





BEAVERTON SCHOOL DISTRICT  
**SUNSET HIGH SCHOOL**  
**STADIUM SITE IMPROVEMENTS**  
13840 NW CORNELL ROAD  
PORTLAND, OR 97229

CONSTRUCTION DRAWINGS  
PERMIT AND BIDDING SET

ISSUE		
#	DESCRIPTION	DATE
1	BSD COMMENTS	03/10/2020

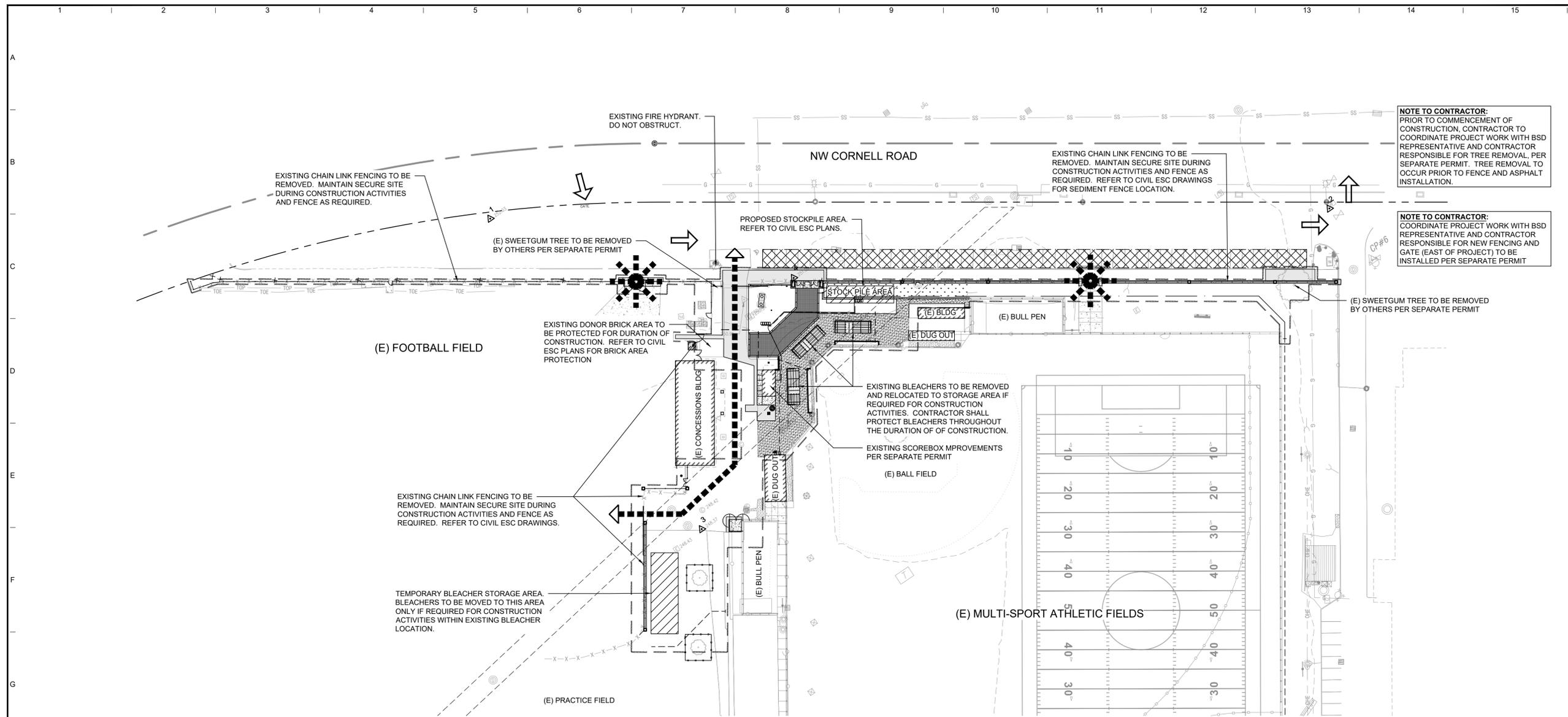
DATE	02/18/2020
PROJECT NO.	7839
CAD DWG FILE	SUNSET HS - CD.DWG
DRAWN BY	SBB, KHW
CHECKED BY	SBB

**CONSTRUCTION  
ACCESS &  
STAGING  
PLAN**

SCALE: 1 INCH = 40 FEET

SHEET:

**GO.1**



**CONSTRUCTION ACCESS & STAGING PLAN** SCALE: 1" = 40'

**TREE PROTECTION NOTES**

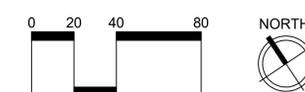
- PROTECT THE CRITICAL ROOT ZONE (AND AREA DIRECTLY BELOW THE DRIPLINE) OF THE TREES TO REMAIN ON SITE.
  - CONSTRUCT TEMPORARY FENCING AROUND THE CRITICAL ROOT ZONE OF THE TREE TO BE PROTECTED PRIOR TO DEMOLITION, CONSTRUCTION, OR ANY OTHER SITE WORK. DO NOT ALLOW COMPACTION BY EQUIPMENT TRAFFIC DURING CONSTRUCTION OR DEMOLITION. DO NOT STOCKPILE MATERIALS, DEBRIS, OR DIRT WITHIN THE TREE PROTECTION AREA.
  - WATERING WITHIN THE CRITICAL ROOT ZONE FROM MID-APRIL TO MID-OCTOBER AT THE RATE OF NOT LESS THAN THE EQUIVALENT OF 1-1/2" OF WATER OVER THE ENTIRE AREA PER WEEK.
  - DO NOT TRENCH, EXCAVATE, FILL OR OTHERWISE DISTURB THE SOIL WITHIN THE CRITICAL ROOT ZONE.
  - ADJUST NEW IMPROVEMENT LOCATIONS AS REQUIRED TO AVOID DAMAGING TREE ROOTS. NOTIFY LANDSCAPE ARCHITECT OF ANY CONFLICTS.
- PROTECT THE CROWN AND TRUNK OF TREES TO REMAIN.
  - AVOID CONTACT WITH TREE TRUNKS AND BRANCHES WHEN OPERATING EQUIPMENT.
  - PRUNING OF BRANCHES GREATER THAN 1" TO BE PROVIDED BY LICENSED ARBORIST.

**STAGING LEGEND**

- PROJECT LIMITS
- EMERGENCY VEHICLE ACCESS ROUTE
- EMERGENCY VEHICLE ACCESS ONLY NO CONSTRUCTION ACCESS ON FIELDS
- CONSTRUCTION ACCESS ROUTE
- TREE PROTECTION (SEE CIVIL ESC PLANS AND DETAILS FOR PROTECTION FENCING)
- MATERIALS STOCK PILE AND STORAGE AREA
- CONSTRUCTION PERSONNEL PARKING

**SHEET NOTES**

- LIMITS OF WORK, STAGING AREAS AND STOCK PILE AREAS SHOWN ON PLAN ARE APPROXIMATE.
- REFER TO CIVIL EROSION AND SEDIMENT CONTROL (ESC) DRAWINGS FOR LOCATION CONSTRUCTION OF ROCK CONSTRUCTION ENTRANCE, SEDIMENT FENCING, TREE PROTECTION, INLET PROTECTION AND OTHER BMP'S. COORDINATE FINAL CONSTRUCTION STAGING WITH BEAVERTON SCHOOL DISTRICT (BSD) REPRESENTATIVE. ENSURE EROSION CONTROL MEASURES PROTECT SYNTHETIC TURF AT STOCKPILE AREAS.
- COORDINATE FIELD ACCESS WITH BSD FOR THE DURATION OF CONSTRUCTION. ADJUST FENCE LAYOUT AS REQUIRED. MAINTAIN ACCESS TO ALL SPORTS FACILITIES FOR SCHOOL RELATED SPORT ACTIVITIES. NO CONTRACTOR ACCESS ALLOWED ON SYNTHETIC TURF, EXCEPT BY OWNER PERMISSION ONLY.
- FULLY SECURE BSD SITE WITH TEMPORARY FENCING WHERE EXISTING FENCING IS REMOVED. FULLY SECURE WORK ZONE WITH FENCING. STAGING AREAS, CONTRACTOR EQUIPMENT AND WORK AREAS TO BE FENCED AND SECURED AT ALL TIMES. PROVIDE VEHICLE AND PERSON GATES AS REQUIRED FOR CONSTRUCTION. COORDINATE KEYED LOCKS WITH BSD.
- MAINTAIN UNOBSTRUCTED ACCESS FOR STUDENTS AND PEDESTRIANS AT ALL TIMES ALONG EXISTING PEDESTRIAN ROUTES. WHEREAS PROJECT WORK REQUIRES ACTIVITY IN A PEDESTRIAN ROUTE, PROVIDE CLEARLY DENOTED ALTERNATIVE ROUTES SEPARATED FROM VEHICULAR ACTIVITY.
- MAINTAIN EMERGENCY VEHICLE ACCESS THROUGHOUT THE DURATION OF CONSTRUCTION. MAINTAIN FIRE LANE ACCESS AT ALL TIMES.
- REFER TO SPECIFICATIONS FOR PROJECT SIGNAGE.
- ALL EXISTING BUILDINGS ARE TO REMAIN.
- MAINTAIN FIELD LIGHTING AND PEDESTRIAN LIGHTING AT ALL TIMES, OR PROVIDE TEMPORARY LIGHTING AS REQUIRED.
- PROTECT EXISTING SURFACES AT CONSTRUCTION ENTRANCES AND REPAIR ANY DAMAGED SURFACES TO PRE-EXISTING CONDITION OR BETTER.
- PARKING LOT ADJACENT TO CORNELL ROAD IS INTENDED FOR CONTRACTOR USE. CLEAN DIRT AND DEBRIS GENERATED FROM CONSTRUCTION WORK.
- AT ALL STAGING AND STOCKPILE AREAS ON NON-PAVED SURFACES INSTALL GEOTEXTILE FABRIC AND 6 INCH MINIMUM OF CRUSHED ROCK FOR STABILIZED WORK AREA. CONTRACTOR IS RESPONSIBLE TO RESTORE AREAS IMPACTED DURING CONSTRUCTION TO PRE-CONSTRUCTION CONDITIONS. REFER TO CIVIL ESC PLANS FOR ADDITIONAL MEASURES.



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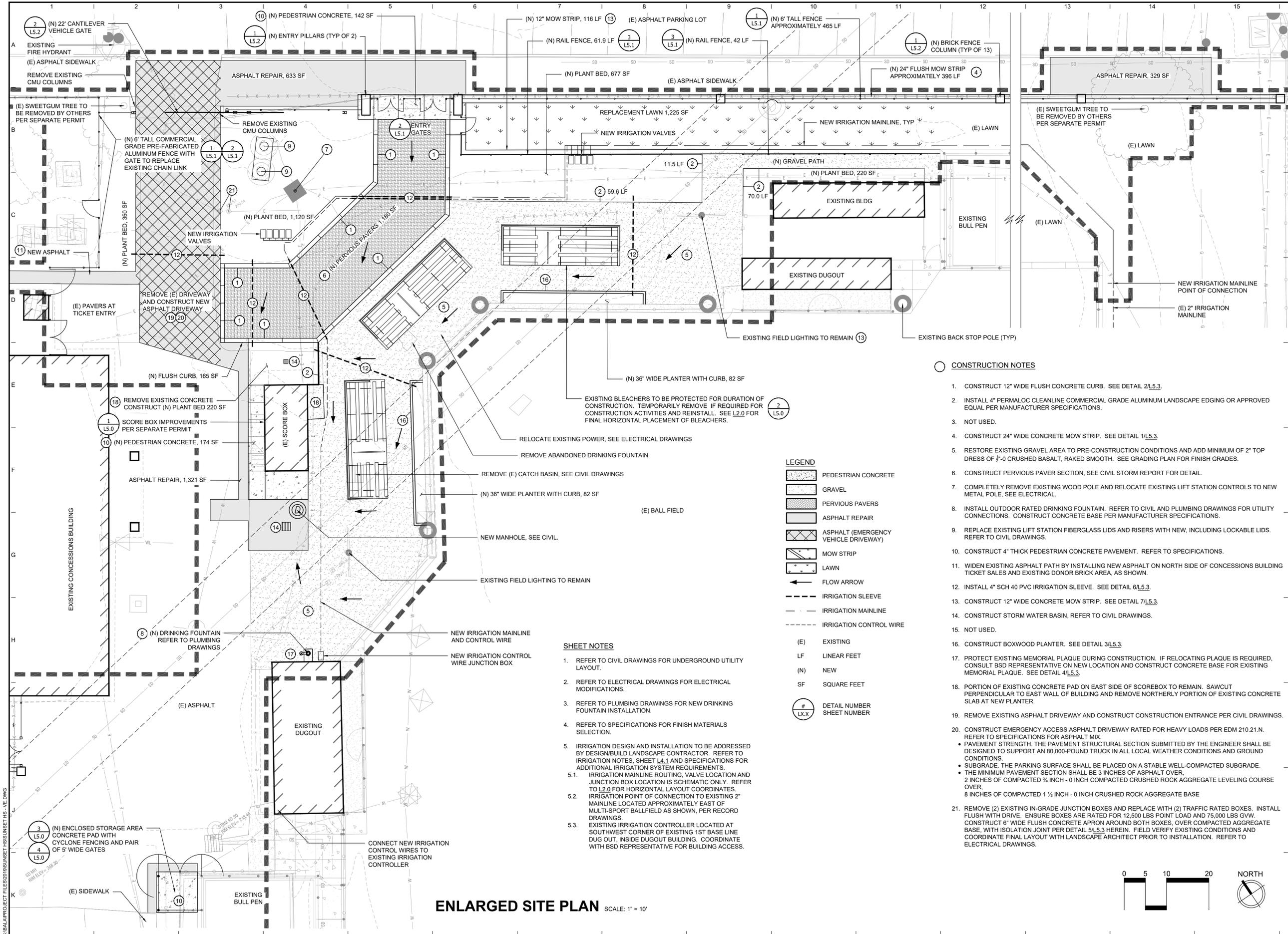
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CHECKED BY	SB

**ENLARGED  
SITE PLAN**

SCALE: 1 INCH = 10 FEET  
SHEET:

**L1.0**



**CONSTRUCTION NOTES**

- CONSTRUCT 12" WIDE FLUSH CONCRETE CURB. SEE DETAIL 2/L5.3.
- INSTALL 4" PERMALOC CLEANLINE COMMERCIAL GRADE ALUMINUM LANDSCAPE EDGING OR APPROVED EQUAL PER MANUFACTURER SPECIFICATIONS.
- NOT USED.
- CONSTRUCT 24" WIDE CONCRETE MOW STRIP. SEE DETAIL 1/L5.3.
- RESTORE EXISTING GRAVEL AREA TO PRE-CONSTRUCTION CONDITIONS AND ADD MINIMUM OF 2" TOP DRESS OF 3/4" CRUSHED BASALT, RAKED SMOOTH. SEE GRADING PLAN FOR FINISH GRADES.
- CONSTRUCT PERVIOUS PAVER SECTION, SEE CIVIL STORM REPORT FOR DETAIL.
- COMPLETELY REMOVE EXISTING WOOD POLE AND RELOCATE EXISTING LIFT STATION CONTROLS TO NEW METAL POLE, SEE ELECTRICAL.
- INSTALL OUTDOOR RATED DRINKING FOUNTAIN. REFER TO CIVIL AND PLUMBING DRAWINGS FOR UTILITY CONNECTIONS. CONSTRUCT CONCRETE BASE PER MANUFACTURER SPECIFICATIONS.
- REPLACE EXISTING LIFT STATION FIBERGLASS LIDS AND RISERS WITH NEW, INCLUDING LOCKABLE LIDS. REFER TO CIVIL DRAWINGS.
- CONSTRUCT 4" THICK PEDESTRIAN CONCRETE PAVEMENT. REFER TO SPECIFICATIONS.
- WIDEN EXISTING ASPHALT PATH BY INSTALLING NEW ASPHALT ON NORTH SIDE OF CONCESSIONS BUILDING TICKET SALES AND EXISTING DONOR BRICK AREA, AS SHOWN.
- INSTALL 4" SCH 40 PVC IRRIGATION SLEEVE. SEE DETAIL 6/L5.3.
- CONSTRUCT 12" WIDE CONCRETE MOW STRIP. SEE DETAIL 7/L5.3.
- CONSTRUCT STORM WATER BASIN, REFER TO CIVIL DRAWINGS.
- NOT USED.
- CONSTRUCT BOXWOOD PLANTER. SEE DETAIL 3/L5.3.
- PROTECT EXISTING MEMORIAL PLAQUE DURING CONSTRUCTION. IF RELOCATING PLAQUE IS REQUIRED, CONSULT BSD REPRESENTATIVE ON NEW LOCATION AND CONSTRUCT CONCRETE BASE FOR EXISTING MEMORIAL PLAQUE. SEE DETAIL 4/L5.3.
- PORTION OF EXISTING CONCRETE PAD ON EAST SIDE OF SCOREBOX TO REMAIN. SAWCUT PERPENDICULAR TO EAST WALL OF BUILDING AND REMOVE NORTHERLY PORTION OF EXISTING CONCRETE SLAB AT NEW PLANTER.
- REMOVE EXISTING ASPHALT DRIVEWAY AND CONSTRUCT CONSTRUCTION ENTRANCE PER CIVIL DRAWINGS.
- CONSTRUCT EMERGENCY ACCESS ASPHALT DRIVEWAY RATED FOR HEAVY LOADS PER EDM 210.21.N. REFER TO SPECIFICATIONS FOR ASPHALT MIX.
  - PAVEMENT STRENGTH, THE PAVEMENT STRUCTURAL SECTION SUBMITTED BY THE ENGINEER SHALL BE DESIGNED TO SUPPORT AN 80,000-POUND TRUCK IN ALL LOCAL WEATHER CONDITIONS AND GROUND CONDITIONS.
  - SUBGRADE, THE PARKING SURFACE SHALL BE PLACED ON A STABLE WELL-COMPACTED SUBGRADE.
  - THE MINIMUM PAVEMENT SECTION SHALL BE 3 INCHES OF ASPHALT OVER, 2 INCHES OF COMPACTED 3/4" INCH - 0 INCH COMPACTED CRUSHED ROCK AGGREGATE LEVELING COURSE OVER, 8 INCHES OF COMPACTED 1 1/2" INCH - 0 INCH CRUSHED ROCK AGGREGATE BASE
- REMOVE (2) EXISTING IN-GRADE JUNCTION BOXES AND REPLACE WITH (2) TRAFFIC RATED BOXES. INSTALL FLUSH WITH DRIVE. ENSURE BOXES ARE RATED FOR 12,500 LBS POINT LOAD AND 75,000 LBS GWV. CONSTRUCT 6" WIDE FLUSH CONCRETE APRON AROUND BOTH BOXES, OVER COMPACTED AGGREGATE BASE, WITH ISOLATION JOINT PER DETAIL 5/L5.3 HEREIN. FIELD VERIFY EXISTING CONDITIONS AND COORDINATE FINAL LAYOUT WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. REFER TO ELECTRICAL DRAWINGS.

**LEGEND**

- PEDESTRIAN CONCRETE
- GRAVEL
- PERVIOUS PAVERS
- ASPHALT REPAIR
- ASPHALT (EMERGENCY VEHICLE DRIVEWAY)
- MOW STRIP
- LAWN
- FLOW ARROW
- IRRIGATION SLEEVE
- IRRIGATION MAINLINE
- IRRIGATION CONTROL WIRE
- (E) EXISTING
- LF LINEAR FEET
- (N) NEW
- SF SQUARE FEET
- #/LX.X DETAIL NUMBER SHEET NUMBER

**SHEET NOTES**

- REFER TO CIVIL DRAWINGS FOR UNDERGROUND UTILITY LAYOUT.
- REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL MODIFICATIONS.
- REFER TO PLUMBING DRAWINGS FOR NEW DRINKING FOUNTAIN INSTALLATION.
- REFER TO SPECIFICATIONS FOR FINISH MATERIALS SELECTION.
- IRRIGATION DESIGN AND INSTALLATION TO BE ADDRESSED BY DESIGN/BUILD LANDSCAPE CONTRACTOR. REFER TO IRRIGATION NOTES, SHEET L4.1 AND SPECIFICATIONS FOR ADDITIONAL IRRIGATION SYSTEM REQUIREMENTS.
  - IRRIGATION MAINLINE ROUTING, VALVE LOCATION AND JUNCTION BOX LOCATION IS SCHEMATIC ONLY. REFER TO L2.0 FOR HORIZONTAL LAYOUT COORDINATES.
  - IRRIGATION POINT OF CONNECTION TO EXISTING 2" MAINLINE LOCATED APPROXIMATELY EAST OF MULTI-SPORT BALLFIELD AS SHOWN, PER RECORD DRAWINGS.
  - EXISTING IRRIGATION CONTROLLER LOCATED AT SOUTHWEST CORNER OF EXISTING 1ST BASE LINE DUG OUT, INSIDE DUGOUT BUILDING. COORDINATE WITH BSD REPRESENTATIVE FOR BUILDING ACCESS.

**ENLARGED SITE PLAN** SCALE: 1" = 10'



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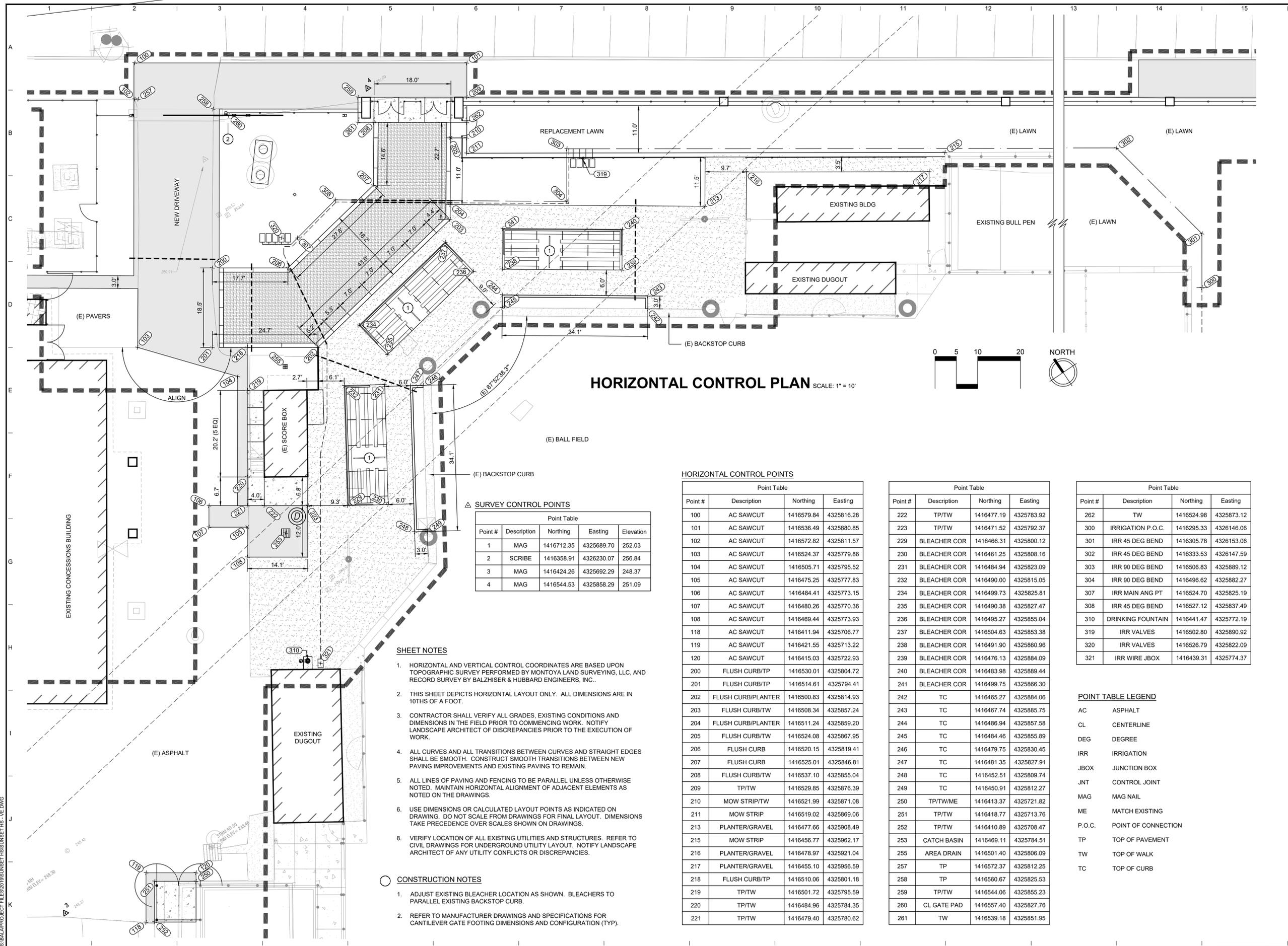
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**HORIZONTAL CONTROL PLAN**

SCALE: 1 INCH = 10 FEET

SHEET:

**L2.0**



**HORIZONTAL CONTROL PLAN** SCALE: 1" = 10'

**△ SURVEY CONTROL POINTS**

Point #	Description	Northing	Easting	Elevation
1	MAG	1416712.35	4325689.70	252.03
2	SCRIBE	1416358.91	4326230.07	256.84
3	MAG	1416424.26	4325692.29	248.37
4	MAG	1416544.53	4325858.29	251.09

- SHEET NOTES**
- HORIZONTAL AND VERTICAL CONTROL COORDINATES ARE BASED UPON TOPOGRAPHIC SURVEY PERFORMED BY MONTOYA LAND SURVEYING, LLC. AND RECORD SURVEY BY BALZHISER & HUBBARD ENGINEERS, INC..
  - THIS SHEET DEPICTS HORIZONTAL LAYOUT ONLY. ALL DIMENSIONS ARE IN 10THS OF A FOOT.
  - CONTRACTOR SHALL VERIFY ALL GRADES, EXISTING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO COMMENCING WORK. NOTIFY LANDSCAPE ARCHITECT OF DISCREPANCIES PRIOR TO THE EXECUTION OF WORK.
  - ALL CURVES AND ALL TRANSITIONS BETWEEN CURVES AND STRAIGHT EDGES SHALL BE SMOOTH. CONSTRUCT SMOOTH TRANSITIONS BETWEEN NEW PAVING IMPROVEMENTS AND EXISTING PAVING TO REMAIN.
  - ALL LINES OF PAVING AND FENCING TO BE PARALLEL UNLESS OTHERWISE NOTED. MAINTAIN HORIZONTAL ALIGNMENT OF ADJACENT ELEMENTS AS NOTED ON THE DRAWINGS.
  - USE DIMENSIONS OR CALCULATED LAYOUT POINTS AS INDICATED ON DRAWING. DO NOT SCALE FROM DRAWINGS FOR FINAL LAYOUT. DIMENSIONS TAKE PRECEDENCE OVER SCALES SHOWN ON DRAWINGS.
  - VERIFY LOCATION OF ALL EXISTING UTILITIES AND STRUCTURES. REFER TO CIVIL DRAWINGS FOR UNDERGROUND UTILITY LAYOUT. NOTIFY LANDSCAPE ARCHITECT OF ANY UTILITY CONFLICTS OR DISCREPANCIES.

