 EACH
10 FT. CROSS TIES	28 EACH
STARTRACK E CLIPS	193 EACH
STARTRACK NYLON INSULATORS	193 EACH
STARTRACK UHMW ABRASION STRIPS	48 EACH
CONSEAL SEALANT ROLL	18 EACH
STARTRACK CAULK, 10 OZ TUBE	24 EACH
STARTRACK UNIT RAIL ANCHORS	8 EACH
STARTRACK PANDROL PULLER	1 EACH
FOAM BACKER ROD, 260 LF	1 EACH

RAIL - THE INTENT IS TO REUSE THE RAIL CURRENTLY IN PLACE ON THE FREIGHT DOCK.
AT THE REQUEST OF THE CONTRACTOR AND CONCURRENCE OF THE OWNER'S ENGINEER, THE OWNER WILL FURNISH NEW TIE PLATES, TRACK FASTENERS, RAIL ANCHORS AND STANDARD 8.5 FT. HARDWOOD CROSS TIES FOR USE ON THIS PROJECT.
OWNER FURNISHED MATERIALS WILL BE MADE AVAILABLE TO THE CONTRACTOR IN SEWARD.

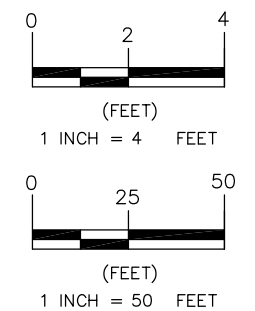
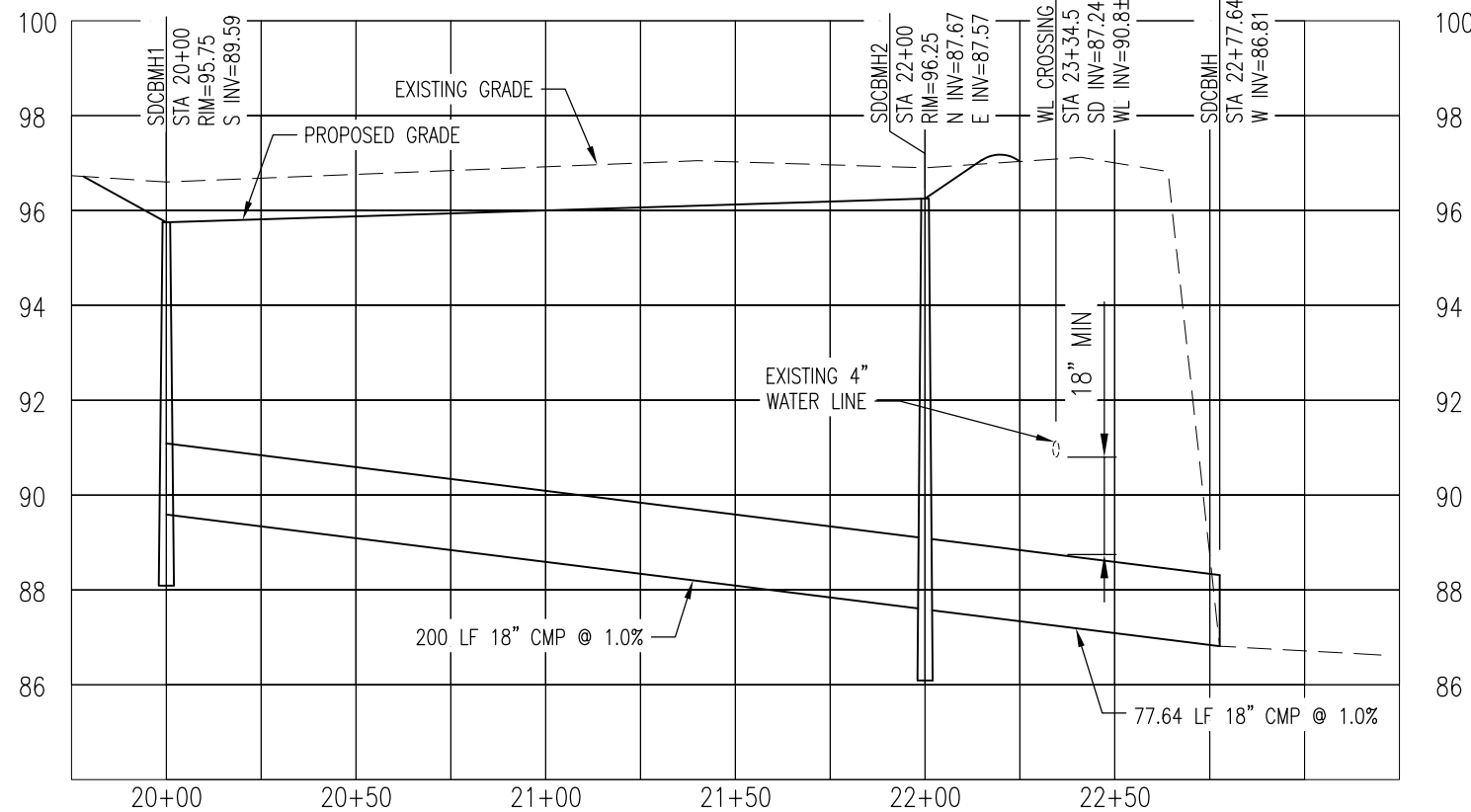


 ALASKA RAILROAD CORPORATION ENGINEERING SERVICES P.O. BOX 107500, ANCHORAGE, ALASKA 99510-7500		
PROJECT :		
SEWARD FREIGHT DOCK CROSSING PANELS		
TITLE:		
SECTION		
DESIGNED BY: RJT	SCALE : AS NOTED	AFE NO.:
DRAWN BY: DxD	DATE : 7/12/2017	ACAD FILE:
CHECKED BY: RJT		DWG NO.:
APPROVED BY: RJT		4 OF 7



STORM DRAIN PLAN


SCALE: 1" = 50'

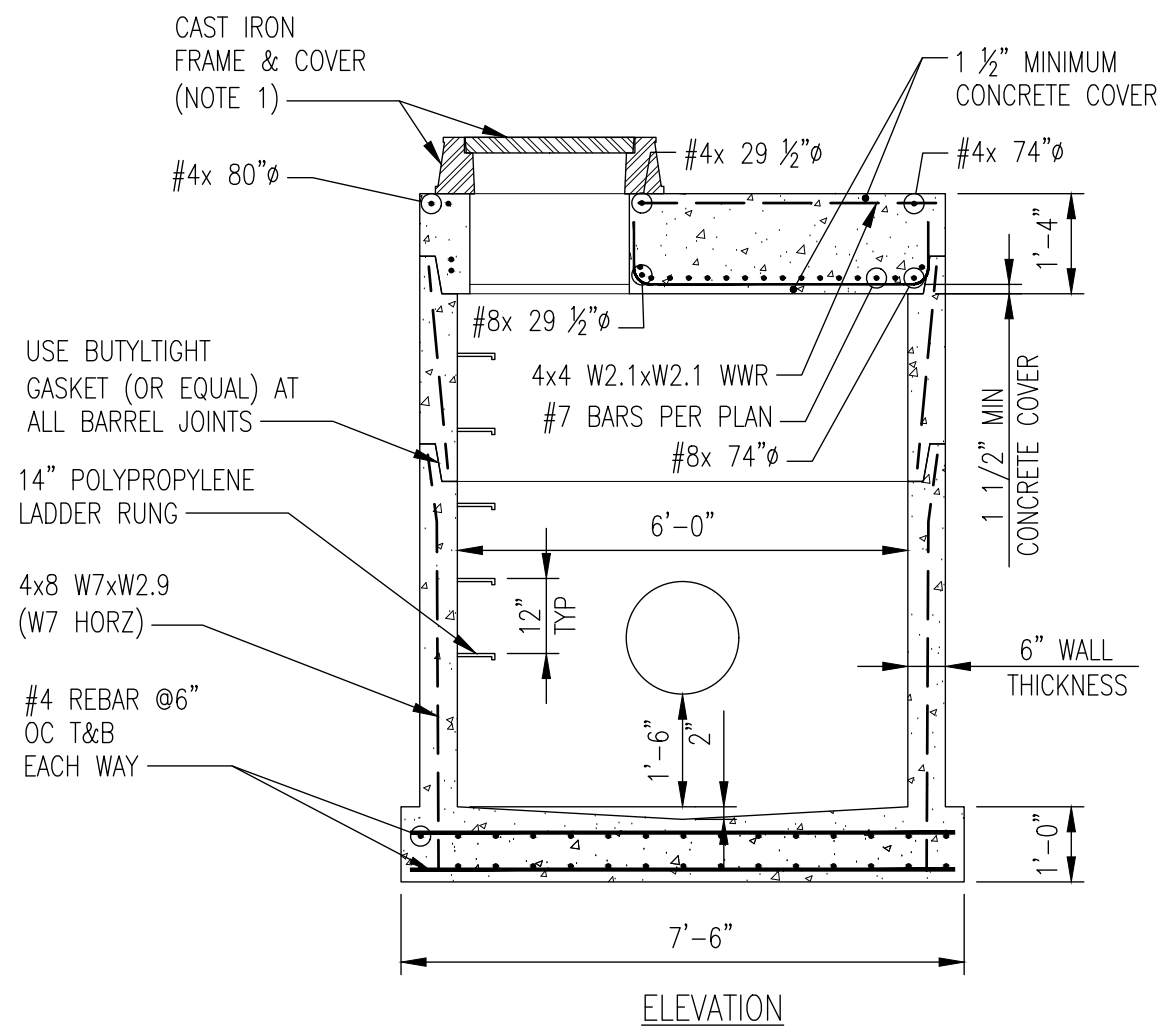
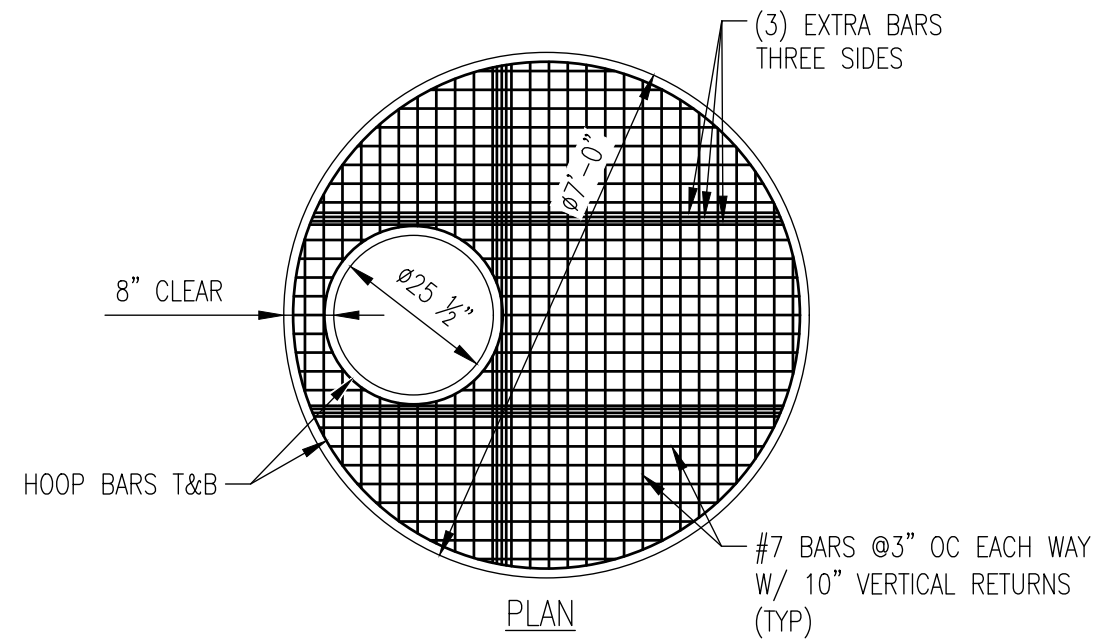


NOTE:
 CMP IS 10 GAGE
 CORRUGATED
 ALUMINIZED STEEL PIPE.

