

CHURCHILL HIGH SCHOOL SOFTBALL FIELD

EUGENE, OREGON

GENERAL NOTES

- SURVEY PROVIDED BY KPFF, DATED MAY 4, 2018. ELEVATIONS ARE BASED ON CITY OF EUGENE VERTICAL DATUM ESTABLISHED PER BENCH MARK NO. SW0892 (3-INCH BRASS DISK) LOCATED IN THE TOP OF THE CURB AT THE SW CORNER OF BAILEY HILL RD. AND WARREN ST. WITH AN ELEVATION OF 437.870'.
- CONSTRUCTION LAYOUT (ALL ACTUAL LINES AND GRADES) SHALL BE STAKED BY A PROFESSIONAL SURVEYOR, REGISTERED IN THE STATE OF OREGON, BASED ON COORDINATES, DIMENSIONS, BEARINGS, AND ELEVATIONS, AS SHOWN, ON THE PLANS.
- PROJECT CONTROL SHALL BE FIELD VERIFIED AND CHECKED FOR RELATIVE HORIZONTAL POSITION PRIOR TO BEGINNING CONSTRUCTION LAYOUT. SEE SHEET C2.0 FOR PROJECT CONTROL INFORMATION.
- PROJECT CONTROL SHALL BE FIELD VERIFIED AND CHECKED FOR RELATIVE VERTICAL POSITION BASED ON THE BENCHMARK STATED HEREON, PRIOR TO BEGINNING CONSTRUCTION LAYOUT.
- CONTRACTOR SHALL PRESERVE AND PROTECT FROM DAMAGE ALL EXISTING MONUMENTATION DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND PAYING FOR THE REPLACEMENT OF ANY MONUMENTS DAMAGED OR REMOVED DURING CONSTRUCTION. NEW MONUMENTS SHALL BE REESTABLISHED BY A LICENSED SURVEYOR.
- ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THESE PLANS, THE PROJECT SPECIFICATIONS AND THE APPLICABLE REQUIREMENTS OF THE 2018 OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION.
- THE COMPLETED INSTALLATION SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES, ORDINANCES AND REGULATIONS. ALL PERMITS, LICENSES AND INSPECTIONS REQUIRED BY THE GOVERNING AUTHORITIES FOR THE EXECUTION AND COMPLETION OF WORK SHALL BE SECURED BY THE CONTRACTOR PRIOR TO COMMENCING CONSTRUCTION.
- ATTENTION: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER. (NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS (503) 232-1987). EXCAVATORS MUST NOTIFY ALL PERTINENT COMPANIES OR AGENCIES WITH UNDERGROUND UTILITIES IN THE PROJECT AREA AT LEAST 48 BUSINESS-DAY HOURS, BUT NOT MORE THAN 10 BUSINESS DAYS PRIOR TO COMMENCING AN EXCAVATION, SO UTILITIES MAY BE ACCURATELY LOCATED.
- THE LOCATION OF EXISTING UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND ARE NOT GUARANTEED TO BE COMPLETE OR ACCURATE. CONTRACTOR SHALL VERIFY ELEVATIONS, PIPE SIZE, AND MATERIAL TYPES OF ALL UNDERGROUND UTILITIES PRIOR TO COMMENCING WITH CONSTRUCTION AND SHALL BRING ANY DISCREPANCIES TO THE ATTENTION OF KPFF CONSULTING ENGINEERS, 72 HOURS PRIOR TO START OF CONSTRUCTION TO PREVENT GRADE AND ALIGNMENT CONFLICTS.
- THE ENGINEER OR OWNER IS NOT RESPONSIBLE FOR THE SAFETY OF THE CONTRACTOR OR HIS CREW. ALL O.S.H.A. REGULATIONS SHALL BE STRICTLY ADHERED TO IN THE PERFORMANCE OF THE WORK.
- TEMPORARY AND PERMANENT EROSION CONTROL MEASURES SHALL BE IMPLEMENTED. THE CONTRACTOR SHALL ADHERE TO CITY OF CITY OF EUGENE FOR MINIMUM EROSION CONTROL MEASURES. THE ESC FACILITIES SHOWN IN THESE PLANS ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT LEAVE THE SITE.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL ROADWAYS, KEEPING THEM CLEAN AND FREE OF CONSTRUCTION MATERIALS AND DEBRIS, AND PROVIDING DUST CONTROL AS REQUIRED.
- CONTRACTOR SHALL MAINTAIN ALL UTILITIES TO CHURCHILL HIGH SCHOOL AT ALL TIMES DURING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND SCHEDULING ALL WORK WITH THE OWNER.
- NOTIFY CITY OF EUGENE INSPECTOR 72 HOURS BEFORE STARTING WORK. A PRECONSTRUCTION MEETING WITH THE OWNER, THE OWNER'S ENGINEER, CONTRACTOR AND TH CITY OF EUGENE REPRESENTATIVE SHALL BE REQUIRED.

CONSTRUCTION NOTES

GENERAL

- SUBGRADE AND TRENCH BACKFILL SHALL BE COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-698. FLOODING OR JETTING THE BACKFILLED TRENCHES WITH WATER IS NOT PERMITTED.
- SPECIAL INSPECTION REQUIRED FOR ALL COMPACTION TESTING.

DEMOLITION

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION AND DISPOSAL OF EXISTING AC, CURBS, SIDEWALKS AND OTHER SITE ELEMENTS WITHIN THE SITE AREA IDENTIFIED IN THE PLANS.
- EXCEPT FOR MATERIALS INDICATED TO BE STOCKPILED OR TO REMAIN ON OWNER'S PROPERTY, CLEARED MATERIALS SHALL BECOME CONTRACTOR'S PROPERTY, REMOVED FROM THE SITE, AND DISPOSED OF PROPERLY.
- ALL LANDSCAPING, PAVEMENT, CURBS AND SIDEWALKS, BEYOND THE IDENTIFIED SITE AREA, DAMAGED DURING THE CONSTRUCTION SHALL BE REPLACED TO THEIR ORIGINAL CONDITION OR BETTER.