- CONSTRUCTION NOTES**
- ADJUST EXISTING BLEACHER LOCATION AS SHOWN. BLEACHERS TO PARALLEL EXISTING BACKSTOP CURB.
  - REFER TO MANUFACTURER DRAWINGS AND SPECIFICATIONS FOR CANTILEVER GATE FOOTING DIMENSIONS AND CONFIGURATION (TYP).

**HORIZONTAL CONTROL POINTS**

Point #	Description	Northing	Easting
100	AC SAWCUT	1416579.84	4325816.28
101	AC SAWCUT	1416536.49	4325880.85
102	AC SAWCUT	1416572.82	4325811.57
103	AC SAWCUT	1416524.37	4325779.86
104	AC SAWCUT	1416505.71	4325795.52
105	AC SAWCUT	1416475.25	4325777.83
106	AC SAWCUT	1416484.41	4325773.15
107	AC SAWCUT	1416480.26	4325770.36
108	AC SAWCUT	1416469.44	4325773.93
118	AC SAWCUT	1416411.94	4325706.77
119	AC SAWCUT	1416421.55	4325713.22
120	AC SAWCUT	1416415.03	4325722.93
200	FLUSH CURB/TP	1416530.01	4325804.72
201	FLUSH CURB/TP	1416514.61	4325794.41
202	FLUSH CURB/PLANTER	1416500.83	4325814.93
203	FLUSH CURB/TW	1416508.34	4325857.24
204	FLUSH CURB/PLANTER	1416511.24	4325859.20
205	FLUSH CURB/TW	1416524.08	4325867.95
206	FLUSH CURB	1416520.15	4325819.41
207	FLUSH CURB	1416525.01	4325846.81
208	FLUSH CURB/TW	1416537.10	4325855.04
209	TP/TW	1416529.85	4325876.39
210	MOW STRIP/TW	1416521.99	4325871.08
211	MOW STRIP	1416519.02	4325869.06
213	PLANTER/GRAVEL	1416477.66	4325908.49
215	MOW STRIP	1416456.77	4325962.17
216	PLANTER/GRAVEL	1416478.97	4325921.04
217	PLANTER/GRAVEL	1416455.10	4325956.59
218	FLUSH CURB/TP	1416510.06	4325801.18
219	TP/TW	1416501.72	4325795.59
220	TP/TW	1416484.96	4325784.35
221	TP/TW	1416479.40	4325780.62

Point #	Description	Northing	Easting
222	TP/TW	1416477.19	4325783.92
223	TP/TW	1416471.52	4325792.37
229	BLEACHER COR	1416466.31	4325800.12
230	BLEACHER COR	1416461.25	4325808.16
231	BLEACHER COR	1416484.94	4325823.09
232	BLEACHER COR	1416490.00	4325815.05
234	BLEACHER COR	1416499.73	4325825.81
235	BLEACHER COR	1416490.38	4325827.47
236	BLEACHER COR	1416495.27	4325855.04
237	BLEACHER COR	1416504.63	4325853.38
238	BLEACHER COR	1416491.90	4325860.96
239	BLEACHER COR	1416476.13	4325884.09
240	BLEACHER COR	1416483.98	4325889.44
241	BLEACHER COR	1416499.75	4325866.30
242	TC	1416465.27	4325884.06
243	TC	1416467.74	4325885.75
244	TC	1416486.94	4325857.58
245	TC	1416484.46	4325855.89
246	TC	1416479.75	4325830.45
247	TC	1416481.35	4325827.91
248	TC	1416452.51	4325809.74
249	TC	1416450.91	4325812.27
250	TP/TW/ME	1416413.37	4325721.82
251	TP/TW	1416418.77	4325713.76
252	TP/TW	1416410.89	4325708.47
253	CATCH BASIN	1416469.11	4325784.51
255	AREA DRAIN	1416501.40	4325806.09
257	TP	1416572.37	4325812.25
258	TP	1416560.67	4325825.53
259	TP/TW	1416544.06	4325855.23
260	CL GATE PAD	1416557.40	4325827.76
261	TW	1416539.18	4325851.95

Point #	Description	Northing	Easting
262	TW	1416524.98	4325873.12
300	IRRIGATION P.O.C.	1416295.33	4326146.06
301	IRR 45 DEG BEND	1416305.78	4326153.06
302	IRR 45 DEG BEND	1416333.53	4326147.59
303	IRR 90 DEG BEND	1416506.83	4325889.12
304	IRR 90 DEG BEND	1416496.62	4325882.27
307	IRR MAIN ANG PT	1416524.70	4325825.19
308	IRR 45 DEG BEND	1416527.12	4325837.49
310	DRINKING FOUNTAIN	1416441.47	4325772.19
319	IRR VALVES	1416502.80	4325890.92
320	IRR VALVES	1416526.79	4325822.09
321	IRR WIRE JBOX	1416439.31	4325774.37

**POINT TABLE LEGEND**

AC	ASPHALT
CL	CENTERLINE
DEG	DEGREE
IRR	IRRIGATION
JBOX	JUNCTION BOX
JNT	CONTROL JOINT
MAG	MAG NAIL
ME	MATCH EXISTING
P.O.C.	POINT OF CONNECTION
TP	TOP OF PAVEMENT
TW	TOP OF WALK
TC	TOP OF CURB

S:\BLA\PROJECT FILES\2020\SUNSET HS\SUNSET HS - VE.DWG

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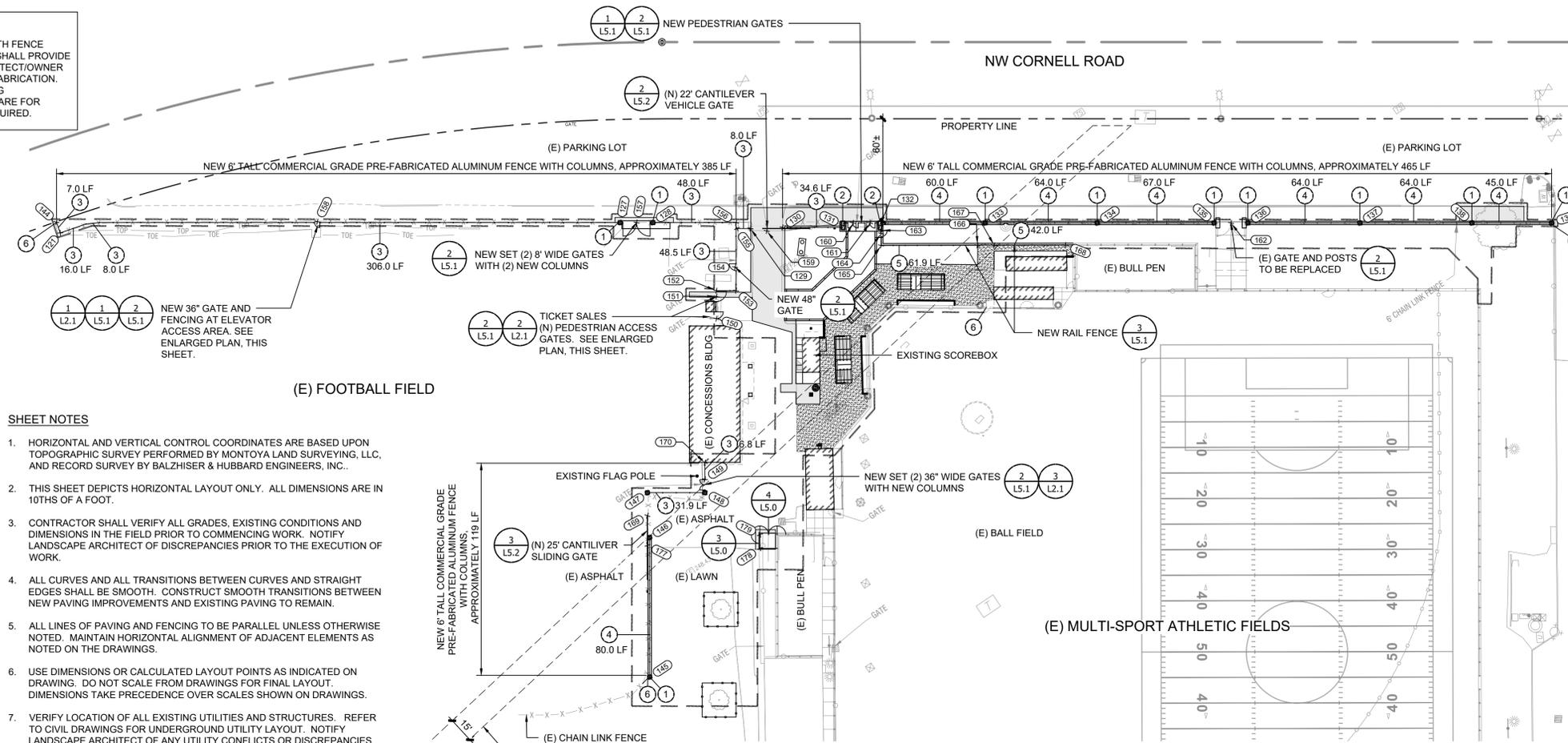
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AC	ASPHALT
CL	CENTERLINE
COR	CORNER
DBL	DOUBLE
ME	MATCH EXISTING
TP	TOP OF PAVEMENT
TW	TOP OF WALK
TC	TOP OF CURB

**NOTE TO CONTRACTOR:**  
COORDINATE BRICK COLUMN LAYOUT WITH FENCE FABRICATOR/INSTALLER. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR LANDSCAPE ARCHITECT/OWNER APPROVAL PRIOR TO FENCE AND GATE FABRICATION. SEE SPECIFICATIONS FOR SHOP DRAWING REQUIREMENTS. COORDINATES SHOWN ARE FOR REFERENCE ONLY. FIELD ADJUST AS REQUIRED.

**HORIZONTAL CONTROL POINTS**

Point #	Description	Northing	Easting
121	FENCE CL/ANGLE POINT	1416794.50	4325469.87
127	COLUMN @ CL/CL	1416615.60	4325747.31
128	COLUMN @ CL/CL	1416604.84	4325763.33
129	6" POST @ CL/CL	1416569.91	4325809.15
130	6" POST @ CL/CL	1416559.88	4325825.14
131	ENTRY COLUMN @ CL/CL	1416540.98	4325855.42
132	ENTRY COLUMN @ CL/CL	1416528.87	4325873.48
133	COLUMN @ CL/CL	1416495.49	4325925.78
134	COLUMN @ CL/CL	1416458.69	4325980.60
135	COLUMN @ CL/CL	1416420.26	4326037.84
136	COLUMN @ CL/CL	1416409.17	4326054.36
137	COLUMN @ CL/CL	1416372.37	4326109.18
138	COLUMN @ CL/CL	1416335.63	4326164.04
139	COLUMN @ CL/CL	1416309.37	4326203.02
144	FENCE CL @ END	1416801.00	4325471.59
145	COLUMN @ CL/CL	1416384.55	4325613.17
146	COLUMN @ CL/CL	1416452.55	4325658.77
147	COLUMN @ CL/CL	1416475.09	4325672.30
148	COLUMN @ CL/CL	1416456.22	4325700.44
149	FENCE CL @ GATE	1416462.75	4325704.82
150	CL 96" DBL GATE	1416537.16	4325763.01
151	CL 72" GATE	1416547.95	4325770.24
152	FENCE CL @ END	1416550.81	4325772.11
153	FENCE CL @ COR	1416544.35	4325781.74
154	CL 48" GATE	1416556.13	4325788.95
155	FENCE CL @ END	1416574.36	4325802.52
156	FENCE CL @ COR	1416577.53	4325804.01
157	CL 16" DBL GATE	1416610.22	4325755.32
158	CL 36" GATE	1416715.50	4325599.40
159	CL 18" CANTILEVER GATE	1416563.37	4325816.31
160	CL 72" DBL GATE	1416538.94	4325861.12
161	CL 72" DBL GATE	1416533.33	4325869.40
162	CL 16" DBL GATE	1416414.72	4326046.10
163	RAIL FENCE CL @ END	1416526.11	4325872.53
164	CL 36" GATE	1416524.51	4325871.44
165	RAIL FENCE CL @ COR	1416518.71	4325867.49
166	RAIL FENCE CL @ END	1416487.15	4325914.72
167	RAIL FENCE CL @ END	1416481.69	4325922.88
168	RAIL FENCE CL @ END	1416458.34	4325957.80
169	CL 25" CANTILEVER GATE	1416463.88	4325664.78
170	FENCE CL @ END	1416470.79	4325710.21
177	CL GATE PAD	1416449.38	4325655.15
178	COR CHAIN LINK	1416411.02	4325709.16
179	COR CHAIN LINK	1416417.67	4325713.62

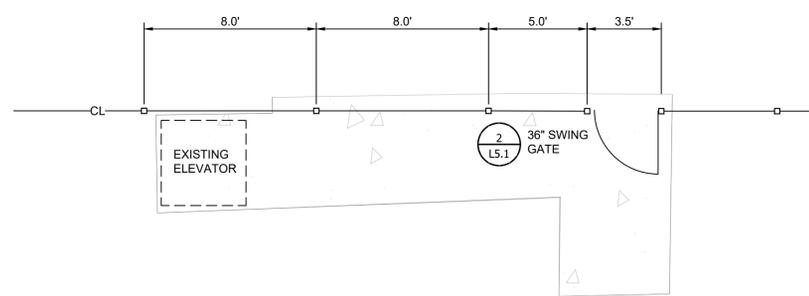


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  - USE DIMENSIONS OR CALCULATED LAYOUT POINTS AS INDICATED ON DRAWING. DO NOT SCALE FROM DRAWINGS FOR FINAL LAYOUT. DIMENSIONS TAKE PRECEDENCE OVER SCALES SHOWN ON DRAWINGS.
  - VERIFY LOCATION OF ALL EXISTING UTILITIES AND STRUCTURES. REFER TO CIVIL DRAWINGS FOR UNDERGROUND UTILITY LAYOUT. NOTIFY LANDSCAPE ARCHITECT OF ANY UTILITY CONFLICTS OR DISCREPANCIES.

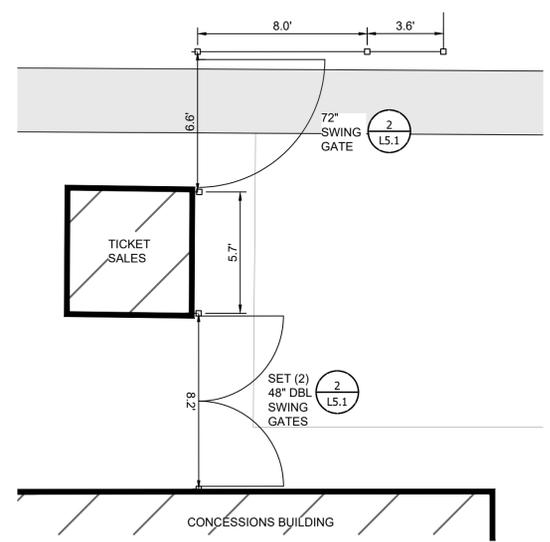
**CONSTRUCTION NOTES**

- CONSTRUCT 24" X 24" COLUMN. SEE DETAIL 1/L5.2, AND REFER TO STRUCTURAL DRAWINGS.
- CONSTRUCT ENTRY COLUMN. SEE DETAIL 1/L5.2, AND REFER TO STRUCTURAL DRAWINGS.
- CONSTRUCT 6" TALL COMMERCIAL GRADE PRE-FABRICATED ALUMINUM FENCE (NO MOW STRIP). REFER TO DETAIL 1/L5.1 AND FENCE MANUFACTURER DRAWINGS AND SPECIFICATIONS.
- CONSTRUCT 24" WIDE MOW-STRIP AND 6" TALL COMMERCIAL GRADE PRE-FABRICATED ALUMINUM FENCE. SEE DETAILS 1/L5.1 AND 1/L5.3, AND REFER TO FENCE MANUFACTURER DRAWINGS AND SPECIFICATIONS.
- CONSTRUCT METAL RAIL FENCE. SEE DETAIL 3/L5.1.
- REMOVE AND RE-INSTALL EXISTING CHAIN LINK FENCE AS REQUIRED TO SECURE FINISHED FENCED AREA.

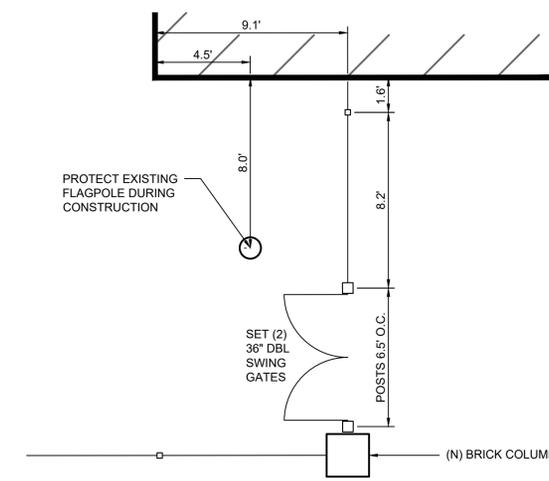
**1 GRANDSTAND ELEVATOR FENCING PLAN**  
SCALE: 1/4" = 1'-0"



**2 TICKET SALES FENCING PLAN**  
SCALE: 1/4" = 1'-0"



**3 FLAGPOLE AREA FENCING PLAN**  
SCALE: 1/4" = 1'-0"





BEAVERTON SCHOOL DISTRICT  
**SUNSET HIGH SCHOOL**  
STADIUM SITE IMPROVEMENTS  
13840 NW CORNELL ROAD  
PORTLAND, OR 97229

CONSTRUCTION DRAWINGS  
PERMIT AND BIDDING SET

ISSUE		
#	DESCRIPTION	DATE
1	BSD COMMENTS	03/10/2020

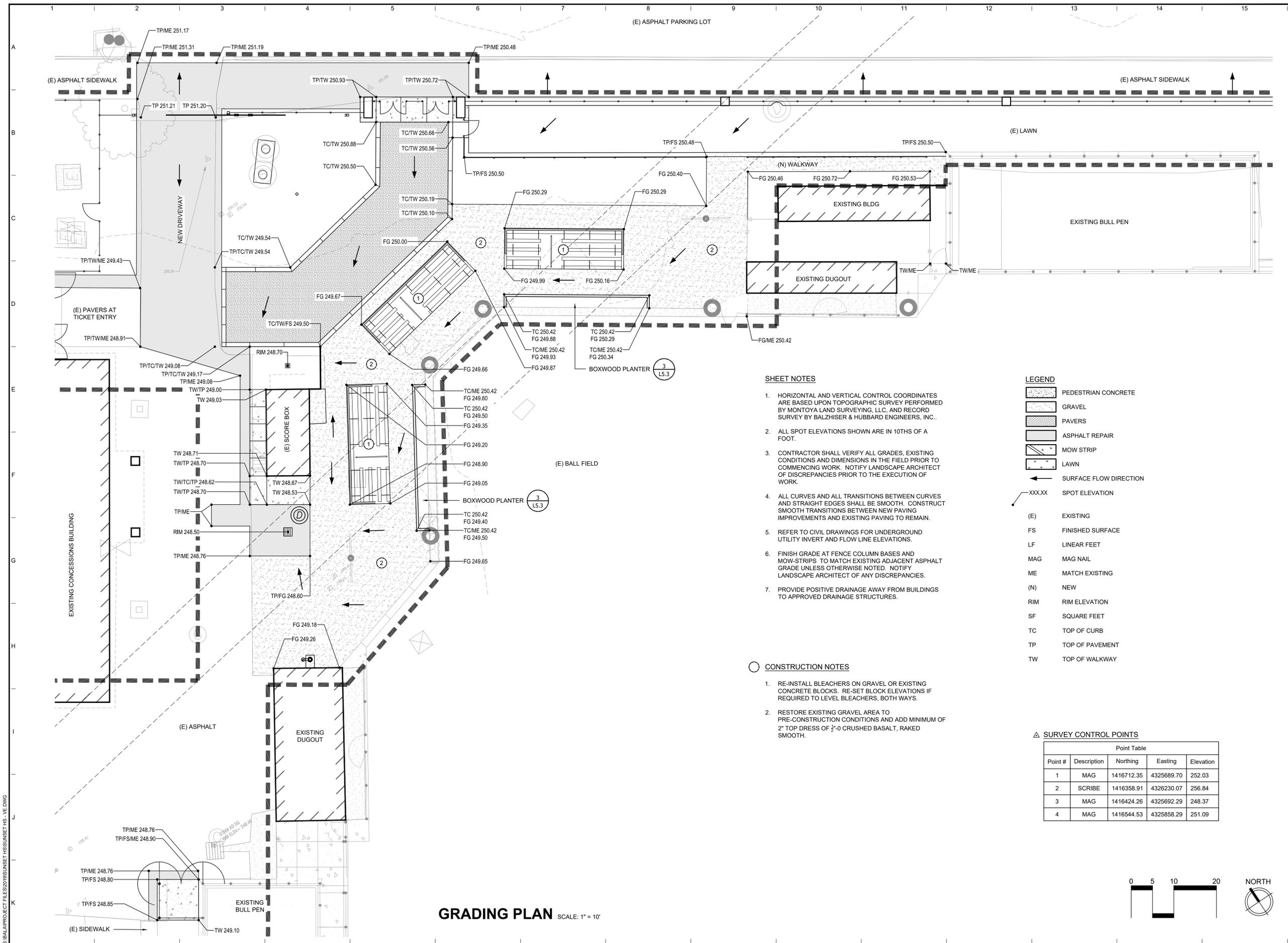
DATE	02/18/2020
PROJECT NO.	7839
CAD DWG FILE	SUNSET HS - CD.DWG
DRAWN BY	SBB, KHW
CHECKED BY	SBB

**GRADING PLAN**

SCALE: 1 INCH = 10 FEET

SHEET:

**L3.0**



**SHEET NOTES**

- HORIZONTAL AND VERTICAL CONTROL COORDINATES ARE BASED UPON TOPOGRAPHIC SURVEY PERFORMED BY MONTOYA LAND SURVEYING, LLC, AND RECORD SURVEY BY BALZHISER & HUBBARD ENGINEERS, INC..
- ALL SPOT ELEVATIONS SHOWN ARE IN 10THS OF A FOOT.
- CONTRACTOR SHALL VERIFY ALL GRADES, EXISTING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO COMMENCING WORK. NOTIFY LANDSCAPE ARCHITECT OF DISCREPANCIES PRIOR TO THE EXECUTION OF WORK.
- ALL CURVES AND ALL TRANSITIONS BETWEEN CURVES AND STRAIGHT EDGES SHALL BE SMOOTH. CONSTRUCT SMOOTH TRANSITIONS BETWEEN NEW PAVING IMPROVEMENTS AND EXISTING PAVING TO REMAIN.
- REFER TO CIVIL DRAWINGS FOR UNDERGROUND UTILITY INVERT AND FLOW LINE ELEVATIONS.
- FINISH GRADE AT FENCE COLUMN BASES AND MOW-STRIPS TO MATCH EXISTING ADJACENT ASPHALT GRADE UNLESS OTHERWISE NOTED. NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES.
- PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS TO APPROVED DRAINAGE STRUCTURES.

**CONSTRUCTION NOTES**

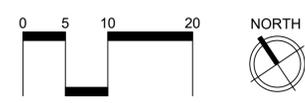
- RE-INSTALL BLEACHERS ON GRAVEL OR EXISTING CONCRETE BLOCKS. RE-SET BLOCK ELEVATIONS IF REQUIRED TO LEVEL BLEACHERS, BOTH WAYS.
- RESTORE EXISTING GRAVEL AREA TO PRE-CONSTRUCTION CONDITIONS AND ADD MINIMUM OF 2" TOP DRESS OF 3/4" CRUSHED BASALT, RAKED SMOOTH.

