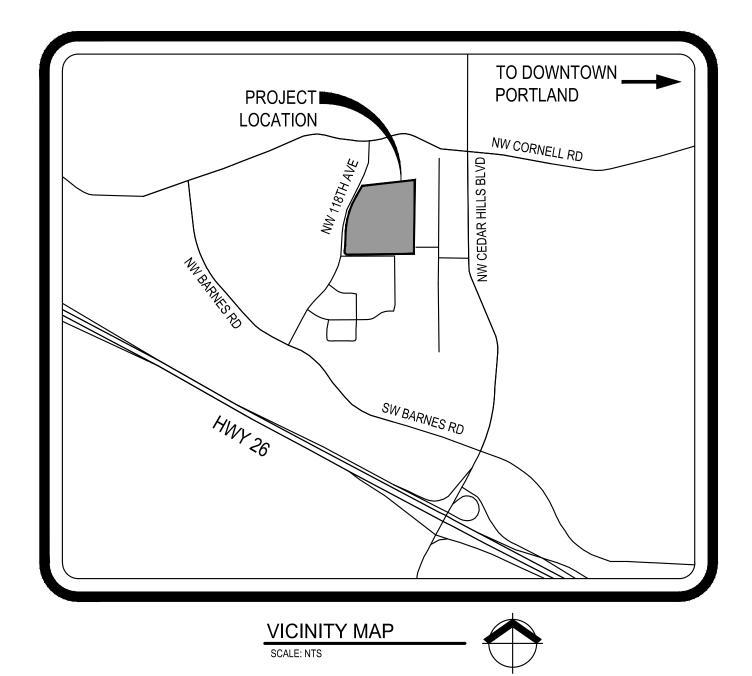
# TIMBERLAND MIDDLE SCHOOL PARKING EXPANSION PREPARED FOR:



#### PROJECT TEAM

#### OWNER

BEAVERTON SCHOOL DISTRICT ATTN: SCOTT JOHNSON 16550 SW MERLO ROAD BEAVERTON, OR 97006 PHONE: 503-356-4552

**CIVIL ENGINEER** 

CARDNO ATTN: MATT LEWIS, PE 6720 SW MACADAM AVE, SUITE 200 PORTLAND, OR 97219 PHONE: 503-419-2500

#### LANDSCAPE ARCHITECT

CARDNO ATTN: BECKY STRICKLER, PLA 6720 SW MACADAM AVE, SUITE 200 PORTLAND, OR 97219 PHONE: 503-419-2500

## PLANNER

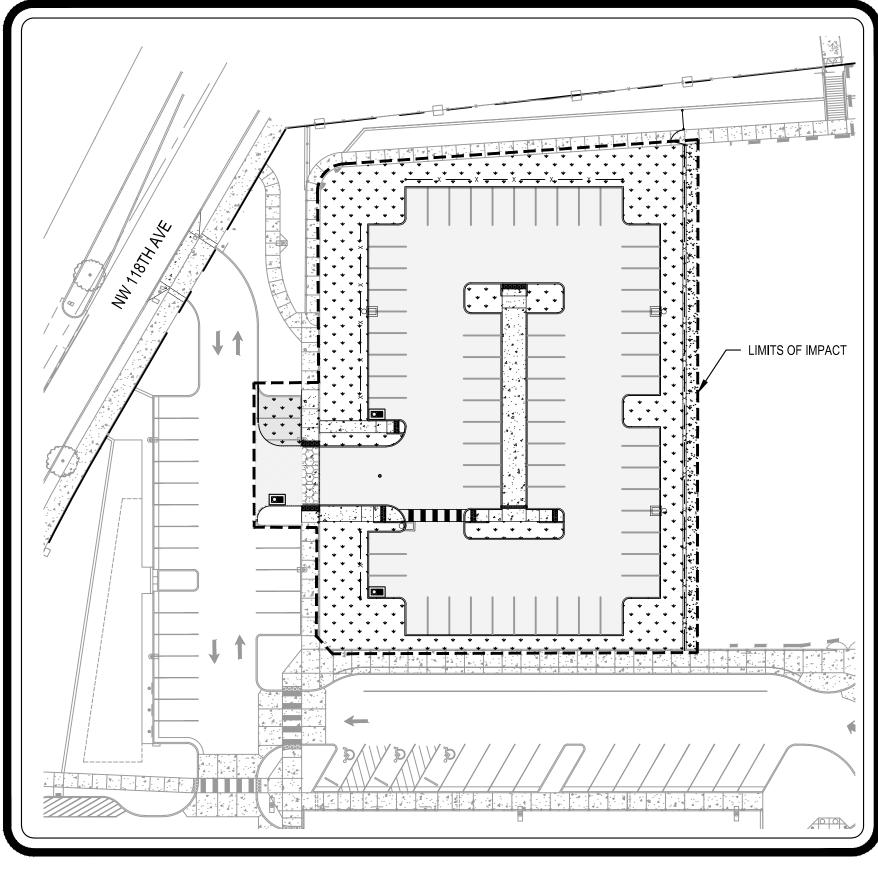
ANGELO PLANNING GROUP ATTN: FRANK ANGELO 921 SW WASHINGTON STREET, STE 468 PORTLAND, OR 97205 PHONE: 503-227-3664

#### ELECTRICAL ENGINEER

INTERFACE ENGINEERING ATTN: DAVID CHESLEY 708 SW THIRD AVENUE, STE 400 PORTLAND, OR 97204 PHONE: 503-382-2685

**BEAVERTON SCHOOL DISTRICT** 

BEAVERTON, OREGON





### SITE INFORMATION

650 NW 118TH AVE., PORTLAND, OR 97229 LOCATED AT THE NORTHEAST CORNER OF NW 118TH AVENUE AND NW STONE MOUNTAIN LANE. TAX LOT: 1N1 34 CA - 900

### **BENCHMARK/BASIS OF BEARING**

THE ELEVATIONS ARE BASED ON A RIM OF A CATCH BASIN ALONG NW STONE MOUNTAIN LANE, ELEVATION = 287.77, AS SHOWN ON THE SURVEY BY HAGEDOWN, INC., DATED FEBRUARY 21, 2011.

#### UNDERGROUND ACCURACY STATEMENT

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND/OR EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED, ALTHOUGH WE CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. DUE TO THE HAZARDOUS NATURE AND APPLICABLE OSHA REQUIREMENTS REGARDING CONFINED SPACES, IT IS CARDNO POLICY TO NOT SEND FIELD STAFF INTO UTILITY MANHOLES TO RETRIEVE DEPTH AND SIZE INFORMATION. INFORMATION SHOWN HEREON IS SUBJECT TO AN UNCERTAINTY IN ACCURACY DEPENDING ON DEPTH, SIZE, FLOW, AND CONSTRUCTION OF MANHOLES. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITY LINES.

**OREGON UTILITY** NOTIFICATION CENTER 1-800-332-2344



SHEET INDEX

C000 C001

C100

C110

C200

C300

C400

C500

L100 L101

L200

1201

E001

E100

EC01

EC02

EC03

E100 - PH

COVER SHEET

SITE PLAN

GRADING PLAN

SITE DETAILS

PLANTING PLAN

IRRIGATION PLAN

**GENERAL NOTES** 

**EXISTING CONDITIONS** 

COMPOSITE UTILITY PLAN

PLANTING DETAILS & NOTES

**COVER SHEET - LIGHTING** 

SITE PLAN - LIGHTING LIGHTING PHOTOMETRICS

EC DETAILS & NOTES

**IRRIGATION DETAILS AND NOTES** 

EXISTING EROSION CONTROL PLAN

PROPOSED EROSION CONTROL PLAN

FIELD CIVIL PLAN & DETAILS TURF FIELD CONSTRUCTION ACCESS PLAN

DEMOLITION PLAN



BEAVERTON	SCHOOL DISTRICT
Ŕ	N

## **EXPANSION** ARKING DISTRICT Π **IOOH** MS $\mathbf{O}$ 0 Z S OR BEAVERTON 4 SHEE. TIMBERL BEAVERTON OVER 01/04/2019 DATE SPC/KNY DRAWN DESIGNED SPC/KNY CHECKED | MCL PROJECT # 21813760

