

DRAINAGE NOTES

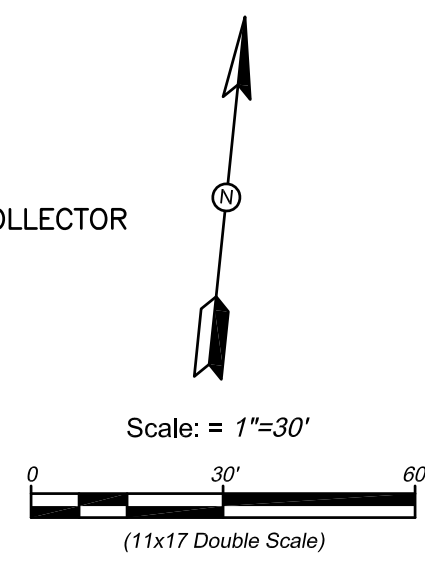
- SUBSURFACE DRAINAGE COLLECTOR PIPE CAN BE INSTALLED PRIOR TO FINAL ACCEPTANCE OF THE FIELD SUBGRADE.
- COORDINATION: IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL WATER SYSTEMS PIPING IS INSTALLED AT A SUFFICIENT DEPTH BELOW SUBGRADE BEFORE THE TRENCHING FOR THE SUBSURFACE DRAINAGE SYSTEMS TO AVOID CONFLICTS BETWEEN SYSTEMS.
- NO FIELD SUBSURFACE DRAINAGE (FLAT DRAINS OR TRADITIONAL TRENCHED ROUND PIPE) SHALL BE INSTALLED PRIOR TO THE APPROVAL OF THE PREPARED SUBGRADE DENSITY AND PLANARITY.
- ALL FLAT DRAIN PIPE IS TO BE INSTALLED ON AN APPROVED NON-WOVEN POLYPROPYLENE GEOTEXTILE. ALL TRENCHED SUBSURFACE DRAINAGE SHALL HAVE SIMILAR EQUAL FABRIC INSTALLED ALONG THE TRENCH WALLS AND ON THE SUBGRADE BETWEEN TRENCHES.
- TRENCHING FOR THE SUBSURFACE DRAINAGE LATERALS SHALL NOT PROCEED UNTIL THE IRRIGATION SYSTEM PIPING HAS BEEN BACKFILLED AND COMPACTED AND THE FIELD SUBGRADE IS APPROVED BY ENGINEER.
- TRENCH EXCAVATION SHALL BE MADE TO THE ALIGNMENT, ELEVATION, GRADE AND SLOPE AS INDICATED ON THE DRAWINGS. TRENCHING SHALL BE ACCOMPLISHED UTILIZING EQUIPMENT WITH SLOPE AND DEPTH CONTROL, SUCH AS "LASER PLANE CONTROL SYSTEM", SO AS TO ENSURE ACCURACY IN THE BOTTOM OF THE TRENCH.
- NO HIGH POINTS ABOVE DESIGNATED INVERT OR CALCULATED TRENCH BOTTOM ELEVATION WILL BE PERMITTED. NO SLOUGHING OF SITE MATERIAL OR LOOSE EXCAVATED SOIL WILL BE PERMITTED TO REMAIN IN THE TRENCHES.
- SURPLUS EXCAVATED SOIL SHALL BE REMOVED FROM THE FIELD AREA PRIOR TO COMMENCING ON THE NEXT ADJACENT TRENCH. EXCAVATED MATERIAL MAY NOT REMAIN ON SUBGRADE. PROVIDE A SMOOTH, EVEN SUBGRADE AFTER REMOVAL OF THE TRENCH MATERIAL. LEAVE NO LOOSE MATERIAL ON THE SUBGRADE.
- EXCAVATION BELOW INVERT GRADE MUST BE ESTABLISHED TO A DEPTH SO AS TO PROVIDE FOR SPECIFIED PLACEMENT OF PEA GRAVEL BEDDING AT BOTTOM OF PIPE ELEVATION PRIOR TO LAYING THE PERFORATED PIPE.
- NO FOREIGN MATERIAL WILL BE PERMITTED INSIDE, ALONGSIDE, UNDER, OR ON TOP OF THE PERFORATED DRAIN PIPE.
- THE BACKFILL FOR ALL PERFORATED PIPE SHALL BE CLEAN WASHED PEA GRAVEL. REFER TO THE SPECIFICATIONS FOR THE GRADATION REQUIREMENTS.
- ALL TRENCHES TO HAVE BACKFILL MATERIAL "CROWNED" A MINIMUM OF 2" ABOVE SUBGRADE TO PROTECT FROM FOREIGN MATERIAL AND PROVIDE FOR EASE OF LOCATION IDENTIFICATION. CROWNS WITH FOREIGN MATERIAL CONTAMINATION SHALL BE REMOVED PRIOR TO PLACEMENT OF BASE SAND OR BASE AGGREGATE.
- DURING PLACEMENT OF SPECIFIED TRENCH BACKFILL, PIPE MUST BE HELD IN PLACE TO PREVENT DISPLACEMENT AND PROVIDE FOR ACHIEVING SPECIFIED INVERT ELEVATION. DO NOT DAMAGE PIPE OR ALLOW PIPE TO BE DISPLACED BY PLACEMENT OF BACKFILL MATERIAL.
- CAP THE ENDS OF ALL LATERAL RUNS. ALL OPEN ENDS DURING CONSTRUCTION ARE TO BE TEMPORARILY CAPPED OR PLUGGED.
- CONNECTION OF LATERALS TO COLLECTOR DRAINS SHALL BE MADE WITH A COMBINATION REDUCING TEE AND REDUCING SADDLE TEE.
- NO TRUCKS OR EQUIPMENT WILL BE ALLOWED TO DRIVE OVER THE TOP OF THE TRENCHES EXCEPT TRACK-EQUIPPED MACHINERY. UTILIZED IN SPREADING IMPORTED SAND OR BASE AGGREGATE MATERIALS. BACKFILLED TRENCHES ARE TO BE STAKED AND FLAGGED 3' ABOVE GRADE AT MAXIMUM 30' SPACING FOR IDENTITY.

NOTE LEGEND

- () (INDICATES GENERAL CONSTRUCTION NOTE)
- (3) (INDICATES SPECIFIC CONSTRUCTION KEYNOTE)

DRAINAGE LEGEND

- END CAP
- FLATDRAIN 12"x1"
- 4" PERF. CPEP
- CPEP SUBSURFACE DRAINAGE COLLECTOR OR STORM DRAIN PIPE
- S=0.50% PIPE SLOPE
- ← FLOW DIRECTION
- IE 94.30 INVERT ELEVATION
- CIE 93.00 COLLECTOR INVERT ELEVATION
- SLOT DRAIN
- TYPE 1 AND SLOT DRAIN CATCH BASIN
- ⊙ TYPE 2 AND SLOT DRAIN CATCH BASIN
- ⊙ SLOT DRAIN CATCH BASIN
- ◆ TYPE 1 CATCH BASIN
- GHEO THERMAL SUPPLY & RETURN
- SLEEVE



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Drawn By:	CPW, JS	Director Decision Date:	N/A
Designed By:	EUG	First Submittal Date:	01-07-2015
Checked By:	EUG, RSH	Second Submittal Date:	01-27-2015
Approved:	By: [Signature]	City Approval Date:	
	By: [Signature]		
	By: [Signature]		
	By: [Signature]		

OREGON TECH TRACK AND SOCCER PROJECT
 CONSTRUCTION DOCUMENTS
 MAP NO. 38-09-00, TAX LOT 4900
 3201 CAMPUS DRIVE, KLAMATH FALLS, OREGON
 CITY PROJECT NO. OIT-2704-P-13-17

VERIFY SCALES
 ORIGINAL DRAWING: BAR IS ONE INCH LONG
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

REGISTERED LANDSCAPE ARCHITECT
 548
 ROBERT HARDING
 OREGON
 05/31/15

SHEET
F-3.1
 FIELD & TRACK DRAINAGE PLAN