**LEGEND**

- PEDESTRIAN CONCRETE
- GRAVEL
- PAVERS
- ASPHALT REPAIR
- MOW STRIP
- LAWN
- SURFACE FLOW DIRECTION
- xxx.xx SPOT ELEVATION
- (E) EXISTING
- FS FINISHED SURFACE
- LF LINEAR FEET
- MAG MAG NAIL
- ME MATCH EXISTING
- (N) NEW
- RIM RIM ELEVATION
- SF SQUARE FEET
- TC TOP OF CURB
- TP TOP OF PAVEMENT
- TW TOP OF WALKWAY

**△ SURVEY CONTROL POINTS**

Point Table				
Point #	Description	Northing	Easting	Elevation
1	MAG	1416712.35	4325689.70	252.03
2	SCRIBE	1416358.91	4326230.07	256.84
3	MAG	1416424.26	4325692.29	248.37
4	MAG	1416544.53	4325858.29	251.09



**GRADING PLAN** SCALE: 1" = 10'

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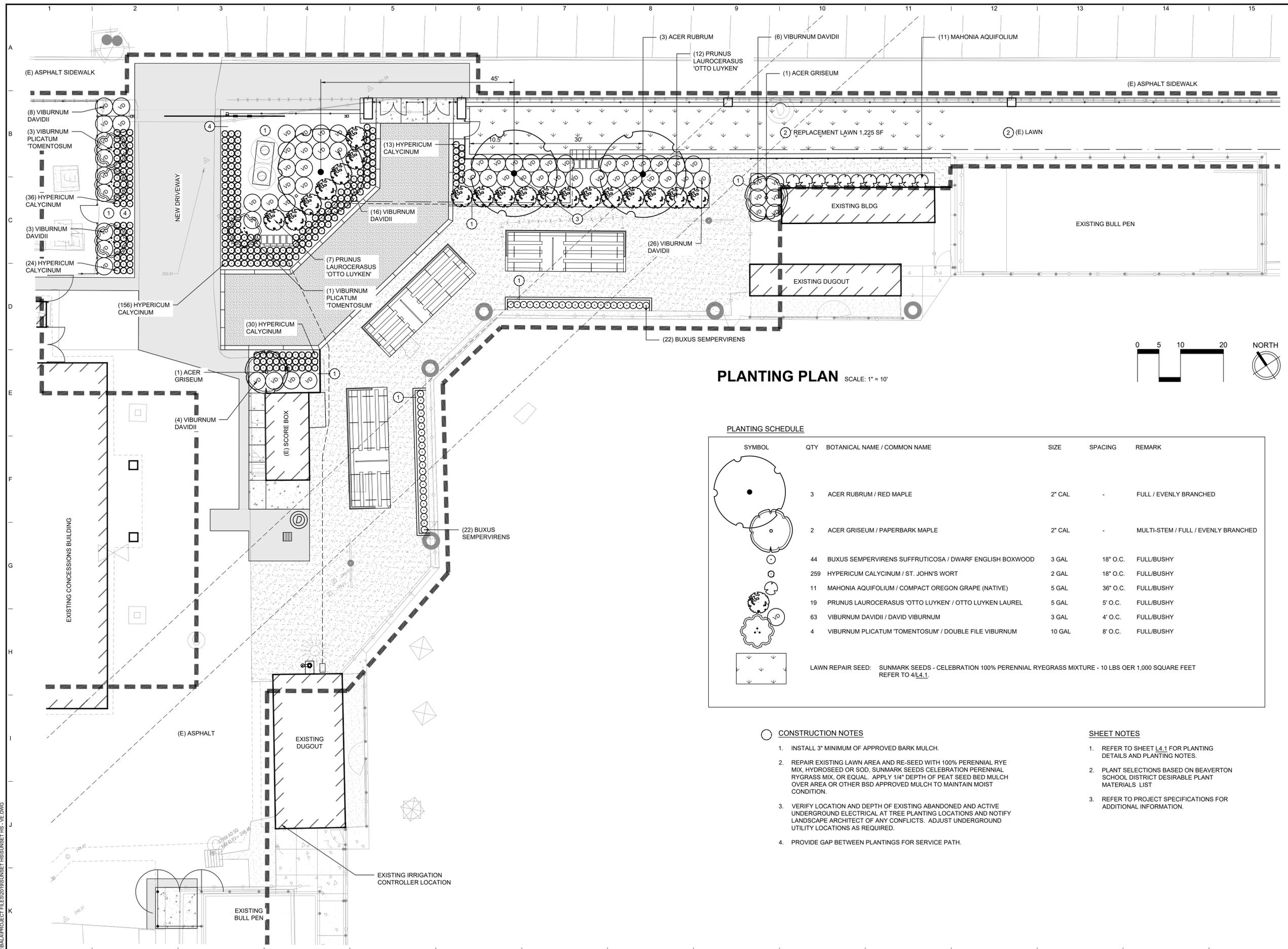
DATE	02/18/2020
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DRAWN BY	SBB, KHW
CHECKED BY	SBB

**PLANTING PLAN**

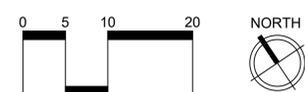
SCALE: 1 INCH = 10 FEET

SHEET:

**L4.0**



**PLANTING PLAN** SCALE: 1" = 10'



**PLANTING SCHEDULE**

SYMBOL	QTY	BOTANICAL NAME / COMMON NAME	SIZE	SPACING	REMARK
	3	ACER RUBRUM / RED MAPLE	2" CAL	-	FULL / EVENLY BRANCHED
	2	ACER GRISEUM / PAPERBARK MAPLE	2" CAL	-	MULTI-STEM / FULL / EVENLY BRANCHED
	44	BUXUS SEMPERVIRENS SUFFRUTICOSA / DWARF ENGLISH BOXWOOD	3 GAL	18" O.C.	FULL/BUSHY
	259	HYPERICUM CALYCINUM / ST. JOHN'S WORT	2 GAL	18" O.C.	FULL/BUSHY
	11	MAHONIA AQUIFOLIUM / COMPACT OREGON GRAPE (NATIVE)	5 GAL	36" O.C.	FULL/BUSHY
	19	PRUNUS LAUROCERASUS 'OTTO LUYKEN' / OTTO LUYKEN LAUREL	5 GAL	5' O.C.	FULL/BUSHY
	63	VIBURNUM DAVIDII / DAVID VIBURNUM	3 GAL	4' O.C.	FULL/BUSHY
	4	VIBURNUM Plicatum 'TOMENTOSUM' / DOUBLE FILE VIBURNUM	10 GAL	8' O.C.	FULL/BUSHY
	LAWN REPAIR SEED: SUNMARK SEEDS - CELEBRATION 100% PERENNIAL RYEGRASS MIXTURE - 10 LBS OER 1,000 SQUARE FEET REFER TO 4/L4.1.				

**CONSTRUCTION NOTES**

- INSTALL 3" MINIMUM OF APPROVED BARK MULCH.
- REPAIR EXISTING LAWN AREA AND RE-SEED WITH 100% PERENNIAL RYE MIX, HYDROSEED OR SOD, SUNMARK SEEDS CELEBRATION PERENNIAL RYEGRASS MIX, OR EQUAL. APPLY 1/4" DEPTH OF PEAT SEED BED MULCH OVER AREA OR OTHER BSD APPROVED MULCH TO MAINTAIN MOIST CONDITION.
- VERIFY LOCATION AND DEPTH OF EXISTING ABANDONED AND ACTIVE UNDERGROUND ELECTRICAL AT TREE PLANTING LOCATIONS AND NOTIFY LANDSCAPE ARCHITECT OF ANY CONFLICTS. ADJUST UNDERGROUND UTILITY LOCATIONS AS REQUIRED.
- PROVIDE GAP BETWEEN PLANTINGS FOR SERVICE PATH.

**SHEET NOTES**

- REFER TO SHEET L4.1 FOR PLANTING DETAILS AND PLANTING NOTES.
- PLANT SELECTIONS BASED ON BEAVERTON SCHOOL DISTRICT DESIRABLE PLANT MATERIALS LIST
- REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.

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BEAVERTON SCHOOL DISTRICT  
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PLANTING  
DETAILS &  
NOTES

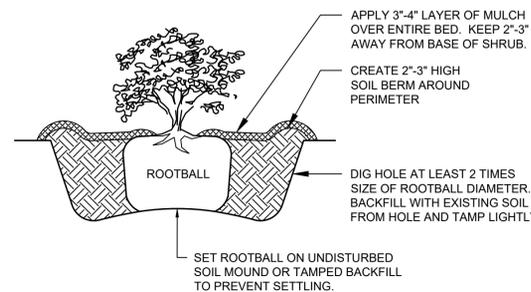
SCALE: NOT TO SCALE

SHEET:

**L4.1**

**LANDSCAPE NOTES**

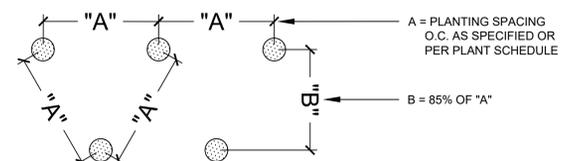
- BEFORE ANY EXCAVATION CALL DIG SAFELY OREGON 1-800-332-2344 OR 811 TO LOCATE UNDERGROUND UTILITIES. NOTIFY LANDSCAPE ARCHITECT OF ANY CONFLICTS WITH PROPOSED OR EXISTING UNDERGROUND UTILITIES.
- PROTECT ALL EXISTING DRAINAGE FACILITIES IN THE WORK AREA. MINIMIZE RUN-OFF WITH BEST MANAGEMENT PRACTICES. REFER TO CIVIL ESC DRAWINGS.
- COORDINATE WORK SCHEDULE AND OBSERVATIONS WITH LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION START-UP.
- ALL PLANT MATERIALS SHALL BE INSTALLED AS PER DETAILS.
- ALL PLANT MATERIALS SHALL CONFORM TO THE AMERICAN NURSERYMAN STANDARDS FOR TYPE AND SIZE SHOWN. PLANTS WILL BE REJECTED IF NOT IN A SOUND AND HEALTHY CONDITION.
- ALL PLANTING BEDS SHALL BE COVERED WITH A MINIMUM OF 3" OF SMALL (1" MINUS) BARK MULCH OR BSD APPROVED COVER.
- ALL WORK SHALL BE PERFORMED BY QUALIFIED CONTRACTOR FAMILIAR WITH PLANTING WORK.
- PLANT MATERIAL LOCATIONS SHOWN ARE DIAGRAMMATIC AND MAY BE SUBJECT TO CHANGE IN THE FIELD BY THE LANDSCAPE ARCHITECT BEFORE THE MAINTENANCE PERIOD BEGINS DUE TO UNFORESEEN CONFLICTS.
- PLANT COUNT AND LEGEND IS FOR THE CONVENIENCE OF THE CONTRACTOR. IN THE CASE OF DISCREPANCIES, THE PLAN SHALL TAKE PRECEDENCE.
- PLANT MATERIAL LOCATIONS ARE TO BE ADJUSTED IN THE FIELD AS NECESSARY TO SCREEN UTILITIES, PEDESTRIAN AND TRAFFIC SIGHT LINES, NOR IMPEDE ACCESS.
- THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO MAKE SUBSTITUTIONS, ADDITIONS AND DELETIONS IN THE PLANTING SCHEME AS NECESSARY WHILE WORK IS IN PROGRESS. SUCH CHANGES ARE TO BE ACCOMPANIED BY EQUITABLE ADJUSTMENTS IN THE CONTRACT PRICE IF/WHEN NECESSARY.
- ALL PLANT MATERIAL SHALL BE GUARANTEED FOR A PERIOD OF TWO YEARS BEGINNING AT THE DATE OF ACCEPTANCE BY THE OWNER. REPLACE ALL PLANT MATERIAL FOUND DEAD OR NOT IN A HEALTHY CONDITION IMMEDIATELY WITH THE SAME SIZE AND SPECIES AT NO COST TO THE OWNER.
- ALL PLANTING LOCATED ADJACENT TO SIGNS SHALL BE FIELD ADJUSTED SO AS NOT TO INTERFERE WITH VISIBILITY OF THE SIGNS.
- ALL PLANTING AREAS TO HAVE POSITIVE DRAINAGE TO EXISTING DRAINAGE SYSTEM. FINISH GRADES SHALL PROVIDE A SMOOTH TRANSITION WITH ADJACENT SURFACES IN ACCORDANCE WITH THE SITE GRADING PLAN.
- AMEND EXISTING APPROVED TOPSOIL AT A RATION OF THREE CUBIC YARDS OF APPROVED COMPOST PER 1000 SQUARE FEET OF PLANTING AREA. ROTO-TILL ORGANIC MATER A MINIMUM OF 6" INTO TOPSOIL.
- FERTILIZE ALL TREES AND SHRUBS WITH PLANTING TABLETS. QUANTITY PER MANUFACTURER'S RECOMMENDATIONS.
- ALL PLANTING BEDS SHALL HAVE A MINIMUM 18" DEPTH OF TOPSOIL. LAWN AREAS SHALL HAVE A MINIMUM 12" DEPTH OF TOPSOIL. SPREAD, COMPACT AND FINE GRADE TOPSOIL TO A SMOOTH AND UNIFORM GRADE.
  - 0" BELOW ADJACENT SURFACES OF PLANTER BED AREAS.
  - 1-1/2" BELOW ADJACENT SURFACES OF TURF SOD AREAS.
  - 1" BELOW ADJACENT SURFACES OF TURF SEED AREAS.
- IMMEDIATELY CLEAN UP ANY TOPSOIL OR OTHER DEBRIS ON THE SITE CREATED BY LANDSCAPE OPERATIONS AND DISPOSE OF PROPERLY OFF SITE.
- 12" MINIMUM TOPSOIL DEPTH IS REQUIRED PER BSD TECHNICAL STANDARDS. REUSE EXISTING TOPSOIL ON SITE. SUPPLEMENT WITH IMPORTED TOPSOIL WHEN QUANTITIES ARE INSUFFICIENT. VERIFY QUALITY AND CONDITION OF TOPSOIL AS A GROWING MEDIUM. TOPSOIL SHALL BE A LOOSE, SANDY LOAM, CLEAN AND FREE OF TOXIC MATERIALS, NOXIOUS WEEDS, WEED SEEDS, ROCKS, GRASS OR OTHER FOREIGN MATERIAL AND HAVE A PH OF 6.0 TO 7.0. IF THE ON SITE TOPSOIL DOES NOT MEET MINIMUM STANDARDS, CONTRACTOR SHALL EITHER:
  - PROVIDE APPROVED IMPORTED MATERIALS.
  - IMPROVE AND AMEND ON SITE TOPSOIL WITH METHODS APPROVED BY THE LANDSCAPE ARCHITECT.



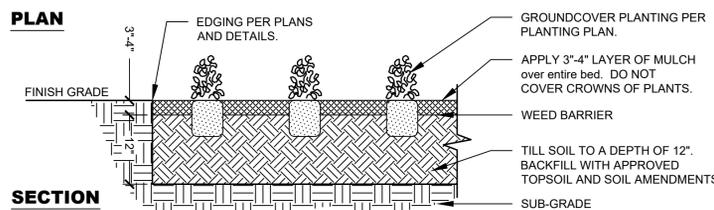
- NOTES:**
- CAREFULLY REMOVE CONTAINERS, WRAPPINGS, WIRES AND TIES FROM ROOTBALL BEFORE PLANTING.
  - LOOSEN OUTSIDE ROOTS, AND UNWRAP ANY CIRCLING ROOTS.
  - ADD COMMERCIAL SLOW RELEASE FERTILIZER TABLETS TO BACKFILL AT 6" DEPTH.

**2 SHRUB PLANTING**

NOT TO SCALE



**PLAN**



**SECTION**

- NOTES:**
- CAREFULLY REMOVE CONTAINERS, WRAPPINGS, WIRES AND TIES FROM ROOTBALL BEFORE PLANTING.
  - LOOSEN OUTSIDE ROOTS, AND UNWRAP ANY CIRCLING ROOTS.
  - ADD COMMERCIAL SLOW RELEASE FERTILIZER TABLETS TO BACKFILL AT 6" DEPTH.

**3 GROUND COVER PLANTING**

NOT TO SCALE

SUNMARK SEEDS INTERNATIONAL, INC.  
PO Box 1210  
Fairview OR 97024  
503-241-7333  
888-214-7333



Sunmark Celebration Perennial Ryegrass Mixture

Acres: 1  
Quantity: 450 lbs.

Botanical Name	Common Name	% by Weight	Seeds per lb. of Mix.	Seeds per lb.	Actual % by Seed Size	Lbs. Needed	Requested %
<i>Lolium perenne</i> var <i>Octane</i> *	Octane Perennial Ryegrass	34.00%	96900	285000	34.00%	153.00	34%
<i>Lolium perenne</i> var <i>Bonneville</i> *	Bonneville Perennial Ryegrass	33.00%	94050	285000	33.00%	148.50	33%
<i>Lolium perenne</i> var <i>Frontier</i> *	Frontier Perennial Ryegrass	33.00%	94050	285000	33.00%	148.50	33%
<b>TOTALS:</b>		<b>100.00%</b>	<b>285000</b>		<b>100.00%</b>	<b>450.00</b>	<b>100%</b>

\*Varieties may change at time of blending.

Seeding Rate 10.00 PLS Pounds Per 1000 Square Feet  
450.00 PLS Pounds Per Acre

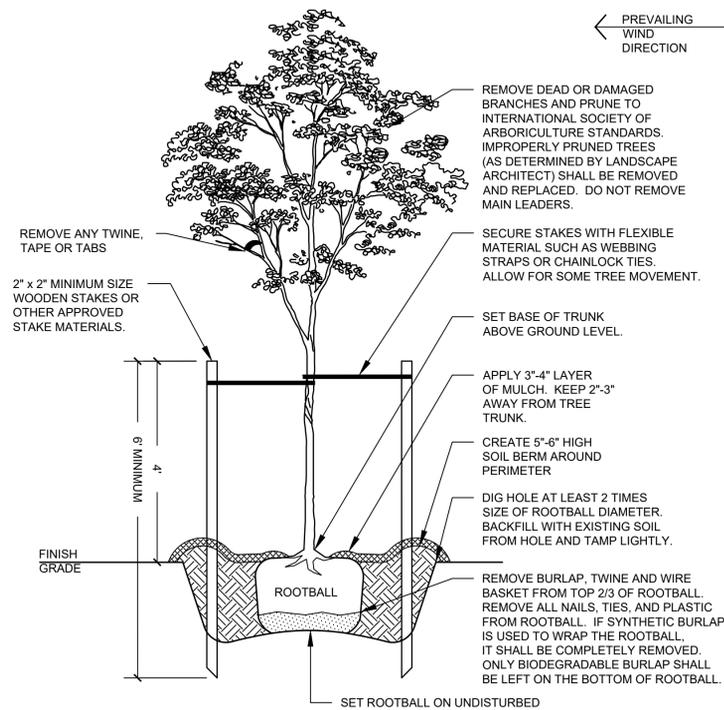


CELEBRATION is an even blend of 3 highly-rated perennial ryegrass varieties that produce a dark green leaf while maintaining a lower growth habit. Celebration is an ideal choice for home lawns, golf courses, and athletic fields.

Recommended application rate - 10-12 lbs per 1,000 square feet

**4 SUNMARK CELEBRATION PERENNIAL RYEGRASS MIXTURE**

NOT TO SCALE



- NOTES:**
- SET TREE STAKES ONLY IF TREE IS UNSTABLE OR WINDY CONDITIONS EXIST. THE STAKING OF TREES IS TO BE THE CONTRACTOR'S OPTION HOWEVER, THE CONTRACTOR IS RESPONSIBLE TO INSURE THAT ALL TREES ARE PLANTED STRAIGHT AND THAT THEY REMAIN STRAIGHT FOR LENGTH OF WARRANTY PERIOD OR 1 YEAR AFTER SUBSTANTIAL COMPLETION WHICHEVER IS GREATER. REMOVE ALL STAKING AS SOON AS THE TREE HAS GROWN SUFFICIENT ROOTS TO OVERCOME THE PROBLEM THAT REQUIRED THE TREE TO BE STAKED. ALL STAKING SHALL BE REMOVED NO LATER THAN THE END OF FIRST GROWING SEASON. STAKING TO BE APPROVED BY LANDSCAPE ARCHITECT.
  - LANDSCAPE CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT AND OWNER PRIOR TO INSTALLATION OF PLANT MATERIAL.
  - BEFORE ANY EXCAVATION CALL DIG SAFELY OREGON 1-800-332-2344 OR 811 TO LOCATE UNDERGROUND UTILITIES. NOTIFY LANDSCAPE ARCHITECT OF ANY CONFLICTS WITH PROPOSED OR EXISTING UNDERGROUND UTILITIES.
  - CAREFULLY REMOVE CONTAINERS, WRAPPINGS, WIRES AND TIES FROM ROOTBALL BEFORE PLANTING.
  - LOOSEN OUTSIDE ROOTS, AND UNWRAP ANY CIRCLING ROOTS.
  - ADD COMMERCIAL SLOW RELEASE FERTILIZER TABLETS TO BACKFILL AT 6" DEPTH.
  - ALL STAKES SHALL BE DRIVEN OUTSIDE EDGE OF ROOTBALL. SET STAKES PARALLEL TO PREVAILING WIND.
  - WATER TREE TWICE WITHIN THE FIRST 24 HOURS FOLLOWING PLANTING.
  - FOR TREES LOCATED WITHIN ROADSIDE PLANTERS LESS THAN 6'-0" IN WIDTH, PROVIDE TREE ROOT BARRIER. LOCATE BARRIER BACK OF CURB AND EDGE OF SIDEWALK. ALL TREE INSTALLATIONS SHALL CONFORM TO ALL AGENCY APPROVAL REQUIREMENTS. CONTRACTOR SHALL VERIFY PRIOR TO ANY INSTALLATIONS.

**1 TREE PLANTING**

NOT TO SCALE

**IRRIGATION NOTES**

- IRRIGATION DESIGN AND INSTALLATION TO BE ADDRESSED BY DESIGN/BUILD LANDSCAPE CONTRACTOR. ALL LANDSCAPE BEDS AND LAWN AREAS TO HAVE DOUBLE COVERAGE SPRAY IRRIGATION OR OTHER APPROVED SYSTEM. REFER TO SPECIFICATIONS FOR ADDITIONAL IRRIGATION SYSTEM REQUIREMENTS.
- RE-USE EXISTING IRRIGATION CONTROLLER LOCATED AT SOUTHWEST CORNER OF 1ST BASE DUGOUT, OR AS DIRECTED BY BSD REPRESENTATIVE. COORDINATE BUILDING ACCESS WITH BSD REPRESENTATIVE. UPGRADE CONTROLLER AS REQUIRED.
- VERIFY MAINLINE POINT OF CONNECTION AND BACK FLOW PREVENTION WITH BSD REPRESENTATIVE AND NOTIFY LANDSCAPE ARCHITECT OF LOCATIONS.
- ALL NEW LANDSCAPE AREAS TO BE IRRIGATED WITH A FULLY AUTOMATIC UNDERGROUND IRRIGATION SYSTEM. DRIP, SPRAY OR ROTOR ZONES AS NOTED ON PLANS HEREIN.
- IRRIGATION VALVE SHALL BE WINTERIZED THROUGH LOW PRESSURE.
- VALVES SHALL BE WIRED AND INSTALLED PER MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES AND CONNECTED TO THE IRRIGATION CONTROLLER.
- IRRIGATION SYSTEM SHALL BE DESIGN-BUILD AND INSTALLED AND SHALL PERFORM WITHIN THE TOLERANCES AND SPECIFICATIONS OF THE SPECIFIED MANUFACTURERS EQUIPMENT AND INDUSTRY STANDARDS. IRRIGATION DESIGN TO BE SUBMITTED BY CONTRACTOR FOR REVIEW AND APPROVAL TO BUGBEY & ASSOCIATES, LLC (TEN) BUSINESS DAYS OR MORE PRIOR TO INSTALLATION.
- ALL IRRIGATION PIPE MATERIAL AND INSTALLATION SHALL CONFORM TO APPLICABLE CODE FOR PIPING AND COMPONENT REQUIREMENTS.
- SYSTEM SHALL BE DESIGNED TO SUPPLY MANUFACTURER'S SPECIFIED MINIMUM OPERATING PRESSURE TO FARTHEST EMITTER FROM WATER METER.
- ALL IRRIGATION HEAD TYPES TO BE APPROVED BY BEAVERTON SCHOOL DISTRICT FACILITIES STAFF.
- ALL VALVES TO BE RAIN-BIRD IRRIGATION VALVES. INSTALL ALL VALVES IN JUMBO BOXES (NO ROUND 6" OR 10").
- CONSTRUCT ISOLATION VALVES AND DRAINS ADJACENT TO ELECTRICAL VALVE OR BACKFLOW VALVE BOXES, SPACED NO GREATER THAN 2 FEET APART.
- INSTALL MAIN AND LATERAL DRAINS AS NEEDED PER DESIGN-BUILD LAYOUT. RELOCATE EXISTING IRRIGATION MAINLINE AND CONTROL WIRES AS REQUIRED. USE EXISTING MAINLINE LOCATION WHEN POSSIBLE. ADJUSTMENTS TO THE EXISTING MAINLINE LAYOUT TO BE APPROVED BY BSD REPRESENTATIVE, AND AS-BUILT LOCATIONS DOCUMENTED ON PLANS TO BE SUBMITTED TO BEAVERTON SCHOOL DISTRICT.
- INSTALL TRACER WIRE WITH ALL VALVES, MAINLINE AND CONTROL WIRES.