STORM DRAIN PROFILE

SCALE: H: 1" = 50'
 V: 1" = 4'

 ALASKA RAILROAD CORPORATION ENGINEERING SERVICES P.O. BOX 107500, ANCHORAGE, ALASKA 99510-7500		
PROJECT : SEWARD FREIGHT DOCK CROSSING PANELS		
TITLE: STORM DRAIN PLAN & PROFILE		
DESIGNED BY: RJT	SCALE : AS NOTED	AFE NO.:
DRAWN BY: DxD	DATE : 7/12/2017	ACAD FILE:
CHECKED BY: RJT		DWG NO. 4 OF 5
APPROVED BY: RJT		




MANHOLE DETAIL

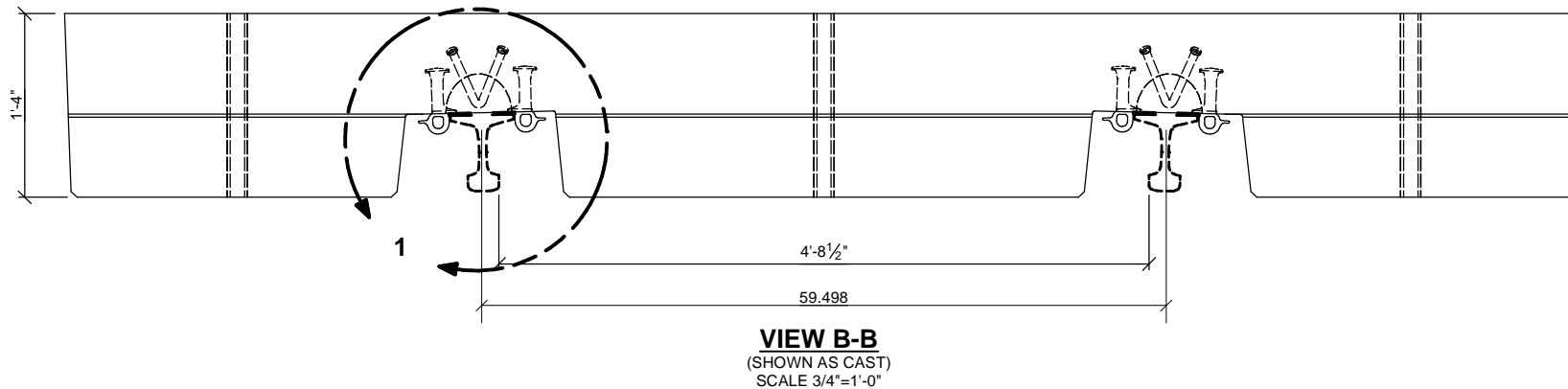
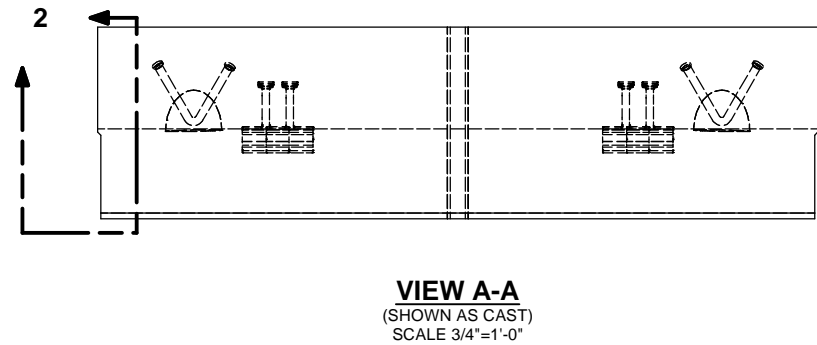
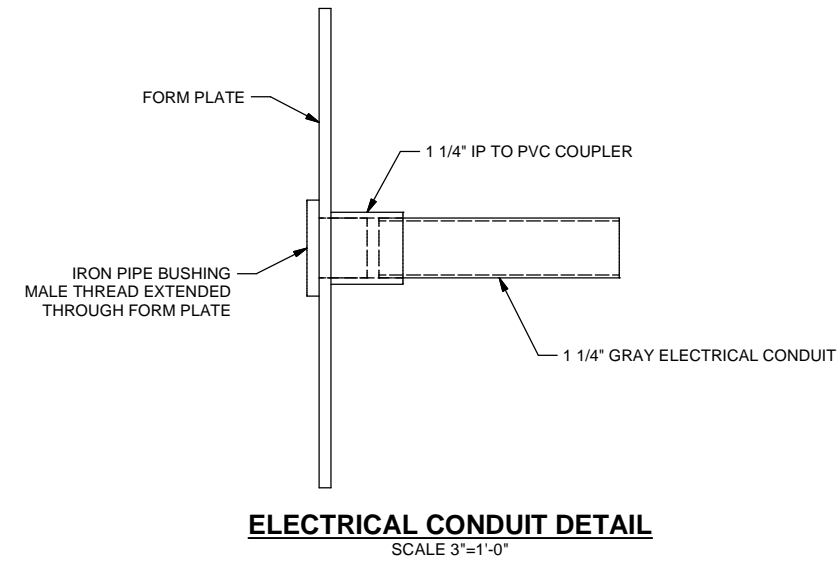
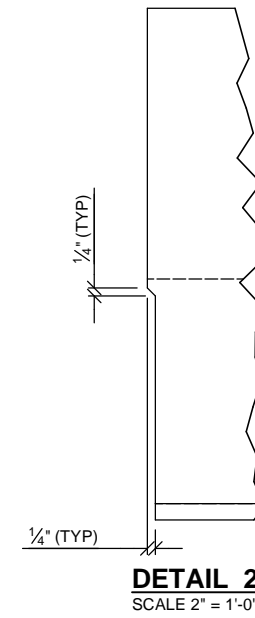
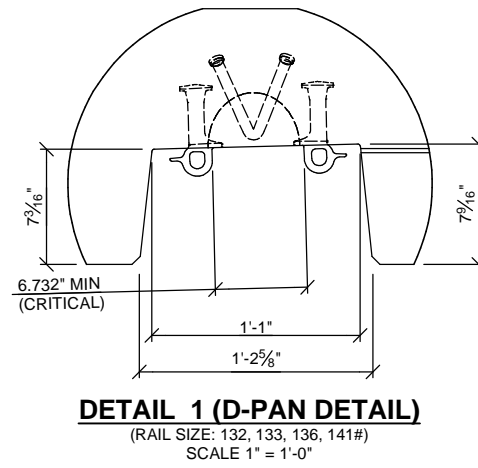
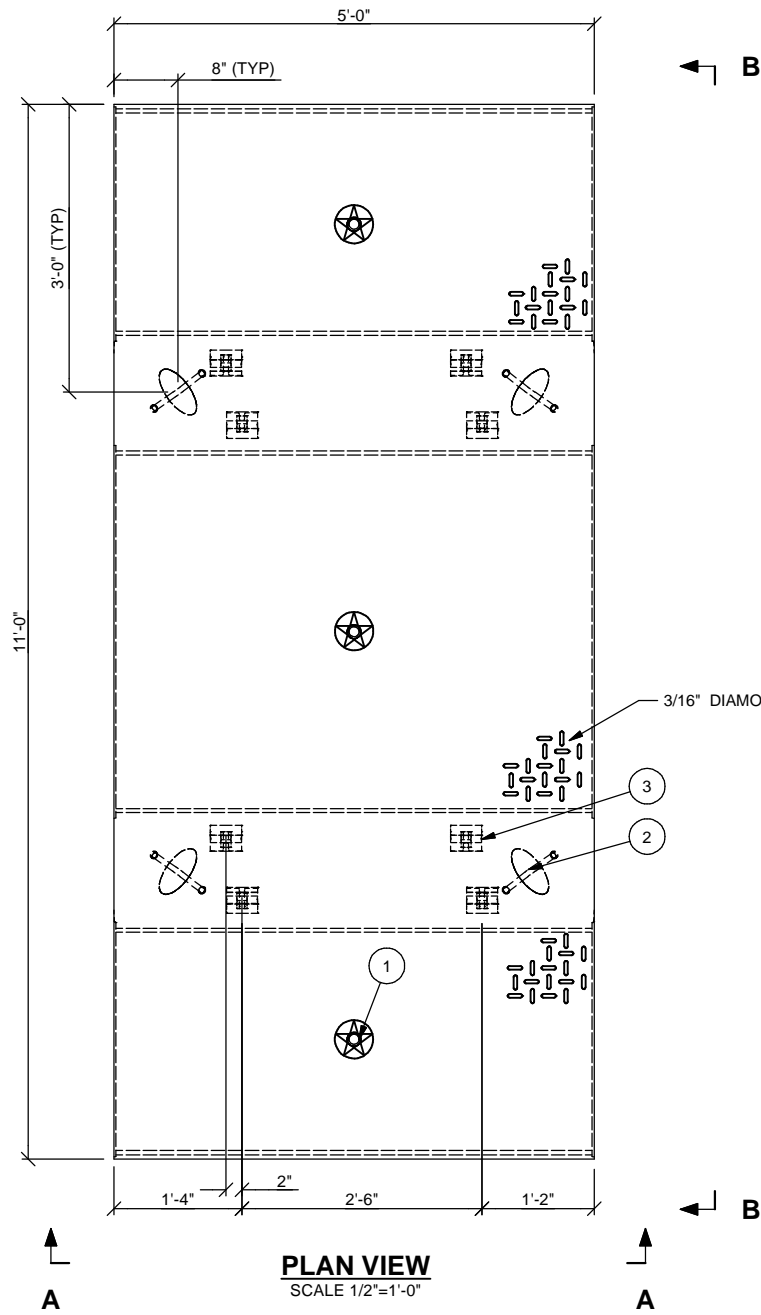
SCALE: 3/8" = 1'-0"