UTILITIES

- ADJUST ALL INCIDENTAL STRUCTURES, MANHOLES, VALVE BOXES, CATCH BASINS, FRAMES AND COVERS, ETC. TO FINISHED GRADE.
- CONTRACTOR SHALL ADJUST ALL EXISTING AND/OR NEW FLEXIBLE UTILITIES (WATER, TV, TELEPHONE, ELEC., ETC.) TO CLEAR ANY EXISTING OR NEW GRAVITY DRAIN UTILITIES (STORM DRAIN, SANITARY SEWER, ETC.) IF CONFLICT OCCURS.
- CONTRACTOR SHALL COORDINATE WITH PRIVATE UTILITY COMPANIES FOR THE INSTALLATION OF OR ADJUSTMENT TO GAS, ELECTRICAL, POWER AND TELEPHONE SERVICE.
- BEFORE BACKFILLING ANY SUBGRADE UTILITY IMPROVEMENTS CONTRACTOR SHALL SURVEY AND RECORD MEASUREMENTS OF EXACT LOCATION AND DEPTH AND SUBMIT TO ENGINEER AND OWNER.
- ALL WORK TO CONFORM TO THE 2017 OREGON PLUMBING SPECIALTY CODE
- CONTRACTOR TO DOCUMENT LOCATION OF ALL DISTURBED EXISTING IRRIGATION SERVICES AND REPLACE IN KIND.

STORM AND SANITARY

- CONNECTIONS TO EXISTING STORM AND SANITARY SEWERS SHALL CONFORM TO THE 2018 OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION, SECTION 00490, "WORK ON EXISTING SEWERS AND STRUCTURES".
- BEGIN LAYING STORM DRAIN AND SANITARY SEWER PIPE AT THE LOW POINT OF THE SYSTEM, TRUE TO GRADE AND ALIGNMENT INDICATED WITH UNBROKEN CONTINUITY OF INVERT. THE CONTRACTOR SHALL ESTABLISH LINE AND GRADE FOR THE STORM AND SANITARY SEWER PIPE USING A LASER.
- ALL ROOF DRAIN AND CATCH BASIN LEADERS SHALL HAVE A MINIMUM SLOPE OF 2 PERCENT UNLESS NOTED OTHERWISE IN THE PLANS.
- ALL HORIZONTAL CONNECTIONS TO THE SANITARY OR STORM SEWERS SHALL BE OF THE 'WYE' BRANCH TYPE.

EARTHWORKS

- CONTRACTOR SHALL PREVENT SEDIMENTS AND SEDIMENT LADEN WATER FROM ENTERING THE STORM DRAINAGE SYSTEM.
- TRENCH BEDDING AND BACKFILL SHALL BE AS SHOWN ON THE PIPE BEDDING AND BACKFILL DETAIL, THE PROJECT SPECIFICATIONS AND AS REQUIRED IN THE SOILS REPORT. FLOODING OR JETTING THE BACKFILLED TRENCHES WITH WATER WILL NOT BE PERMITTED.

SEPARATION STATEMENT

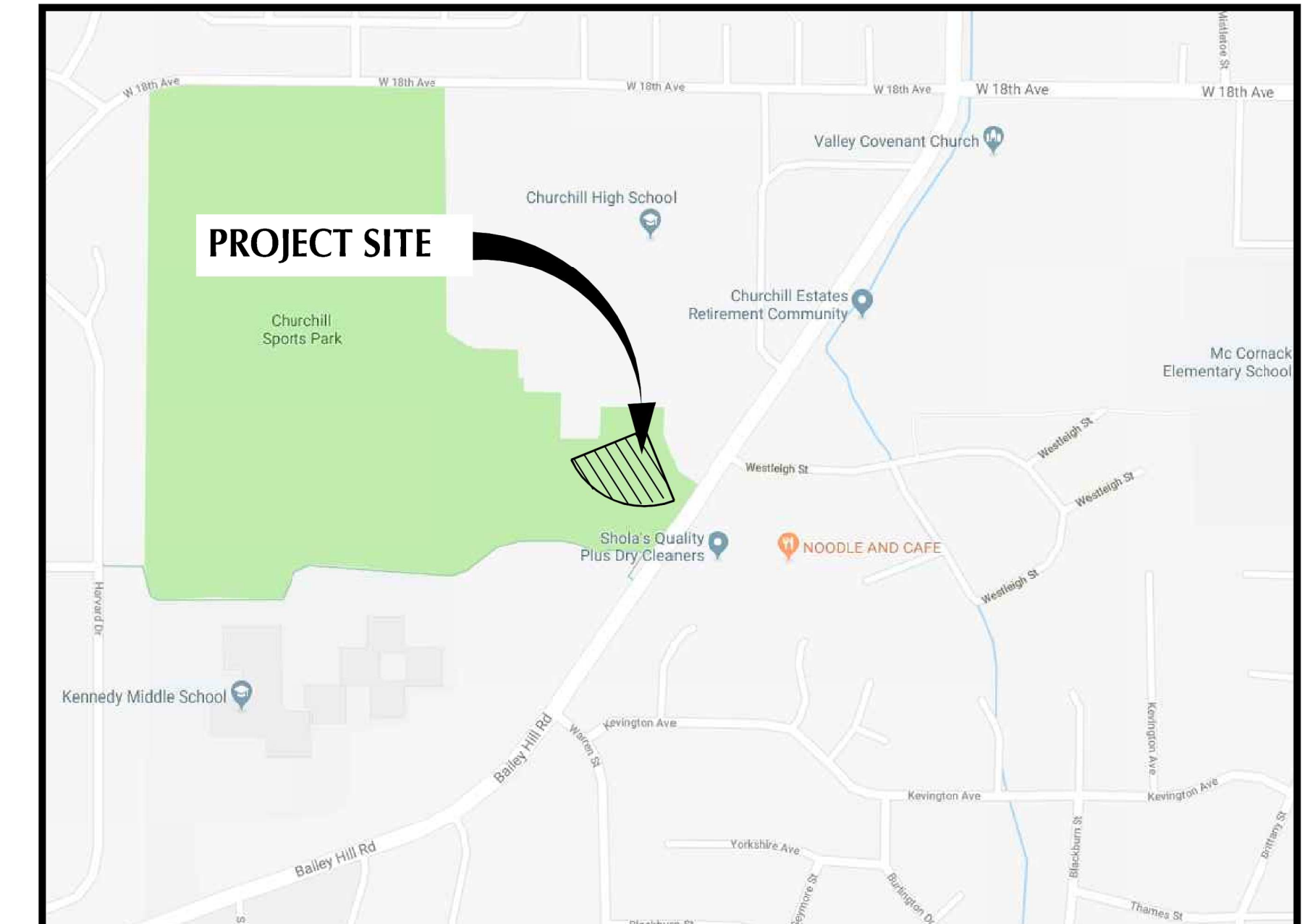
ALL WATER MAIN CROSSINGS SHALL CONFORM TO THE OREGON STATE HEALTH DEPARTMENT, CHAPTER 333. WATER MAINS SHALL CROSS OVER SANITARY SEWERS WITH A 18" MINIMUM CLEARANCE BETWEEN OUTSIDE DIAMETERS OF PIPE WITH ALL PIPE JOINTS EQUIDISTANT FROM CROSSING. HORIZONTAL SEPARATION BETWEEN WATER MAINS AND SANITARY SEWERS IN PARALLEL INSTALLATIONS SHALL BE 10'. MAINTAIN 12" MINIMUM VERTICAL DISTANCE FOR ALL OTHER UTILITY CROSSINGS AND 12" HORIZONTAL PARALLEL DISTANCE. IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN THE MINIMUM 10' HORIZONTAL SEPARATION, THE WATER MAIN SHALL BE LAID ON A SEPARATE SHELF IN THE TRENCH 18" INCHES ABOVE THE SEWER.

MATERIAL NOTES

- GENERAL: MATERIALS SHALL BE NEW. THE USE OF MANUFACTURER'S NAMES, MODELS, AND NUMBERS IS INTENDED TO ESTABLISH STYLE, QUALITY, APPEARANCE, AND USEFULNESS. PROPOSED SUBSTITUTIONS WILL REQUIRE WRITTEN APPROVAL FROM KPFF PRIOR TO INSTALLATION.
- STORM AND SANITARY SEWER PIPING SHALL BE PVC PIPE CONFORMING TO THE PROJECT SPECIFICATIONS; AS INDICATED IN THE PLANS.

ABBREVIATIONS

BCO	BURIED CLEANOUT
BWV	BACKWATER VALVE
CB	CATCH BASIN
CO	CLEANOUT
E	EASTING
EXIST./EX	EXISTING
HP	HIGH POINT
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
INV	INVERT
MH	MANHOLE
MIN	MINIMUM
N	NORTHING
O.D	OUTSIDE DIAMETER
P/L	PROPERTY LINE
PVC	POLYVINYL CHLORIDE
R.O.W	RIGHT-OF-WAY
S	SLOPE (FT/FT)
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SHT	SHEET
TYP	TYPICAL
W/	WITH



MAP FROM: GOOGLE MAPS ©

VICINITY MAP

SCALE: NTS

PROJECT CONTACTS

OWNER:
4J SCHOOL DISTRICT
 200 N MONROE STREET
 EUGENE, OREGON 97402
 TEL: 503-790-7427
 CONTACT: KIRK GEBB
 CIVIL ENGINEER/PROJECT MANAGER:
KPFF CONSULTING ENGINEERS
 1201 OAK STREET, SUITE 100
 EUGENE, OREGON 97401
 TEL: 541-684-4902
 CONTACT: PETE MILLER, PE

SHEET INDEX

SHEET COUNT	SHEET NUMBER	SHEET NAME
1	C1.0	CIVIL NOTES AND ABBREVIATIONS
2	C2.0	GRADING PLAN
3	C3.0	UTILITY PLAN
4	C4.0	CIVIL DETAILS

NOTICE TO EXCAVATORS:
 ATTENTION: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER.
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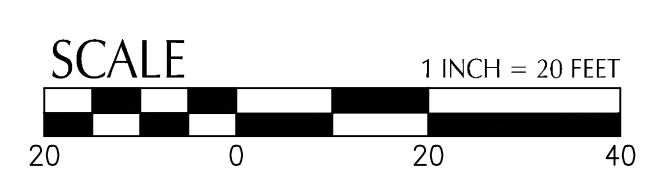
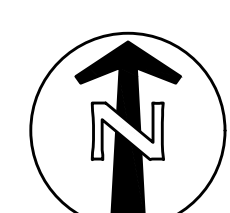
POTENTIAL UNDERGROUND FACILITY OWNERS

Dig Safely.

Call the Oregon One-Call Center
 1-800-332-2344

File: O:\e\p\2018\1800107-Churchill-HS-Sports-Field\CAD\PL01\800107-01CV.dwg TAB: C1.0 22x34 Plotted: 6/13/18 at 1:45pm By: WMorris

REVISION	DATE	DESCRIPTION	BY



JOB No.:	1800107
DESIGNED BY:	ALB
DRAWN BY:	WTM
CHECKED BY:	PM
PLOT DATE:	6/13/18 1:45pm
PLOTTED BY:	WMorris
DWG NAME:	800107-01CV.dwg
TAB NAME:	C1.0

4J School District

CHURCHILL HIGH SCHOOL
SOFTBALL FIELD

CIVIL NOTES AND ABBREVIATIONS

SHEET NO.

C1.0

SHEET 1 OF 4
RECORD NO. 1800107

SHEET NOTES

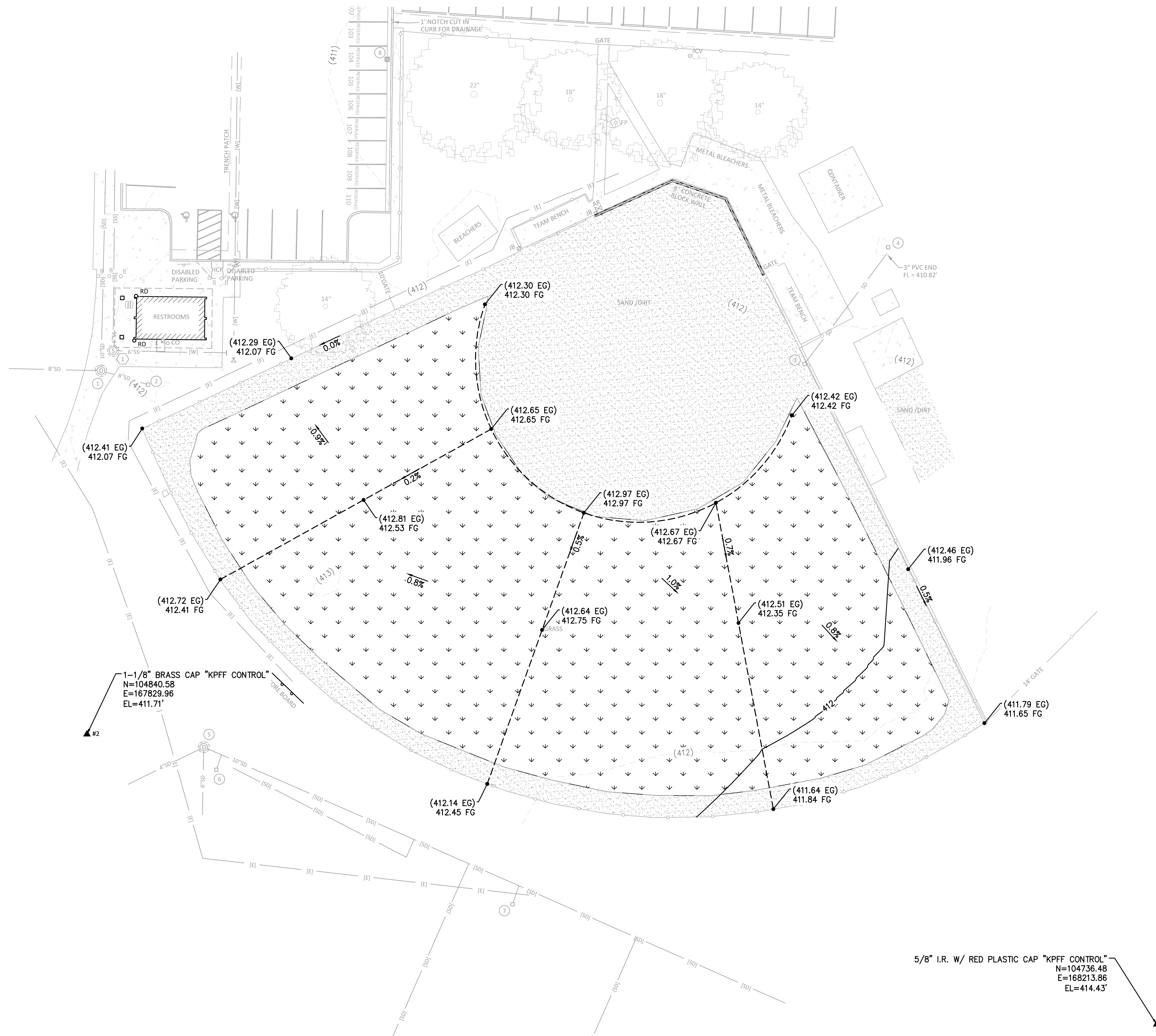
1. PHOTO DOCUMENT IRRIGATION SYSTEM PRIOR TO CONSTRUCTION AND REPLACE IN KIND. SEE SHEET C3.0.

GRADING LABEL LEGEND

CALLOUT	DESCRIPTION
X.X%	GRADING SLOPE AND DIRECTION (DOWNHILL)
XX.XX	SPOT ELEVATION
XX	DESCRIPTION LISTED BELOW. NO DESCRIPTION MEANS TP OR TG
EG	EXISTING GRADE
FG	FINISHED GRADE
(XXX.X±)	EXISTING GRADE (MATCH WHERE APPLICABLE)

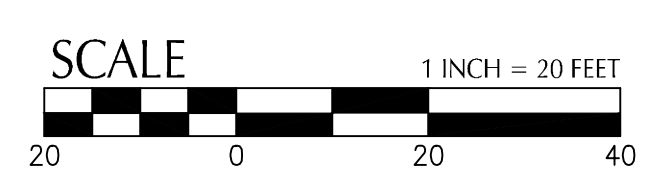
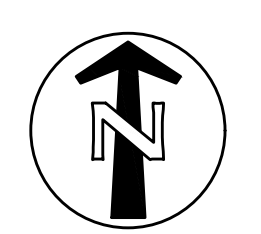
SHEET LEGEND

SYMBOL	DESCRIPTION	DETAIL REF.
	DRAINAGE FLOW DIRECTION	
	GRADE BREAK	
	EX. CONTOUR MINOR	
	EX. CONTOUR MAJOR	
	CONTOUR MINOR (FG)	
	CONTOUR MAJOR (FG)	
	CONVEYANCE SWALE	
	NEW SOIL & SEEDING	2/C4.0



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REVISION	DATE	DESCRIPTION	BY

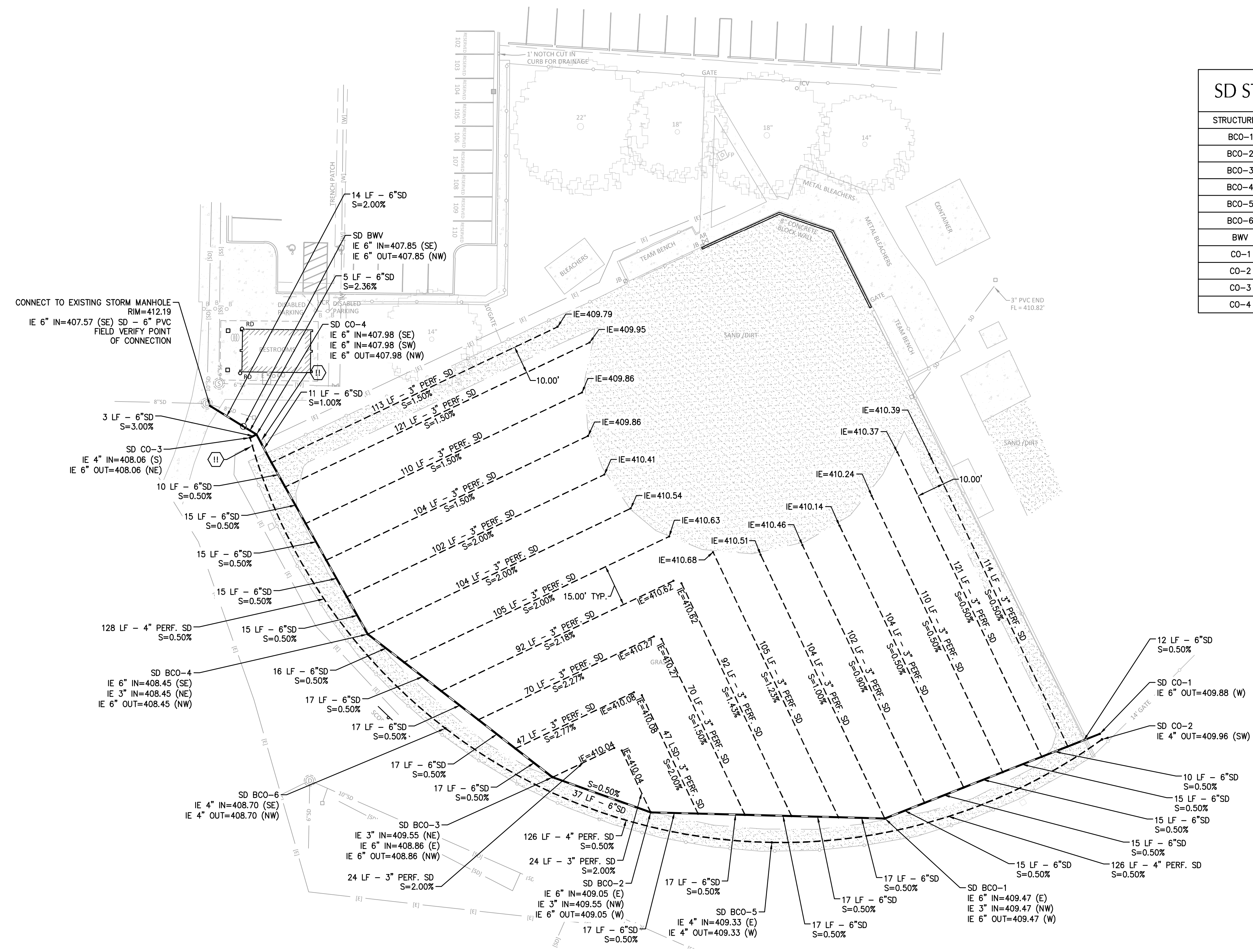


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4J School District
CHURCHILL HIGH SCHOOL SOFTBALL FIELD
GRADING PLAN

SHEET NO.	C2.0
SHEET	2 OF 4
RECORD NO.	1800107

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 22x34 Plotted: 6/28/18 at 2:25pm By: ABackus



SD STRUCTURE TABLE

STRUCTURE ID	NORTHING	EASTING
BCO-1	104822.39	168077.84
BCO-2	104824.59	167994.01
BCO-3	104837.17	167958.84
BCO-4	104888.43	167892.63
BCO-5	104813.80	168037.39
BCO-6	104854.68	167920.43
BWV	104962.83	167848.12
CO-1	104852.71	168154.85
CO-2	104850.71	168155.68
CO-3	104958.79	167850.44
CO-4	104959.94	167852.79

- ### SHEET NOTES
- PIPE BEDDING AND BACKFILL FOR ALL UTILITIES SHALL BE DONE PER DETAIL 1/C4.0.
 - PERF PIPE BEDDING AND BACKFILL SHALL BE DONE PER DETAIL 2/C4.0

- ### UTILITY KEY NOTES
- NOTE** DESCRIPTION DETAIL REF.
- II UTILITY CROSSING. PROVIDE 12" MIN. CLEARANCE, U.N.O.

UTILITY LABEL LEGEND

STRUCTURE LABEL

- UTILITY TYPE (SD=STORM DRAINAGE)
- STRUCTURE TYPE CALLOUT
- ID NUMBER (WHERE APPLICABLE)

XX XX-XX
 X+XX.X RT X.X' ← LOCATION (WHERE APPLICABLE)
 RIM= ← STRUCTURE INFO (WHERE APPLICABLE)
 IE IN = XX.X
 IE OUT = XX.X

PIPE LABEL

- UTILITY LENGTH
- UTILITY SIZE
- UTILITY TYPE

XXLF - XX" XX
 S=X.XX% ← SLOPE (WHERE APPLICABLE)

STRUCTURE TYPE

CALLOUT	DESCRIPTION	DETAIL REF.
BCO	BURIED CLEANOUT	5/C4.0
BWV	BACKWATER VALVE	3/C4.0
CO	CLEANOUT TO GRADE	4/C4.0

- ### IRRIGATION NOTES
- CONTRACTOR TO PHOTO DOCUMENT AND REDLINE PLANS FOR FOUND EXISTING IRRIGATION. IRRIGATION TO BE REPLACED IN KIND PER BELOW.
 - IRRIGATION CONTRACTOR TO HAVE A VALID OREGON LANDSCAPE CONTRACTORS AND LANDSCAPE BUSINESS LICENSE.
 - MATERIALS AND INSTALLATION TO BE PER SPECIFICATIONS.

REVISION	DATE	DESCRIPTION	BY



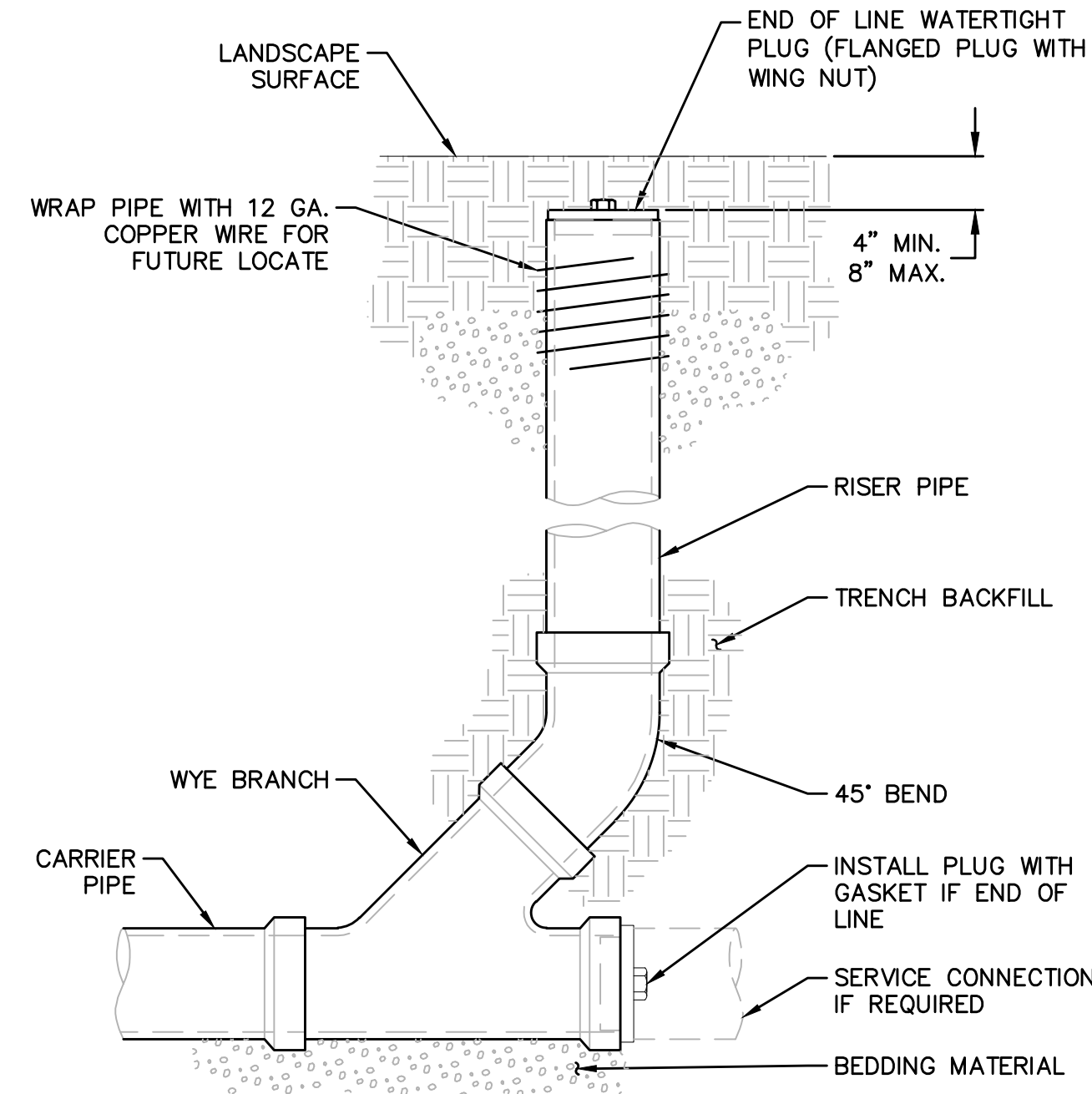
SCALE




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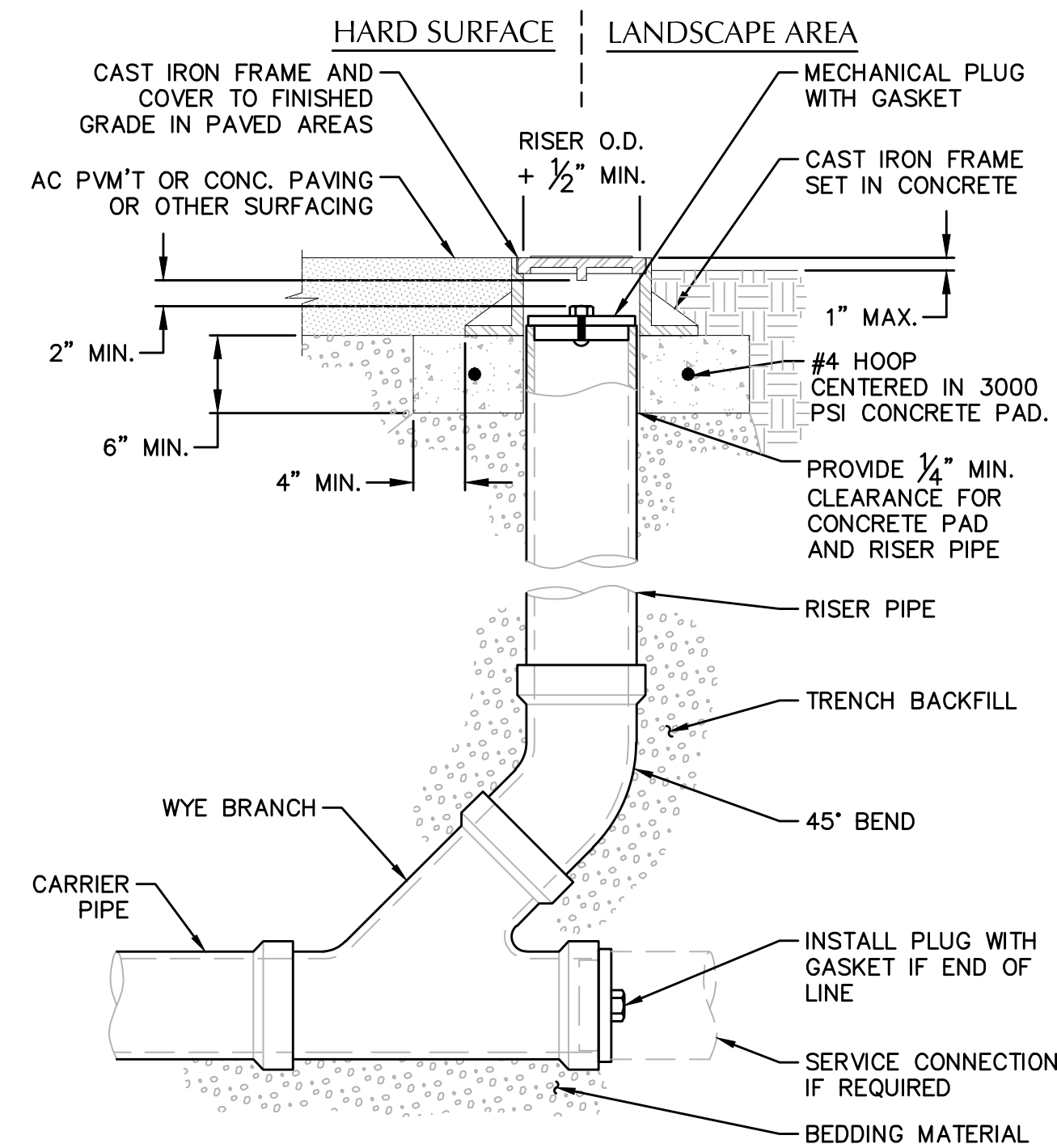
4J School District
 CHURCHILL HIGH SCHOOL
 SOFTBALL FIELD
 UTILITY PLAN

SHEET NO.
C3.0
 SHEET 3 OF 4
 RECORD NO.
 1800107



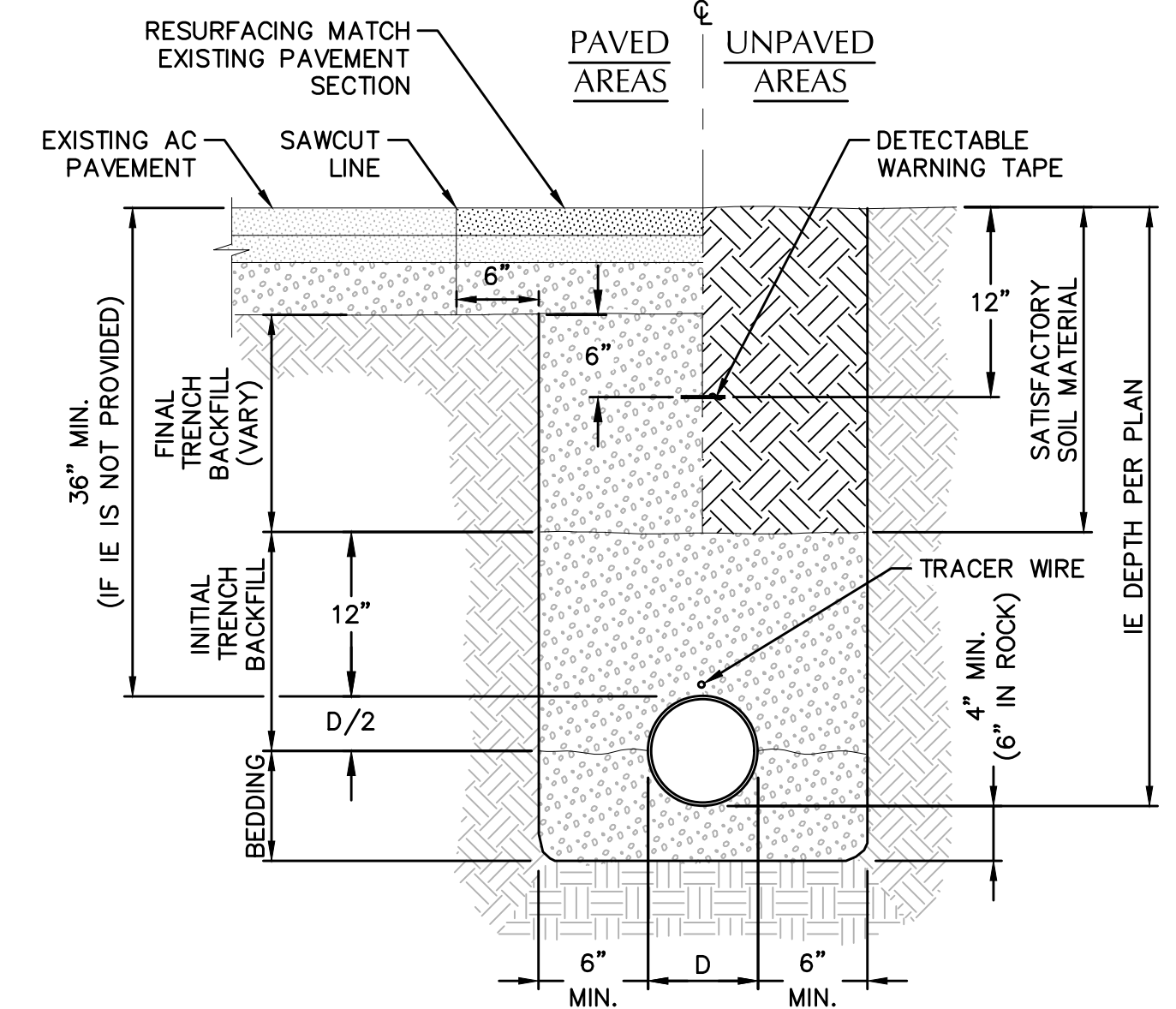
- NOTES:**
1. FOR CARRIER PIPE SIZE 6"Ø AND LESS, PROVIDE RISER PIPE SIZE TO MATCH CARRIER PIPE.
 2. FOR CARRIER PIPE SIZE 8"Ø AND LARGER, RISER PIPE SHALL BE 6"Ø.
 3. RISER PIPE MATERIAL TO MATCH CARRIER PIPE MATERIAL.

5 BURIED CLEANOUT
SCALE: NTS

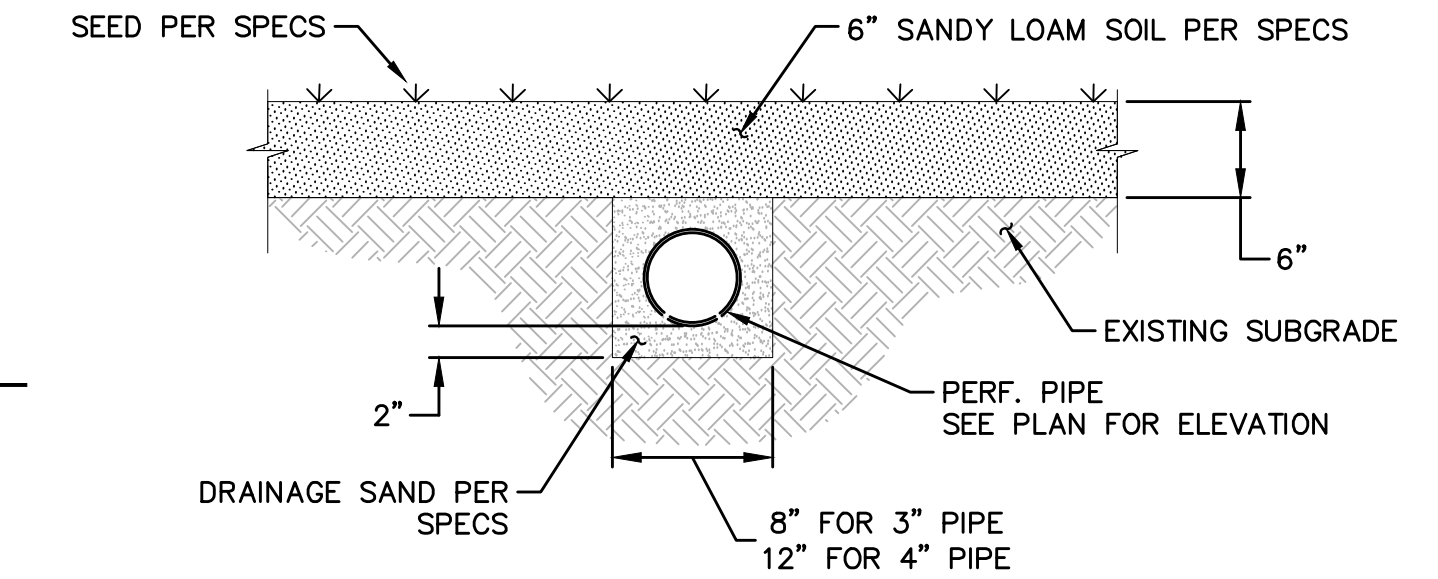


- NOTES:**
1. CAST IRON FRAME AND COVER SHALL MEET H-20 LOAD REQUIREMENT.
 2. FOR CARRIER PIPE SIZE 6"Ø AND LESS, PROVIDE RISER PIPE SIZE TO MATCH CARRIER PIPE.
 3. FOR CARRIER PIPE SIZE 8"Ø AND LARGER, RISER PIPE SHALL BE 6"Ø.
 4. RISER PIPE MATERIAL TO MATCH CARRIER PIPE MATERIAL.

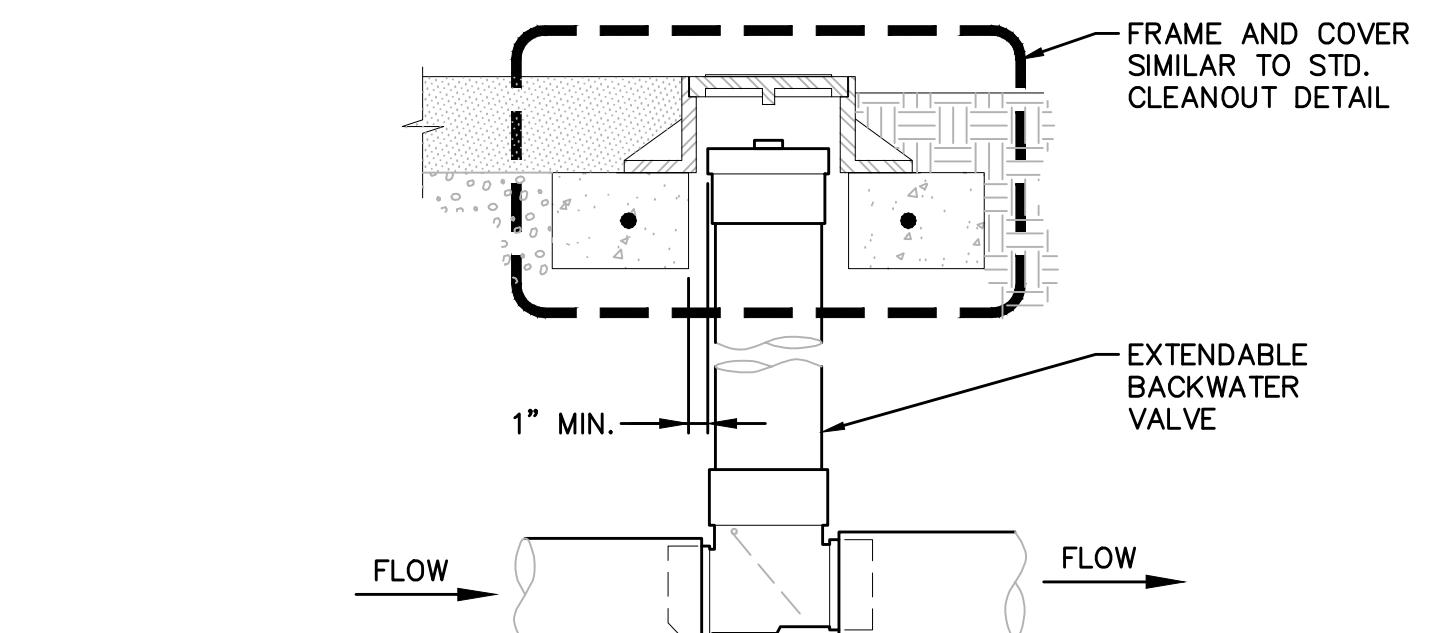
4 STANDARD CLEANOUT (COTG)
SCALE: NTS



1 TYPICAL PIPE BEDDING AND BACKFILL
SCALE: NTS



2 TYPICAL PERFORATED PIPE BEDDING AND BACKFILL
SCALE: NTS

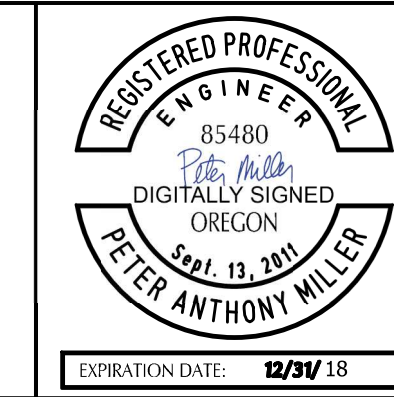
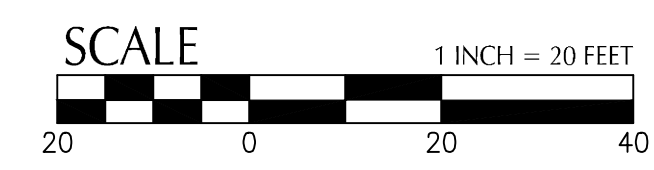
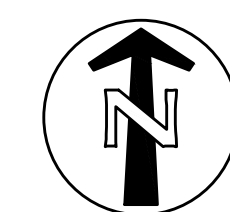


- NOTES:**
1. EXTENDABLE BACKWATER VALVE TO BE MANUFACTURED BY CLEAN CHECK OR APPROVED EQUAL AND SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

3 EXTENDABLE BACKWATER VALVE
SCALE: NTS

File: O:\c\p\2018\1800107-Churchill-HS-Sports-Field\CAD\PL01\800107-04DT.dwg TAB: C4.0
22x34 Plotted: 6/28/18 at 4:11pm By: ABackus

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4J School District
CHURCHILL HIGH SCHOOL
SOFTBALL FIELD
CIVIL DETAILS

SHEET NO.
C4.0
SHEET 4 OF 4
RECORD NO.
1800107