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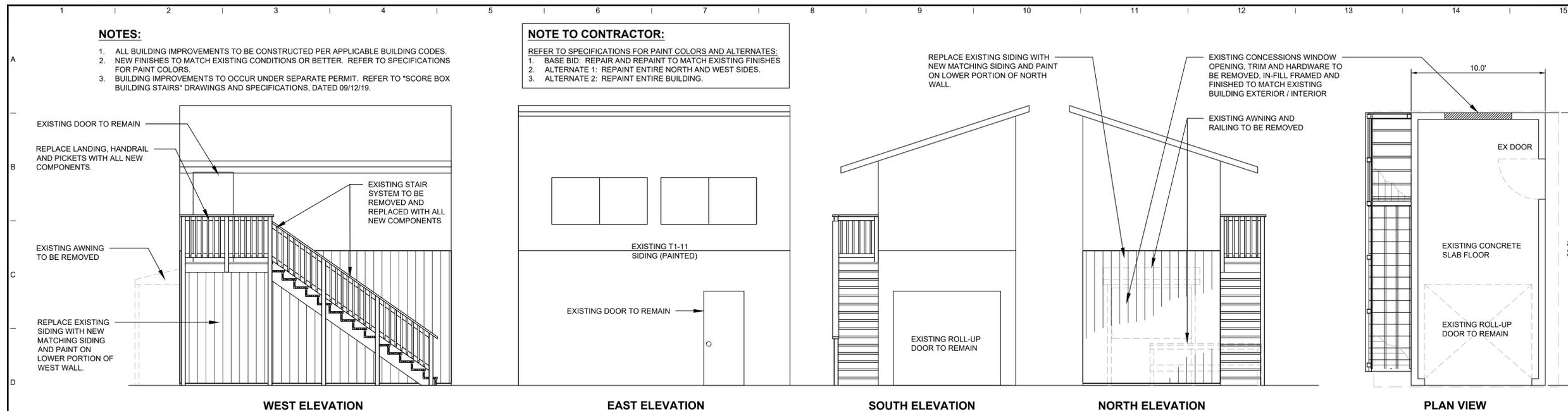
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CHECKED BY	SBB

LANDSCAPE  
DETAILS

SCALE: NOT TO SCALE  
SHEET:

**L5.0**



**1 SCORE BOX BUILDING**

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

**CHAIN LINK FENCE NOTES:**

REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION

VINYL COATED CHAIN-LINK FABRIC

- FENCE FABRIC WILL MEET ASTM F 668 CLASS 2B, FUSED-BONDED, AS MANUFACTURED BY PACIFIC FENCE & WIRE COMPANY OR APPROVED EQUAL.
- FENCE FABRIC WILL BE BLACK, HAVE A KNUCKLE/KNUCKLE SELVAGE. THE WIRE WILL HAVE A MINIMUM 9-GAUGE CORE AND 8-GAUGE FINISH.
- THE STANDARD DIAMOND SIZE WILL BE 2".
- FABRIC ENDS SHALL OCCUR ONLY AT TERMINAL, CORNER, OR PULL POSTS. ATTACH FABRIC TO TERMINAL, CORNER, OR PULL POSTS WITH TENSION BARS AND TENSION BAR CLIPS WITH MAXIMUM 12" ON CENTER. FASTEN FABRIC TO LINE POSTS, TOP, BRACE, AND BOTTOM RAILS WITH TENSION WIRE WITH MAXIMUM 15" ON CENTER.

POSTS AND RAIL

- POSTS AND RAIL 4" AND UNDER WILL MEET ASTM F 1043 GROUP 1-C.
- POSTS 6-5/8" AND 8-5/8" OD WILL MEET ASTM F 1043 GROUP 1-A.
- BACK POSTS WILL HAVE A POWDER-COATED FINISH OVER THE GALVANIZED PIPE.

POST FOOTINGS

- FENCES 6" AND UNDER WILL HAVE:
  - 36" X 10" TERMINAL/GATE POST FOOTINGS
  - 24" X 8" LINE POST FOOTINGS

TENSION WIRE

- VINYL COATED TENSION WIRE WILL HAVE A 6-GAUGE FINISH/9-GAUGE CORE AND WILL BE MARCELLED.
- VINYL COATED TENSION WIRE WILL MEET ASTM F 1664 CLASS 2A.
- VINYL COATED HOG RINGS WILL HAVE A 9-GAUGE FINISH.
- HOG RINGS WILL BE SPACED AT A MINIMUM OF 24".

FENCE FITTINGS

- BLACK FENCE FITTINGS WILL BE POWDER-COATED.
- HEAVY BRACE AND TENSION BANDS 1/8" X 1" ARE REQUIRED.
- VINYL COATED FENCE TIES WILL HAVE A 9-GAUGE FINISH WITH AN 11-GAUGE CORE WIRE.

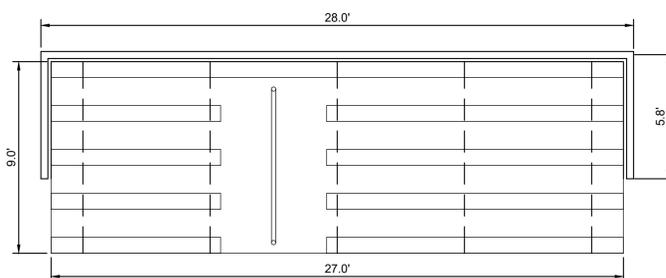
INSTALLATION

- POSTS SHALL BE SET IN CONCRETE WITH FENCE POST EXTENDING THROUGH BOTTOM OF CONCRETE.

- TOP RAILS SHALL BE INSTALLED THROUGH LINE POST CAPS AND SPLICED WITH 6" SLEEVES. BOTTOM RAIL OR TENSION WIRE SHALL BE UNIFORMLY 1" ABOVE FINISH GRADE.
- FABRIC SHALL BE INSTALLED TAUT, ON OUTSIDE OF POSTS AND RAILS UNIFORMLY 1" ABOVE GROUND LEVEL.
- MOW STRIP TO BE 4" THICK BY 24" WIDE CONCRETE MOW-STRIP, CENTERED ON THE FENCE AND FLUSH WITH THE FINISH GRADE, UNLESS OTHERWISE NOTED.

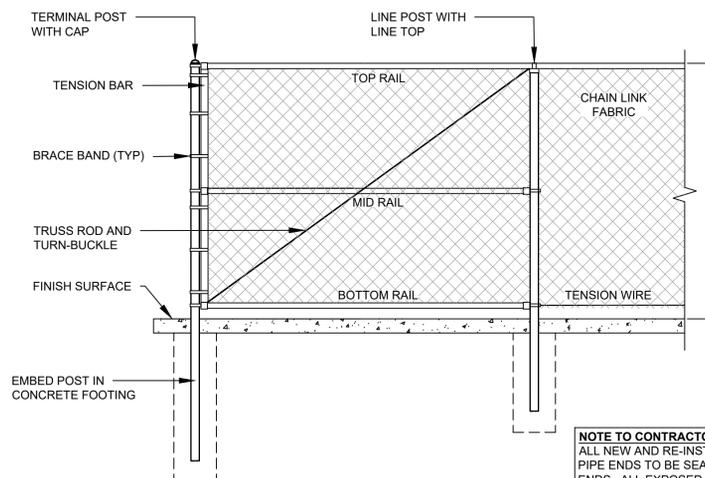
GATES

- GATES WILL COMPLY WITH ASTM F 1043 GROUP 1-C, ASTM F 900, AND WILL HAVE COMMERCIAL GRADE HARDWARE.
- ALL GATES WILL SWING OPEN AND HAVE HOLD OPEN BRACKETS TO SECURE GATE IN PLACE WHEN OPEN.
- COMMERCIAL GRADE FORK LATCHES ARE TO BE INSTALLED ON GATES AND ABLE TO ACCOMMODATE DISTRICT AND FIRE DEPARTMENT PADLOCKS.
- SINGLE GATE LATCHES SHALL BE CAPABLE OF RETAINING THE GATE IN A CLOSED POSITION AND SHALL HAVE A PROVISION FOR A PADLOCK.
- DOUBLE GATE LATCHES SHALL HAVE A DROP ROD OR A PLUNGER BAR ARRANGED TO ENGAGE THE GATE STOP. LATCHING DEVICES SHALL HAVE A PROVISION FOR A PADLOCK.
- KEEPERS SHALL BE PROVIDED FOR ALL GATES OVER 5' TALL.



**2 EXISTING BLEACHERS**

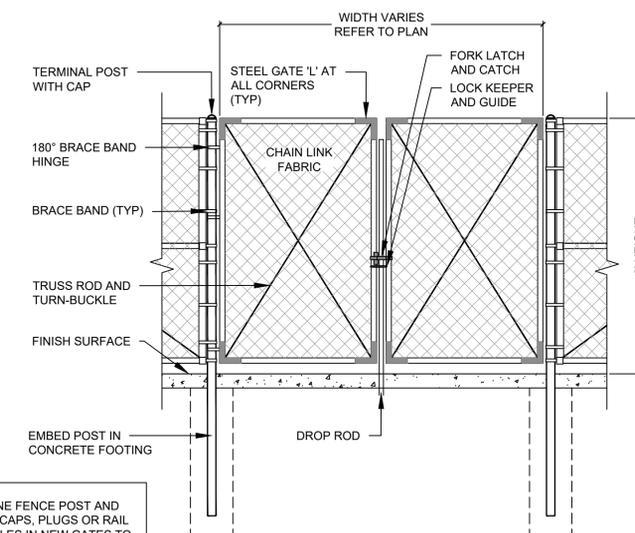
SCALE: 1/4" = 1'-0"



**NOTE TO CONTRACTOR:**  
ALL NEW AND RE-INSTALLED CYCLONE FENCE POST AND PIPE ENDS TO BE SEALED WITH END CAPS, PLUGS OR RAIL ENDS. ALL EXPOSED HARDWARE HOLES IN NEW GATES TO BE SEALED BY DURABLE COLOR-MATCHING PLUG TO PREVENT INSECT ACCESS INTO PIPE TUBES.

**3 CHAIN LINK FENCE - 6' TALL**

NOT TO SCALE



**4 DOUBLE CHAIN LINK GATE**

NOT TO SCALE





**BEAVERTON SCHOOL DISTRICT**  
**SUNSET HIGH SCHOOL**  
**STADIUM SITE IMPROVEMENTS**  
 13840 NW CORNELL ROAD  
 PORTLAND, OR 97229

CONSTRUCTION DRAWINGS  
PERMIT AND BIDDING SET

ISSUE		
#	DESCRIPTION	DATE
1	BSD COMMENTS	03/10/2020

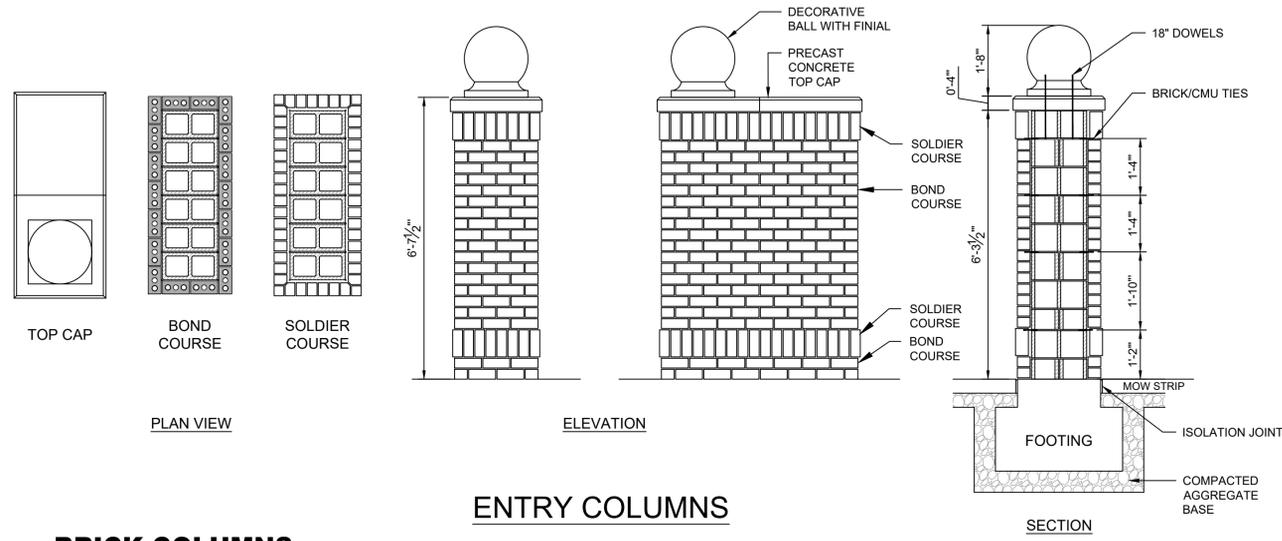
DATE	02/18/2020
PROJECT NO.	7839
CAD DWG FILE	SUNSET HS - CD.DWG
DRAWN BY	SBB, KHW
CHECKED BY	SBB

LANDSCAPE  
DETAILS

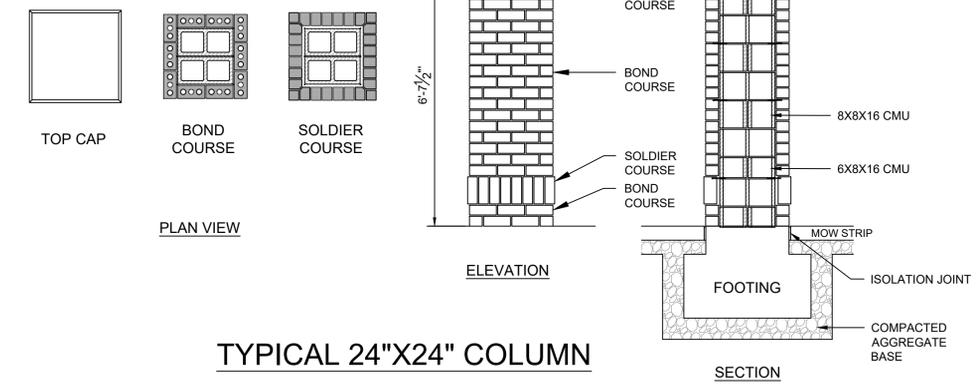
SCALE: NOT TO SCALE  
SHEET:

**L5.2**

**NOTES:**  
 1. SEE STRUCTURAL DRAWINGS FOR COLUMN REINFORCEMENT AND FOOTING DESIGN.  
 2. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.



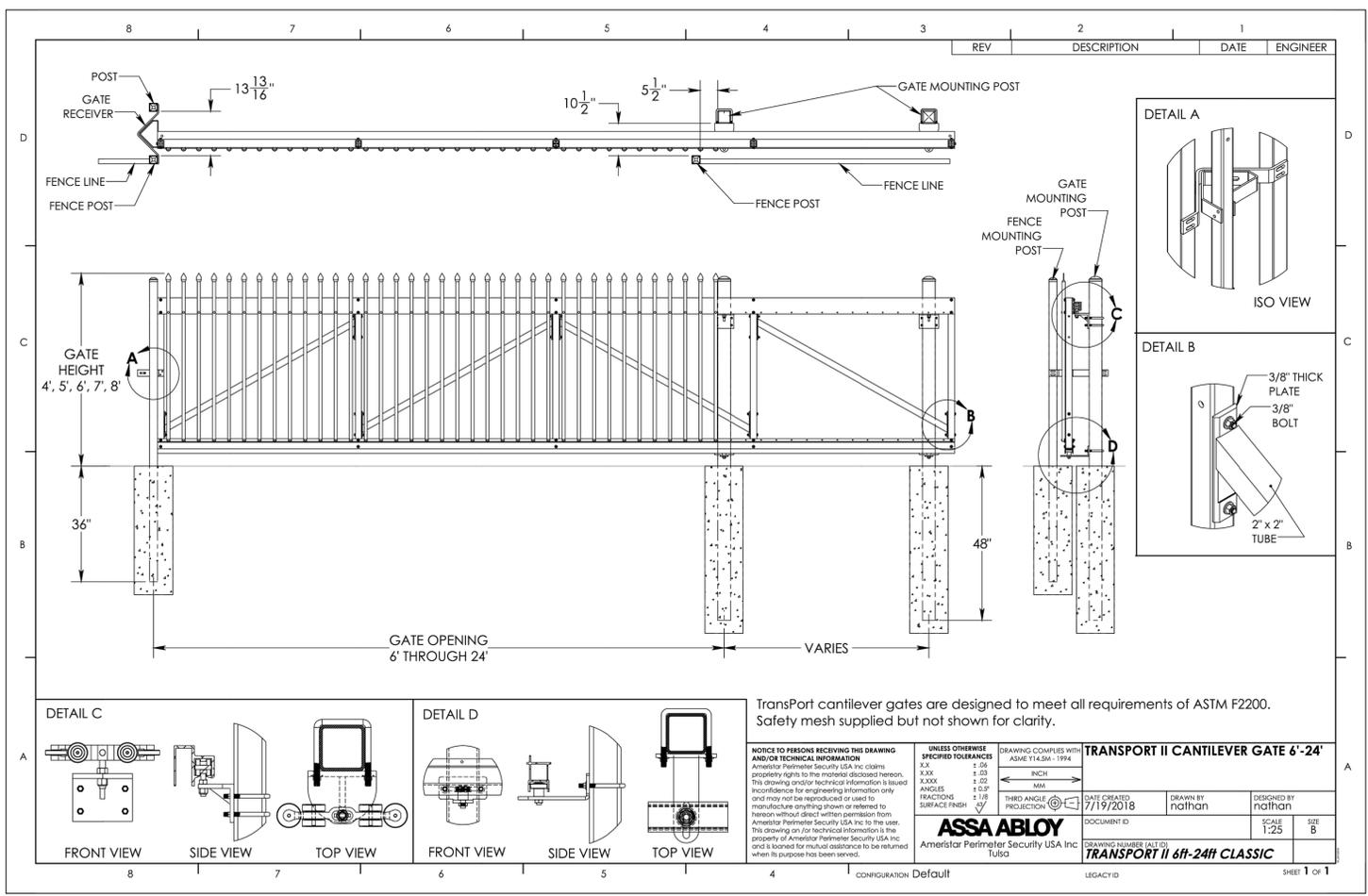
**ENTRY COLUMNS**



**TYPICAL 24\"/>**

NOT TO SCALE

**1 BRICK COLUMNS**



Transport cantilever gates are designed to meet all requirements of ASTM F2200. Safety mesh supplied but not shown for clarity.

**TRANSPORT II CANTILEVER GATE 6'-24'**

NOTICE TO PERSONS RECEIVING THIS DRAWING AND/OR TECHNICAL INFORMATION: Ameristar Perimeter Security USA, Inc. claims proprietary rights to the material disclosed herein. This drawing and/or technical information is issued in confidence for engineering information only and may not be reproduced or used to manufacture anything in whole or in part without direct written permission from Ameristar Perimeter Security USA, Inc. to the user. This drawing is for technical information is the property of Ameristar Perimeter Security USA, Inc. and is loaned for mutual assistance to be returned when its purpose has been served.

UNLESS OTHERWISE SPECIFIED TOLERANCES:  
 XX .150  
 XXX .020  
 XXXX .010  
 ANGLES 1:20  
 FRACTIONS 1/16  
 SURFACE FINISH .007

DRAWING COMPLETES WITH: ASME Y14.5M - 1994  
 INCH  
 THIRD ANGLE PROJECTION  
 DATE CREATED: 7/19/2018  
 DRAWN BY: nathan  
 DESIGNED BY: nathan  
 SCALE: 1:25  
 SHEET: B

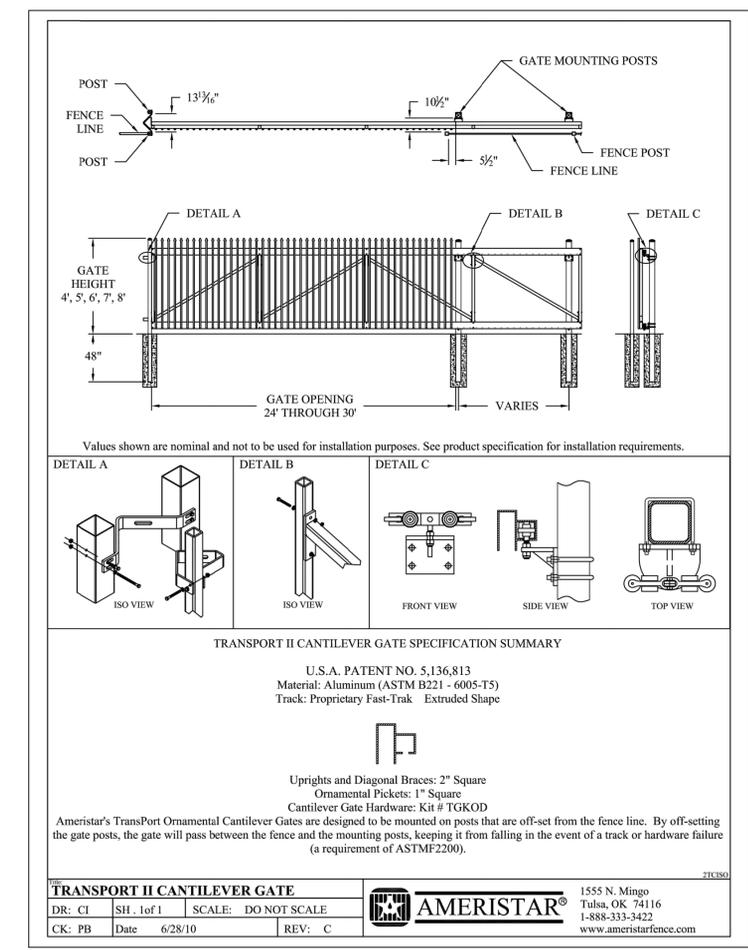
**ASSA ABLOY**  
 Ameristar Perimeter Security USA Inc  
 Tulsa

DRAWING NUMBER (ALL):  
**TRANSPORT II 6ft-24ft CLASSIC**

LEGACY ID: SHEET 1 of 1

**2 VEHICULAR ENTRY CANTILEVER GATE**

NOT TO SCALE



TRANSPORT II CANTILEVER GATE SPECIFICATION SUMMARY

U.S.A. PATENT NO. 5,136,813  
 Material: Aluminum (ASTM B221 - 6005-T5)  
 Track: Proprietary Fast-Trak Extruded Shape

Uprights and Diagonal Braces: 2" Square  
 Ornamental Pickets: 1" Square  
 Cantilever Gate Hardware: Kit # TKG0D  
 Cantilever gates are designed to be mounted on posts that are off-set from the fence line. By off-setting the gate posts, the gate will pass between the fence and the mounting posts, keeping it from falling in the event of a track or hardware failure (a requirement of ASTM F2200).

**TRANSPORT II CANTILEVER GATE**

DR: CI SH: 1 of 1 SCALE: DO NOT SCALE  
 CK: PB Date: 6/28/10 REV: C

**AMERISTAR**  
 1555 N. Mingo  
 Tulsa, OK 74116  
 1-888-333-2422  
 www.ameristarfence.com

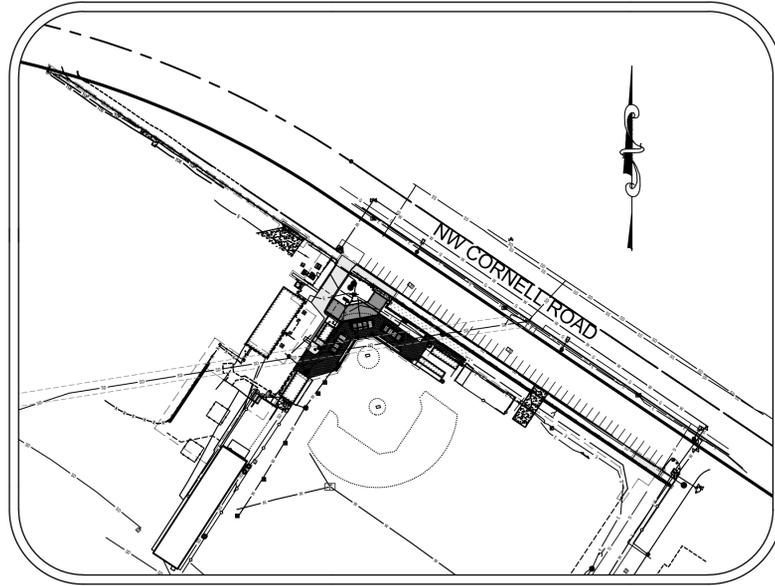
**3 VEHICULAR ENTRY CANTILEVER GATE AT FOOTBALL FIELD ENTRANCE**

NOT TO SCALE

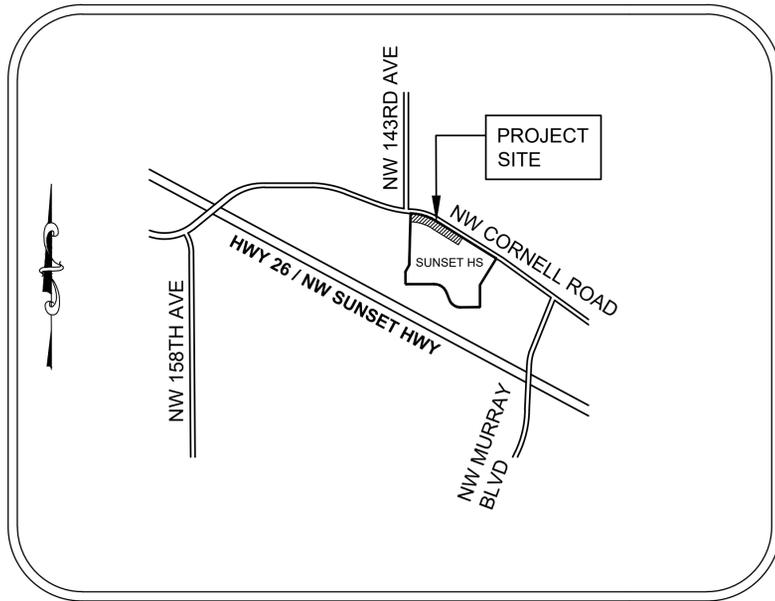
S:\BAL\PROJECT FILES\2020\SUNSET HS\SUNSET HS - VE.DWG



# ESC PLAN FOR SUNSET HIGH SCHOOL



**SITE MAP** NOT TO SCALE



**VICINITY MAP** NOT TO SCALE

**PROJECT LOCATION:**  
13840 NW CORNELL ROAD  
BEAVERTON, OREGON  
LATITUDE = 45.529557, LONGITUDE = -122.821811

**PROPERTY DESCRIPTION:**  
TAX LOT 1300 (WASHINGTON COUNTY TAX MAP 1N133BC)  
LOCATED IN THE  
SOUTHWEST 1/4 OF SECTION 33, TOWNSHIP 1 NORTH,  
RANGE 1 WEST, WILLAMETTE MERIDIAN, WASHINGTON  
COUNTY, OREGON

**ATTENTION EXCAVATORS:**

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 THESE RULES FROM THE CENTER BY CALLING 503-232-1987. IF YOU HAVE ANY QUESTIONS ABOUT THE RULES, YOU MAY CONTACT THE CENTER. YOU MUST NOTIFY THE CENTER AT LEAST TWO BUSINESS DAYS, BEFORE COMMENCING AN EXCAVATION. CALL 503-246-6699.