NOTE:

- CAST IRON MANHOLE LID:
D&L SUPPLY P-3492 FRAME
P-2575 SLOTTED LID
(OR APPROVED EQUAL)
- REFERENCE FERRO ENGINEERING (2130 SHORE DRIVE, ANCHORAGE, AK 99515), D&S CONCRETE (FOR ARRC, 2 SHEETS), HEAVY DUTY FORKLIFT-RATED MANHOLE LID, TYPE II (6 FT ϕ) MANHOLE LID, DATED 8/31/2017 AND STORM MANHOLE (72" DIA.)

 ALASKA RAILROAD CORPORATION ENGINEERING SERVICES P.O. BOX 107500, ANCHORAGE, ALASKA 99510-7500		
PROJECT :		
SEWARD FREIGHT DOCK CROSSING PANELS		
TITLE:		
STORM DRAIN MANHOLE DETAIL		
DESIGNED BY: RJT	SCALE : AS NOTED	AFE NO.:
DRAWN BY: DxD	DATE : 7/12/2017	ACAD FILE:
CHECKED BY: RJT		DWG NO. 5 OF 5
APPROVED BY: RJT		

F:\Engineering\Inventor\Standard Products\Startrack\Startrack 5x11 DPAN (MID) - ACI HS25.dwg



BOM		
P/N	QTY	DESCRIPTION
1	3	1 1/4" DIA GRAY ELECTRICAL CONDUIT
1	3	1 1/4" MALE NPT STEEL SQUARE SOCKET PIPE PLUG
2	4	MB V-ANCHOR, MBV6671
3	8	PANDROL #6575 SHOULDER
4	.4 GAL	HYDROZO SEALANT
	2.43	6,000 PSI CONCRETE
REBAR TOTALS		
WEIGHT (LBS)	DESCRIPTION	
21	#4 REBAR	
358	#5 REBAR	
WEIGHTS		
DESCRIPTION	WEIGHT (LBS)	
5'-0" x 11'-0" STARTRACK SECTION	9853	
ACCESSORIES		
QTY	DESCRIPTION	
8	NYLON INSULATORS (7400)	
8	PANDROL "E" CLIP (E-2055) GALVD	
2	3/16" x 59" UHMW ABRASION STRIPS	
1 ROLL	3/4" CONSEAL	
1 TUBE	SIKAFLEX - 1A URETHANE CAULK (ALUM GREY)	

SHOP NOTES:

- PANDROL SHOULDER EMBEDMENT MUST BE A MINIMUM DISTANCE OF 1/2" FROM REBAR.
- MINIMUM STRIPPING STRENGTH = 2,500 PSI
- HYDROZO SEALED AFTER ROTATING

STRUCTURAL NOTES:

- CONCRETE W/ CORROSION INHIBITOR
 - 28 DAY COMPRESSIVE STRENGTH $f_c = 6,000$ PSI
- DESIGN
 - ACI 318-08
 - COOPER E-80 LIVE LOADS W/ 60% IMPACT.
 - HS-25 AASHTO DESIGN TRUCK W/ 30% IMPACT.
 - AAR 1 FRIEGHT CAR W/ 60% IMPACT