ဟ DOCUMENT TION TRUC <u>SNO</u>

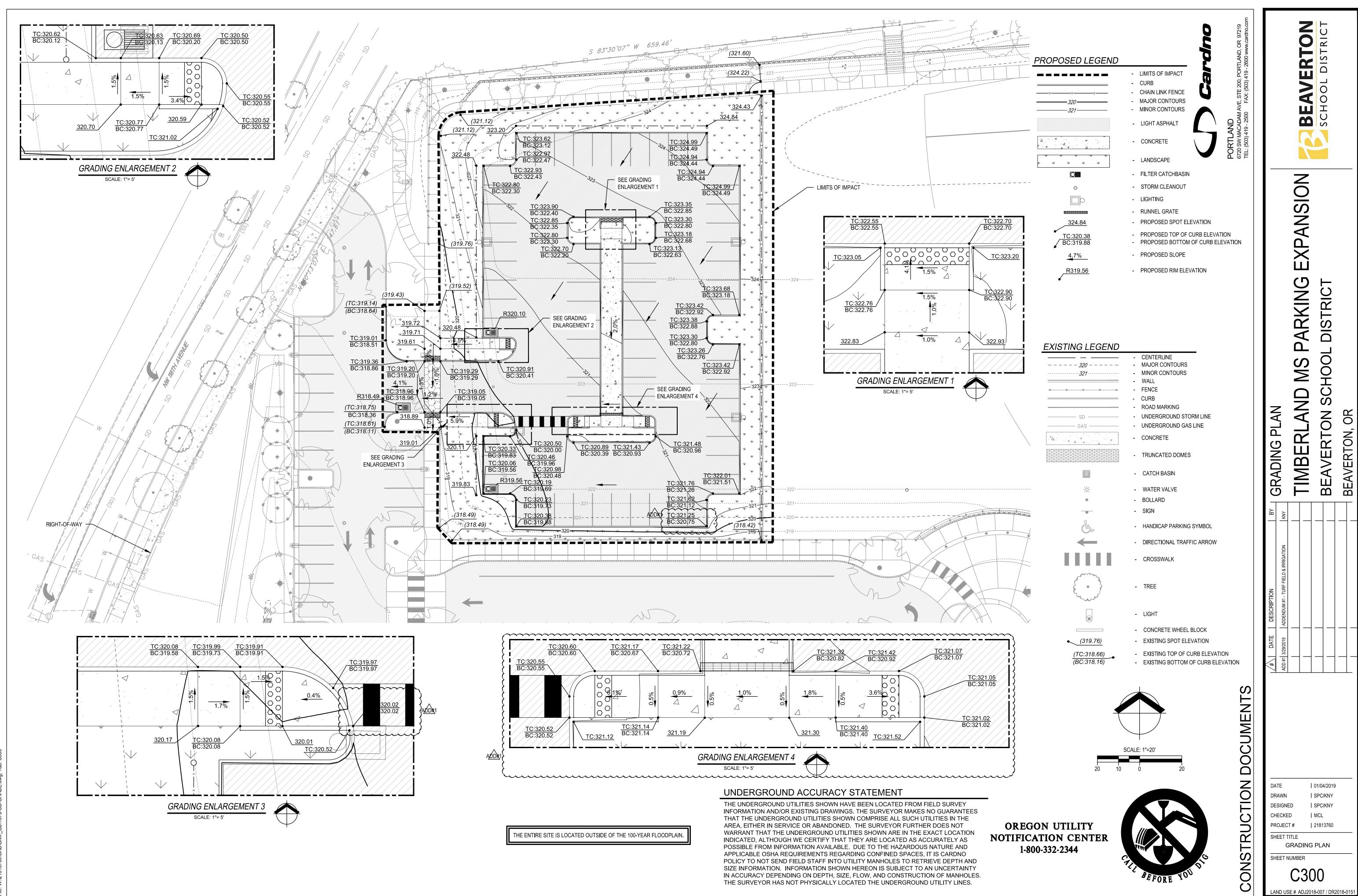
 $\mathbf{O}$ 

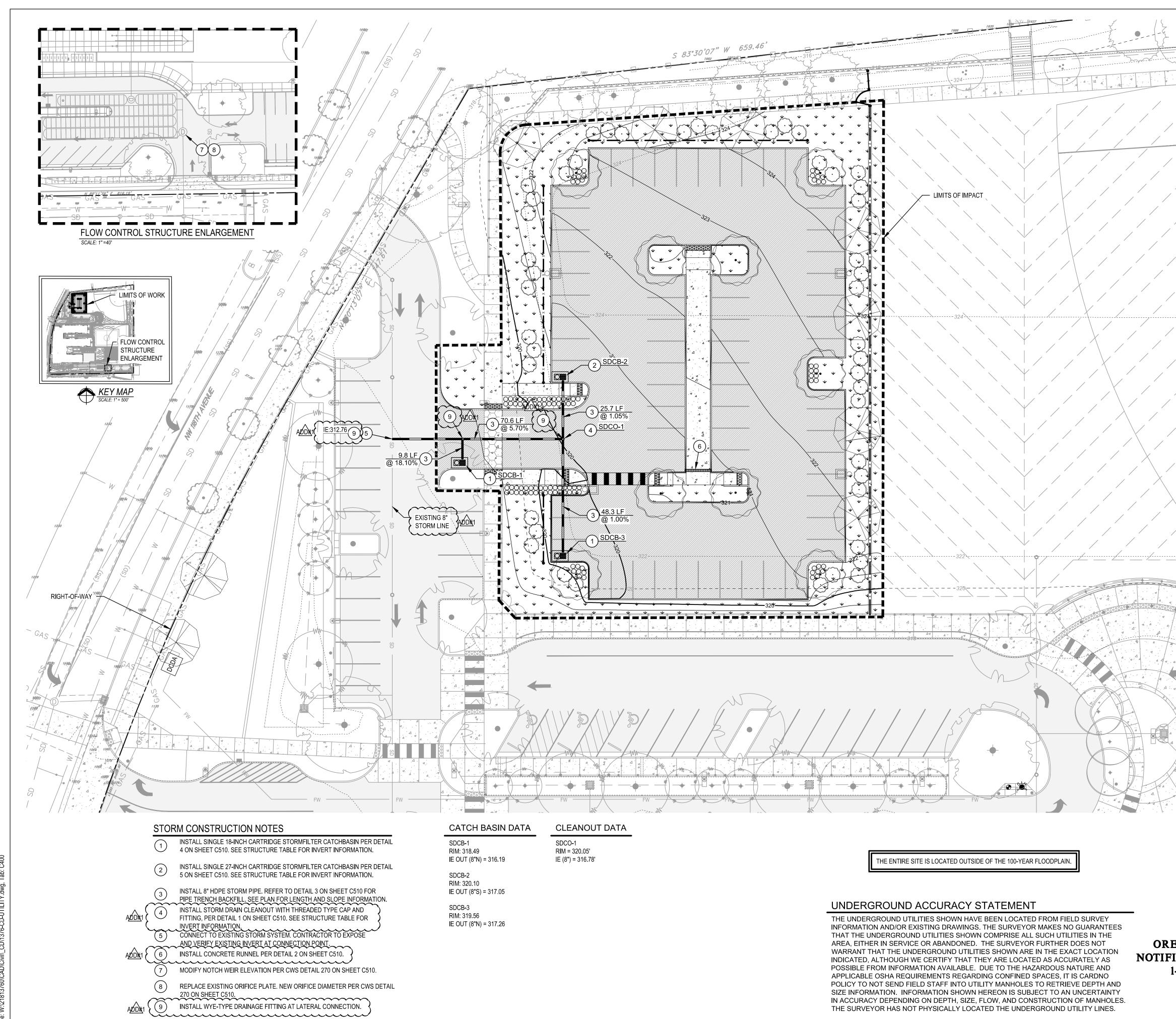
SHEET TITLE

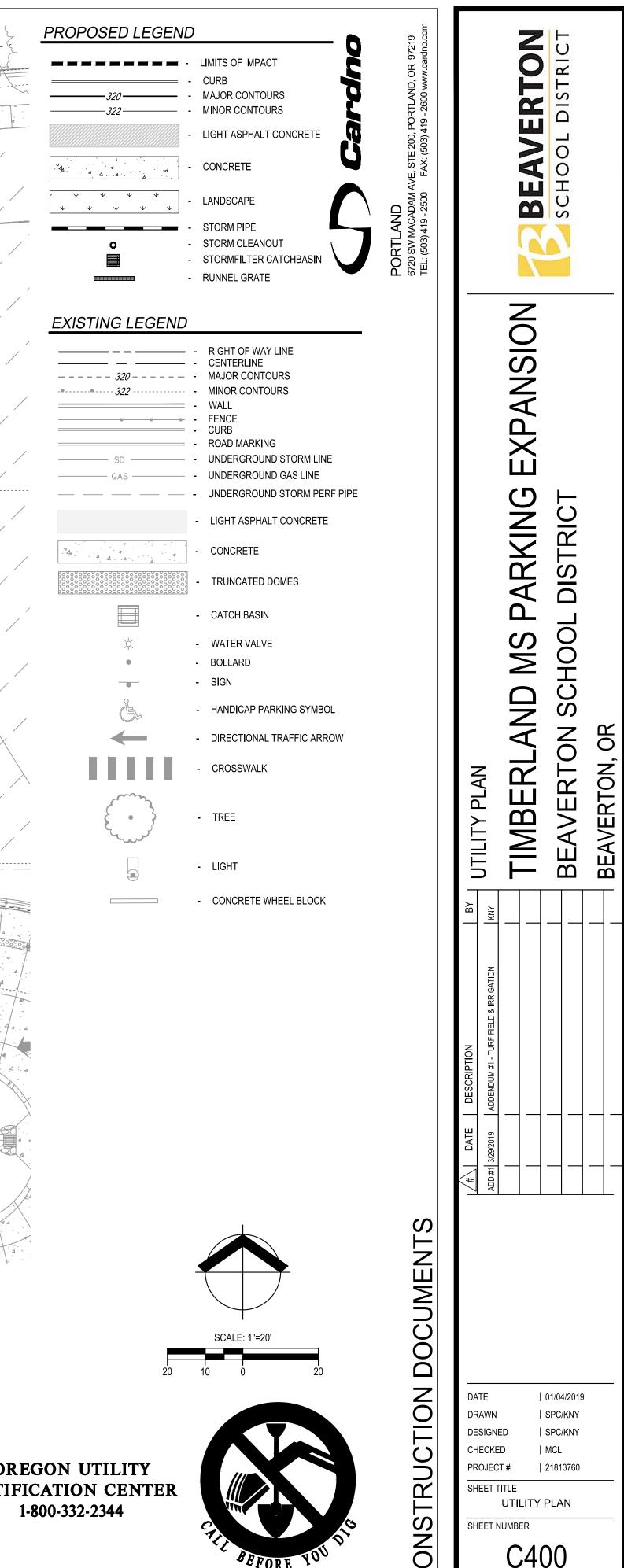
SHEET NUMBER

COVER SHEET

C000







**OREGON UTILITY** NOTIFICATION CENTER 1-800-332-2344



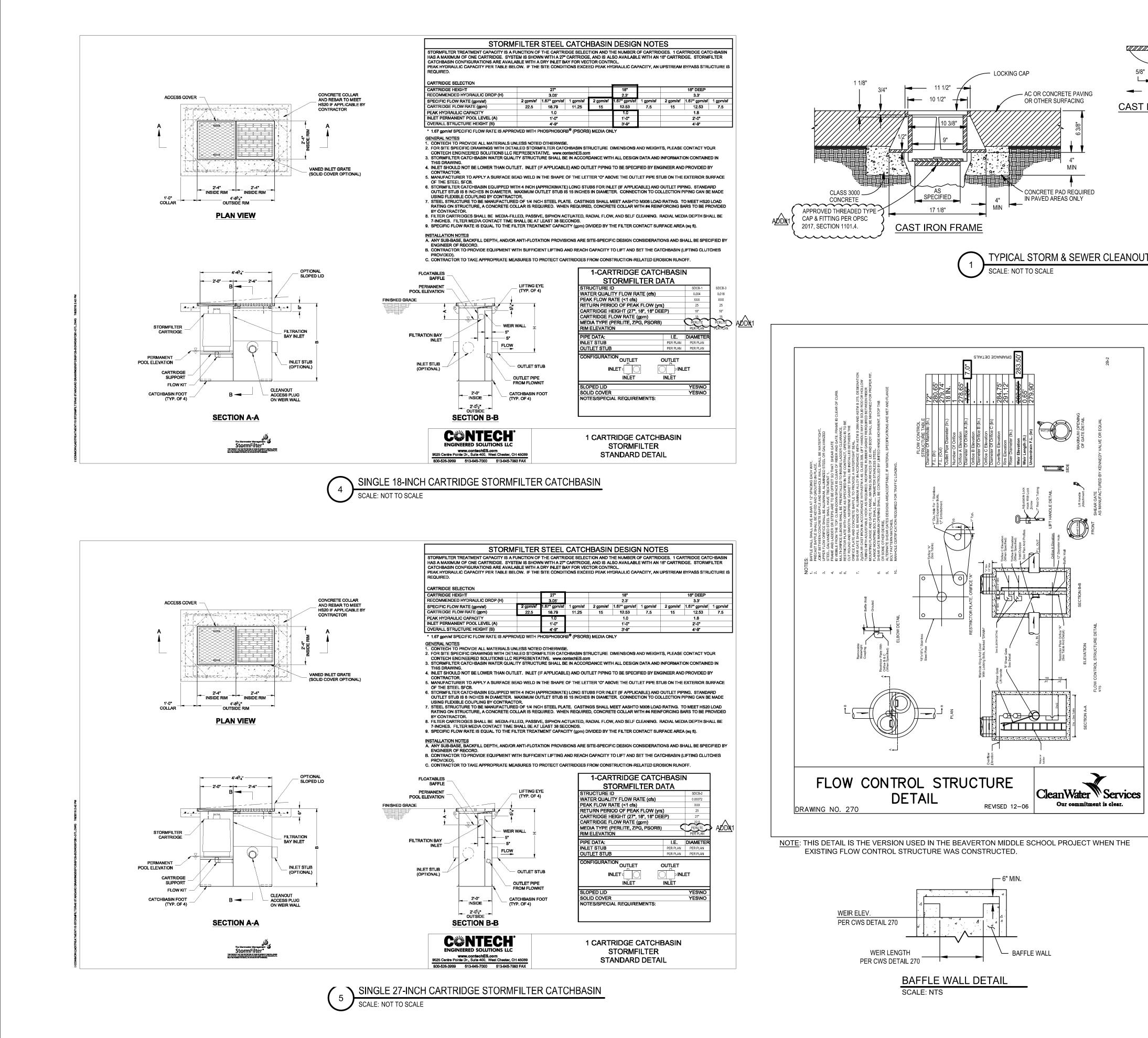
SHEET TITLE

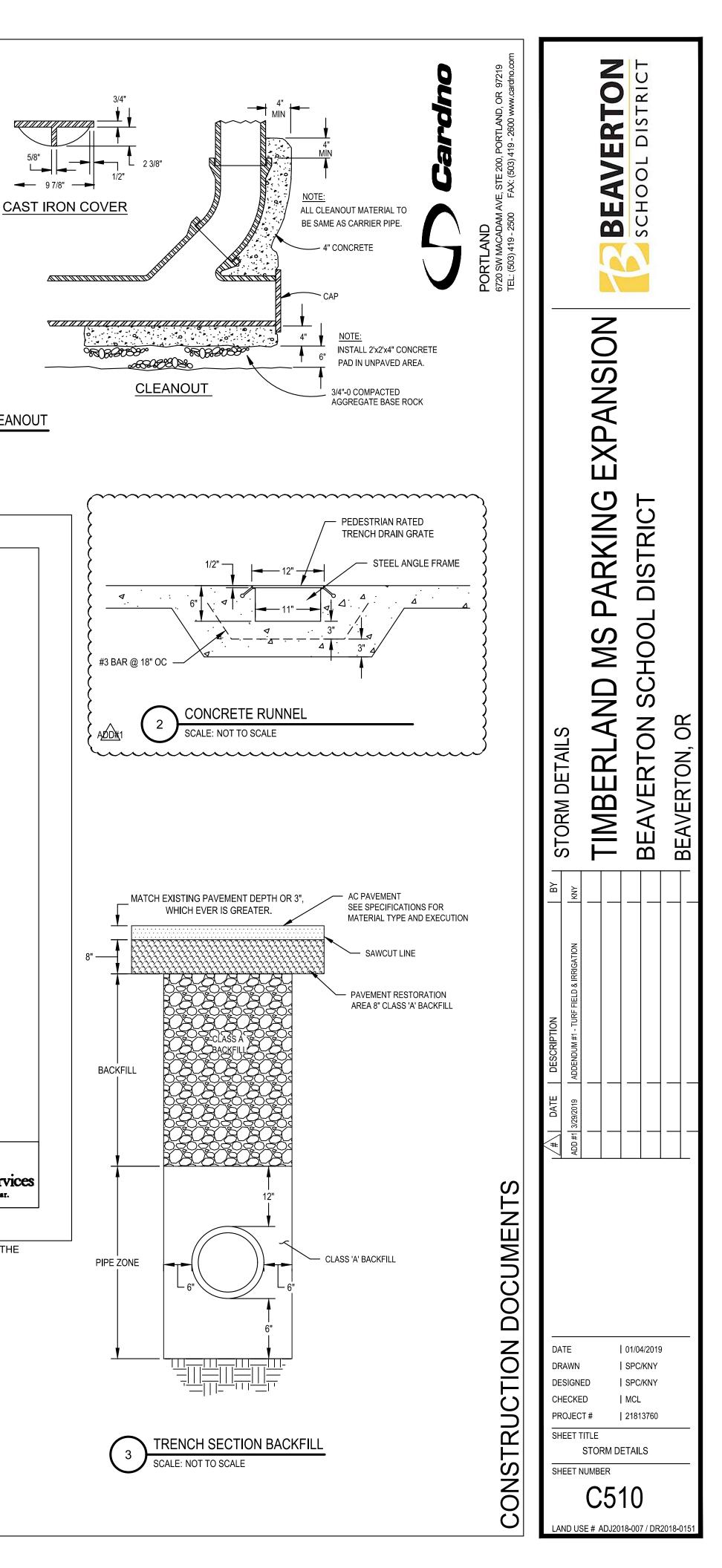
SHEET NUMBER

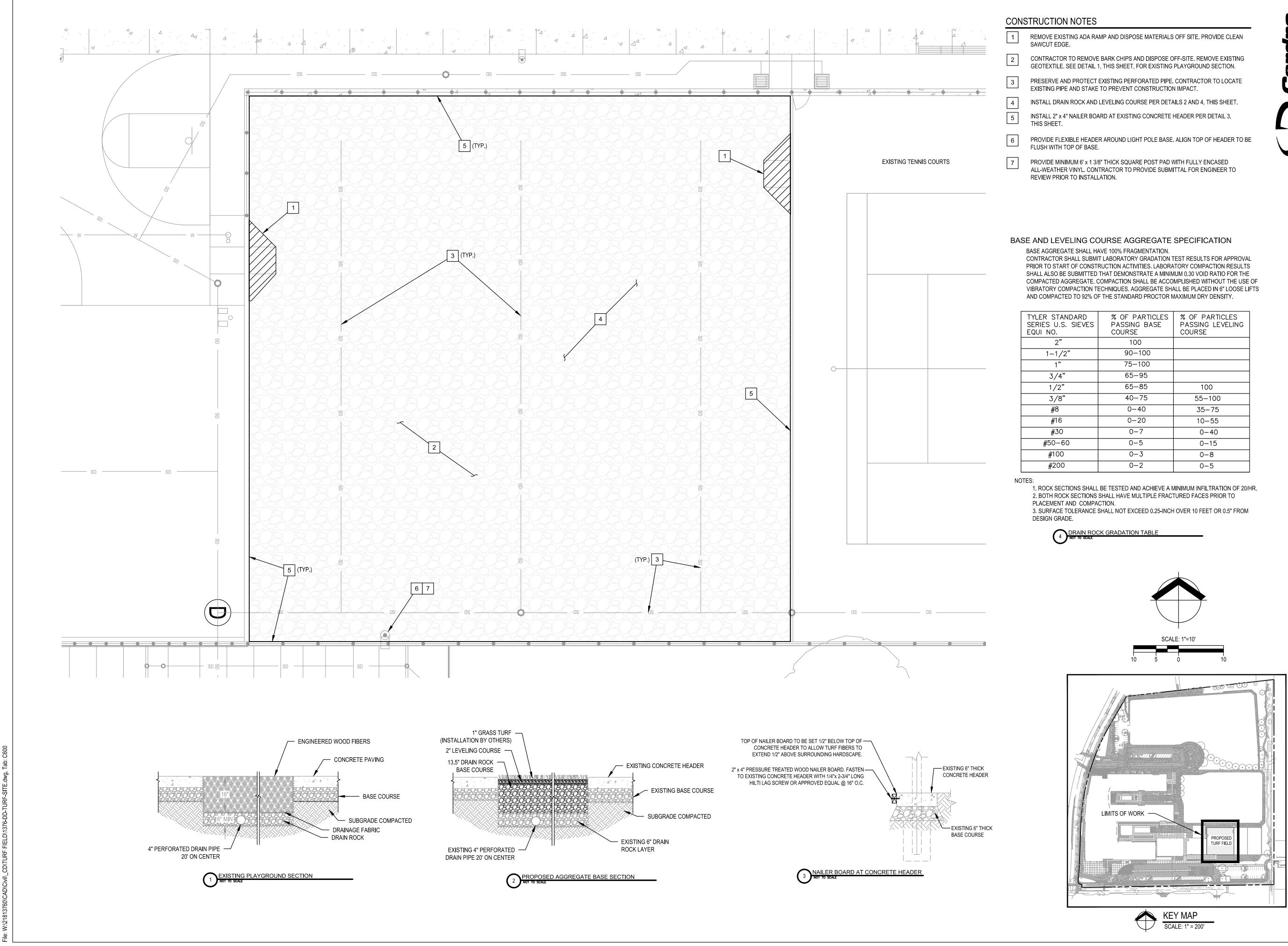
 $\mathbf{O}$ 

UTILITY PLAN

C400