**DEVELOPER**

DEVELOPER/COMPANY: BEAVERTON SCHOOL DISTRICT  
CONTACT: DOAA ELHAGGAN, PROJECT MANAGER, FACILITIES DEVELOPMENT  
16550 SW MERLOT ROAD  
BEAVERTON, OR 97003  
PHONE: 503-356-4433  
EMAIL: Daaa\_El\_Haggan@beaverton.k12.or.us

**ENGINEERING FIRM**

JANET TURNER ENGINEERING, LLC  
CONTACT: JANET TURNER, P.E.  
16869 65TH AVENUE, BOX #194  
LAKE OSWEGO, OR 97035  
PHONE: 541-510-0878  
EMAIL: JTURNER@TURNERENGINEERING.COM

**SURVEYING FIRM**

MONTOYA LAND SURVEYING, LLC  
CONTACT: JAMES S. MONTOYA  
P.O. BOX 250  
BROWNSVILLE, OR 97327  
PHONE: 541-221-2427

**NARRATIVE DESCRIPTIONS**

**EXISTING SITE CONDITIONS**

EXISTING BALLFIELD VIEWING AREA WITH GRAVEL SURFACES, METAL BLEACHERS AND EXISTING SCORE BOX BUILDING

**DEVELOPED CONDITIONS**

REDEVELOPED VIEWING/SEATING AREA, WITH ASSOCIATED VEHICULAR AND PEDESTRIAN PAVEMENT IMPROVEMENTS, UTILITY INFRASTRUCTURE AND LANDSCAPE IMPROVEMENTS.

**NATURE OF CONSTRUCTION AND ACTIVITY TIME TABLE**

- \* CLEARING DATES, FROM & TO: TBD
- \* MASS GRADING DATES, FROM & TO: TBD
- \* UTILITY INSTALLATION DATES, FROM & TO: TBD
- \* SITE CONSTRUCTION DATES, FROM & TO: TBD
- \* FINAL STABILIZATION DATES, FROM & TO: TBD

TOTAL SITE AREA = 41,398 SF = 0.95 ACRES

TOTAL DISTURBED AREA = 6,818 = 0.16 ACRES

**SITE SOIL CLASSIFICATION** (PER NATURAL RESOURCES CONSERVATION SERVICE (NRCS) WEB SOIL SURVEY OF WASHINGTON COUNTY)  
ALOHA SILT LOAM, 0 TO 3 PERCENT SLOPES, MAP UNIT 1.  
VERBOORT SILTY CLAY LOAM, 0 TO 3 PERCENT SLOPES, MAP UNIT 2027A.

**RECEIVING WATER BODY**

STORMWATER POND AT 14375 NW SCIENCE PARK DRIVE

**INSPECTION FREQUENCY:**

SITE CONDITION	MINIMUM FREQUENCY
1. ACTIVE PERIOD	WEEKLY WHEN STORMWATER RUNOFF, INCLUDING RUNOFF FROM SNOW MELT, IS OCCURRING.  AT LEAST ONCE EVERY MONTH, REGARDLESS OF WHETHER STORMWATER RUNOFF IS OCCURRING.
2. PRIOR TO THE SITE BECOMING INACTIVE OR IN ANTICIPATION OF SITE INACCESSIBILITY.	ONCE TO ENSURE THAT EROSION AND SEDIMENT CONTROL MEASURES ARE IN WORKING ORDER. ANY NECESSARY MAINTENANCE AND REPAIR MUST BE MADE PRIOR TO LEAVING THE SITE.
3. INACTIVE PERIODS GREATER THAN FOURTEEN (14) CONSECUTIVE CALENDAR DAYS.	ONCE EVERY MONTH.
4. PERIODS DURING WHICH THE SITE IS INACCESSIBLE DUE TO INCLEMENT WEATHER.	IF PRACTICAL, INSPECTIONS MUST OCCUR DAILY AT A RELEVANT AND ACCESSIBLE DISCHARGE POINT OR DOWNSTREAM LOCATION.
5. PERIODS DURING WHICH DISCHARGE IS UNLIKELY DUE TO FROZEN CONDITIONS.	MONTHLY. RESUME MONITORING IMMEDIATELY UPON MELT, OR WHEN WEATHER CONDITIONS MAKE DISCHARGES LIKELY.

- \* HOLD A PRE-CONSTRUCTION MEETING OF PROJECT CONSTRUCTION PERSONNEL THAT INCLUDES THE INSPECTOR TO DISCUSS EROSION AND SEDIMENT CONTROL MEASURES AND CONSTRUCTION LIMITS.
- \* ALL INSPECTIONS MUST BE MADE IN ACCORDANCE WITH DEQ 1200-CN PERMIT REQUIREMENTS.
- \* INSPECTION LOGS MUST BE KEPT IN ACCORDANCE WITH DEQ'S 1200-CN PERMIT REQUIREMENTS.
- \* RETAIN A COPY OF THE ESCP AND ALL REVISIONS ON SITE AND MAKE IT AVAILABLE ON REQUEST TO DEQ, AGENT, OR THE LOCAL MUNICIPALITY. DURING INACTIVE PERIODS OF GREATER THAN SEVEN (7) CONSECUTIVE CALENDAR DAYS, RETAIN THE ESCP AT THE CONSTRUCTION SITE OR AT ANOTHER LOCATION.

**STANDARD EROSION AND SEDIMENT CONTROL PLAN DRAWING NOTES:**

1. ALL PERMIT REGISTRANTS MUST IMPLEMENT THE ESCP. FAILURE TO IMPLEMENT ANY OF THE CONTROL MEASURES OR PRACTICES DESCRIBED IN THE ESCP IS A VIOLATION OF THE PERMIT.
2. THE ESCP MEASURES SHOWN ON THIS PLAN ARE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, UPGRADE THESE MEASURES AS NEEDED TO COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL EROSION AND SEDIMENT CONTROL REGULATIONS.
3. SUBMISSION OF ALL ESCP REVISIONS IS NOT REQUIRED. SUBMITTAL OF THE ESCP REVISIONS IS ONLY UNDER SPECIFIC CONDITIONS: SUBMIT ALL NECESSARY REVISION TO DEQ OR AGENT.
4. PHASE CLEARING AND GRADING TO THE MAXIMUM EXTENT PRACTICAL TO PREVENT EXPOSED INACTIVE AREAS FROM BECOMING A SOURCE OF EROSION.
5. IDENTIFY, MARK, AND PROTECT (BY FENCING OFF OR OTHER MEANS) CRITICAL RIPARIAN AREAS AND VEGETATION INCLUDING IMPORTANT TREES AND ASSOCIATED ROOTING ZONES, AND VEGETATION AREAS TO BE PRESERVED. IDENTIFY VEGETATIVE BUFFER ZONES BETWEEN THE SITE AND SENSITIVE AREAS (E.G., WETLANDS), AND OTHER AREAS TO BE PRESERVED, ESPECIALLY IN PERIMETER AREAS.
6. PRESERVE EXISTING VEGETATION WHEN PRACTICAL AND RE-VEGETATE OPEN AREAS. RE-VEGETATE OPEN AREAS WHEN PRACTICABLE BEFORE AND AFTER GRADING OR CONSTRUCTION. IDENTIFY THE TYPE OF VEGETATIVE SEED MIX USED.
7. EROSION AND SEDIMENT CONTROL MEASURES INCLUDING PERIMETER SEDIMENT CONTROL MUST BE IN PLACE BEFORE VEGETATION IS DISTURBED AND MUST REMAIN IN PLACE AND BE MAINTAINED, REPAIRED, AND PROMPTLY IMPLEMENTED FOLLOWING PROCEDURES ESTABLISHED FOR THE DURATION OF CONSTRUCTION, INCLUDING PROTECTION FOR ACTIVE STORM DRAIN INLETS AND CATCH BASINS AND APPROPRIATE NON-STORMWATER POLLUTION CONTROLS.
8. ESTABLISH CONCRETE TRUCK AND OTHER CONCRETE EQUIPMENT WASHOUT AREAS BEFORE BEGINNING CONCRETE WORK. DIRECT ALL WASH WATER INTO A PIT OR LEAK-PROOF CONTAINER. HANDLE WASH WATER AS WASTE. CONCRETE DISCHARGE TO WATERS OF THE STATE IS PROHIBITED.
9. APPLY TEMPORARY AND/OR PERMANENT SOIL STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS AS GRADING PROGRESSES AND FOR ALL ROADWAYS INCLUDING GRAVEL ROADWAYS.
10. ESTABLISH MATERIAL AND WASTE STORAGE AREAS, AND OTHER NON-STORMWATER CONTROLS.
11. PREVENT TRACKING OF SEDIMENT ONTO PUBLIC OR PRIVATE ROADS USING BMPS SUCH AS: GRAVELED (OR PAVED) EXITS AND PARKING AREAS, GRAVEL ALL UNPAVED ROADS LOCATED ONSITE, OR USE AN EXIT TIRE WASH. THESE BMPS MUST BE IN PLACE PRIOR TO LAND-DISTURBING ACTIVITIES.
12. WHEN TRUCKING SATURATED SOILS FROM THE SITE, EITHER USE WATER-TIGHT TRUCKS OR DRAIN LOADS ON SITE.
13. USE BMPS TO PREVENT OR MINIMIZE STORMWATER EXPOSURE TO POLLUTANTS FROM SPILLS; VEHICLE AND EQUIPMENT FUELING, MAINTENANCE, AND STORAGE; OTHER CLEANING AND MAINTENANCE ACTIVITIES; AND WASTE HANDLING ACTIVITIES. THESE POLLUTANTS INCLUDE FUEL, HYDRAULIC FLUID, AND OTHER OILS FROM VEHICLES AND MACHINERY, AS WELL AS DEBRIS, LEFTOVER PAINTS, SOLVENTS, AND GLUES FROM CONSTRUCTION OPERATIONS.
14. IMPLEMENT THE FOLLOWING BMPS WHEN APPLICABLE: WRITTEN SPILL PREVENTION AND RESPONSE PROCEDURES, EMPLOYEE TRAINING ON SPILL PREVENTION AND PROPER DISPOSAL PROCEDURES, SPILL KITS IN ALL VEHICLES, REGULAR MAINTENANCE SCHEDULE FOR VEHICLES AND MACHINERY, MATERIAL DELIVERY AND STORAGE CONTROLS, TRAINING AND SIGNAGE, AND COVERED STORAGE AREAS FOR WASTE AND SUPPLIES.
15. USE WATER, SOIL-BINDING AGENT OR OTHER DUST CONTROL TECHNIQUE AS NEEDED TO AVOID WIND-BLOWN SOIL.
16. THE APPLICATION RATE OF FERTILIZERS USED TO REESTABLISH VEGETATION MUST FOLLOW MANUFACTURER'S RECOMMENDATIONS TO MINIMIZE NUTRIENT RELEASES TO SURFACE WATERS. EXERCISE CAUTION WHEN USING TIME-RELEASE FERTILIZERS WITHIN ANY WATERWAY RIPARIAN ZONE.
17. IF A STORMWATER TREATMENT SYSTEM (FOR EXAMPLE, ELECTRO-COAGULATION, FLOCCULATION, FILTRATION, ETC.) FOR SEDIMENT OR OTHER POLLUTANT REMOVAL IS EMPLOYED, SUBMIT AN OPERATION AND MAINTENANCE PLAN (INCLUDING SYSTEM SCHEMATIC, LOCATION OF SYSTEM, LOCATION OF INLET, LOCATION OF DISCHARGE, DISCHARGE DISPERSION DEVICE DESIGN, AND A SAMPLING PLAN AND FREQUENCY) BEFORE OPERATING THE TREATMENT SYSTEM. OBTAIN PLAN APPROVAL BEFORE OPERATING THE TREATMENT SYSTEM. OPERATE AND MAINTAIN THE TREATMENT SYSTEM ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
18. AT THE END OF EACH WORKDAY SOIL STOCKPILES MUST BE STABILIZED OR COVERED, OR OTHER BMPS MUST BE IMPLEMENTED TO PREVENT DISCHARGES TO SURFACE WATERS OR CONVEYANCE SYSTEMS LEADING TO SURFACE WATERS.
19. CONSTRUCTION ACTIVITIES MUST AVOID OR MINIMIZE EXCAVATION AND CREATION OF BARE GROUND DURING WET WEATHER OCTOBER 01 - MAY 31.
20. SEDIMENT FENCE: REMOVE TRAPPED SEDIMENT BEFORE IT REACHES ONE THIRD OF THE ABOVE GROUND FENCE HEIGHT AND BEFORE FENCE REMOVAL.
21. OTHER SEDIMENT BARRIERS (SUCH AS BIOBAGS): REMOVE SEDIMENT BEFORE IT REACHES TWO INCHES DEPTH ABOVE GROUND HEIGHT, AND BEFORE BMP REMOVAL.
22. CATCH BASINS: CLEAN BEFORE RETENTION CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT. SEDIMENT BASIN AND SEDIMENT TRAPS: REMOVE TRAPPED SEDIMENTS BEFORE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT AND AT COMPLETION OF PROJECT.
23. WITHIN 24 HOURS, SIGNIFICANT SEDIMENT THAT HAS LEFT THE CONSTRUCTION SITE, MUST BE REMEDIATED. INVESTIGATE THE CAUSE OF THE SEDIMENT RELEASE AND IMPLEMENT STEPS TO PREVENT A RECURRENCE OF THE DISCHARGE WITHIN THE SAME 24 HOURS. ANY IN-STREAM CLEAN UP OF SEDIMENT SHALL BE PERFORMED ACCORDING TO THE OREGON DIVISION OF STATE LANDS REQUIRED TIMEFRAME.
24. THE INTENTIONAL WASHING OF SEDIMENT INTO STORM SEWERS OR DRAINAGE WAYS MUST NOT OCCUR. VACUUMING OR DRY SWEEPING AND MATERIAL PICKUP MUST BE USED TO CLEANUP RELEASED SEDIMENTS.
25. PROVIDE PERMANENT EROSION CONTROL MEASURES ON ALL EXPOSED AREAS. DO NOT REMOVE TEMPORARY SEDIMENT CONTROL PRACTICES UNTIL PERMANENT VEGETATION OR OTHER COVER OF EXPOSED AREAS IS ESTABLISHED. HOWEVER, DO REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AS EXPOSED AREAS BECOME STABILIZED, UNLESS DOING SO CONFLICTS WITH LOCAL REQUIREMENTS. PROPERLY DISPOSE OF CONSTRUCTION MATERIALS AND WASTE, INCLUDING SEDIMENT RETAINED BY TEMPORARY BMPS.
26. IF VEGETATIVE SEED MIXES ARE SPECIFIED, SEEDING MUST TAKE PLACE NO LATER THAN SEPTEMBER 1; THE TYPE AND PERCENTAGES OF SEED IN THE MIX MUST BE IDENTIFIED ON THE PLANS.
27. ALL PUMPING OF SEDIMENT LADEN WATER SHALL BE DISCHARGED OVER AN UNDISTURBED, PREFERABLY VEGETATED AREA, AND THROUGH A SEDIMENT CONTROL BMP I.E. (FILTER BAG).
28. ALL EXPOSED SOILS MUST BE COVERED DURING THE WET WEATHER PERIOD, OCTOBER 01 - MAY 31.
29. IF WATER OF THE STATE IS WITHIN THE PROJECT SITE OR WITHIN 50 FEET OF THE PROJECT BOUNDARY, MAINTAIN THE EXISTING NATURAL BUFFER WITHIN THE 50-FOOT ZONE FOR THE DURATION OF THE PERMIT COVERAGE, OR MAINTAIN LESS THAN THE ENTIRE EXISTING NATURAL BUFFER AND PROVIDE ADDITIONAL EROSION AND SEDIMENT CONTROL BMPS.

THE PERMITTEE IS REQUIRED TO MEET ALL THE CONDITIONS OF THE 1200-CN PERMIT. THIS ESCP AND GENERAL CONDITIONS HAVE BEEN DEVELOPED TO FACILITATE COMPLIANCE WITH THE 1200-CN PERMIT REQUIREMENTS. IN CASES OF DISCREPANCIES OR OMISSIONS, THE 1200-CN PERMIT REQUIREMENTS SUPERCEDE REQUIREMENTS OF THIS PLAN.

**BMP MATRIX FOR CONSTRUCTION PHASES**

	CLEARING	MASS GRADING	UTILITY INSTALLATION	STREET CONSTRUCTION	FINAL STABILIZATION	WET WEATHER (OCT. 1 - MAY 31ST)
<b>EROSION PREVENTION</b>						
PRESERVE NATURAL VEGETATION	**X	X	X	X	X	X
GROUND COVER					X	X
HYDRAULIC APPLICATIONS					X	X
PLASTIC SHEETING						X
MATTING					X	X
BUSH CONTROL	X	X	X	X	X	X
TEMPORARY PERMANENT SEEDING		X	X	X	X	X
BUFFER ZONE					X	X
OTHER:						
<b>SEDIMENT CONTROL</b>						
SEDIMENT FENCE (PERIMETER)	**X	X	X	X	X	X
SEDIMENT FENCE (INTERIOR)			X	X	X	X
STRAW MATS						X
FILTER BARRIERS						X
INLET PROTECTION	**X	X	X	X	X	X
DEWATERING						X
SEDIMENT TRAP	X	X	X	X		
NATURAL BUFFER ENCROACHMENT						
OTHER:						
<b>RUN OFF CONTROL</b>				X	X	
CONSTRUCTION ENTRANCE	**X	X	X	X	X	X
PIPE SLOPE DRAIN						X
OUTLET PROTECTION						X
SURFACE GRADENING						X
CHECK DAMS						X
OTHER:						
<b>POLLUTION PREVENTION</b>						
PROPER STORAGE	X	X	X	X	X	X
HAZARDOUS WASTE	X	X	X	X	X	X
SPILL KIT ONSITE	X	X	X	X	X	X
CONCRETE WASHOUT AREA	X	X	X	X	X	X
OTHER:						

- \* SIGNIFIES ADDITIONAL BMP'S REQUIRED FOR WORK WITHIN 50' OF WATER OF THE STATE.
- \*\* SIGNIFIES BMP THAT WILL BE INSTALLED PRIOR TO ANY GROUND DISTURBING ACTIVITY.

**RATIONALE STATEMENT**

A COMPREHENSIVE LIST OF AVAILABLE BEST MANAGEMENT PRACTICES (BMP) OPTIONS BASED ON DEQ'S GUIDANCE MANUAL HAS BEEN REVIEWED TO COMPLETE THIS EROSION AND SEDIMENT CONTROL PLAN. SOME OF THE ABOVE LISTED BMP'S WERE NOT CHOSEN BECAUSE THEY WERE DETERMINED TO NOT EFFECTIVELY MANAGE EROSION PREVENTION AND SEDIMENT CONTROL FOR THIS PROJECT BASED ON SPECIFIC SITE CONDITIONS, INCLUDING SOIL CONDITIONS TOPOGRAPHIC CONSTRAINTS, ACCESSIBILITY TO THE SITE, AND OTHER RELATED CONDITIONS, AS THE PROJECT PROGRESSES AND THERE IS A NEED TO REVISE THE ESC PLAN, AN ACTION PLAN WILL BE SUBMITTED.

*JTE*  
JANET L. TURNER

**PERMITTEE'S SITE INSPECTOR:** TBD

COMPANY/AGENCY: \_\_\_\_\_  
PHONE: \_\_\_\_\_  
FAX: \_\_\_\_\_  
E-MAIL: \_\_\_\_\_  
DESCRIPTION OF EXPERIENCE: \_\_\_\_\_

**SHEET INDEX**

**EROSION AND SEDIMENT CONTROL PLANS**

- CO.0 EROSION AND SEDIMENT CONTROL COVER SHEET
- CO.1 CLEARING AND DEMOLITION EROSION AND SEDIMENT CONTROL PLAN
- CO.2 GRADING AND UTILITY CONSTRUCTION EROSION AND SEDIMENT CONTROL PLAN
- CO.3 EROSION AND SEDIMENT CONTROL DETAILS

REVISIONS:


**EROSION AND SEDIMENT CONTROL COVER SHEET**

  
**JTE**  
 Janet Turner Engineering, LLC

DESIGNED BY: AWS	DRAWING NO.: CO.0
DRAWN BY: SBB	SCALE: NO SCALE
CHECKED BY: JTE	
<b>PREPARED FOR:</b>	CLEAN WATER SERVICES 2550 SW HILLSBORO HIGHWAY HILLSBORO, OR 97123 PHONE: 503-681-3600 FAX: 503-681-3603

DATE: MARCH 10, 2020

**SUNSET HIGH SCHOOL**  
**WASHINGTON COUNTY**      **OREGON**  
 TAX LOTS 1300      WASHINGTON COUNTY TAX MAP 1N133BC

JOB NUMBER  
XXXX

SHEET  
CO.0



# LEGEND

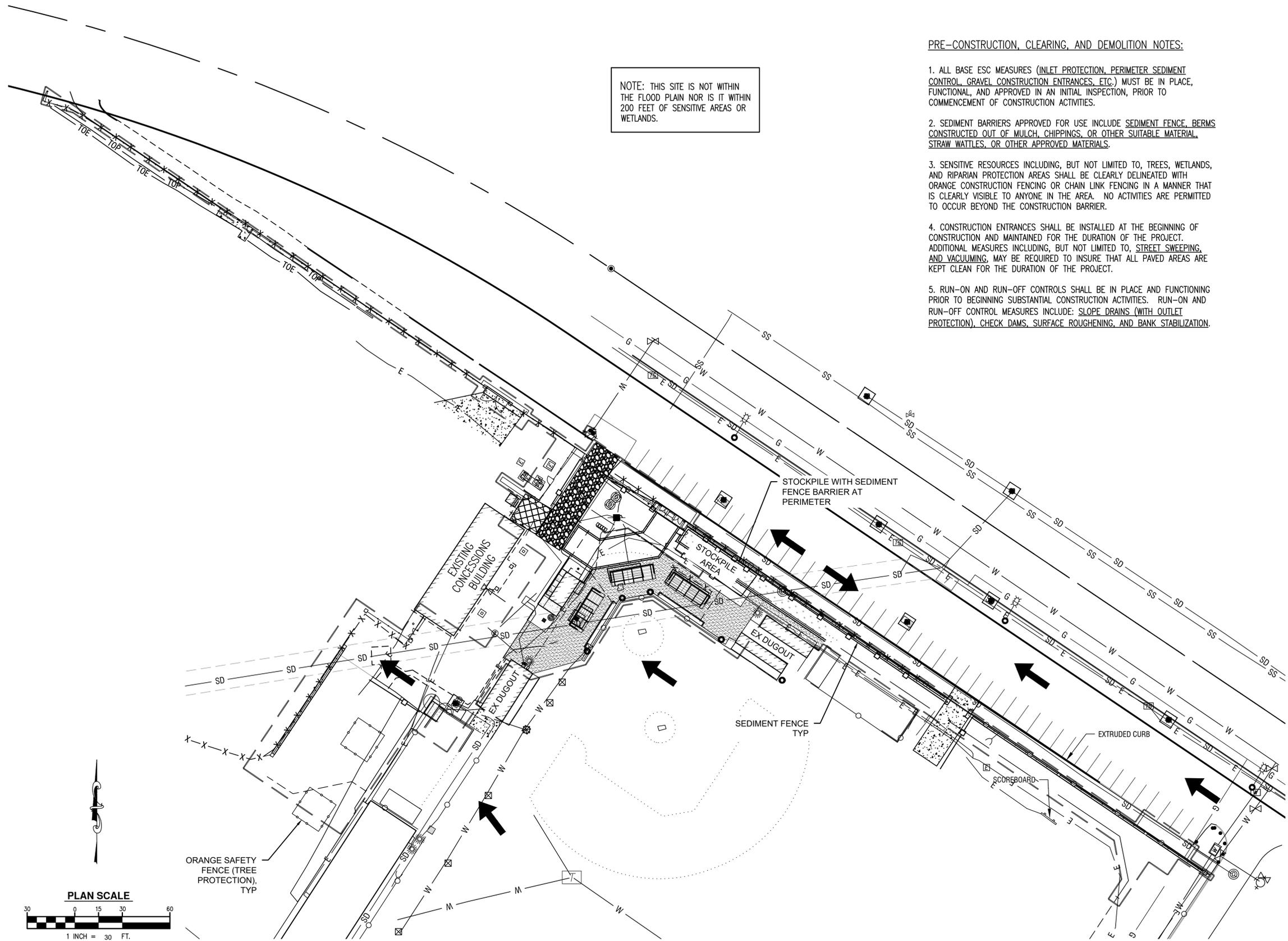
- EXISTING GROUND CONTOUR (1 FT) ---281---
- EXISTING GROUND CONTOUR (5 FT) ---280---
- EXISTING TREE TO REMAIN ○ ✱
- SEDIMENT BARRIER (PERIMETER) □—□—□
- ORANGE CONSTRUCTION FENCE (TREE PROTECTION) ○—○—○
- CONSTRUCTION ENTRANCE
- INLET PROTECTION ■
- DRAINAGE FLOW DIRECTION ➔
- PROJECT LIMITS - - - - -
- GEOTEXTILE FABRIC AND PLYWOOD SURFACE PROTECTION

THESE EROSION AND SEDIMENT CONTROL PLANS ASSUME "DRY WEATHER" CONSTRUCTION. "WET WEATHER" CONSTRUCTION MEASURES NEED TO BE APPLIED BETWEEN OCTOBER 1ST AND MAY 31ST.