APPROVED FOR FABRICATION / DATE

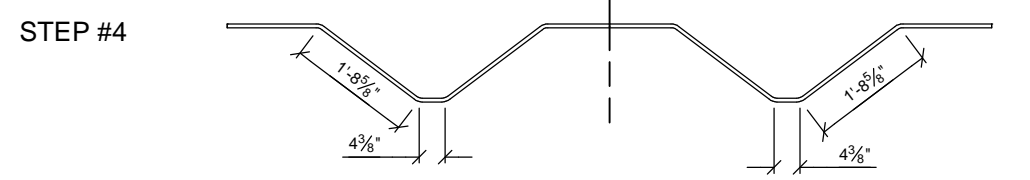
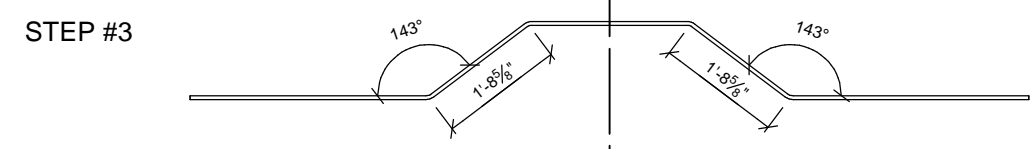
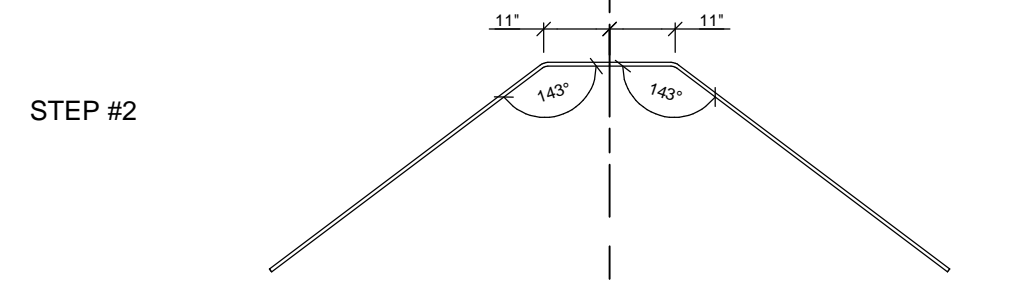
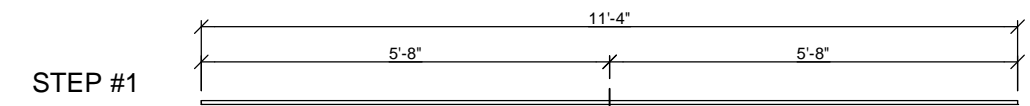
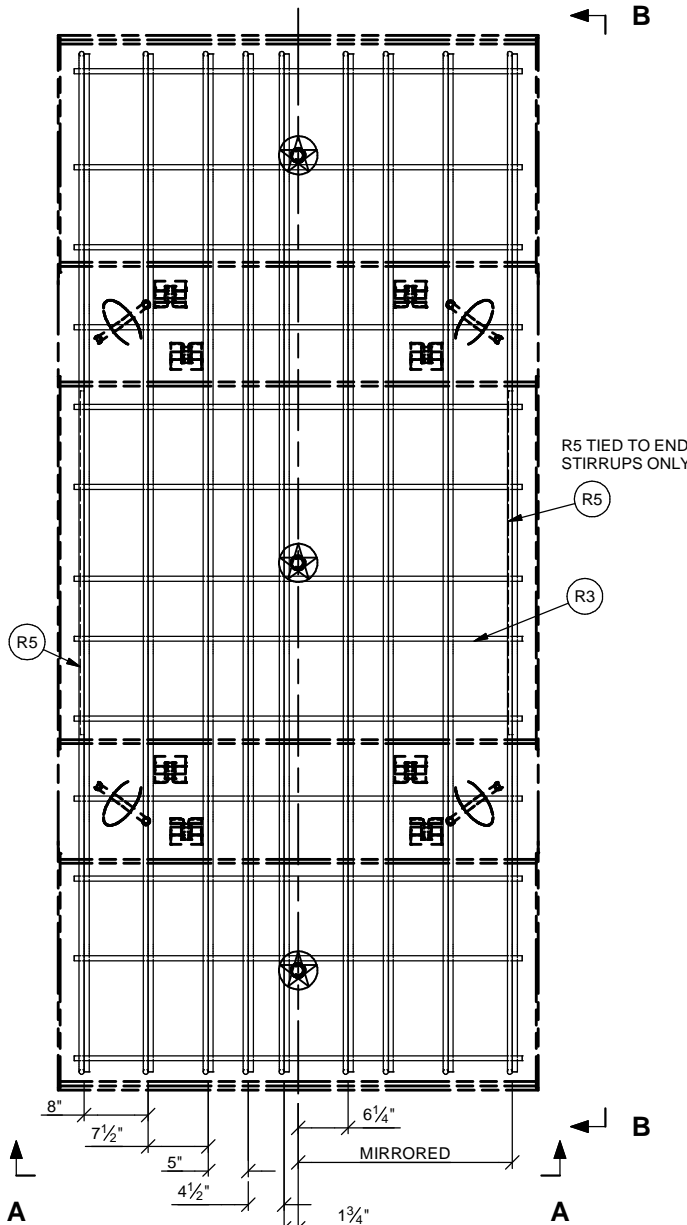


THIS DOCUMENT IS THE PROPERTY OF OLDCASTLE PRECAST, INC. IT IS CONFIDENTIAL, SUBMITTED FOR REFERENCE PURPOSES ONLY, AND SHALL NOT BE USED IN ANY WAY INJURIOUS TO THE INTERESTS OF, OR WITHOUT THE WRITTEN PERMISSION OF OLDCASTLE PRECAST, INC. COPYRIGHT ©2017 OLDCASTLE PRECAST, INC ALL RIGHTS RESERVED

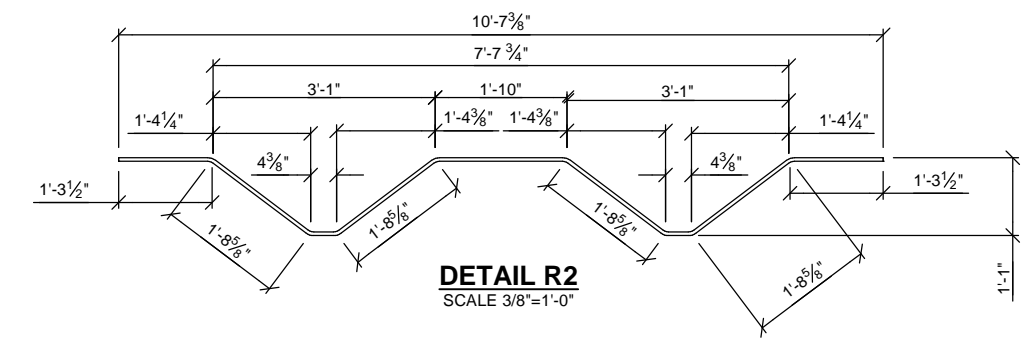
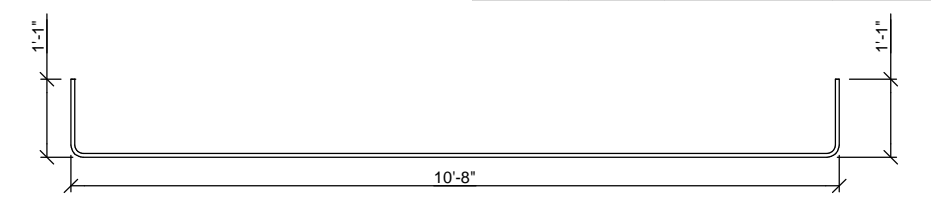
5'-0" x 11'-0" HD STANDARD STARTRACK SECTION
ST II 5' x 11' ACI (D-PAN)
MID SECTION: PRODUCTION

CUSTOMER					
DATE	SALES	DRAWN	ENGINEER	CHECKED	SALES ORDER
4/3/2017		JRS	AB		
DRAWING NUMBER				REVISION	SHEET
ST II - 5 x 11 DPAN (MID) - ACI HS25.idw				DATE	1 OF 2

REBAR CUT LIST			
#	QTY	MATERIAL	CUT LENGTH
R1	9	#5 REBAR	12'-6"
R2	9	#5 REBAR	11'-4"
R3	26	#5 REBAR	4'-8"
R4	8	#4 REBAR	3'-0"
R5	2	#4 REBAR	3'-7"

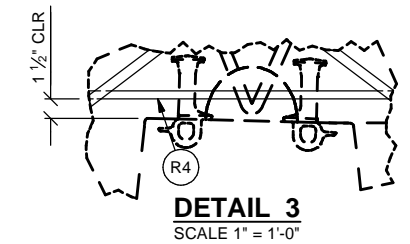


R2 BEND DIAGRAM
SCALE 3/8"=1'-0"



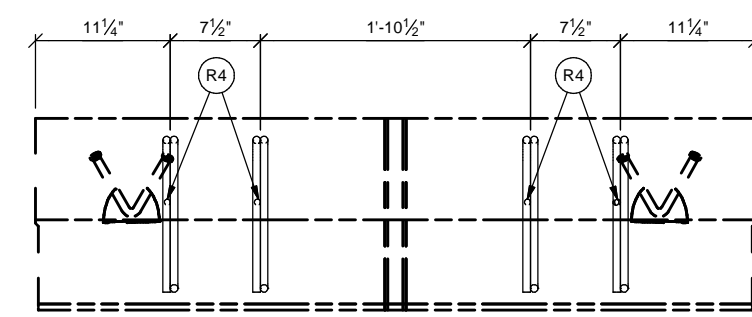
NOTE:
ACTUAL CUT LENGTH MAY DIFFER THAN SHOWN.
LENGTH SHOWN ASSUMES A 1 1/2" DIA PIN.

SHOP NOTE:
1. ADJUST R3 BAR CUT LENGTH TO MAINTAIN A
MINIMUM OF 1-1/2" CLR TO EDGE OF FORM FOR
SPECIAL PIE SECTIONS.

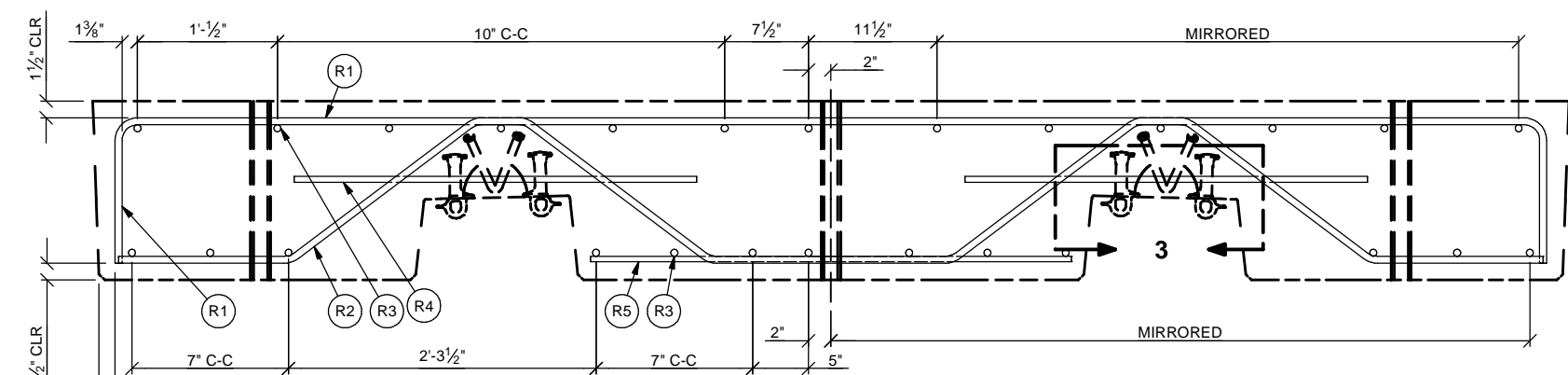


APPROVED FOR FABRICATION / DATE

VIEW A-A
(SHOWN AS CAST)
SCALE 3/4"=1'-0"



NOTE:
TIE R4 BARS TO W BAR (R2) ON SAME SIDE AS U BAR (R1)



VIEW B-B
(SHOWN AS CAST)
SCALE 3/4"=1'-0"

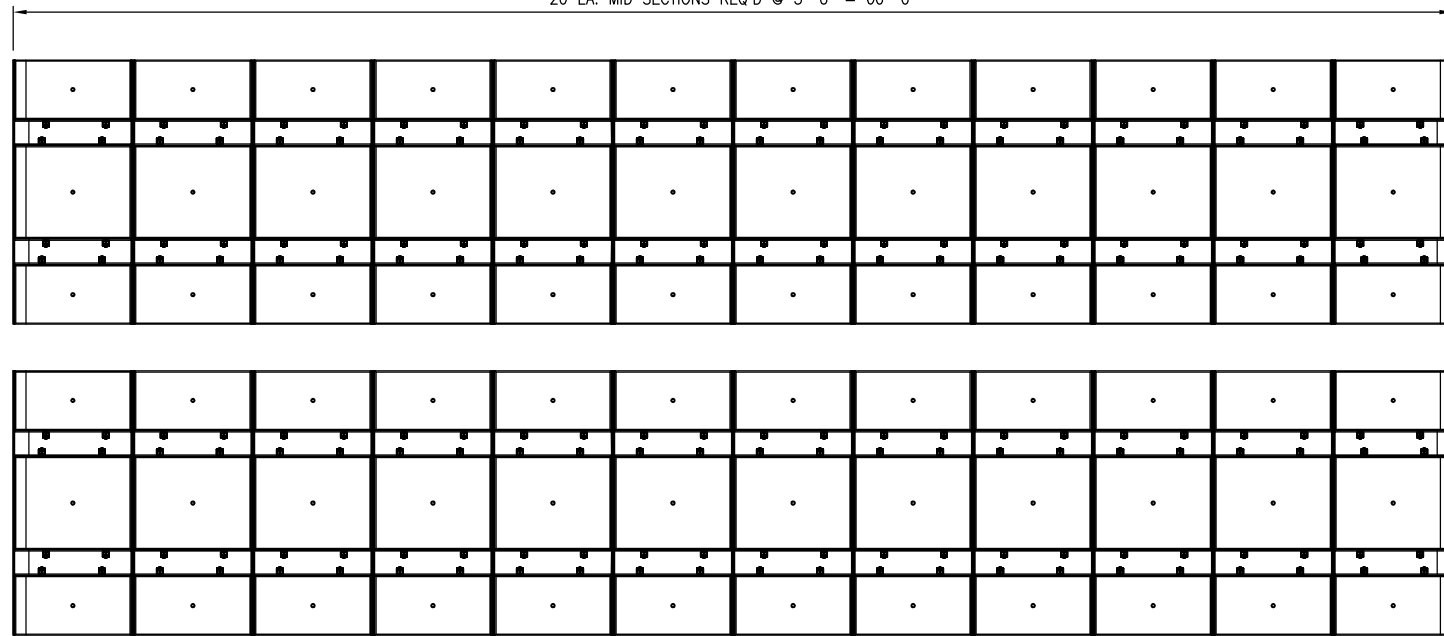


THIS DOCUMENT IS THE PROPERTY OF OLDCASTLE PRECAST, INC. IT IS CONFIDENTIAL, SUBMITTED FOR REFERENCE PURPOSES ONLY, AND SHALL NOT BE USED IN ANY WAY INJURIOUS TO THE INTERESTS OF, OR WITHOUT THE WRITTEN PERMISSION OF OLDCASTLE PRECAST, INC. COPYRIGHT ©2017 OLDCASTLE PRECAST, INC. ALL RIGHTS RESERVED.

5'-0" x 11'-0" HD STANDARD
STARTRACK SECTION
ST II 5' x 11' ACI (D-PAN)
MID SECTION: STEEL

CUSTOMER					
DATE	SALES	DRAWN	ENGINEER	CHECKED	SALES ORDER
4/3/2017		JRS	AB		
DRAWING NUMBER			REVISION	SHEET	
ST II - 5 x 11 DPAN (MID) - ACI HS25.idw			DATE	2 OF 2	

4 EA. END SECTION REQ'D @ 5'-0"
20 EA. MID SECTIONS REQ'D @ 5'-0" = 60'-0"



LAYOUT
PLAN VIEW
SCALE: 1/8" = 1'-0"

STRUCTURAL NOTES

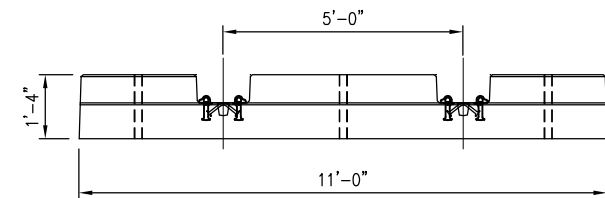
1. CONCRETE: - 28 DAY COMPRESSIVE STRENGTH FC= 6000 PSI, WITH D.C.I. ADDITIVE
2. REBAR: - ASTM A-615 GRADE 60
3. DESIGN: - ACI 318-08 BUILDING CODE
- AASHTO - STANDARD SPECIFICATION FOR HIGHWAY BRIDGES
4. LOADS: - COOPER E-80 + 60% IMPACT TRACK LOAD
- H-20 WHEEL LOAD
5. SEALANT: - HYDROZO SEALED

CONCRETE DESCRIPTION

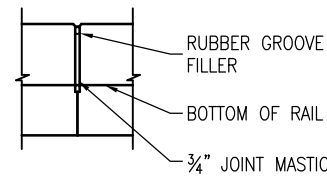
- 20 EACH - STARTRACK, HD 5'-0" x 11'-0", 115#, MID SECTION
- 4 EACH - STARTRACK, HD 5'-0" x 11'-0", 115#, END SECTION
- 120' TOTAL TRACK FEET

ACCESSORIES

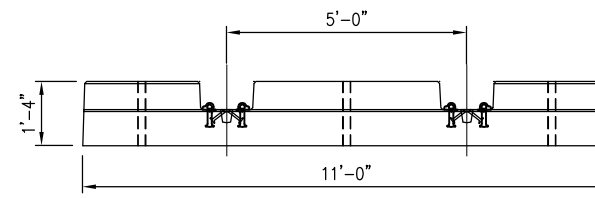
- 193 EACH - PANDROL "E" CLIP (E2055)
- 193 EACH - NYLON INSULATOR (7400)
- 48 EACH - 3/16" x 6" x 59" UHMW RUNNING STRIPS
- 0 EACH - 3/16" x 6" x 89" UHMW RUNNING STRIPS
- 253 LF - 3/4" JOINT MASTIC
- 12 TUBES - SONNEBORN NP-1 (LIMESTONE)
- 8 EACH - UNIT RAIL ANCHORS #115
- 1 EACH - PANDROL PULLER (LOANED IF NEEDED)
- 1 EACH - RUBBER GROOVE FILLER KIT



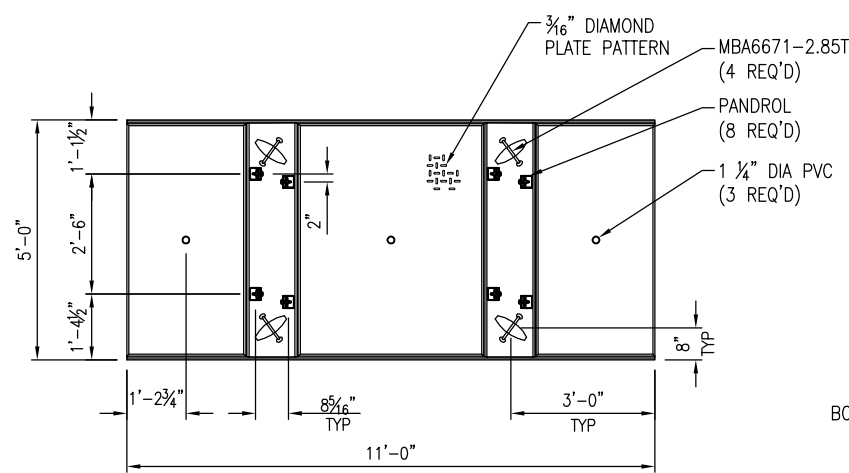
VIEW A-A
SCALE: 1/4" = 1'-0"



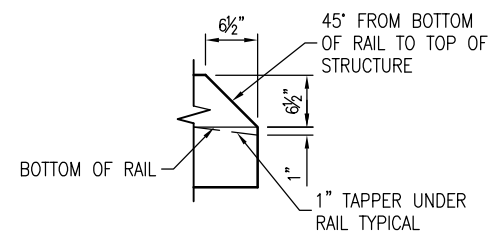
CONNECTION DETAIL



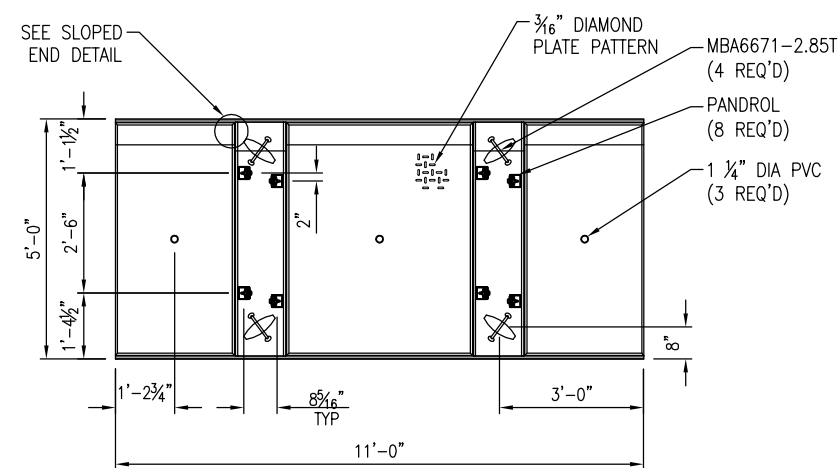
VIEW B-B
SCALE: 1/4" = 1'-0"



5'-0" x 11'-0" MID SECTION
SCALE: 1/4" = 1'-0"



END DETAIL



5'-0" x 11'-0" END SECTION
SCALE: 1/4" = 1'-0"

END 5'-0" SECTION

WEIGHT	10,400 LBS
MID 5'-0" SECTION	
WEIGHT	10,400 LBS

CONTRACTOR / PROJECT ENGINEER APPROVAL
I HAVE REVIEWED & UNDERSTAND THIS DRAWING & AUTHORIZE FABRICATION AS SHOWN OR REVISED AS NOTED.

CONTRACTOR IS TO VERIFY THAT ALL INFORMATION SHOWN ON DRAWINGS HAS BEEN CHECKED, COMPLIES WITH THE CONTRACT DOCUMENTS AND IS ADEQUATE TO MEET THE FIELD CONDITIONS. OLDCASTLE PRECAST ACCEPTS NO RESPONSIBILITY FOR ERRORS OR OMISSIONS AFTER RECEIPT OF APPROVED SHOP DRAWINGS.
NOTE: PRODUCTION WILL NOT COMMENCE UNTIL RECEIPT OF SIGNED APPROVED SHOP DRAWINGS.



THIS DOCUMENT IS THE PROPERTY OF OLDCASTLE PRECAST, INC. IT IS CONFIDENTIAL, SUBMITTED FOR REFERENCE PURPOSES ONLY AND SHALL NOT BE USED IN ANY WAY INJURIOUS TO THE INTERESTS OF, OR WITHOUT THE WRITTEN PERMISSION OF OLDCASTLE PRECAST, INC.
COPYRIGHT © 2017 OLDCASTLE PRECAST, INC. ALL RIGHTS RESERVED.

5'-0" x 11'-0" STARTRACK II HD
SUBMITTAL DRAWING
ALASKA RAILROAD CORP.
ALASKA

CUSTOMER CASH SALES					
DATE	SALES	DRAWN	ENGINEER	CHECKED	SALES ORDER
5/4/17	PJ	ED	JH		144094
DRAWING NUMBER				REVISION	SHEET
144094_5' X 11' STARTRAC				REV DATE	1 OF 1

#	DATE	REVISIONS	BY
1	5/4/17	CHANGE LAYOUT	ED
2			



StarTrack

Suggested Installation Procedure

Preliminary Subsurface Investigation (Optional)

Prior to removal of ties and ballast, soil samples shall be taken by a recognized soil testing laboratory and through laboratory analysis, sufficient data is collected to evaluate the depth of excavation and thickness of base required.

Subgrade Preparation

Rails, ties, asphalt, ballast, and sub ballast will be removed from an area comprising the length of the crossing plus 15' on each end and 10' wide (13' wide for HD) to a minimum depth of 12" below precast modules, or as determined above. If any areas of pumping or other indications of instability are encountered, they shall be undercut as required and backfilled with compacted base course material.

The resulting subgrade shall be scarified and compacted to 95% of its peak dry density. Drainage tile shall then be installed in a trench area, surrounded by open graded stone or filter fabric.

The entire excavated area and sides shall be lined with an approved fabric equal in performance characteristics to "TYPAR" style 3401.

The base course material shall be applied in 4" lifts compacted to 98% of peak dry intensity. The leveling course (1-1/2" maximum thickness) shall be carefully screeded to the grade shown. Screeded surface to be within +/- 1/4" of grade. Fill and compact entire excavation. See StarTrack's "StarTrack Base Options" for other acceptable subgrade procedures.

Module Placement

Modules shall be placed on the resulting base as snug as possible to one another and to within +/- 1/4" in alignment, utilizing lifting hardware provided. Sika 1A and T-Strip sealant shall be applied as shown on the drawing details. Should any screeded surface irregularity become evident during placement of modules, the module shall be removed and the surface corrected.

Placing and Fastening of Rail

Rail shall then be placed along StarTrack modules on both sides and all rail splicing completed, making sure all polyethylene pads are in place.

After laying rail into blockout groove, start rail installation by centering rail between a set of shoulders, inserting nylon insulators, and then pull the clips into place over the insulators with the pandrol puller or other acceptable methods. Repeat this process throughout the crossing, then connect rail to track rail by normal methods. If necessary, adjust final alignment by moving modules with rail jacks or backhoe.

Placing of Rail Groove Filler

Install rubber rail groove filler according to StarTrack's rail Groove Filler Installation Instructions for StarTrack Rubber Inserts.

Final Completion

Surface the adjacent track construction with new 10' switch ties in the transition area. Install signal wiring in conduit if required. Apply T-Strips to joints as required.

Clean all debris from excavation and pave alongside, up to and flush with module. Apply asphalt at ends of crossing to provide a 5' transition from tie surface to module surface (optional). If asphalt is used for rail groove filler, run locomotive across to cut flangeway.

Remove all construction debris from site and leave completed crossing in a clean condition. Package and ship loaned lifting hardware to plant (freight prepaid.)