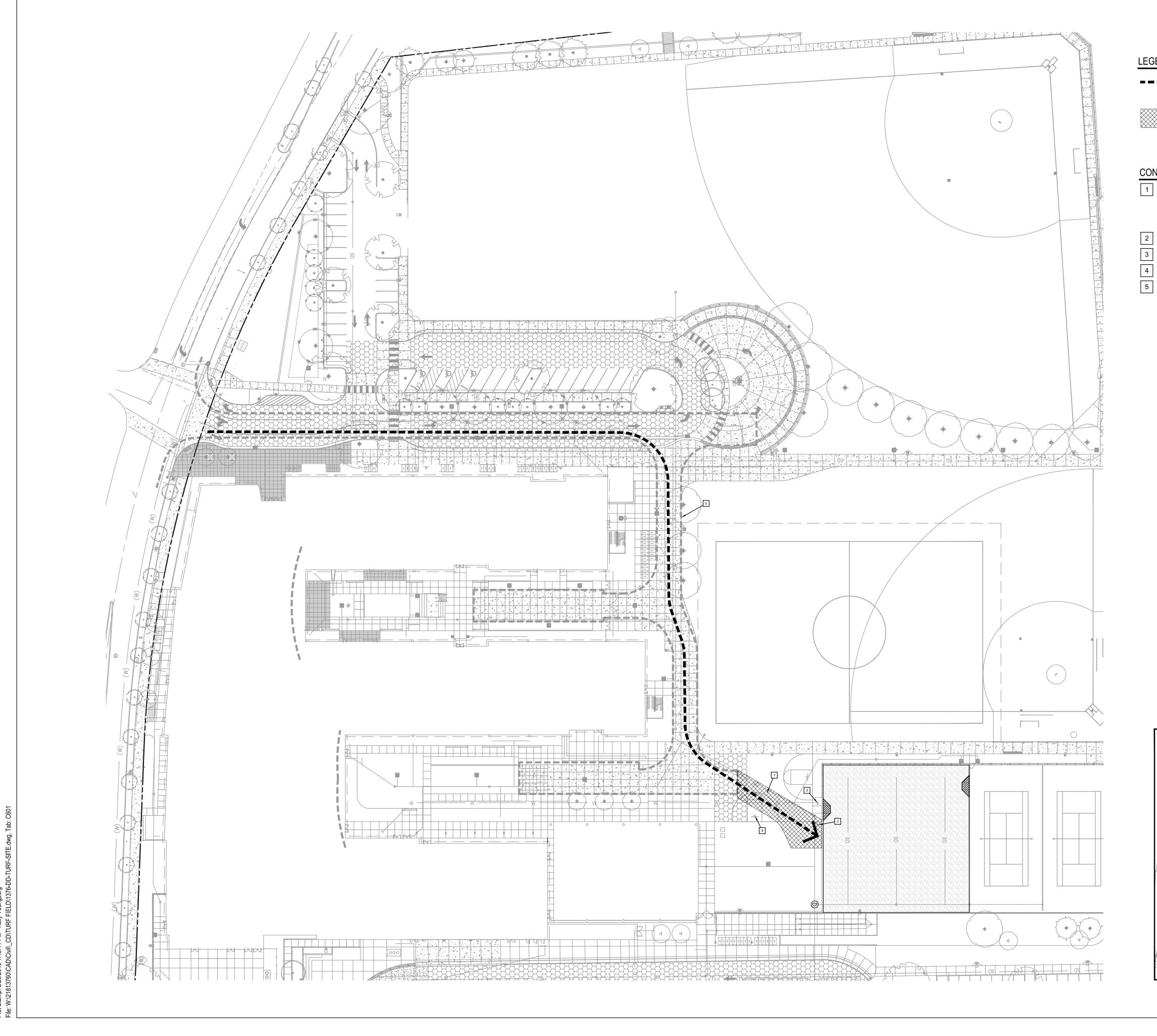




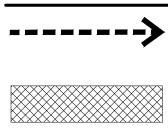
% OF PARTICLES PASSING BASE COURSE	% OF PARTICLES PASSING LEVELING COURSE
100	
90-100	
75–100	
65-95	
65-85	100
40-75	55-100
0-40	35-75
0-20	10-55
0-7	0-40
0-5	0–15
0-3	0-8
0-2	0-5
	PASSING BASE COURSE 100 90-100 75-100 65-95 65-85 40-75 0-40 0-20 0-20 0-7 0-5 0-3



			BEAVERTON			
		TIMPEDIAND AND AND AND AND AND AND AND AND AND				T BEAVERIUN, UR
BY	FIELD & IRRIGATION					 _
E DESCRIPTION	ADDENDUM #1 - TURF FIELD & IRRIGATION					
	ADD #1 3/29/2019					 
DE CH PR SH	TE AWN SIGNE ECKEI OJECT EET TI EET N	) - # TLE TL	     JRF	SPC/ SPC/ MCL 2181	КNY 3760	



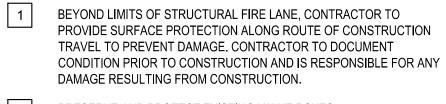
## LEGEND



CONSTRUCTION ACCESS ROUTE



#### CONSTRUCTION NOTES

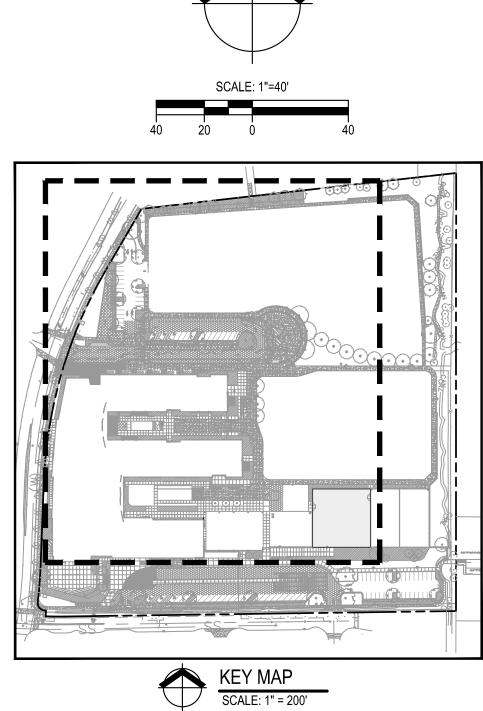


PRESERVE AND PROTECT EXISTING VALVE BOXES.

PRESERVE AND PROTECT EXISTING DRINKING FOUNTAIN.

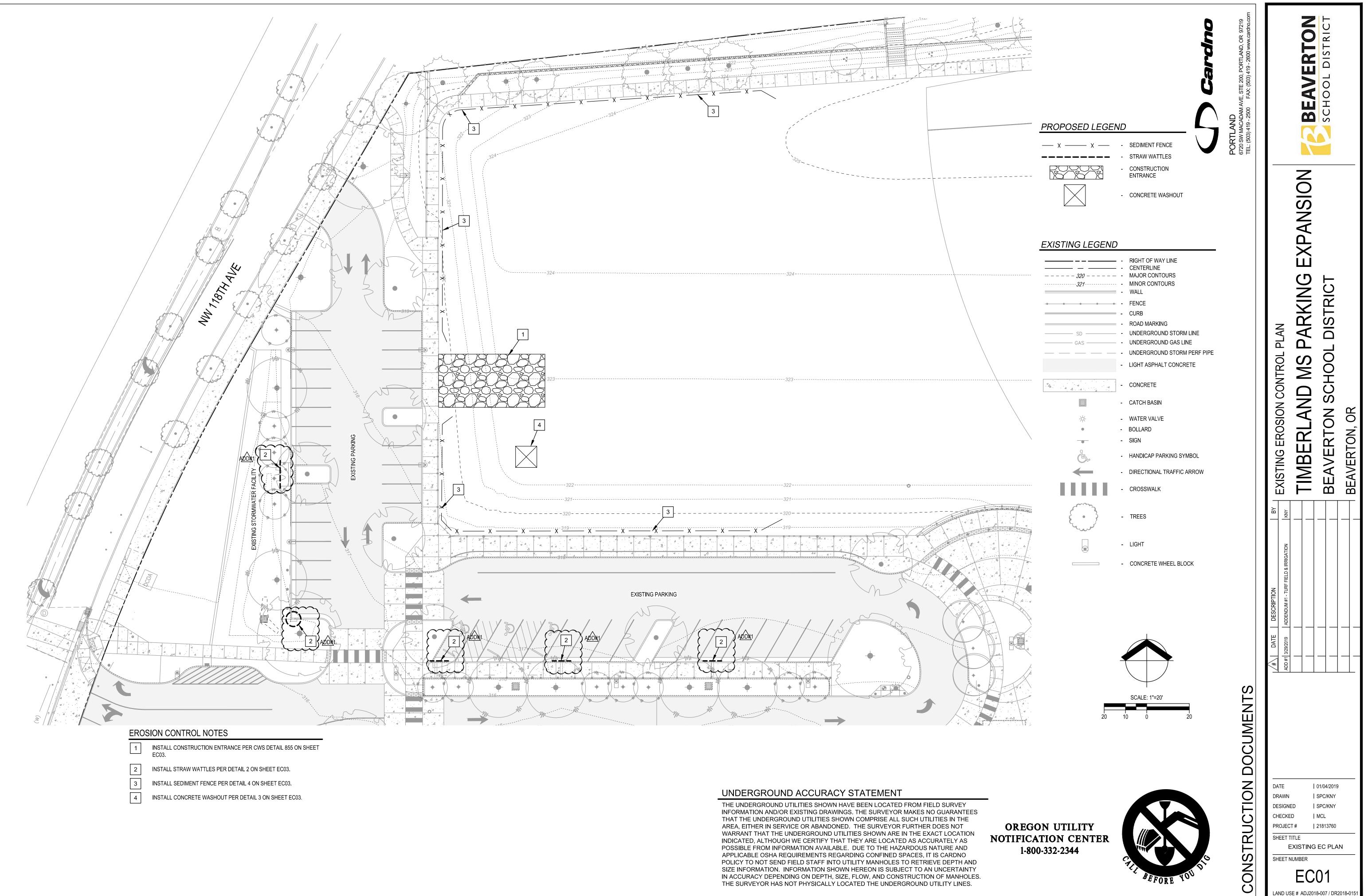
PRESERVE AND PROTECT EXISTING BASKETBALL HOOP.

CONTRACTOR TO REMAIN WITHIN LIMITS OF FIRE LANE, AS SHOWN. CONTRACTOR TO DOCUMENT CONDITION PRIOR TO CONSTRUCTION AND IS RESPONSIBLE FOR ANY DAMAGE RESULTING FROM CONSTRUCTION.

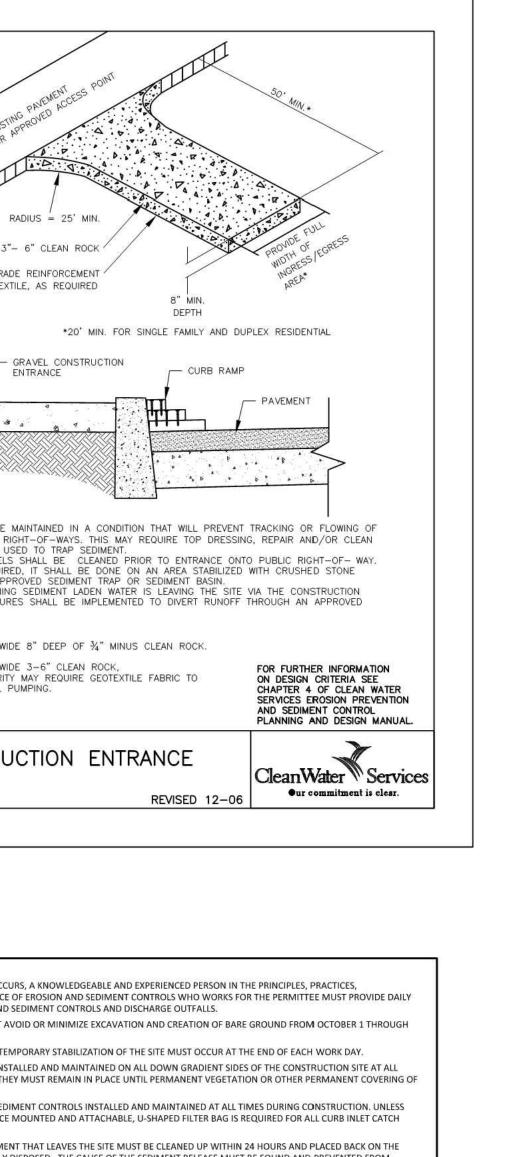




			BEAVERTON			
		Ć			BEAVERION SCHOOL DISTRICT	
BY	<u> </u>					 
# DATE DESCRIPTION	ADD #1 3/29/2019 ADDENDUM #1 - TURF FIELD & IRRIGATION					             
DE: CHI PR( SHI	AWN SIGNE ECKEI OJEC <sup>-</sup> EET T	D T# ITLE T ISTF	I I I TURF	SPC SPC MCL 2181	/KNY 3760 LD LACC	



1.	CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION / SEDIMENTATION CONTROL DURING	
	CONSTRUCTION (ANY TIME OF THE PER THE "EROSION PREVENTION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL: DATED DEC. 2000 AND CLEAN WATER SERVICES DESIGN AND CONSTRUCTION STANDARDS, R&O 07-20, CHAPTER 6.	
2.	APPROVAL OF THIS EROSION / SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.)	EXISTING PAVEMENT ACCESS PO
3.	THE IMPLEMENTATION OF THESE ESC PLANS AND CONSTRUCTION, MAINTENANCE, REPLACEMENT AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED BY THE CITY OF BEAVERTON AND VEGETATION / LANDSCAPING IS ESTABLISHED. THE DEVELOPER SHALL BE RESPONSIBLE FOR MAINTENANCE OF ESC AFTER THE PROJECT IS APPROVED AND UNTIL THE LOTS ARE SOLD.	RADIUS = 25' MIN. CLEAN PIT RUN OR 3"- 6" CLEAN ROCK
4.	THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE APPLICANT / CONTRACTOR FOR THE DURATION OF THE CONSTRUCTION.	SUBGRADE REINFORCEMENT GEOTEXTILE, AS REQUIRED *20' MIN 
5.	THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO INSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS.	
6.	THE ESC FACILITIES SHOWN ON THIS PLAN ARE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DOES NOT LEAVE THE SITE.	NOTES: 1. THE ENTRANCE SHALL BE MAINTAINED IN A CO
7.	THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT / CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.	SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS OUT OF ANY MEASURES USED TO TRAP SEDIM 2. WHEN NECESSARY, WHEELS SHALL BE CLEAN 3. WHEN WASHING IS REQUIRED IT SHALL BE DO THAT DRANS INTO AN APPROVED SEDIMENT A
8.	THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE EVERY TWO WEEKS OR WITHIN 24 HOURS FOLLOWING A STORM EVENT.	THAT DRAINS INTO AN APPROVED SEDIMENT T 4. WHERE RUNOFF CONTAINING SEDIMENT LADEN ENTRANCE, OTHER MEASURES SHALL BE IMPLI FILTERING SYSTEM. 5. DIMENSIONS
9.	REMOVAL OF TRAPPED SEDIMENT IN A SEDIMENT BASIN OR SEDIMENT TRAP MUST OCCUR WHEN THE SEDIMENT RETENTION CAPACITY HAS BEEN REDUCED BY FIFTY (50) PERCENT AND AT COMPLETION OF PROJECT.	SINGLE FAMILY 20' LONG BY 20' WIDE 8" DEEP OF 34" <u>COMMERCIAL</u> 50' LONG BY 20' WIDE 3-6" CLEAN RC GOVERNING AUTHORITY MAY REQUIRE GE PREVENT SUB-SOIL PUMPING.
10.	STABILIZED GRAVEL ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.	CONSTRUCTION E
11.	STORM DRAIN INLETS, BASINS AND AREA DRAINS SHALL BE PROTECTED UNTIL PAVEMENT SURFACES ARE COMPLETED AND / OR VEGETATION IS RE-ESTABLISHED.	Detail Drawing 855
12.	PAVEMENT SURFACES AND VEGETATION ARE TO BE PLACED AS RAPIDLY AS POSSIBLE.	
13.	SEEDING SHALL BE PERFORMED NO LATER THAN SEPTEMBER 1ST FOR EACH PHASE OF CONSTRUCTION.	
14.	IF THERE ARE EXPOSED SOILS, OR SOILS ARE NOT FULLY ESTABLISHED FROM OCTOBER 1ST THROUGH MAY 31ST, THE WET WEATHER EROSION CONTROL MEASURES WILL BE IN EFFECT. SEE CHAPTER 6 OF THE EROSION PREVENTION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL FOR REQUIREMENTS.	NOTES:
15.	ESC MEASURES SHALL BE REMOVED BY THE DEVELOPER / OWNER WHEN VEGETATION IS FULLY ESTABLISHED.	<ol> <li>WHEN RAINFALL AND RUNOFF OCCURS, A KNOWLEDGEAE INSTALLATION, AND MAINTENANCE OF EROSION AND SED INSPECTIONS OF THE EROSION AND SEDIMENT CONTROLS</li> <li>CONSTRUCTION ACTIVITIES MUST AVOID OR MINIMIZE EX</li> </ol>
16.	NOTIFY CITY OF BEAVERTON CONSTRUCTION INSPECTOR 24 HOURS PRIOR TO ANY WORK ON THIS SITE.	<ul> <li>MAY 31ST EACH YEAR.</li> <li>3. DURING WET WEATHER PERIOD, TEMPORARY STABILIZATI</li> <li>4. SEDIMENT CONTROLS MUST BE INSTALLED AND MAINTAIL TIMES DURING CONSTRUCTION. THEY MUST REMAIN IN P EXPOSED SOIL IS ESTABLISHED.</li> <li>5. ALL ACTIVE INLETS MUST HAVE SEDIMENT CONTROLS INS OTHERWISE APPROVED, A SURFACE MOUNTED AND ATTA</li> </ul>
CITY	OF BEAVERTON WET WEATHER EROSION CONTROL NOTES	<ul> <li>BASINS.</li> <li>6. SIGNIFICANT AMOUNTS OF SEDIMENT THAT LEAVES THE SITE AND STABILIZED OR PROPERLY DISPOSED. THE CAUSING A RECURRENCE OF THE DISCHARGE WITHIN THE</li> </ul>
GROL EROS CONE AND S SURF FLOW INUNE PLAN FOR M CITY I VEGE EXPA OCTC	EPTEMBER 1st OF EACH YEAR, IF THERE ARE EXPOSED SOILS, DISTURBED AREAS, OR IND-COVER VEGETATION NOT FULLY ESTABLISHED SUFFICIENT TO PREVENT EROSION, A SPECIFIC ION CONTROL PLAN SHALL BE PREPARED BASED ON THE EXISTING AND EXPECTED SITE INTIONS USING THE WET WEATHER EROSION PREVENTION MEASURES (SEE EROSION PREVENTION SEDIMENT CONTROL PLANNING AND DESIGN MANUAL CHAPTER 4 FOR REQUIREMENTS), FOR ACE WATER FACILITIES, FIBER MATTING SHALL BE INSTALLED IN ALL AREAS EXPOSED TO WATER 'OR INUNDATION; FREE-FLOATING MULCH SHALL NOT BE USED IN AREAS SUBJECT TO DATION, FIBER MATTINGS, REEDS, RUSHES, OR SHRUBS. ALL MEASURES AND SPECIFICATIONS MATERIALS USED SHALL BE PER PLAN OR AS SPECIFICALLY APPROVED BY THE ENGINEER AND INSPECTOR. IF ANY ADDITIONAL AREAS BECOME EXPOSED, DISTURBED, OR STRIPPED OF TATION BETWEEN OCTOBER 1ST AND MAY 31ST, THE PLAN SHALL BE REVISED OR OTHERWISE NDED PER THE STANDARDS AND AS DIRECTED BY THE ENGINEER AND CITY INSPECTOR. PRIOR TO IBER 1ST OF EACH YEAR, WET WEATHER MEASURES SHALL BE INSTALLED AND FULLY TIONAL. UPDATED 2/2010	<ul> <li>PREFORMED ACCORDING TO THE OREGON DEPARTMENT</li> <li>7. SEDIMENT MUST NOT BE INTENTIONALLY WASHED INTO S</li> <li>8. SEDIMENT MUST BE REMOVED FROM BEHIND ALL SEDIME BARRIER HEIGHT AND PRIOR TO THE CONTROL MEASURES</li> <li>9. CLEANING OF ALL STRUCTURES WITH SUMPS MUST OCCU AND AT COMPLETION OF PROJECT.</li> <li>10. ANY USE OF TOXIC OR OTHER HAZARDOUS MATERIALS MI</li> <li>11. THE PERMITTEE MUST PROPERLY MANAGE HAZARDOUS V WASTE, LIQUID WASTE, OR OTHER TOXIC SUBSTANCES DI</li> <li>12. THE APPLICATION RATE OF FERTILIZERS USED TO REESTAB NUTRIENT RELEASES FROM FERTILIZERS TO SURFACE WAT CARE SHOULD BE MADE IN APPLICATION OF FERTILIZERS V</li> <li>13. OWNER OR DESIGNATED PERSON SHALL BE RESPONSIBLE SEDIMENT CONTROL MEASURES, IN ACCORDANCE WITH OR REGULATIONS.</li> <li>14. PRIOR TO ANY LAND DISTURBING ACTIVITIES, THE BOUND AREAS SHOWN ON THIS PLAN SHALL BE CLEARLY DELINEAT PERMITTED BEYOND THE CLEARING LIMITS. THE OWNER/I PROJECT. NOTE: VEGETATED CORRIDORS TO BE DELINEAT</li> <li>15. PRIOR TO ANY LAND DISTURBING ACTIVITIES, THE BMPS T PERIMETER SEDIMENT CONTROL, AND INLET PROTECTION</li> <li>16. IF VEGETATIVE SEED MIXES ARE SPECIFIED, SEEDING MUST OF SEED IN THE MIX ARE AS IDENTIFIED ON THE PLANS OR</li> <li>17. WATERTIGHT TRUCKS MUST BE USED TO TRANSPORT SAT IS TO DRAIN THE SOIL ON SITE AT A DESIGNATED LOCATIO MINIMAL SPILLAGE.</li> <li>18. ALL PUMPING OF SEDIMENT LADEN WATER MUST BE DISC THROUGH A SEDIMENT CONTROL BMP (I.E. FILTER BAG).</li> <li>19. THE ESC PLAN MUST BE KEPT ONSITE. ALL MEASURES SHOUS SEDIMENT LADEN WATER DOES NOT ENTER A SURFACE W</li> <li>20. THE ESC MEASURES SHOWN ON THIS PLAN ARE THE MINIMAL</li> </ul>





DREGON DEPARTMENT OF STATE LANDS REQUIRED TIME FRAME. ONALLY WASHED INTO STORM SEWERS, DRAINAGE WAYS, OR WATER BODIES. ROM BEHIND ALL SEDIMENT CONTROL MEASURES WHEN IT HAS REACHED A HEIGHT OF 1/3-RD THE

HE CONTROL MEASURES REMOVAL. ITH SUMPS MUST OCCUR WHEN THE SEDIMENT RETENTION CAPACITY HAS BEEN REDUCED BY 50%

ARDOUS MATERIALS MUST INCLUDE PROPER STORAGE, APPLICATION, AND DISPOSAL. ANAGE HAZARDOUS WASTES, USED OILS, CONTAMINATED SOILS, CONCRETE WASTE, SANITARY TOXIC SUBSTANCES DISCOVERED OR GENERATED DURING CONSTRUCTION. ZERS USED TO REESTABLISH VEGETATION MUST FOLLOW MANUFACTURER'S RECOMMENDATIONS. ZERS TO SURFACE WATERS MUST BE MINIMIZED. TIME RELEASE FERTILIZERS SHOULD BE USED AND ATION OF FERTILIZERS WITHIN ANY WATER WAY RIPARIAN ZONE.

SHALL BE RESPONSIBLE FOR PROPER INSTALLATION AND MAINTENANCE OF ALL EROSION AND N ACCORDANCE WITH CURRENT CLEAN WATER SERVICES STANDARDS AND STATE, AND FEDERAL

CTIVITIES, THE BOUNDARIES OF THE CLEARING LIMITS, VEGETATED BUFFERS, AND ANY SENSITIVE ALL BE CLEARLY DELINEATED IN THE FIELD. UNLESS OTHERWISE APPROVED, NO DISTURBANCE IS S LIMITS. THE OWNER/PERMITTEE MUST MAINTAIN THE DELINEATION FOR THE DURATION OF THE IDORS TO BE DELINEATED WITH ORANGE CONSTRUCTION FENCE OR APPROVED EQUAL. CTIVITIES, THE BMPS THAT MUST BE INSTALLED ARE GRAVEL CONSTRUCTION ENTRANCE,

AND INLET PROTECTION. THESE BMPS MUST BE MAINTAINED FOR THE DURATION OF THE PROJECT. PECIFIED, SEEDING MUST TAKE PLACE NO LATER THAN SEPTEMBER 1ST; THE TYPE AND PERCENTAGES FIED ON THE PLANS OR AS SPECIFIED BY THE DESIGN ENGINEER. SED TO TRANSPORT SATURATED SOILS FROM THE CONSTRUCTION SITE. AN APPROVED EQUIVALENT

DESIGNATED LOCATION USING APPROPRIATE BMPS; SOIL MUST BE DRAINED SUFFICIENTLY FOR

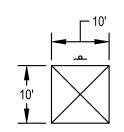
NWATER MUST BE DISCHARGED OVER AN UNDISTURBED, PREFERABLY VEGETATED AREA, AND

SITE. ALL MEASURES SHOWN ON THE PLAN MUST BE INSTALLED PROPERLY TO ENSURE THAT OT ENTER A SURFACE WATER SYSTEM, ROADWAY, OR OTHER PROPERTIES. HIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE EASURES SHALL BE UPGRADED AS NEEDED TO MAINTAIN COMPLIANCE WITH ALL REGULATIONS. ED TO BE MAINTAINED ONSITE AND AVAILABLE TO DISTRICT INSPECTORS UPON REQUEST. SION, APPROPRIATE BMPS MUST BE USED WHICH MAY INCLUDE THE APPLICATION OF FINE WATER JLCHING, OR OTHER APPROVED MEASURES. ERED DURING WET WEATHER PERIOD. EROSION CONTROL



DRAWING NO. 945

ACRE



CONCRETE WASHOUT PIT AREA WITH SIGN. SIGN TO BE POSTED AT ALL TIMES.

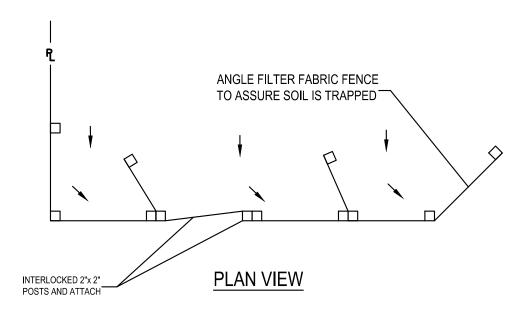
DUMP STRAP

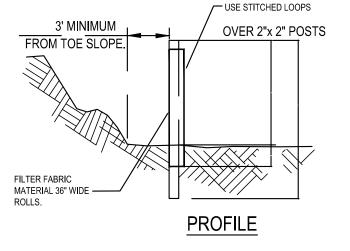
1" REBAR FOR BAG REMOVAL FROM INLET

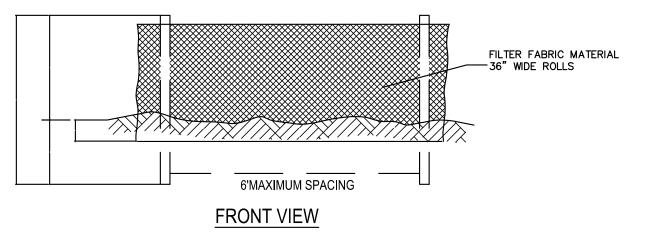
NOTES:

- 1. WASHOUT AREA TO CONTAIN A MINIMUM OF 3 CY (IE 9' BY 9' BY 1' DEEP). 2. REMOVE AND LEGALLY DISPOSE OF WASTE MATERIAL WHEN IT ACCUMULATES TO 2/3
- OF WET STORAGE CAPACITY. 3. CONCRETE WASHOUT AREA TO BE REPAIRED AND/OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY.
- UPON COMPLETION OF CONSTRUCTION ACTIVITIES REQUIRING CONCRETE WASHOUT. REMOVE WASHOUT AND RESTORE THE AREA TO FINISH GRADE.









#### NOTES:

BURY BOTTOM OF FILTER FABRIC 6" VERTICALLY BELOW FINISHED GRADE.

2"x 2" FIR, PINE OR STEEL FENCE POSTS. POSTS TO BE INSTALLED ON UPHILL SIDE OF SLOPE.

COMPACT BOTH SIDES OF FILTER FABRIC TRENCH.

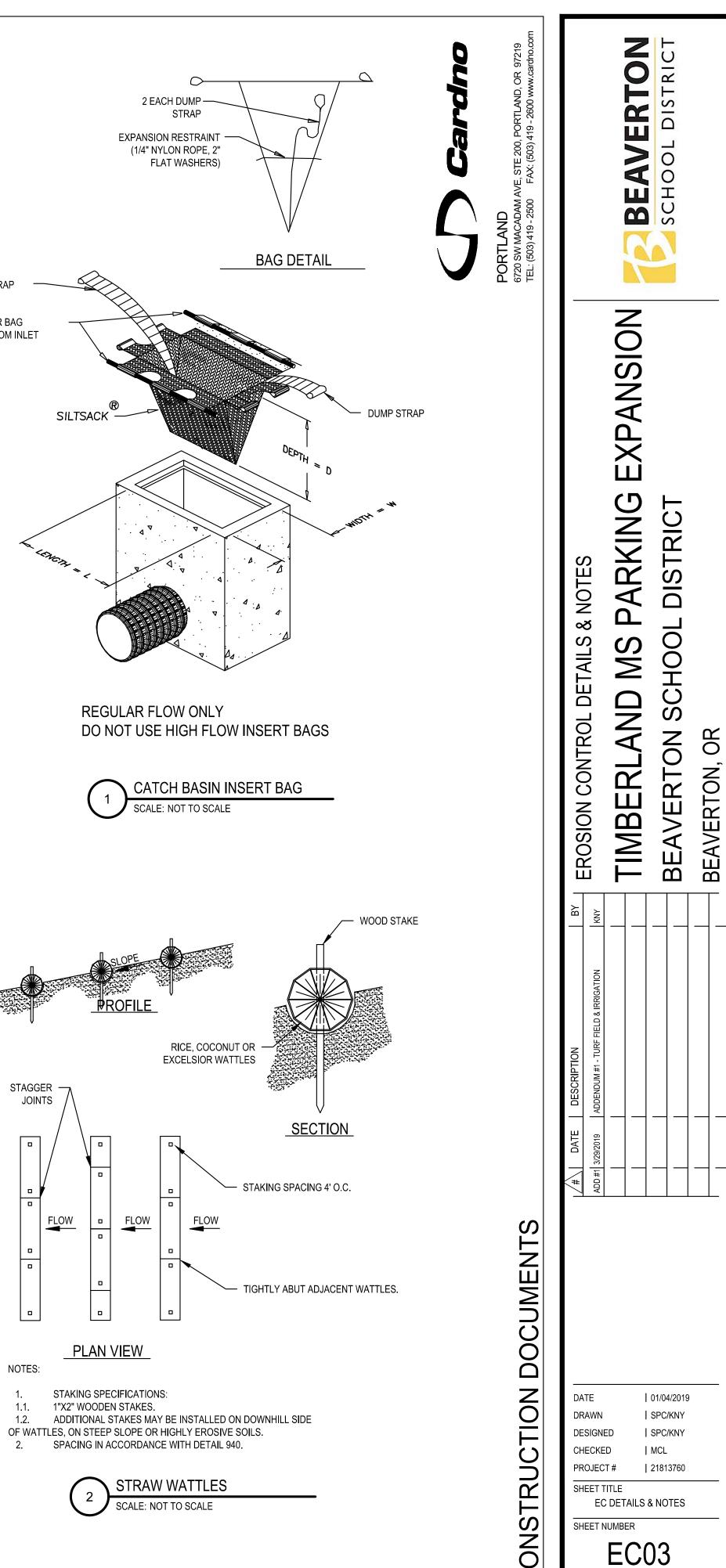
PANELS MUST BE PLACED ACCORDING TO SPACING ON DETAIL NO.940

SEDIMENTATION FENCING SCALE: NOT TO SCALE

# FLOW

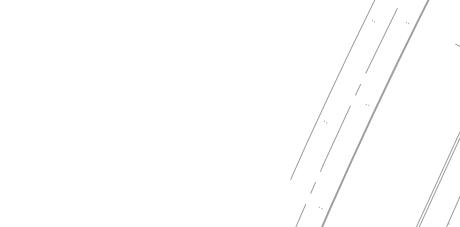
JOINTS

NOTES: 1.1.



LAND USE # ADJ2018-007 / DR2018-0151

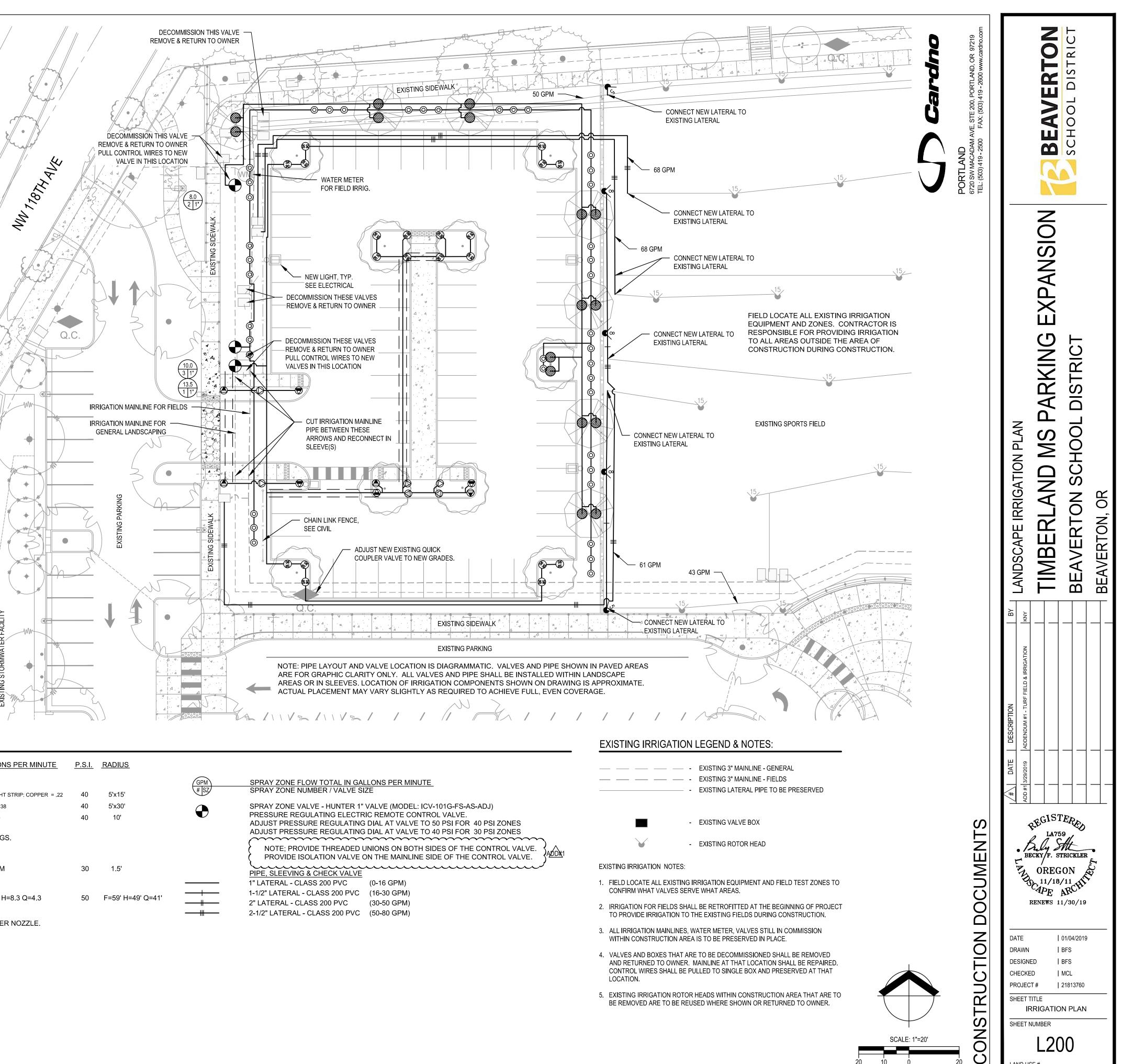
 $\bigcirc$ 



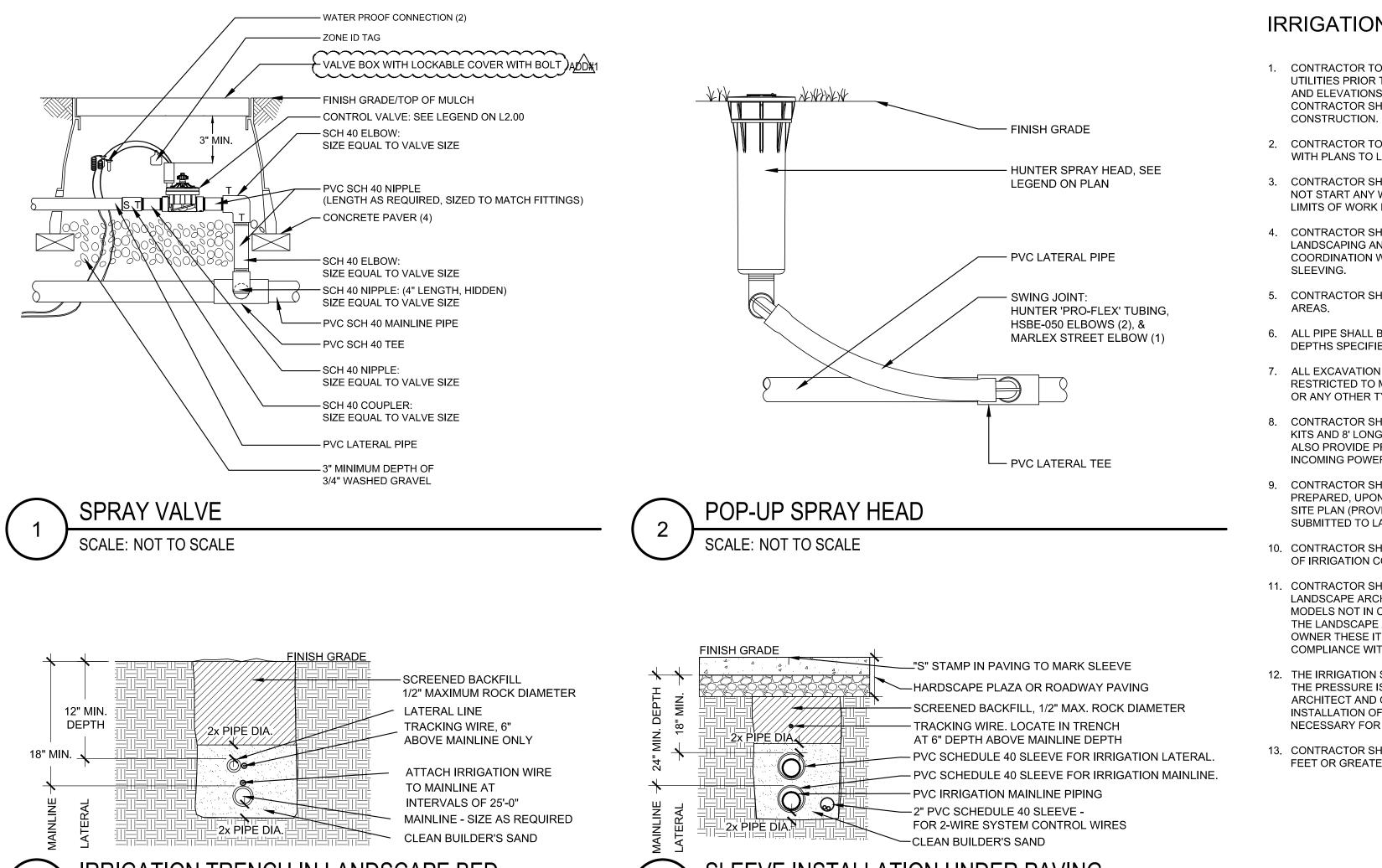
## **IRRIGATION MATERIALS LEGEND**

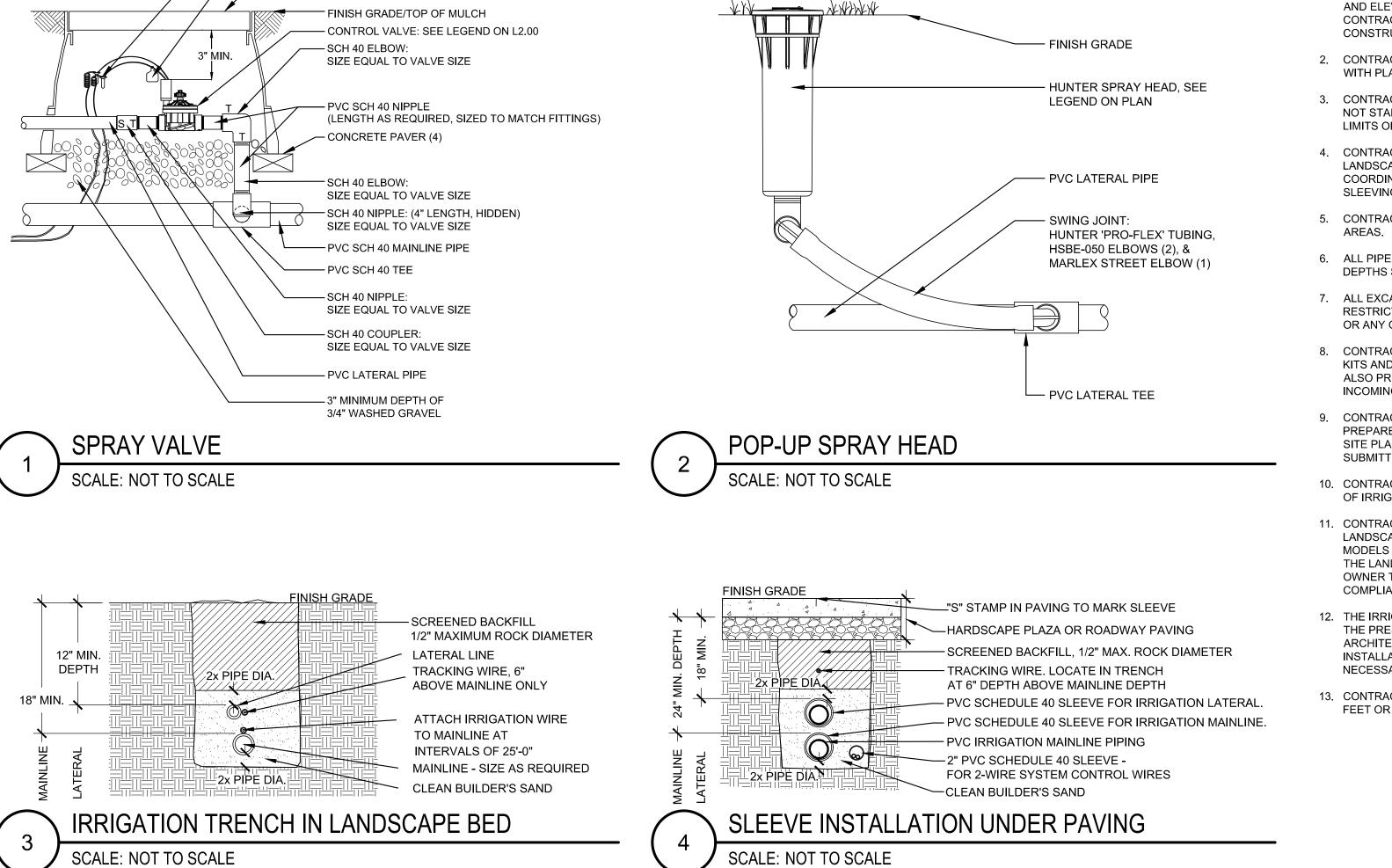
SYMBOL	NOZZLE & SPRAY BODY		GALLONS PER MINU
	MP ROTATOR ON PRS40 SPRAY HEAD		
	HUNTER MPLCS515, MPRCS515 ON	LEFT STRIP: IV	ORY RIGHT STRIP: COPPER
	HUNTER MPSS530	SIDE STRIP: BF	ROWN = 0.38
	HUNTER SHORT RANGE MP800SR-90	90°-210°: ORAN	IGE = 0.49
	FIXED SPRAY AND MP ROTATOR NOTE: INSTALL 6" (-06) POP-UP HEADS IN AREAS OF CAF INSTALL 12" (-12) POP-UP HEADS IN ALL OTHER LA		
	FIXED BUBBLERS		
$\odot$	HUNTER BUBBLER MSBN-25F ON PROS-03 SHRUE	B ADAPTER	.25 GPM
45	GEAR DRIVEN ROTORS		
15	HUNTER I-25-06-SS 50-360° ARC & STAINLESS PC (NOZZLE SET: STANDARD: F=18 H=8 Q=4)	P-UP	F=14.5 H=8.3 Q=4.3
۲	ROOT ZONE WATERING SYSTEM HUNTER RZWS-18-50: 18" LENGTH w/ PRE-INSTALL INSTALL 2 PER TREE AS SHOWN ON PLAN.	.ED 0.50 GPM	BUBBLER NOZZLE.

MM



LAND USE #





3720 TEL:

## **IRRIGATION NOTES:**

1. CONTRACTOR TO VERIFY WITH OWNER AND UTILITY COMPANIES THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION AND TO DETERMINE IN THE FIELD THE ACTUAL LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES WHETHER SHOWN ON THE PLAN OR NOT. THE CONTRACTOR SHALL CALL UTILITY PROTECTION SERVICE 72 HOURS PRIOR TO

2. CONTRACTOR TO REPORT ALL DAMAGES TO EXISTING CONDITIONS OR INCONSISTENCIES WITH PLANS TO LANDSCAPE ARCHITECT.

3. CONTRACTOR SHALL EXAMINE FINISH SURFACE, GRADES, TOPSOIL QUALITY AND DEPTH. DO NOT START ANY WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. VERIFY LIMITS OF WORK BEFORE STARTING.

4. CONTRACTOR SHALL COORDINATE IRRIGATION INSTALLATION WITH INSTALLATION OF LANDSCAPING AND DRAINAGE SYSTEMS. CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATION WITH OTHER SUBCONTRACTORS FOR INSTALLATION OF UNDERGROUND

5. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE IN ALL LANDSCAPE BEDS AND ALL LAWN

6. ALL PIPE SHALL BE LAID IN OPEN TRENCHES. INSTALL MAINLINE AND LATERALS TO THE DEPTHS SPECIFIED IN DETAILS.

7. ALL EXCAVATION REQUIRED TO OCCUR WITHIN THE DRIPLINE OF ANY EXISTING TREE SHALL BE RESTRICTED TO MANUAL LABOR. THE USE OF TRENCHERS, AUGERS, BACKHOES, TRACTORS, OR ANY OTHER TYPE OF MACHINERY/POWER EQUIPMENT IS PROHIBITED.

8. CONTRACTOR SHALL PROVIDE VALVE OUTPUT LIGHTNING / ELECTRICAL SURGE PROTECTION KITS AND 8' LONG COPPER GROUNDING ROD WITH #10 BARE COPPER WIRE FOR CONTROLLER. ALSO PROVIDE PRIMARY PROTECTION KIT. PROVIDE SURGE PROTECTOR ON EACH LEG OF INCOMING POWER TO GROUNDING ROD.

9. CONTRACTOR SHALL PROVIDE A REPRODUCIBLE AS-BUILT IRRIGATION PLAN. PLAN SHALL BE PREPARED, UPON FINAL ACCEPTANCE OF IRRIGATION INSTALLATION, ON A REPRODUCIBLE SITE PLAN (PROVIDED TO CONTRACTOR BY LANDSCAPE ARCHITECT). AS-BUILT PLAN SHALL BE SUBMITTED TO LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL.

10. CONTRACTOR SHALL PLACE A COLOR CODED ZONE MAP OF THE IRRIGATION SYSTEM INSIDE OF IRRIGATION CONTROLLER.

11. CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FOR ALL PRODUCT SUBSTITUTIONS BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. PRODUCTS, MANUFACTURERS, AND MODELS NOT IN COMPLIANCE WITH DRAWINGS AND SPECIFICATIONS MAY BE REJECTED BY THE LANDSCAPE ARCHITECT WITHOUT PRIOR WRITTEN APPROVAL. AT NO COST TO THE OWNER THESE ITEMS MAY BE REQUIRED TO BE REPLACED WITH PRODUCTS THAT ARE IN COMPLIANCE WITH THE MANUFACTURERS AND MODELS ON THE IRRIGATION PLAN.

12. THE IRRIGATION SYSTEM HAS BEEN DESIGNED TO OPERATE AT 65 PSI AFTER THE METER. IF THE PRESSURE IS LESS THAN 60 PSI, OR GREATER THAN 75 PSI, NOTIFY THE LANDSCAPE ARCHITECT AND OWNER'S REPRESENTATIVE IN WRITING, PRIOR TO PROCEEDING WITH THE INSTALLATION OF THE IRRIGATION SYSTEM. A PRESSURE REDUCING VALVE MAY BE NECESSARY FOR PRESSURES ABOVE 75 PSI.

13. CONTRACTOR SHALL INSTALL CHECK VALVES WHEREVER AN ELEVATION DIFFERENCE OF 3 FEET OR GREATER OCCURS WITHIN THE SAME IRRIGATION ZONE.

# DOCUMENT TION $\mathbf{O}$ TRU SNO

 $\mathbf{O}$ 