NOTE: THIS SITE IS NOT WITHIN THE FLOOD PLAIN NOR IS IT WITHIN 200 FEET OF SENSITIVE AREAS OR WETLANDS.

### PRE-CONSTRUCTION, CLEARING, AND DEMOLITION NOTES:

1. ALL BASE ESC MEASURES (INLET PROTECTION, PERIMETER SEDIMENT CONTROL, GRAVEL CONSTRUCTION ENTRANCES, ETC.) MUST BE IN PLACE, FUNCTIONAL, AND APPROVED IN AN INITIAL INSPECTION, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
2. SEDIMENT BARRIERS APPROVED FOR USE INCLUDE SEDIMENT FENCE, BERMS CONSTRUCTED OUT OF MULCH, CHIPPINGS, OR OTHER SUITABLE MATERIAL, STRAW WATTLES, OR OTHER APPROVED MATERIALS.
3. SENSITIVE RESOURCES INCLUDING, BUT NOT LIMITED TO, TREES, WETLANDS, AND RIPARIAN PROTECTION AREAS SHALL BE CLEARLY DELINEATED WITH ORANGE CONSTRUCTION FENCING OR CHAIN LINK FENCING IN A MANNER THAT IS CLEARLY VISIBLE TO ANYONE IN THE AREA. NO ACTIVITIES ARE PERMITTED TO OCCUR BEYOND THE CONSTRUCTION BARRIER.
4. CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES INCLUDING, BUT NOT LIMITED TO, STREET SWEEPING, AND VACUUMING, MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
5. RUN-ON AND RUN-OFF CONTROLS SHALL BE IN PLACE AND FUNCTIONING PRIOR TO BEGINNING SUBSTANTIAL CONSTRUCTION ACTIVITIES. RUN-ON AND RUN-OFF CONTROL MEASURES INCLUDE: SLOPE DRAINS (WITH OUTLET PROTECTION), CHECK DAMS, SURFACE ROUGHENING, AND BANK STABILIZATION.



REVISIONS:

## CLEARING AND DEMOLITION, EROSION AND SEDIMENT CONTROL PLAN

**Janet Turner Engineering, LLC**

DESIGNED BY: AWS	DRAWING NO.: CO.1
DRAWN BY: SBB	SCALE: 1" = 30'
CHECKED BY: JTE	
PREPARED FOR: CLEAN WATER SERVICES 2550 SW HILLSBORO HIGHWAY HILLSBORO, OR 97123 PHONE: 503-681-3600 FAX: 503-681-3603	

# SUNSET HIGH SCHOOL

WASHINGTON COUNTY OREGON  
WASHINGTON COUNTY TAX MAP 1N1338C  
TAX LOTS 1300



JOB NUMBER XXXX
SHEET CO.1

# LEGEND

- FINISHED GRADE CONTOUR (2 FT)
- FINISHED GRADE CONTOUR (10 FT)
- SEDIMENT BARRIER (PERIMETER)
- ORANGE CONSTRUCTION FENCE (TREE PROTECTION FENCE)
- CONSTRUCTION ENTRANCE
- INLET PROTECTION
- PROJECT LIMITS
- GEOTEXTILE FABRIC AND PLYWOOD SURFACE PROTECTION
- CONCRETE WASH AREA
- NEW IMPERVIOUS SURFACE
- DRAINAGE FLOW DIRECTION
- STOCKPILE AREA

## WET WEATHER EROSION CONTROL NOTE:

ON SEPTEMBER 1ST OF EACH YEAR, IF THERE ARE EXPOSED SOILS, DISTURBED AREAS, OR GROUND-COVER VEGETATION NOT FULLY ESTABLISHED SUFFICIENT TO PREVENT EROSION, A SPECIFIC EROSION CONTROL PLAN SHALL BE PREPARED BASED ON THE EXISTING AND EXPECTED SITE CONDITIONS USING THE WET WEATHER EROSION PREVENTION MEASURES (SEE EROSION PREVENTION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL CHAPTER 4 FOR REQUIREMENTS). FOR SURFACE WATER FACILITIES, FIBER MATTING SHALL BE INSTALLED IN ALL AREAS EXPOSED TO WATER FLOW OR INUNDATION; FREE-FLOATING MULCH SHALL NOT BE USED IN AREAS SUBJECT TO INUNDATION. FIBER MATTING SHALL EITHER BE SEEDED (PER THE DESIGN) OR PLACED PRIOR TO PLANTING OF PLUGS, CUTTINGS, REEDS, RUSHES, OR SHRUBS. ALL MEASURES AND SPECIFICATIONS FOR MATERIALS USED SHALL BE PER PLAN OR AS SPECIFICALLY APPROVED BY THE ENGINEER AND CITY INSPECTOR. IF ANY ADDITIONAL AREAS BECOME EXPOSED, DISTURBED, OR STRIPPED OF VEGETATION BETWEEN OCTOBER 1ST AND MAY 31ST, THE PLAN SHALL BE REVISED OR OTHERWISE EXPANDED PER THE STANDARDS AND AS DIRECTED BY THE ENGINEER AND CITY INSPECTOR. PRIOR TO OCTOBER 1ST OF EACH YEAR, WET WEATHER MEASURES SHALL BE INSTALLED AND FULLY FUNCTIONAL.

## GRADING AND UTILITY EROSION AND SEDIMENT CONSTRUCTION NOTES:

1. SEED USED FOR TEMPORARY OR PERMANENT SEEDING SHALL BE COMPOSED OF ONE OF THE FOLLOWING MIXTURES, UNLESS OTHERWISE AUTHORIZED:
  - A. VEGETATED CORRIDOR AREAS REQUIRE NATIVE SEED MIXES. SEE RESTORATION PLAN FOR APPROPRIATE SEED MIX.
  - B. DWARF GRASS MIX (MIN. 100 LB./AC.)
    1. DWARF PERENNIAL RYEGRASS (80% BY WEIGHT)
    2. CREEPING RED FESCUE (20% BY WEIGHT)
  - C. STANDARD HEIGHT GRASS MIX (MIN. 100LB./AC.)
    1. ANNUAL RYEGRASS (40% BY WEIGHT)
    2. TURF-TYPE FESCUE (60% BY WEIGHT)
2. SLOPE TO RECEIVE TEMPORARY OR PERMANENT SEEDING SHALL HAVE THE SURFACE ROUGHENED BY MEANS OF TRACK-WALKING OR THE USE OF OTHER APPROVED IMPLEMENTS. SURFACE ROUGHENING IMPROVES SEED BEDDING AND REDUCES RUN-OFF VELOCITY.
3. LONG TERM SLOPE STABILIZATION MEASURES SHALL INCLUDE THE ESTABLISHMENT OF PERMANENT VEGETATIVE COVER VIA SEEDING WITH APPROVED MIX AND APPLICATION RATE.
4. TEMPORARY SLOPE STABILIZATION MEASURES SHALL INCLUDE: COVERING EXPOSED SOIL WITH PLASTIC SHEETING, STRAW MULCHING, WOOD CHIPS, OR OTHER APPROVED MEASURES.

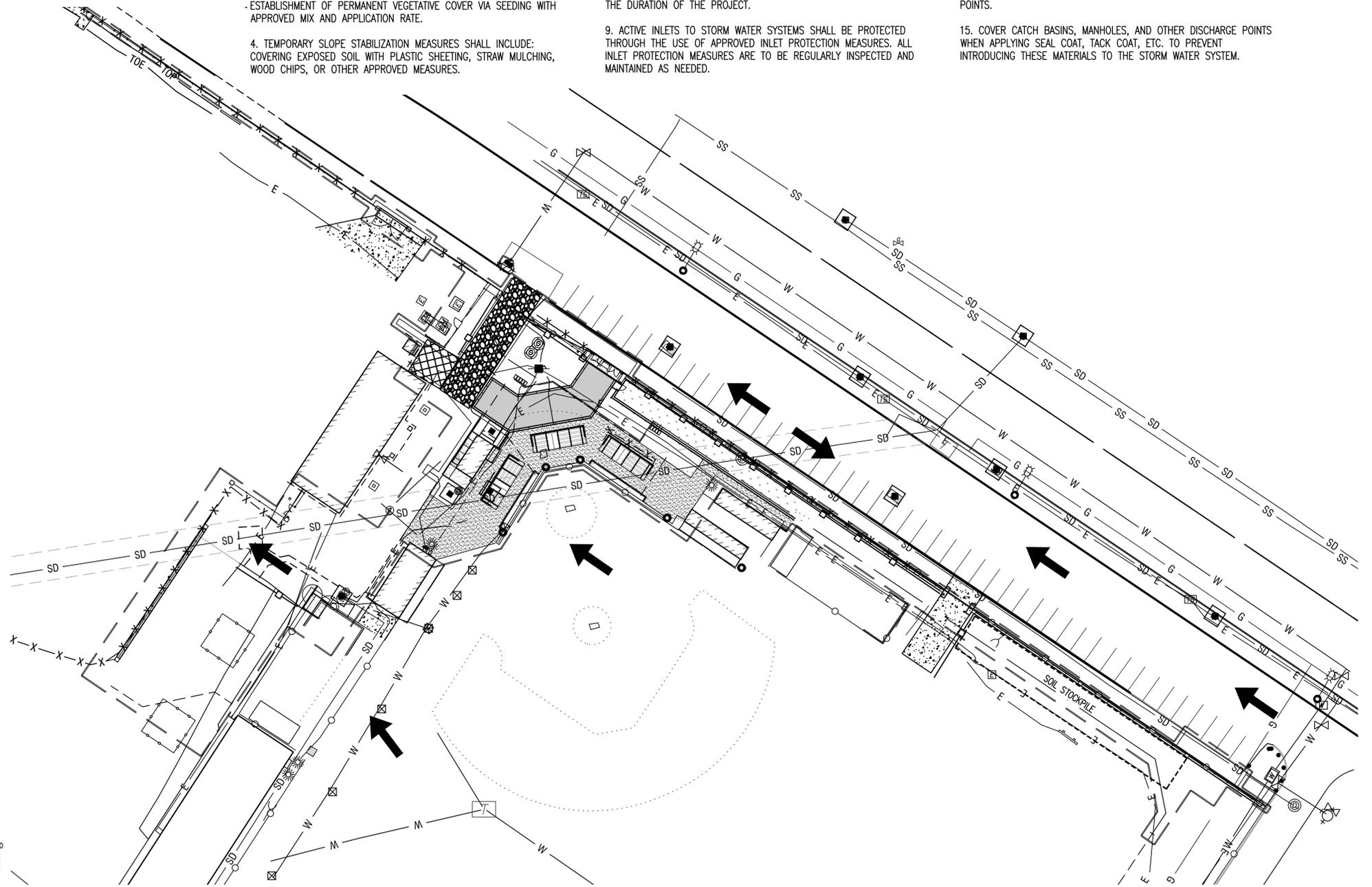
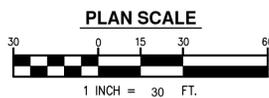
5. STOCKPILED SOIL OR STRIPPINGS SHALL BE PLACED IN A STABLE LOCATION AND CONFIGURATION. DURING "WET WEATHER" PERIODS, STOCKPILES SHALL BE COVERED WITH PLASTIC SHEETING OR STRAW MULCH. SEDIMENT FENCE IS REQUIRED AROUND THE PERIMETER OF THE STOCKPILE.
6. EXPOSED CUT OR FILL AREAS SHALL BE STABILIZED THROUGH THE USE OF TEMPORARY SEEDING AND MULCHING, EROSION CONTROL BLANKETS OR MATS, MID-SLOPE SEDIMENT FENCES OR WATTLES, OR OTHER APPROPRIATE MEASURES. SLOPES EXCEEDING 25% MAY REQUIRE ADDITIONAL EROSION CONTROL MEASURES.
7. AREAS SUBJECT TO WIND EROSION SHALL USE APPROPRIATE DUST CONTROL MEASURES INCLUDING THE APPLICATION OF A FINE SPRAY OF WATER, PLASTIC SHEETING, STRAW MULCHING, OR OTHER APPROVED MEASURES.
8. CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES INCLUDING, BUT NOT LIMITED TO, TIRE WASHES, STREET SWEEPING, AND VACUUMING MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
9. ACTIVE INLETS TO STORM WATER SYSTEMS SHALL BE PROTECTED THROUGH THE USE OF APPROVED INLET PROTECTION MEASURES. ALL INLET PROTECTION MEASURES ARE TO BE REGULARLY INSPECTED AND MAINTAINED AS NEEDED.

10. SATURATED MATERIALS THAT ARE HAULED OFF-SITE MUST BE TRANSPORTED IN WATER-TIGHT TRUCKS TO ELIMINATE SPILLAGE OF SEDIMENT AND SEDIMENT-LADEN WATER.
11. AN AREA SHALL BE PROVIDED FOR THE WASHING OUT OF CONCRETE TRUCKS IN A LOCATION THAT DOES NOT PROVIDE RUN-OFF THAT CAN ENTER THE STORM WATER SYSTEM. IF THE CONCRETE WASH-OUT AREA CAN NOT BE CONSTRUCTED GREATER THAN 50' FROM ANY DISCHARGE POINT, SECONDARY MEASURES SUCH AS BERMS OR TEMPORARY SETTLING PITS MAY BE REQUIRED. THE WASH-OUT SHALL BE LOCATED WITHIN SIX FEET OF TRUCK ACCESS AND BE CLEANED WHEN IT REACHES 50% OF THE CAPACITY.
12. SWEEPINGS FROM EXPOSED AGGREGATE CONCRETE SHALL NOT BE TRANSFERRED TO THE STORM WATER SYSTEM. SWEEPINGS SHALL BE PICKED UP AND DISPOSED IN THE TRASH.
13. AVOID PAVING IN WET WEATHER WHEN PAVING CHEMICALS CAN RUN-OFF INTO THE STORM WATER SYSTEM.
14. USE BMPs SUCH AS CHECK-DAMS, BERMS, AND INLET PROTECTION TO PREVENT RUN-OFF FROM REACHING DISCHARGE POINTS.
15. COVER CATCH BASINS, MANHOLES, AND OTHER DISCHARGE POINTS WHEN APPLYING SEAL COAT, TACK COAT, ETC. TO PREVENT INTRODUCING THESE MATERIALS TO THE STORM WATER SYSTEM.

THESE EROSION AND SEDIMENT CONTROL PLANS ASSUME "DRY WEATHER" CONSTRUCTION. "WET WEATHER" CONSTRUCTION MEASURES NEED TO BE APPLIED BETWEEN OCTOBER 1ST AND MAY 31ST.

## EROSION AND SEDIMENT CONTROL BMP IMPLEMENTATION:

1. ALL BASE ESC MEASURES (INLET PROTECTION, PERIMETER SEDIMENT CONTROL, GRAVEL CONSTRUCTION ENTRANCES, ETC.) MUST BE IN PLACE, FUNCTIONAL, AND APPROVED IN AN INITIAL INSPECTION, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
2. MAJORITY OF SITE EARTHWORK OPERATIONS SHALL BE PLACEMENT OF IMPORTED FILL MATERIAL, WITH LIMITED EXCAVATION/CUT. STOCKPILE AREA WILL BE LIMITED IN SIZE AND NOT REQUIRE RELOCATION.
3. ALL "SEDIMENT BARRIERS (TO BE INSTALLED AFTER GRADING)" SHALL BE INSTALLED IMMEDIATELY FOLLOWING ESTABLISHMENT OF FINISHED GRADE AS SHOWN ON THESE PLANS.
4. LONG TERM SLOPE STABILIZATION MEASURES "INCLUDING MATTING" SHALL BE IN PLACE OVER ALL EXPOSED SOILS BY OCTOBER 1.
5. ALL STORMWATER FACILITIES SHALL BE CONSTRUCTED AND LANDSCAPED PRIOR TO THE STORM WATER SYSTEM FUNCTIONING AND SITE PAVING.
6. INLET PROTECTION SHALL BE IN-PLACE IMMEDIATELY FOLLOWING PAVING ACTIVITIES.



DATE: MARCH 10, 2020

REVISIONS:	

## GRADING AND UTILITY CONSTRUCTION EROSION AND SEDIMENT CONTROL PLAN

**JTE**  
Janet Turner Engineering, LLC

DESIGNED BY: JTE	DRAWING NO.: C0.2
DRAWN BY: SBB	SCALE: 1" = 30'
CHECKED BY: JTE	
<b>PREPARED FOR:</b>	
CLEAN WATER SERVICES 2550 SW HILLSBORO HIGHWAY HILLSBORO, OR 97123 PHONE: 503-681-3600 FAX: 503-681-3603	

# SUNSET HIGH SCHOOL

## WASHINGTON COUNTY

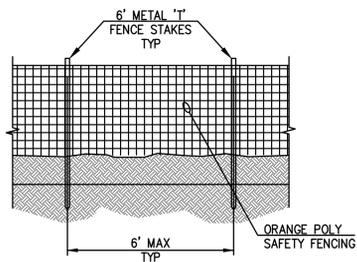
TAX LOTS 1300

## OREGON

WASHINGTON COUNTY TAX MAP 1N1338C

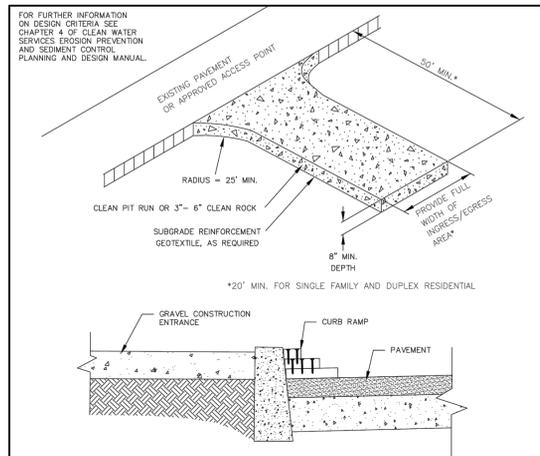
EXPIRATION DATE: 06/30/20

JOB NUMBER XXXX	
SHEET C0.2	



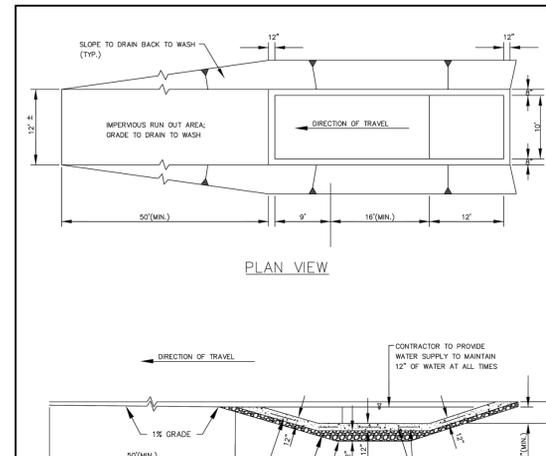
- NOTES:
1. MAX SLOPE (PERPENDICULAR TO FENCE) - 1H:1V
  2. INSTALL 10' UPHILL OF BIO BERM.

**1** PROTECTIVE FENCING  
NO SCALE



- NOTES:
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT.
  2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
  3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
  4. WHERE RUNOFF CONTAINING SEDIMENT LADEN WATER IS LEAVING THE SITE VIA THE CONSTRUCTION ENTRANCE, OTHER MEASURES SHALL BE IMPLEMENTED TO DIVERT RUNOFF THROUGH AN APPROVED FILTERING SYSTEM.
  5. DIMENSIONS:  
SINGLE FAMILY: 20' LONG BY 20' WIDE 8\"/>

CONSTRUCTION ENTRANCE  
DRAWING NO. 855 REVISED 12-16  
CleanWater Services

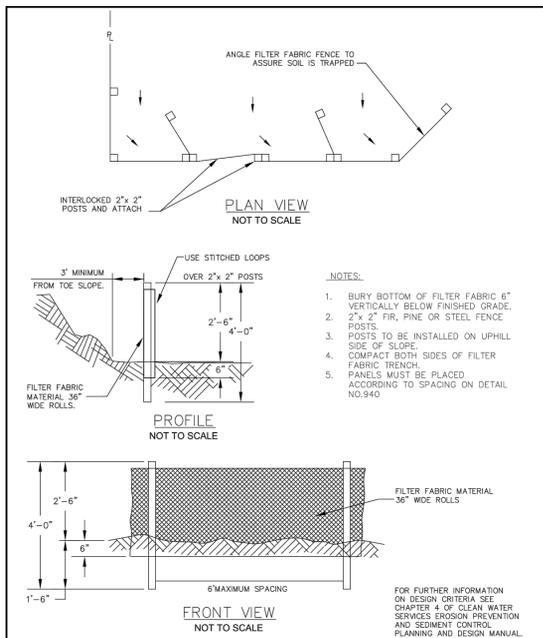


- NOTES:
1. CONTRACTOR TO REMOVE ACCUMULATED SEDIMENT AS NEEDED TO PREVENT TRACKING FROM THE WASH. SEDIMENT LADEN WATER MAY BE PIPED TO AN APPROVED SEDIMENT TRAP.
  2. USE GEOTEXTILE FABRIC WITH AGGREGATE FOR A TEMPORARY TIRE WASH.
- FOR FURTHER INFORMATION ON DESIGN CRITERIA SEE CHAPTER 4 OF CLEAN WATER SERVICES EROSION PREVENTION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL.

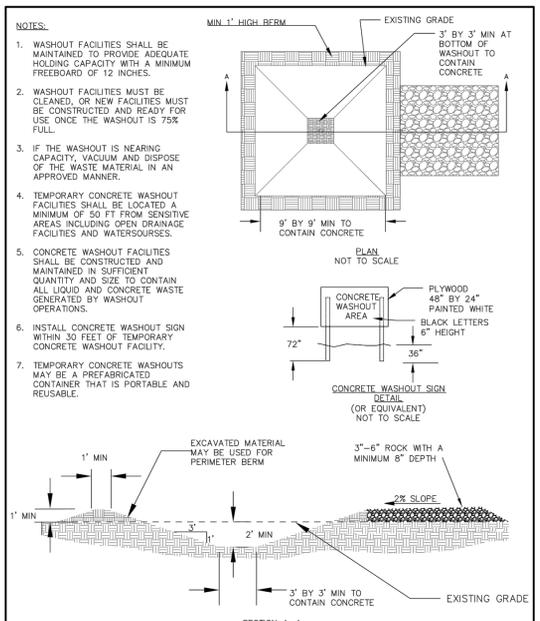
TIRE WASH-(DRIVE-THROUGH)  
DRAWING NO. 870 REVISED 12-16  
CleanWater Services

- NOTES:
1. WHEN RAINFALL AND RUNOFF OCCURS, A KNOWLEDGEABLE AND EXPERIENCED PERSON IN THE PRINCIPLES, PRACTICES, INSTALLATION, AND MAINTENANCE OF EROSION AND SEDIMENT CONTROLS WHO WORKS FOR THE PERMITTEE MUST PROVIDE DAILY INSPECTIONS OF THE EROSION AND SEDIMENT CONTROLS AND DISCHARGE OUTFALLS.
  2. CONSTRUCTION ACTIVITIES MUST AVOID OR MINIMIZE EXCAVATION AND CREATION OF BARE GROUND FROM OCTOBER 1 THROUGH MAY 31ST EACH YEAR.
  3. DURING WET WEATHER PERIOD, TEMPORARY STABILIZATION OF THE SITE MUST OCCUR AT THE END OF EACH WORK DAY.
  4. SEDIMENT CONTROLS MUST BE INSTALLED AND MAINTAINED ON ALL DOWN GRADIENT SIDES OF THE CONSTRUCTION SITE AT ALL TIMES DURING CONSTRUCTION. THEY MUST REMAIN IN PLACE UNTIL PERMANENT VEGETATION OR OTHER PERMANENT COVERING OF EXPOSED SOIL IS ESTABLISHED.
  5. ALL ACTIVE INLETS MUST HAVE SEDIMENT CONTROLS ATTACHED AND MAINTAINED AT ALL TIMES DURING CONSTRUCTION. UNLESS OTHERWISE APPROVED, A SURFACE MOUNTED AND ATTACHABLE, U-SHAPED FILTER BAG IS REQUIRED FOR ALL CURB INLET CATCH BASINS.
  6. SIGNIFICANT AMOUNTS OF SEDIMENT THAT LEAVES THE SITE MUST BE CLEANED UP WITHIN 24 HOURS AND PLACED BACK ON THE SITE AND STABILIZED OR PROPERLY DISPOSED. THE CAUSE OF THE SEDIMENT RELEASE MUST BE FOUND AND PREVENTED FROM CAUSING A RECURRENCE OF THE DISCHARGE WITHIN THE SAME 24 HOURS. ANY IN-STREAM CLEAN UP OF SEDIMENT SHALL BE PERFORMED ACCORDING TO THE OREGON DEPARTMENT OF STATE LANDS REQUIRED TIME FRAME.
  7. SEDIMENT MUST NOT BE INTENTIONALLY WASHED INTO STORM SEWERS, DRAINAGE WAYS, OR WATER BODIES.
  8. SEDIMENT MUST BE REMOVED FROM BEHIND ALL SEDIMENT CONTROL MEASURES WHEN IT HAS REACHED A HEIGHT OF 1/3-RD THE BARRIER HEIGHT AND PRIOR TO THE CONTROL MEASURES REMOVAL.
  9. CLEANING OF ALL STRUCTURES WITH SUMPS MUST OCCUR WHEN THE SEDIMENT RETENTION CAPACITY HAS BEEN REDUCED BY 50% AND AT COMPLETION OF PROJECT.
  10. ANY USE OF TOXIC OR OTHER HAZARDOUS MATERIALS MUST INCLUDE PROPER STORAGE, APPLICATION, AND DISPOSAL.
  11. THE PERMITTEE MUST PROPERLY MANAGE HAZARDOUS WASTES, USED OILS, CONTAMINATED SOILS, CONCRETE WASTE, SANITARY WASTE, LIQUID WASTE, OR OTHER TOXIC SUBSTANCES DISCOVERED OR GENERATED DURING CONSTRUCTION.
  12. THE APPLICATION RATE OF FERTILIZERS USED TO REESTABLISH VEGETATION MUST FOLLOW MANUFACTURER'S RECOMMENDATIONS. NUTRIENT RELEASES FROM FERTILIZERS TO SURFACE WATERS MUST BE MINIMIZED. TIME RELEASE FERTILIZERS SHOULD BE USED AND CARE SHOULD BE MADE IN APPLICATION OF FERTILIZERS WITH ANY WATER WAY RIPARIAN ZONE.
  13. OWNER OR DESIGNATED PERSON SHALL BE RESPONSIBLE FOR PROPER INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES, IN ACCORDANCE WITH CURRENT CLEAN WATER SERVICES STANDARDS AND STATE AND FEDERAL REGULATIONS.
  14. PRIOR TO ANY LAND DISTURBING ACTIVITIES, THE BOUNDARIES OF THE CLEARING LIMITS, VEGETATED BUFFERS, AND ANY SENSITIVE AREAS SHOWN ON THIS PLAN SHALL BE CLEARLY DELINEATED IN THE FIELD. UNLESS OTHERWISE APPROVED, NO DISTURBANCE IS PERMITTED BEYOND THE CLEARING LIMITS. THE OWNER/PERMITTEE MUST MAINTAIN THE DELINEATION FOR THE DURATION OF THE PROJECT. NOTE: VEGETATED CORRIDORS TO BE DELINEATED WITH ORANGE CONSTRUCTION FENCE OR APPROVED EQUAL.
  15. PRIOR TO ANY LAND DISTURBING ACTIVITIES, THE SUMPS THAT MUST BE INSTALLED ARE GRAVEL CONSTRUCTION ENTRANCE, PERIMETER SEDIMENT CONTROL, AND INLET PROTECTION. THESE SUMPS MUST BE MAINTAINED FOR THE DURATION OF THE PROJECT.
  16. IF VEGETATIVE SEED MIXES ARE SPECIFIED, SEEDING MUST TAKE PLACE NO LATER THAN SEPTEMBER 1ST; THE TYPE AND PERCENTAGES OF SEED IN THE MIX ARE AS IDENTIFIED ON THE PLANS OR AS SPECIFIED BY THE DESIGN ENGINEER.
  17. WATERTIGHT TRUCKS MUST BE USED TO TRANSPORT SATURATED SOILS FROM THE CONSTRUCTION SITE. AN APPROVED EQUIVALENT IS TO DRAIN THE SOIL ON SITE AT A DESIGNATED LOCATION USING APPROPRIATE BMPs; SOIL MUST BE DRAINED SUFFICIENTLY FOR MINIMAL SPILLAGE.
  18. ALL PUMPING OF SEDIMENT LADEN WATER MUST BE DISCHARGED OVER AN UNDISTURBED, PREFERABLY VEGETATED AREA, AND THROUGH A SEDIMENT CONTROL BMP (I.E. FILTER BAG).
  19. THE ESC PLAN MUST BE KEPT ON SITE. ALL MEASURES SHOWN ON THE PLAN MUST BE INSTALLED PROPERLY TO ENSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER A SURFACE WATER SYSTEM, ROADWAY, OR OTHER PROPERTIES.
  20. THE ESC MEASURES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE MEASURES SHALL BE UPGRADED AS NEEDED TO MAINTAIN COMPLIANCE WITH ALL REGULATIONS.
  21. WRITTEN ESC LOGS ARE SUGGESTED TO BE MAINTAINED ON-SITE AND AVAILABLE TO DISTRICT INSPECTORS UPON REQUEST.
  22. IN AREAS SUBJECT TO WIND EROSION, APPROPRIATE BMPs MUST BE USED WHICH MAY INCLUDE THE APPLICATION OF FINE WATER SPRAYING, PLASTIC SHEETING, MULCHING, OR OTHER APPROVED MEASURES.
  23. ALL EXPOSED SOILS MUST BE COVERED DURING WET WEATHER PERIOD.

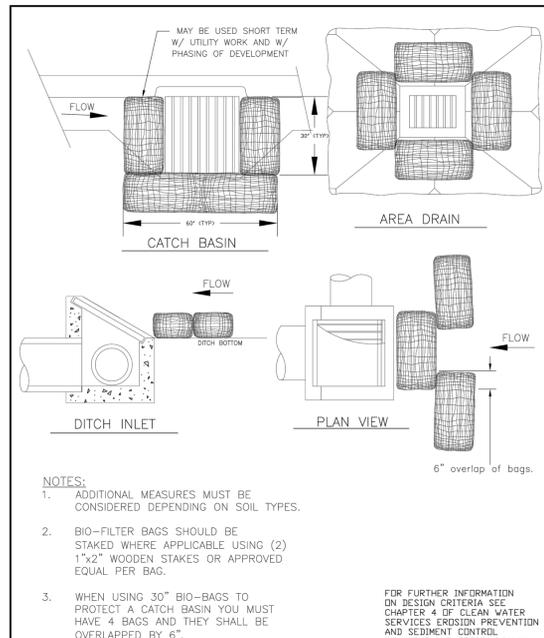
STANDARD EROSION CONTROL NOTES FOR SITES LESS THAN 1 ACRE  
DRAWING NO. 945 REVISED 12-16  
CleanWater Services



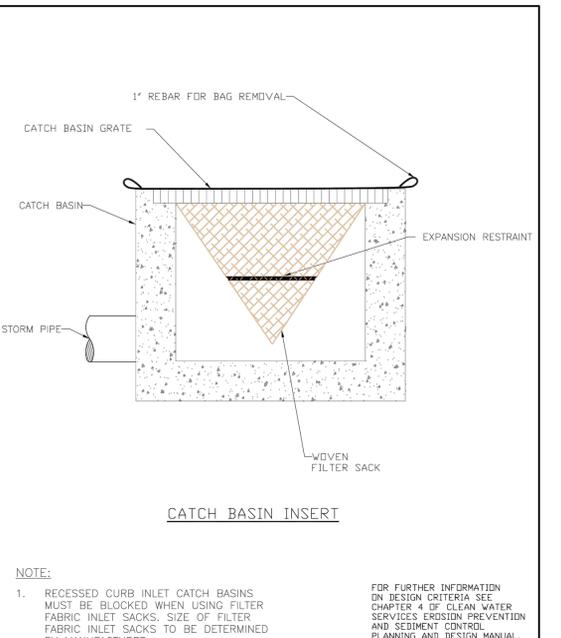
SEDIMENT FENCE  
DRAWING NO. 875 REVISED 12-16  
CleanWater Services



CONCRETE WASHOUT  
DRAWING NO. 900 REVISED 12-16  
CleanWater Services



INLET PROTECTION TYPE 4  
DRAWING NO. 915 REVISED 12-16  
CleanWater Services



INLET PROTECTION TYPE 5  
DRAWING NO. 920 REVISED 12-16  
CleanWater Services

REVISIONS:


# EROSION AND SEDIMENT CONTROL DETAILS

JTE  
Janet Turner Engineering, LLC

DESIGNED BY:	AWS	DRAWING NO.:	CO.3
DRAWN BY:	SBB	SCALE:	AS NOTED
CHECKED BY:	JTE		
PREPARED FOR:	CLEAN WATER SERVICES 2550 SW HILLSBORO HIGHWAY HILLSBORO, OR 97123 PHONE: 503-681-3600 FAX: 503-681-3603		

**SUNSET HIGH SCHOOL**  
WASHINGTON COUNTY OREGON  
WASHINGTON COUNTY TAX MAP 1N1338C

DATE: MARCH 10, 2020

JOB NUMBER	XXXX
SHEET	CO.3



BEAVERTON SCHOOL DISTRICT  
**SUNSET HIGH SCHOOL**  
**STADIUM SITE IMPROVEMENTS**  
13840 NW CORNELL ROAD  
PORTLAND, OR 97229

CONSTRUCTION DRAWINGS  
PERMIT AND BIDDING SET

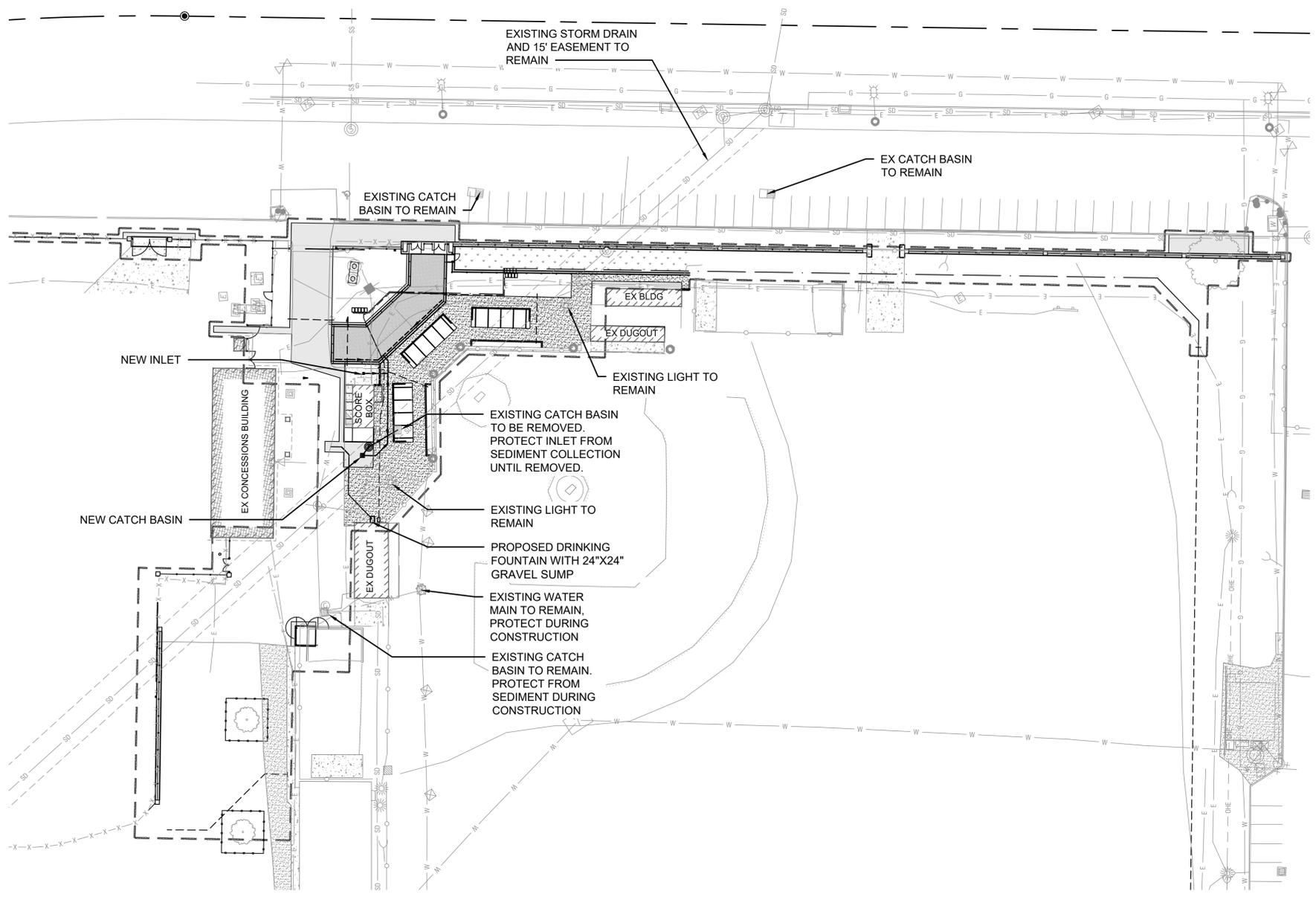
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#	DESCRIPTION	DATE
1	BSD COMMENTS	03/10/2020

DATE	2/18/20
PROJECT NO.	
CAD DWG FILE	
DRAWN BY	AWS
CHECKED BY	JLT

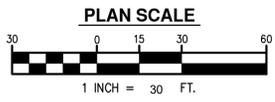
COMPOSITE  
UTILITY PLAN

SCALE:  
SHEET:

**C1.0**



REFER TO SHEET C1.1  
FOR PROPOSED  
STORMWATER MANAGEMENT



COMPOSITE UTILITY PLAN  
SCALE: 1"=30'

C:\PERSONAL\JANET TURNER ENGINEERING\BEAVERTON SUNSET HIGH SCHOOL\DRAWINGS\SUNSET HS STADIUM CIVIL SHEETS 3-3-20.DWG



**BEAVERTON SCHOOL DISTRICT**  
**SUNSET HIGH SCHOOL**  
**STADIUM SITE IMPROVEMENTS**  
**13840 NW CORNELL ROAD**  
**PORTLAND, OR 97229**

**CONSTRUCTION DRAWINGS PERMIT AND BIDDING SET**

ISSUE		
#	DESCRIPTION	DATE
1	BSD COMMENTS	03/10/2020

DATE	2/18/20
PROJECT NO.	
CAD DWG FILE	
DRAWN BY	AWS
CHECKED BY	JLT

**STORM DRAIN PLAN**

SCALE:  
SHEET:

**C1.1**

**SHEET NOTES:**

- REFER TO LANDSCAPE PLANS AND SPECIFICATIONS FOR PERMEABLE PAVER MATERIALS AND CONSTRUCTION.

**CONSTRUCTION NOTES:**

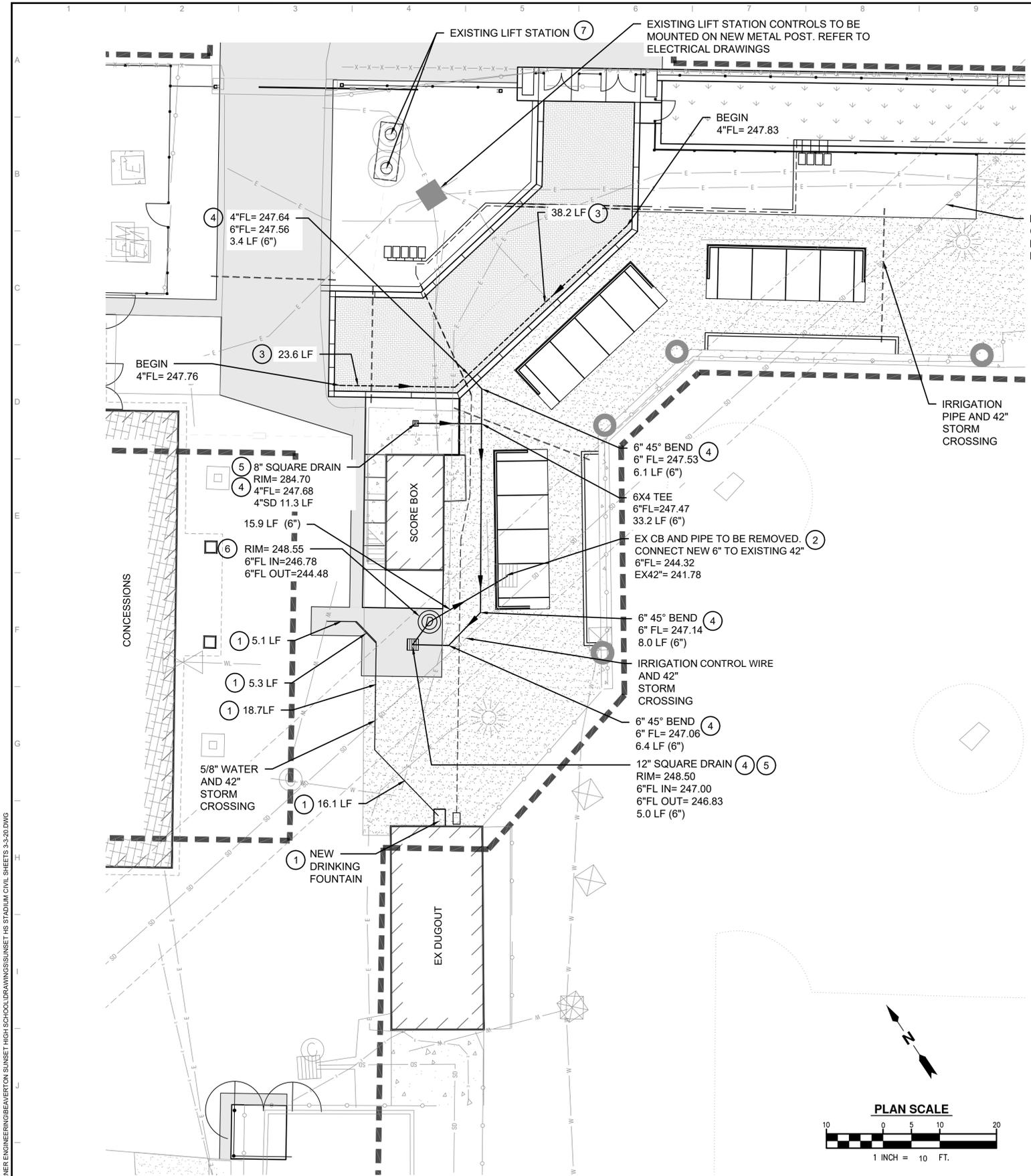
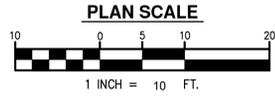
- NEW DRINKING FOUNTAIN. REFER TO LANDSCAPE ARCHITECTURAL PLANS. NEW 3/8" WATER SUPPLY AS SHOWN. POTHOLE AND EXPOSE EXISTING WATER MAIN AT PROPOSED CONNECTION LOCATION TO CONFIRM PIPE SIZE, LOCATION AND DEPTH AT LEAST 5 DAYS PRIOR TO START OF WATERLINE CONSTRUCTION.
- REMOVE EXISTING CATCH BASIN AND EXPOSE FITTING TO EX 42" STORM MAIN. CONTRACTOR SHALL CONFIRM PIPE LOCATION, DEPTH, SIZE AND CONDITION AT LEAST 5 DAYS PRIOR TO START OF STORM DRAIN CONSTRUCTION AND SHARE FINDINGS WITH ENGINEER. CONNECT NEW 6" STORM DRAIN TO EXISTING 42" STORM, UTILIZING SPECIFIED FITTINGS AS COORDINATED WITH CITY OF BEAVERTON.
- CONSTRUCT 4" PERFORATED PIPE, LENGTH AS SHOWN, SLOPE NO LESS THAN 0.5% (0.0050 FT/FT).
- CONSTRUCT 6"/4" STORM DRAIN, LENGTH AS SHOWN, SLOPE NO LESS THAN 1% (0.0100 FT/FT).
- NEW AREA DRAIN, PER DETAIL 2 ON SHEET C1.2. RIM AS SHOWN.
- CONSTRUCT NEW MECHANICAL TREATMENT ASSEMBLY, RIM AS SHOWN. CONSTRUCT 6"SD BETWEEN MANHOLE AND EXISTING 42"SD CONNECTION AS SHOWN (PIPE LENGTH AS SHOWN). CONTECH STORMFILTER TREATMENT ASSEMBLY SHALL BE PER DETAIL 3, SHEET C1.2, AND AS FURTHER DETAILED IN STORM REPORT.
- EXISTING LIFT STATION MANHOLE WITH FIBERGLASS LIDS AND RISERS TO BE REVISED TO BE LOCKING. CONTRACTOR TO COORDINATED WITH BSD AND MANHOLE MANUFACTURER FOR NEW LOCKING LID/RISER CONSTRUCTION.

**PROPOSED LEGEND AND ABBREVIATIONS**

AC	ASPHALT
AD	AREA DRAIN
BSD	BEAVERTON SCHOOL DISTRICT
CB	CATCH BASIN
CONST	CONSTRUCT
EX	EXISTING
FL	FLOW LINE
FT	FOOT/FEET
L	LENGTH
LF	LINEAR FEET
MIN	MINIMUM
S	SLOPE
TYP	TYPICAL
	AREA DRAIN
	PERFORATED PIPE
	STORM DRAIN

**EXISTING SURVEY LEGEND**

	WATER VALVE		SIGN
	WATER METER		BOLLARD
	IRRIGATION VALVE		POLE
	WATER VAULT		ADA PARKING
	FIRE HYDRANT		CONIFEROUS TREE
	FIRE DEPT CONNECTION		BROADLEAF TREE
	AREA DRAIN (SQUARE)		ELECTRIC
	STORM DRAIN MANHOLE		SANITARY SEWER
	UTILITY POLE		AREA DRAIN
	GUY ANCHOR		STORMWATER
	LIGHT POLE		SEWER MANHOLE
	ELECTRIC METER		CLEANOUT
	ELECTRIC RISER		METAL POST
	ELECTRIC TRANSFORMER		TELEPHONE VAULT
	ELECTRIC VAULT		RIGHT OF WAY
	TELEPHONE RISER		FOUND MONUMENT
	UNKNOWN UTILITY VAULT		
	CONCRETE TRASH CAN		
	WATER QUALITY CATCH BASIN		
	SET SITE CONTROL (CP)		
	REFER TO DETAIL AND BENCHMARK TABLE DENOTES BUILDING OVERHEAD		
	5.0' CONTOUR INTERVAL		
	1.0' CONTOUR INTERVAL		
	HATCH DENOTES BUILDING		
	HATCH DENOTES BUILDING OVERHANG		
	HATCH DENOTES ASPHALT PAVEMENT		
	HATCH DENOTES CONCRETE		
	HATCH DENOTES GRAVEL		
	PAVEMENT PAINT STRIPE		
	CHAIN LINK FENCE		
	UNDERGROUND STORM DRAIN LINE		
	OVERHEAD COMBINED UTILITY LINE		
	HEDGE		
	LIMITS OF GRASS / SOIL		



**STORM DRAIN PLAN**  
SCALE: 1"=10'

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BEAVERTON SCHOOL DISTRICT  
**SUNSET HIGH SCHOOL**  
**STADIUM SITE IMPROVEMENTS**  
13840 NW CORNELL ROAD  
PORTLAND, OR 97229

CONSTRUCTION DRAWINGS  
PERMIT AND BIDDING SET

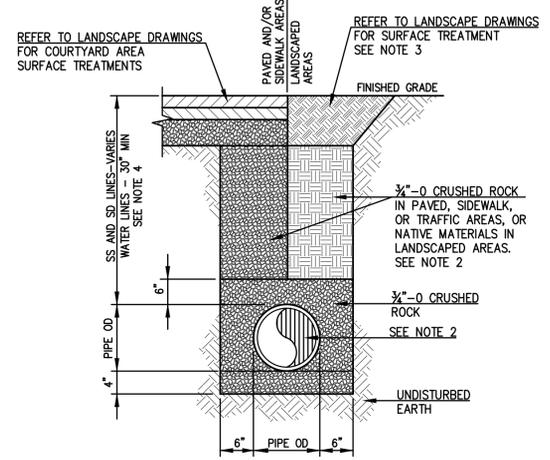
ISSUE		
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PROJECT NO.	
CAD DWG FILE	
DRAWN BY	AWS
CHECKED BY	JLT

CIVIL DETAILS

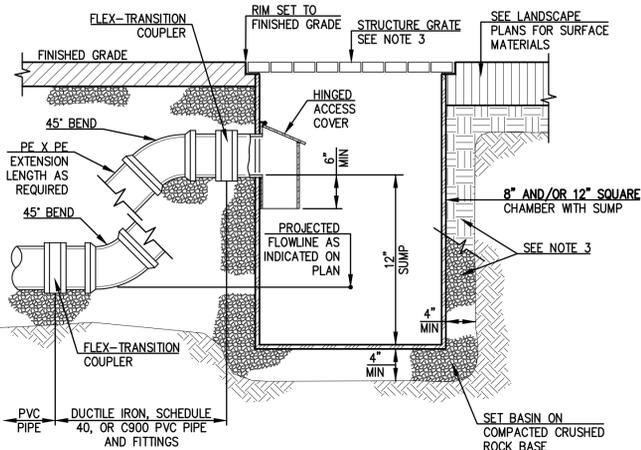
SCALE:  
SHEET:

**C1.2**



- NOTES**
1. WATER LINES THAT PARALLEL SANITARY SEWER LINES SHALL BE LOCATED A MINIMUM OF 12" ABOVE SEWER LINES, WHERE SERVICES ARE NOT HORIZONTALLY SEPARATED BY 10'.
  2. WITHIN 5' OF A BUILDING STRUCTURE BUILDING CODE APPROVED PIPE MATERIAL AND 3/4"-0 CRUSHED ROCK BACKFILL SHALL BE USED.
  3. SAWCUT, REMOVE AND REPAIR EXISTING SURFACES TO MATCH EXISTING ASPHALT, CONCRETE, OR LANDSCAPING IN AREAS WHICH DO NOT RECEIVE NEW IMPROVEMENTS. PROVIDE 4" MIN DEPTH ASPHALT PAVEMENT, 4" MIN DEPTH CONCRETE PAVEMENT, OR MATCH EXISTING PAVEMENT DEPTH, WHICHEVER IS GREATER.
  4. 36" MINIMUM FOR FIRE SERVICE PIPES UNDER AREAS TRAFFICKED BY VEHICLES. (NFPA 24, 10-4)
  5. INSTALL TRACER WIRE ON ANY PIPELINE(S) CONSTRUCTED OF NON-METALLIC PIPE MATERIAL.

**1 TYPICAL TRENCHING & BACKFILL SECTION**  
NO SCALE



- NOTES**
1. TRACER WIRE SHALL ENTER STRUCTURE AT PIPE INLET OR OUTLET. PROVIDE ADEQUATE FREE WIRE TO EXTEND 24" ABOVE TOP OF GRATE TO FACILITATE TESTING. COIL WIRE AND SECURE WITH NON-CORROSIVE FASTENER 2" UNDER FRAME.
  2. LOCATION SPECIFIED ON PLAN INDICATES CENTER OF GRATED SECTION OF BASIN.
  3. BACKFILL AROUND BASIN USING CRUSHED ROCK IN PAVEMENT OR SIDEWALK AREAS OR NATIVE MATERIAL IN LANDSCAPE AREAS.
  4. ALL STRUCTURES SHALL BE PROVIDED WITH ADA-APPROVED GRATES.

**2 STANDARD AREA DRAIN (AD)**  
NO SCALE

**STORMFILTER DESIGN NOTES**

STORMFILTER TREATMENT CAPACITY IS A FUNCTION OF THE CARTRIDGE SELECTION AND THE NUMBER OF CARTRIDGES. THE STANDARD MANHOLE STYLE IS SHOWN WITH THE MAXIMUM NUMBER OF CARTRIDGES (3). VOLUME SYSTEM IS ALSO AVAILABLE WITH MAXIMUM 3 CARTRIDGES. 04 (1219 mm) MANHOLE STORMFILTER PEAK HYDRAULIC CAPACITY IS 1.0 CFS (28.3 L/s). IF THE SITE CONDITIONS EXCEED 1.0 CFS (28.3 L/s) AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.

CARTRIDGE SELECTION	27" (688 mm)	18" (458 mm)	LOW DROP
RECOMMENDED HYDRAULIC DROP (ft)	2.3 (700 mm)	2.3 (700 mm)	2.3 (700 mm)
SPECIFIC FLOW RATE (gpm/ft <sup>2</sup> ) [L/s/m <sup>2</sup> ]	2 (1.30) [0.65]	2 (1.30) [0.65]	2 (1.30) [0.65]
CARTRIDGE FLOW RATE (gpm) [L/s]	22.4 (8.4) [18.79 (1.19)] [11.25 (0.72)]	15 (0.99) [12.53 (0.79)]	7.5 (0.44) [3.76 (0.25)]

\* 1.67 gpm/ft<sup>2</sup> (1.08 L/s/m<sup>2</sup>) SPECIFIC FLOW RATE IS APPROVED WITH PHOSPHOSORB® (PSORB) MEDIA ONLY

**SITE SPECIFIC DATA REQUIREMENTS**

STRUCTURE ID	-		
WATER QUALITY FLOW RATE (cfs) [L/s]	0.005		
PEAK FLOW RATE (cfs) [L/s]	0.123		
RETURN PERIOD OF PEAK FLOW (yrs)	100		
CARTRIDGE HEIGHT (SEE TABLE ABOVE)	0.005		
NUMBER OF CARTRIDGES REQUIRED	2		
CARTRIDGE FLOW RATE	1.67		
MEDIA TYPE (PERLITE, ZPG, PSORB)	PSORB		

PIPE DATA:	I.E.	MATERIAL	DIAMETER
INLET PIPE #1	*	*	*
INLET PIPE #2	*	*	*
OUTLET PIPE	*	*	*

RIM ELEVATION	WIDTH	HEIGHT
*	*	*

NOTES/SPECIAL REQUIREMENTS:  
\* PER ENGINEER OF RECORD

**GENERAL NOTES**

1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. DIMENSIONS MARKED WITH (A) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
3. FOR SITE SPECIFIC DRAWINGS WITH DETAILED VAULT DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE: [www.contechES.com](http://www.contechES.com)
4. STORMFILTER WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
5. STRUCTURE SHALL MEET AASHTO HS-20 LOAD RATING, ASSUMING EARTH COVER OF 0'-5" (1524 mm) AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.
6. FILTER CARTRIDGES SHALL BE MEDIA-FILLED, PASSIVE, SIPHON ACTUATED, RADIAL FLOW, AND SELF-CLEANING. RADIAL MEDIA DEPTH SHALL BE 7-INCHES (178 mm). FILTER MEDIA CONTACT TIME SHALL BE AT LEAST 38 SECONDS.
7. SPECIFIC FLOW RATE IS EQUAL TO THE FILTER TREATMENT CAPACITY (gpm) [L/s] DIVIDED BY THE FILTER CONTACT SURFACE AREA (sq ft) [m<sup>2</sup>].
8. STORMFILTER STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-478 AND AASHTO LOAD FACTOR DESIGN METHOD.

**INSTALLATION NOTES**

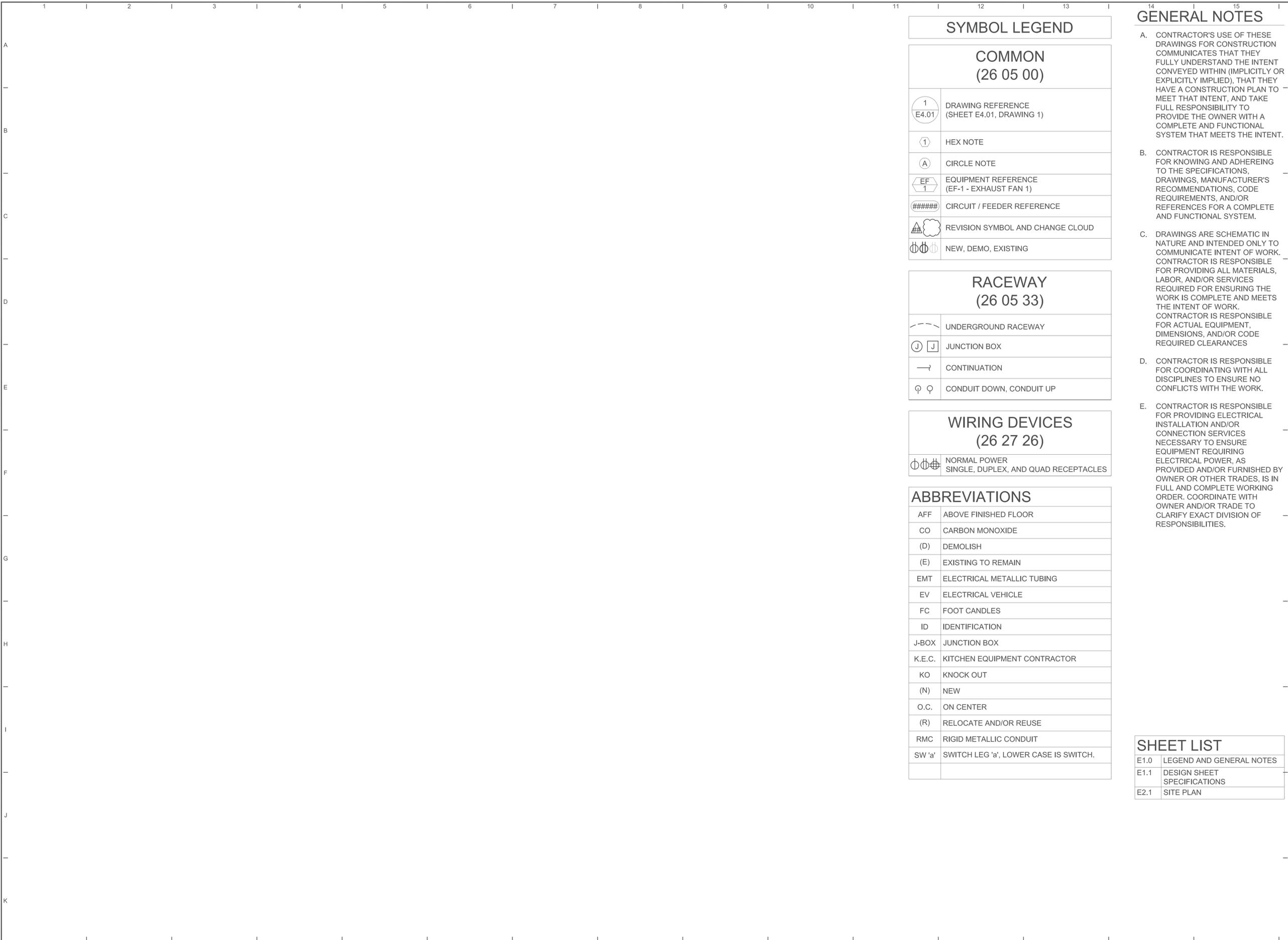
- A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
- B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STORMFILTER STRUCTURE.
- C. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
- D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET PIPE(S).
- E. CONTRACTOR TO PROVIDE AND INSTALL CONNECTOR TO THE OUTLET RISER STUB. STORMFILTER EQUIPPED WITH A DUAL DIAMETER HOPE OUTLET STUB AND SAND COLLAR. IF OUTLET PIPE IS LARGER THAN 8 INCHES (200 mm), CONTRACTOR TO REMOVE THE 8 INCH (200 mm) OUTLET STUB AT MOLDED-IN CUT LINE. COUPLING BY FERROCO OR EQUAL AND PROVIDED BY CONTRACTOR.
- F. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.

**CONTECH**  
ENGINEERED SOLUTIONS LLC  
[www.contechES.com](http://www.contechES.com)  
2025 Center Pointe Dr., Suite 400, West Chester, OH 45380  
900-338-1122 513-645-7000 513-645-7983 FAX

SFM48  
STORMFILTER  
STANDARD DETAIL

**3 STORMWATER STORMFILTER DETAIL**  
NO SCALE

C:\PERSONAL\JANET.TURNER\ENGINEERING\BEAVERTON\SUNSET\_HS\_STADIUM\CIVIL\DRAWINGS\SUNSET\_HS\_STADIUM\_CIVIL\_SHEETS\_S3-24.DWG



### SYMBOL LEGEND

#### COMMON (26 05 00)

	DRAWING REFERENCE (SHEET E4.01, DRAWING 1)
	HEX NOTE
	CIRCLE NOTE
	EQUIPMENT REFERENCE (EF-1 - EXHAUST FAN 1)
	CIRCUIT / FEEDER REFERENCE
	REVISION SYMBOL AND CHANGE CLOUD
	NEW, DEMO, EXISTING

#### RACEWAY (26 05 33)

	UNDERGROUND RACEWAY
	JUNCTION BOX
	CONTINUATION
	CONDUIT DOWN, CONDUIT UP

#### WIRING DEVICES (26 27 26)

	NORMAL POWER SINGLE, DUPLEX, AND QUAD RECEPTACLES
--	--

#### ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
CO	CARBON MONOXIDE
(D)	DEMOLISH
(E)	EXISTING TO REMAIN
EMT	ELECTRICAL METALLIC TUBING
EV	ELECTRICAL VEHICLE
FC	FOOT CANDLES
ID	IDENTIFICATION
J-BOX	JUNCTION BOX
K.E.C.	KITCHEN EQUIPMENT CONTRACTOR
KO	KNOCK OUT
(N)	NEW
O.C.	ON CENTER
(R)	RELOCATE AND/OR REUSE
RMC	RIGID METALLIC CONDUIT
SW 'a'	SWITCH LEG 'a', LOWER CASE IS SWITCH.

### GENERAL NOTES

- A. CONTRACTOR'S USE OF THESE DRAWINGS FOR CONSTRUCTION COMMUNICATES THAT THEY FULLY UNDERSTAND THE INTENT CONVEYED WITHIN (IMPLICITLY OR EXPLICITLY IMPLIED), THAT THEY HAVE A CONSTRUCTION PLAN TO MEET THAT INTENT, AND TAKE FULL RESPONSIBILITY TO PROVIDE THE OWNER WITH A COMPLETE AND FUNCTIONAL SYSTEM THAT MEETS THE INTENT.
- B. CONTRACTOR IS RESPONSIBLE FOR KNOWING AND ADHEREING TO THE SPECIFICATIONS, DRAWINGS, MANUFACTURER'S RECOMMENDATIONS, CODE REQUIREMENTS, AND/OR REFERENCES FOR A COMPLETE AND FUNCTIONAL SYSTEM.
- C. DRAWINGS ARE SCHEMATIC IN NATURE AND INTENDED ONLY TO COMMUNICATE INTENT OF WORK. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL MATERIALS, LABOR, AND/OR SERVICES REQUIRED FOR ENSURING THE WORK IS COMPLETE AND MEETS THE INTENT OF WORK. CONTRACTOR IS RESPONSIBLE FOR ACTUAL EQUIPMENT, DIMENSIONS, AND/OR CODE REQUIRED CLEARANCES
- D. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH ALL DISCIPLINES TO ENSURE NO CONFLICTS WITH THE WORK.
- E. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ELECTRICAL INSTALLATION AND/OR CONNECTION SERVICES NECESSARY TO ENSURE EQUIPMENT REQUIRING ELECTRICAL POWER, AS PROVIDED AND/OR FURNISHED BY OWNER OR OTHER TRADES, IS IN FULL AND COMPLETE WORKING ORDER. COORDINATE WITH OWNER AND/OR TRADE TO CLARIFY EXACT DIVISION OF RESPONSIBILITIES.

#### SHEET LIST

E1.0	LEGEND AND GENERAL NOTES
E1.1	DESIGN SHEET SPECIFICATIONS
E2.1	SITE PLAN

# BUGBEY & ASSOCIATES

## LANDSCAPE ARCHITECTURE

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Elmira, OR 97437  
541-654-1513  
bugbeyla@gmail.com



17675 FARMINGTON ROAD #136  
ALOHA, OREGON 97007  
971-245-4012



EXPIRES: 12/31/2021  
SIGNED: 03/02/2020  
PE: 2019031

**BEAVERTON SCHOOL DISTRICT**  
**SUNSET HIGH SCHOOL**  
**STADIUM SITE IMPROVEMENTS**  
 13840 NW CORNELL ROAD  
 PORTLAND, OR 97229

#### CONSTRUCTION DRAWINGS PERMIT AND BIDDING SET

ISSUE		
#	DESCRIPTION	DATE

DATE	02/18/2020
PROJECT NO.	7839
CAD DWG FILE	
DRAWN BY	MH
CHECKED BY	EEC

### LEGEND AND GENERAL NOTES

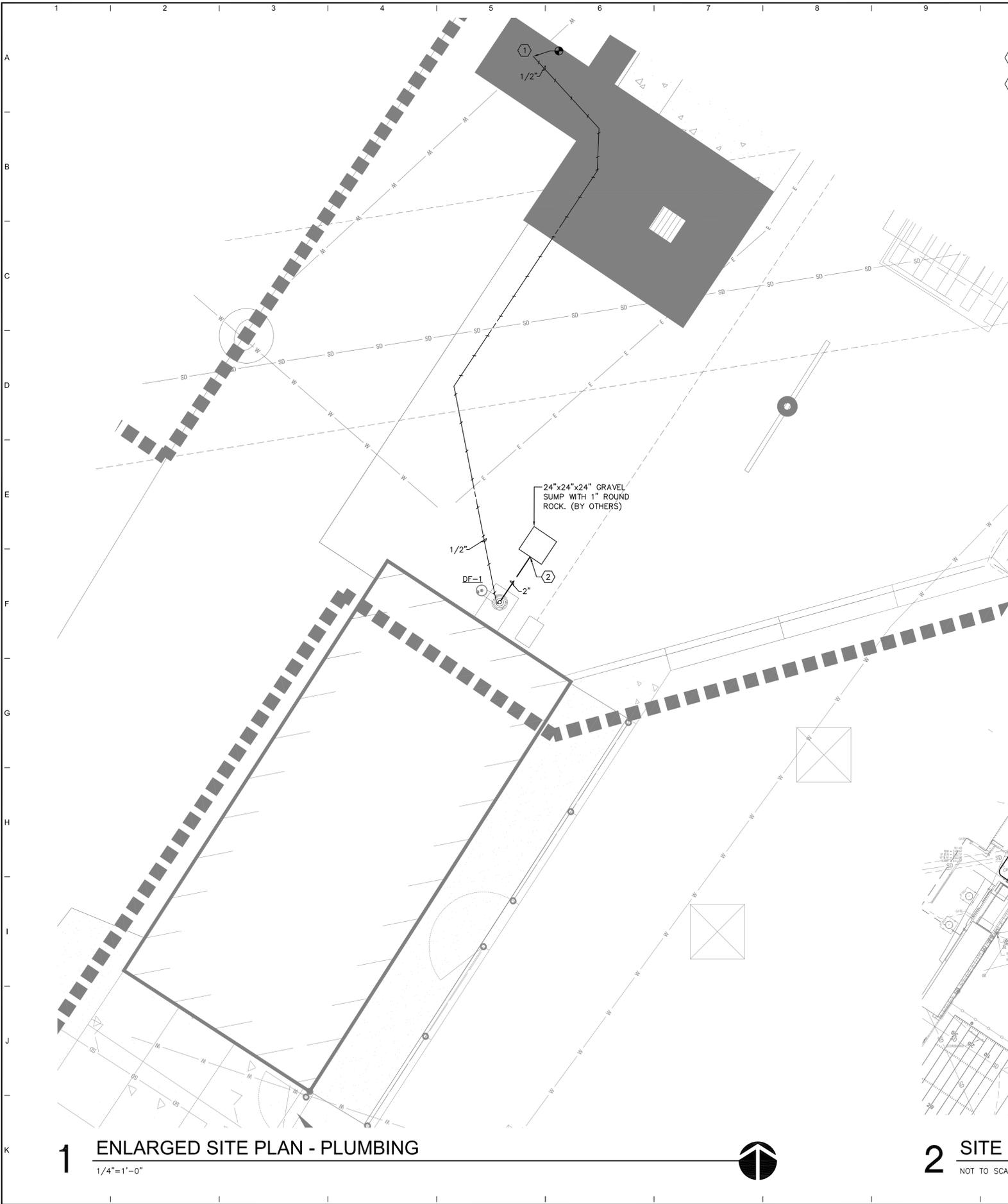
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SHEET:

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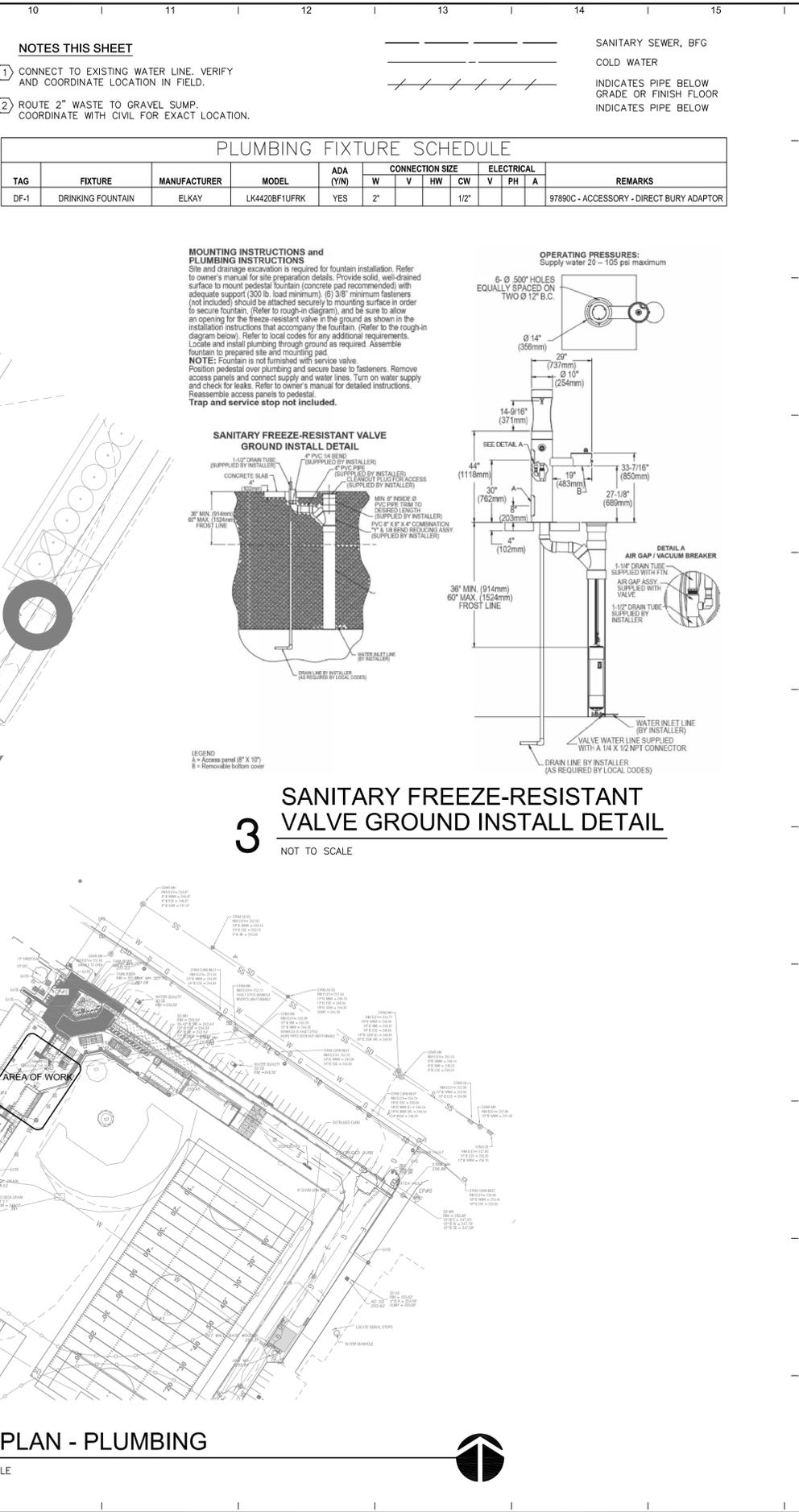




H:\PCD\ALL JOBS\2018\19-02 SUNSET HS BALLFIELD VIEWING\2.DRAWINGS\2.D SITE PLAN - PLUMBING - SUNSET HIGH SCHOOL BALLFIELD.DWG



**1 ENLARGED SITE PLAN - PLUMBING**  
1/4" = 1'-0"



**2 SITE PLAN - PLUMBING**  
NOT TO SCALE

**NOTES THIS SHEET**

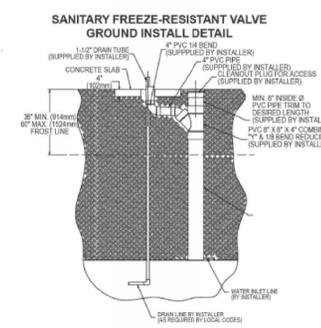
- ① CONNECT TO EXISTING WATER LINE. VERIFY AND COORDINATE LOCATION IN FIELD.
- ② ROUTE 2" WASTE TO GRAVEL SUMP. COORDINATE WITH CIVIL FOR EXACT LOCATION.



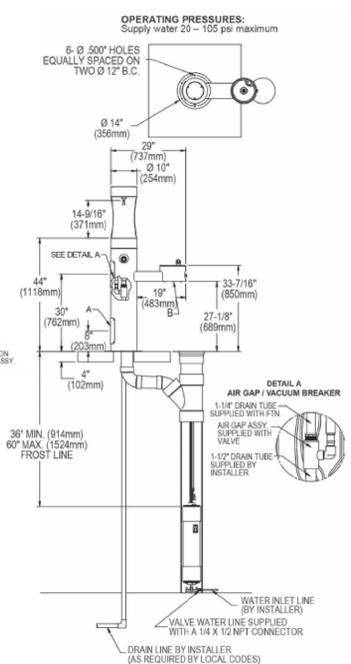
**PLUMBING FIXTURE SCHEDULE**

TAG	FIXTURE	MANUFACTURER	MODEL	ADA (Y/N)	CONNECTION SIZE				ELECTRICAL			REMARKS
					W	V	HW	CW	V	PH	A	
DF-1	DRINKING FOUNTAIN	ELKAY	LK4420BF1UFRK	YES	2"			1/2"				97890C - ACCESSORY - DIRECT BURY ADAPTOR

**MOUNTING INSTRUCTIONS and PLUMBING INSTRUCTIONS**  
Site and drainage excavation is required for fountain installation. Refer to owner's manual for site preparation details. Provide solid, well-drained surface to mount pedestal fountain (concrete pad recommended) with adequate support (500 lb. load minimum). (6) 3/8" minimum fasteners (not included) should be attached securely to mounting surface in order to secure fountain. (Refer to rough-in diagram), and be sure to allow an opening for the freeze resistant valve in the ground as shown in the installation instructions that accompany the fountain. (Refer to the rough-in diagram below). Refer to local codes for any additional requirements. Locate and install plumbing through ground as required. Assemble fountain to prepared site and mounting pad.  
**NOTE:** Fountain is not furnished with service valve. Position pedestal over plumbing and secure base to fasteners. Remove access panels and connect supply and water lines. Turn on water supply and check for leaks. Refer to owner's manual for detailed instructions. Reassemble access panels to pedestal.  
Trap and service stop not included.



LEGEND  
A = Access panel (6" x 10")  
B = Removable bottom cover



**3 SANITARY FREEZE-RESISTANT VALVE GROUND INSTALL DETAIL**

NOT TO SCALE

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PHONE: (503) 643-8233;  
email: shonef@pcpdllc.com  
CONTACT: Shane Fitzpatrick, CPD

REGISTERED PROFESSIONAL ENGINEER  
51478PE  
OREGON  
JOHN G. DUFFY  
Expires 12/31/2021  
**MEP CONSULTING**

BEAVERTON SCHOOL DISTRICT  
**SUNSET HIGH SCHOOL**  
STADIUM SITE IMPROVEMENTS  
13840 NW CORNELL ROAD  
PORTLAND, OR 97229

CONSTRUCTION DRAWINGS  
PERMIT AND BIDDING SET

ISSUE		
1	BSD COMMENTS	03/10/2020

DATE	02/18/2020
PROJECT NO.	7839
CAD DWG FILE	
DRAWN BY	
CHECKED BY	

**SITE PLAN - PLUMBING**

SCALE:  
SHEET:









