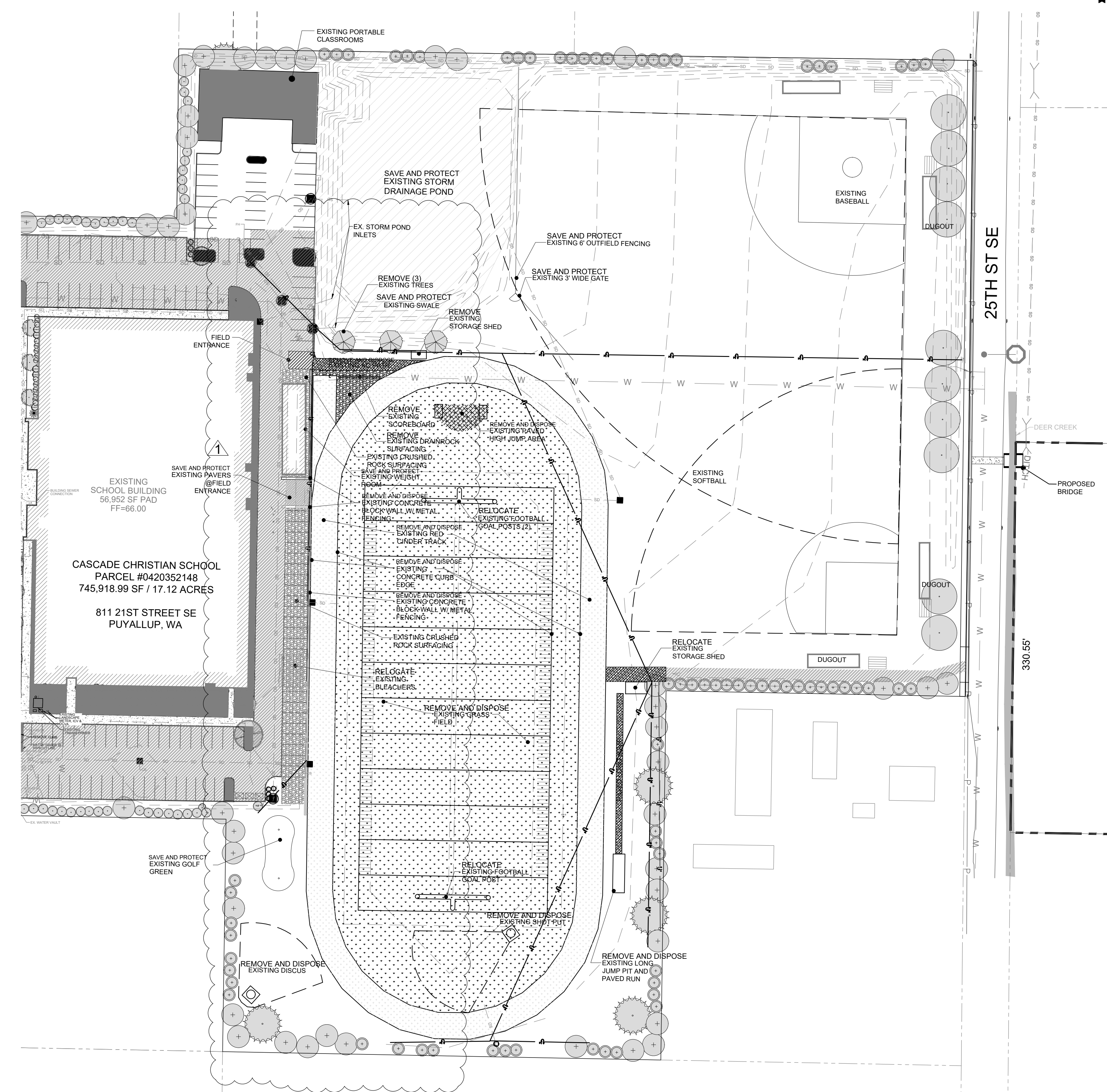


JGM
 LANDSCAPE ARCHITECTS
 INCORPORATED P.S.
 LANDSCAPE ARCHITECTURE
 URBAN DESIGN
 SITE PLANNING
 PARKS AND
 RECREATION PLANNING
 12610 NE 104TH ST.
 KIRKLAND WA 98033
 PH: 425.454.5723
 FX: 425.822.3525
 E: jgm@jgm-inc.com

CASCADE CHRISTIAN
 ATHLETIC FIELDS
 PUYALLUP, WA

REVISIONS/DRAWING ISSUES:
 1 11-28-2023

Drawn by:
 Checked by:



DEMOLITION LEGEND:

	EXISTING ASPHALT
	EXISTING ASPHALT TO BE REMOVED
	EXISTING CONCRETE PAVERS
	EXISTING CRUSHED ROCK TO REMAIN
	EXISTING DRAIN ROCK TO BE REMOVED
	EXISTING GRASS TO BE REMOVED
	EXISTING CINDER TRACK TO BE REMOVED
	EXISTING TREES TO SAVE AND PROTECT

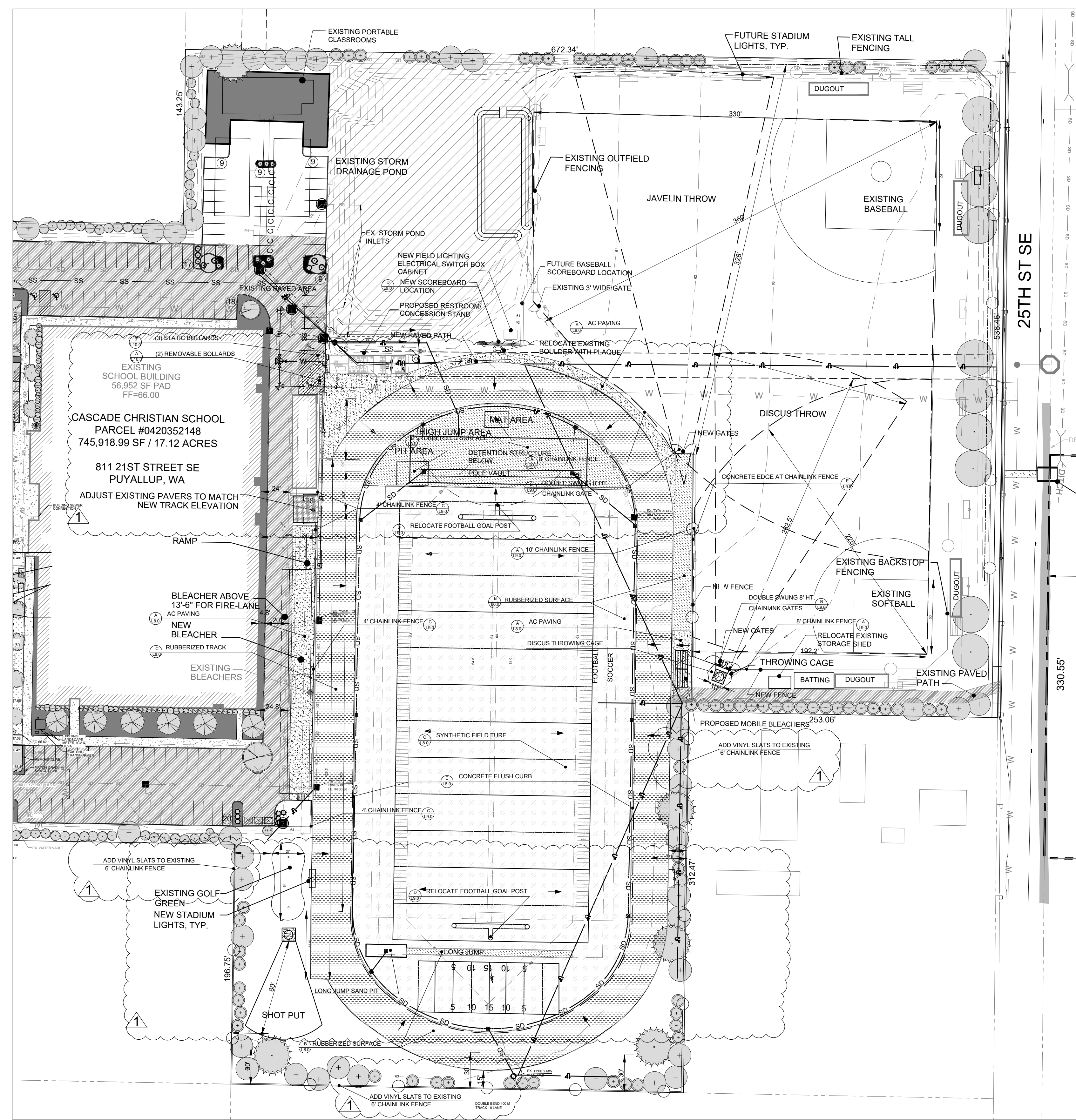
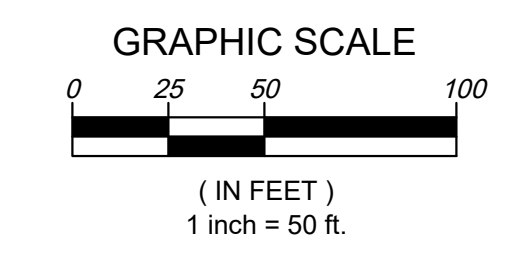
NOTES:
 1. PROTECT ALL UTILITIES NOT NOTED TO BE REMOVED.
 2. AT ANY TIME DURING CONSTRUCTION OF THIS PROJECT/PLAT, IF MUD AND DEBRIS ARE BEING TRACKED ONTO PUBLIC STREETS WITH INSUFFICIENT CLEANUP AS DETERMINED BY THE CITY INSPECTOR/DEVELOPMENT ENGINEER, ALL WORK SHALL CEASE UNTIL A SOLUTION IS DETERMINED. THE CONTRACTOR/DEVELOPER SHALL IMMEDIATELY TAKE THE NECESSARY STEPS TO PREVENT FURTHER TRACKING, WHICH STEPS MAY INCLUDE A WHEEL WASH ON SITE.

STATE OF WASHINGTON
 REGISTERED
 LANDSCAPE ARCHITECT
Craig A. Davis
 CERTIFICATE NO. 442





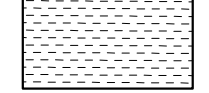
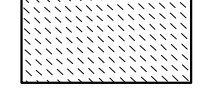

DATE: 3-28-2022
 LAST UPDATE:
 CAD FILE:

DRAWING TITLE
 EXISTING CONDITIONS
 AND DEMOLITION PLAN

SHEET NUMBER
L2.0



PROPOSED PAVING LEGEND:

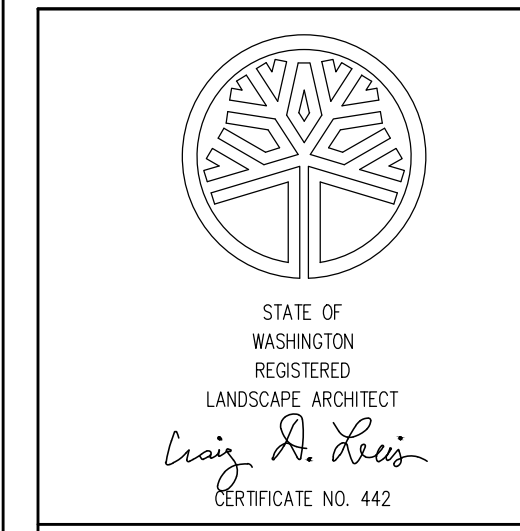
-  EXISTING ASPHALT
-  EXISTING CONCRETE PAVERS
-  PROPOSED GRASS
-  PROPOSED ASPHALT
-  PROPOSED RUBBERIZED TRACK
-  PROPOSED RUBBERIZED SURFACE
-  PROPOSED SYNTHETIC FIELD TURF

A
L8.0

C
L8.0

B
L8.0

C
L8.0

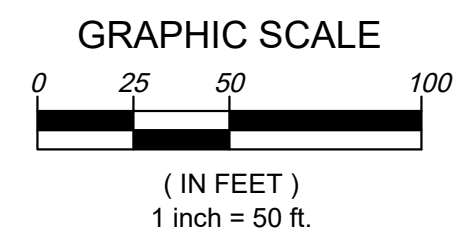


DATE: 3-28-2022
 LAST UPDATE:
 CAD FILE:

DRAWING TITLE

SITE PLAN

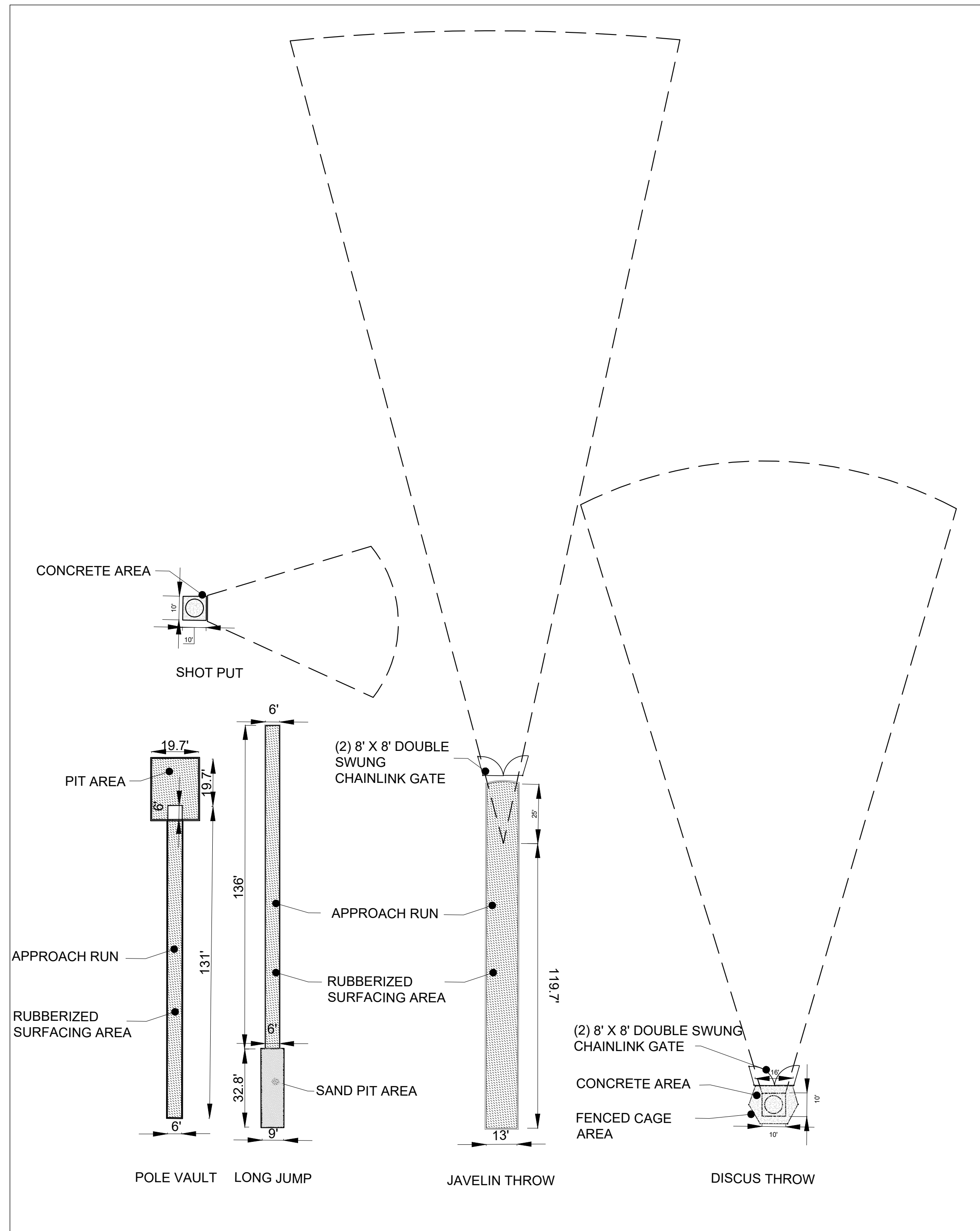
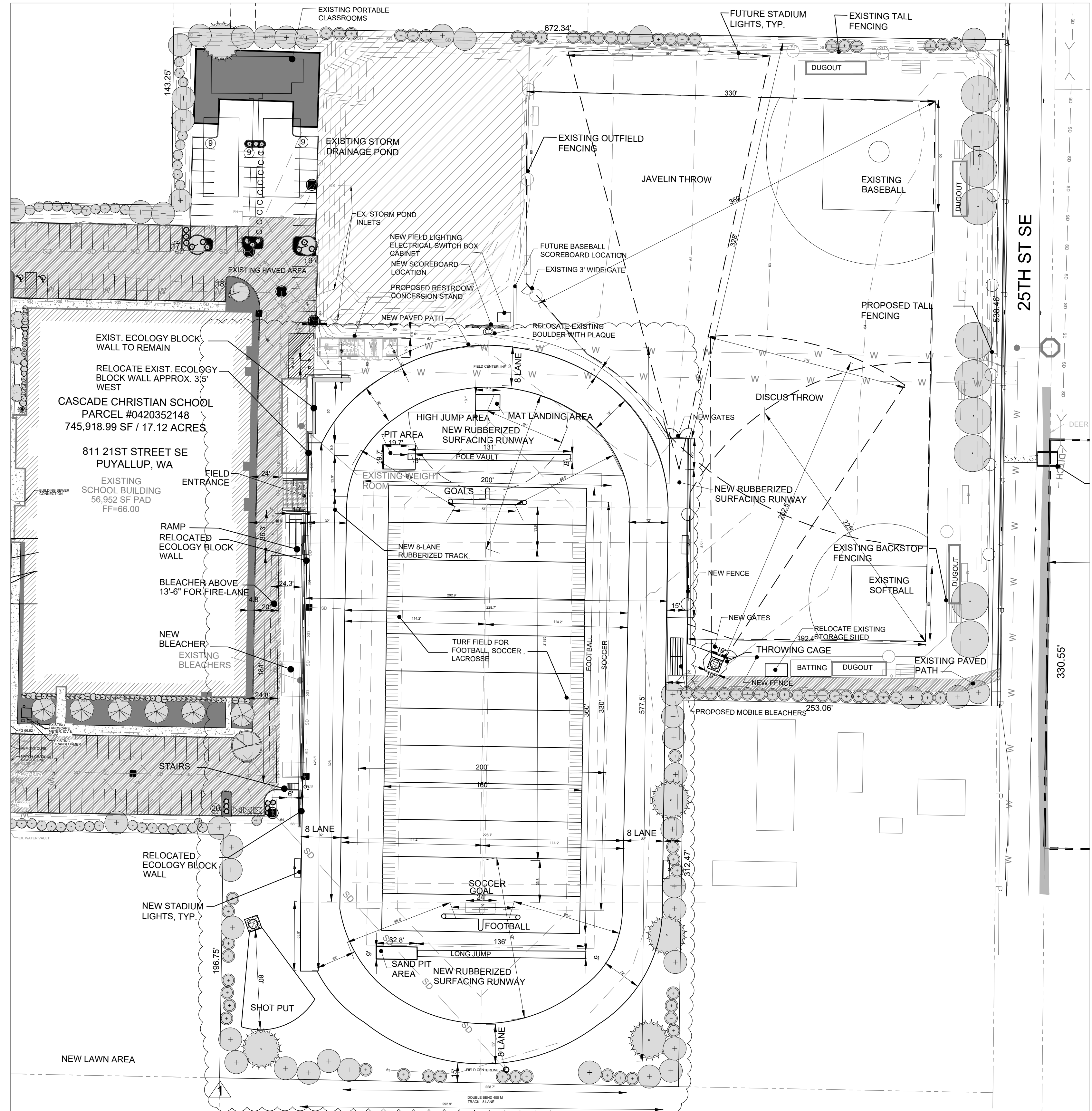
SHEET NUMBER
L4.0



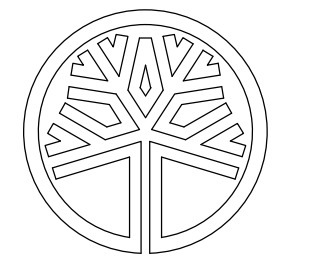
25TH ST SE

DEER

330.55'



ENLARGEMENT PLANS FOR FIELD ACTIVITIES



STATE OF WASHINGTON
 REGISTERED
 LANDSCAPE ARCHITECT
W. A. [Signature]
 CERTIFICATE NO. 442

DATE: 3-28-2022

LAST UPDATE:
 CAD FILE:

DRAWING TITLE
 LAYOUT PLAN

SHEET NUMBER
L5.0

PLANTING LEGEND:

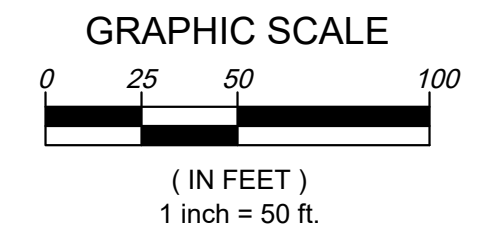
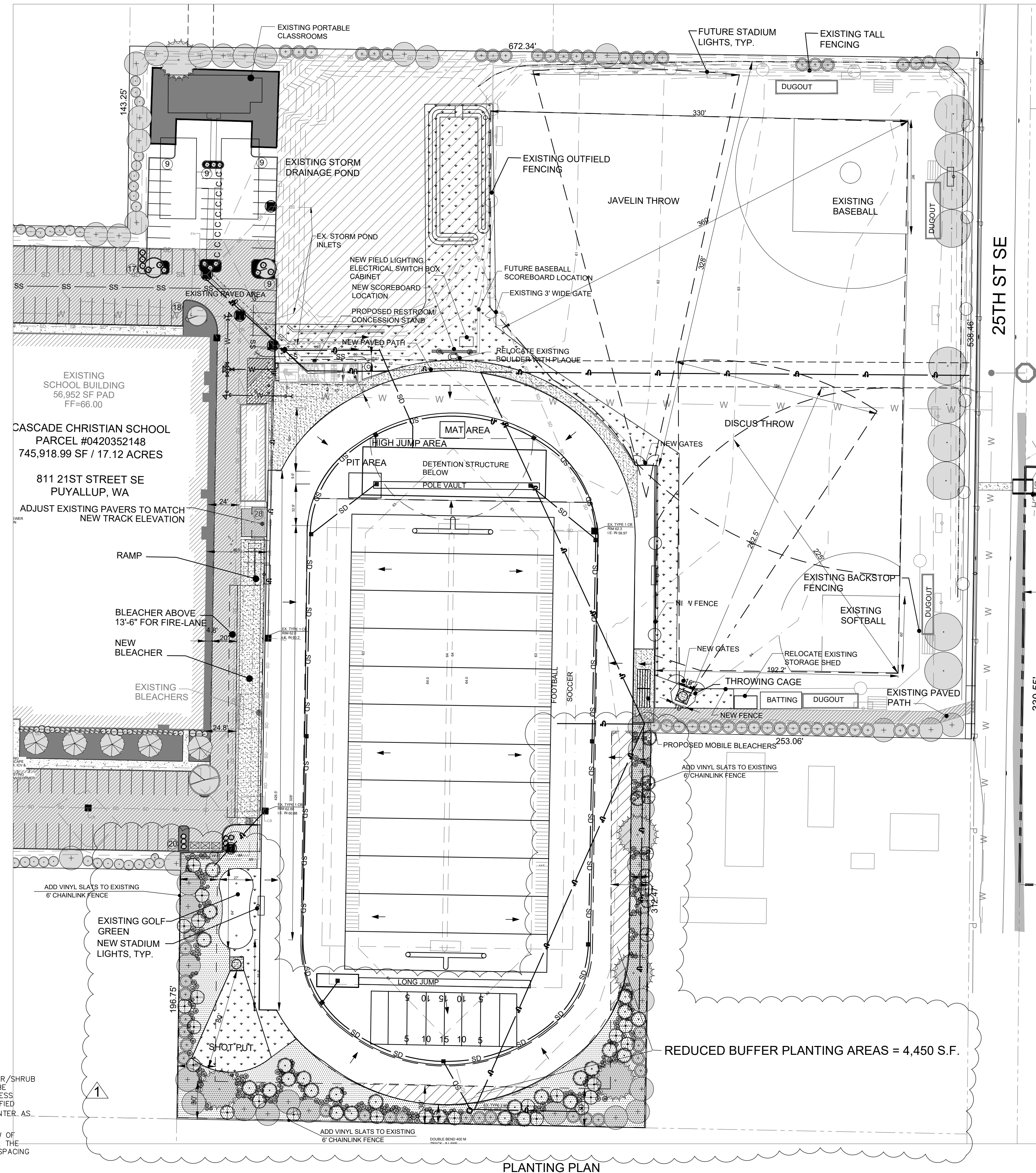
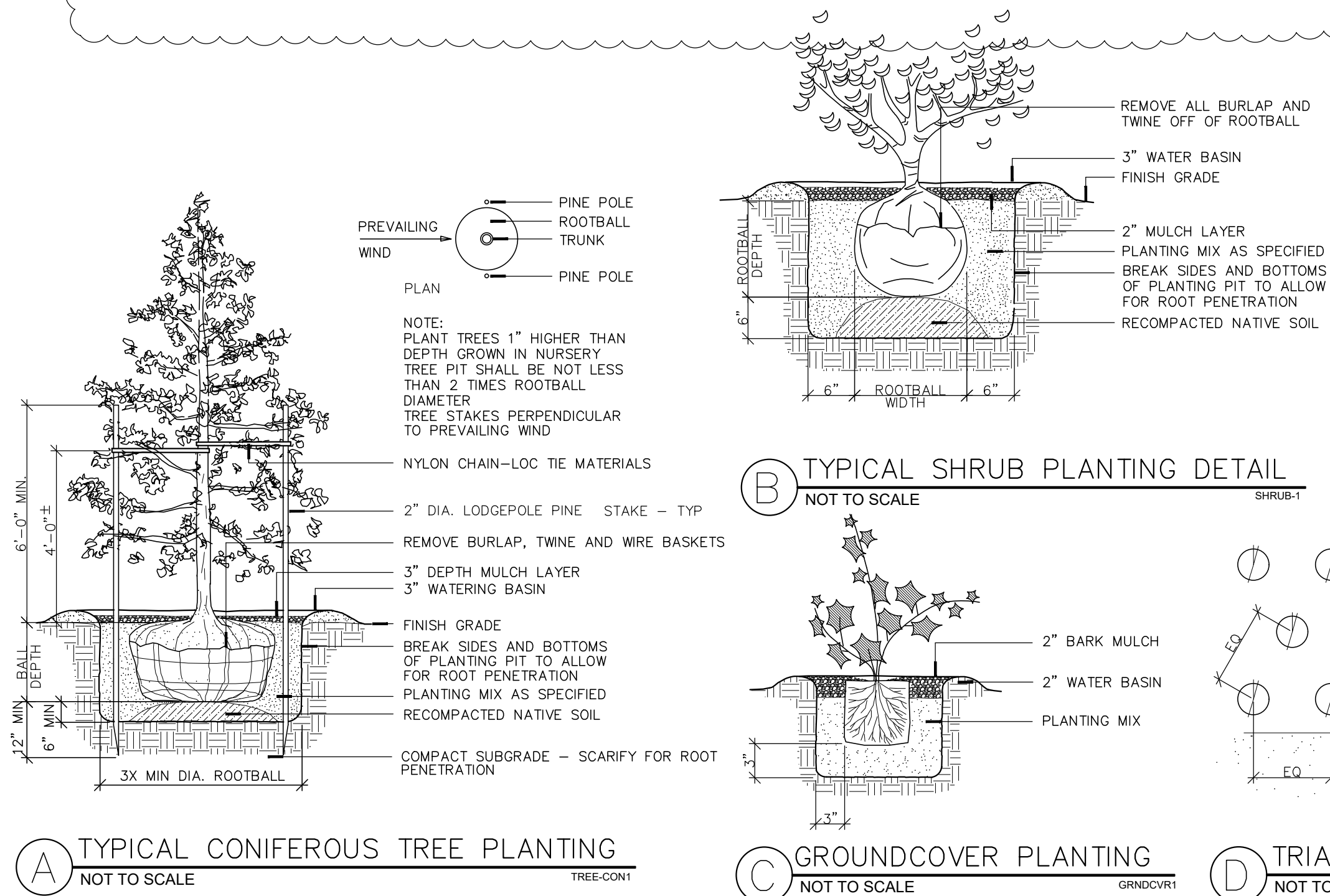
SYMBOL	PLANT TYPE	SIZE AT PLANTING	SPACING	NATIVE / ADAPTIVE	QUAN.
TREES					
	EXISTING EVERGREEN SCREEN VEGETATION TO SAVE AND PROTECT				
	THUJA PLICATA / WESTERN RED CEDAR	10' HT., B&B	10'-0" O.C.	YES	30
	PSEUDOTSUGA MENZIESII / DOUGLAS FIR	10' HT., B&B	10'-0" O.C.	YES	28
SHRUBS					
	RIBES SANGUINEUM / RED FLOWERING CURRANT	24" HT., 3 GAL	4'-0" O.C.	YES	100
	POLYSTICHUM MUNIUM / SWORD FERN	2 GAL	3'-0" O.C.	YES	167
GROUNDCOVERS					
	HYDROSEEDED LAWN				15,000 S.F.
	MAHONIA REPENS / CREEPING MAHONIA	4" CONTAINER	1'-6" O.C.	YES	12,120

NOTES

- ALL NEW PLANTING SHALL BE INSTALLED AS PER INSTALLATION STANDARDS DESCRIBED IN CITY OF PUYALLUP MUNICIPAL CODES.
- ALL NEW SEEDED AREAS SHALL RECEIVE MINIMUM 3" OF IMPORTED ORGANIC COMPOST TILLED INTO THE TOP 8" OF EXISTING STOCKPILED SOIL AS REQUIRED TO ACHIEVE 10% ORGANIC CONTENT (DRY WEIGHT). NEW AND EXISTING SCREENING TREE AREAS SHALL HAVE MINIMUM 3" OF WOOD CHIP MULCH APPLIED.
- ALL NEW PLANTING AREAS SHALL BE IRRIGATED BY AUTOMATIC IRRIGATION SYSTEM DURING ESTABLISHMENT PERIOD.
- ALL NEW TREES TO BE PLANTED AT A MINIMUM DISTANCE OF 10' FROM ALL EXISTING AND PROPOSED UTILITIES.

BUFFER PLANTING CALCULATION

- 30' BUFFER PLANTING AREA REQUIRED = 24,600 S.F.
- BUFFER PLANTING AREA PROPOSED = 23,675 S.F.
- REDUCED BUFFER PLANTING AREAS = 4,450 S.F.
- TOTAL ADDITIONAL PLANTING =
TREES: 20
SHRUBS: 60
GROUNDCOVERS: 2,278



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E: jgm@jgm-inc.com

CASCADE CHRISTIAN
ATHLETIC FIELDS
PUYALLUP, WA

REVISIONS/DRAWING ISSUES:
11-28-2023

Drawn by:
Checked by:

STATE OF WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT
Luiz D. Reis
CERTIFICATE NO. 442

DATE: 3-28-2022
LAST UPDATE:
CAD FILE:

DRAWING TITLE

PLANTING PLAN

SHEET NUMBER

L6.0

IRRIGATION SCHEDULE:

MANUFACTURER / MODEL # DESCRIPTION
 HUNTER 1-25 PLUS SERIES ROTARY SPRINKLER -3-1/2" STEEL POP-UP, PLASTIC BODY, 51' RADIUS AT 50 PSI; HALF CIRCLE HEAD NOZZLE #10 -, 47' RADIUS AT 30 PSI QUARTER CIRCLE NOZZLE #7. INSTALL ON LASCO GASKETED TRIPLE SWING JOINT AS DETAILED.

HUNTER -ICV FILTER SENTRY AUTOMATIC CONTROL VALVE W/ SCRUBBER FEATURE; ICV-201-FS-R 2" SIZE TYPICAL ALL LOCATIONS. INSTALL AS DETAILED INSIDE VALVE BOX.

3" BRASS OR BRONZE BALL VALVE SHUTOFF. INSTALL ON METERED AND BACKFLOW-PROTECTED CONNECTION TO EXISTING IRRIGATION SYSTEM SUPPLY LINE.

HUNTER HQ44-LRC: 1" QUICK COUPLING VALVE WITH LOCKING RUBBER COVER. INSTALL AS DETAILED ON TRIPLE SWING JOINT.

EXISTING 1-1/2" WATER METER FOR IRRIGATION. VERIFY LOCATION.

EXISTING BACKFLOW PROTECTION ASSEMBLY AND IRRIGATION SUPPLY MAINLINE. INSTALL STUBOUT AND BALL VALVE SHUTOFF ON NEW PRESSURE MAINLINE SUPPLY TO IRRIGATION VALVES AS DETAILED.

EXISTING IRRIGATION CONTROLLER. VERIFY SPARE CONTROL VALVE WIRING STUBOUTS.

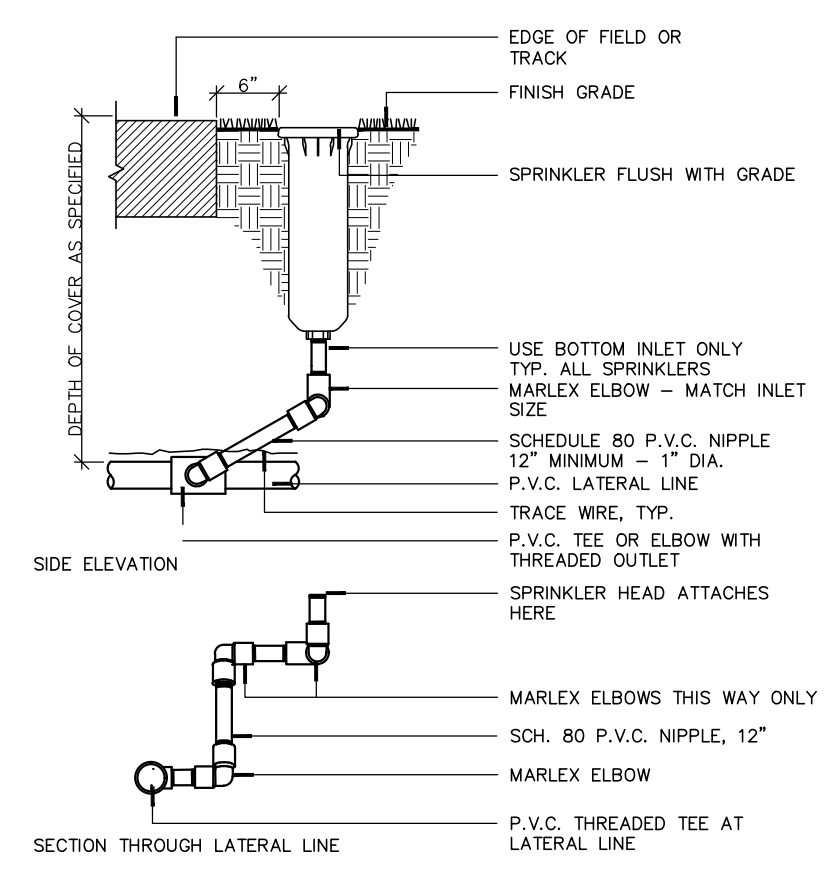
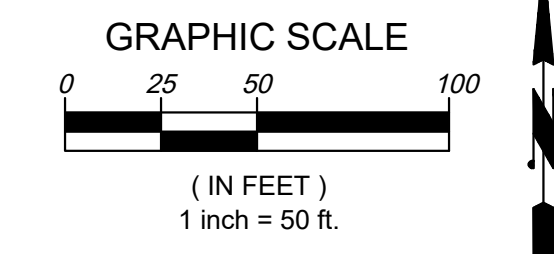
PRESSURE MAINLINE - PVC SCHEDULE 40; MINIMUM SIZE 3", SIZES AS NOTED ON PLAN. MINIMUM 24" COVER OVER ALL PIPING.

LATERAL LINES - PVC SCHEDULE 40; MINIMUM SIZE 1", SIZES AS NOTED ON PLAN. MINIMUM 18" COVER OVER ALL PIPING.

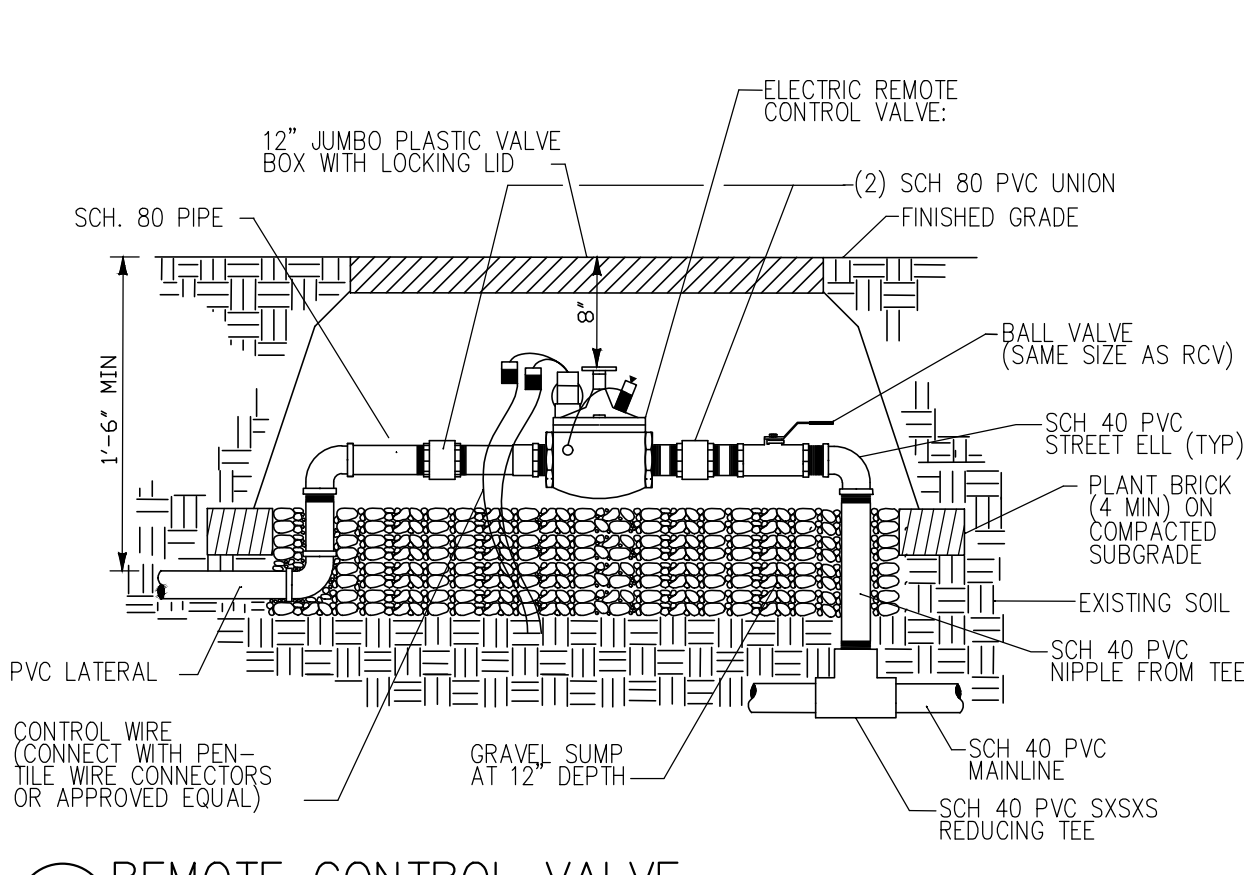
SLEEVING - PVC SCHEDULE 40, MINIMUM SIZE SHALL BE TWICE INSERT PIPE DIAMETER. ALLOW SPACE FOR VALVE WIRING. MINIMUM 24" COVER OVER ALL PIPING.

INDICATES ZONE
INDICATES GALLONS PER MINUTE

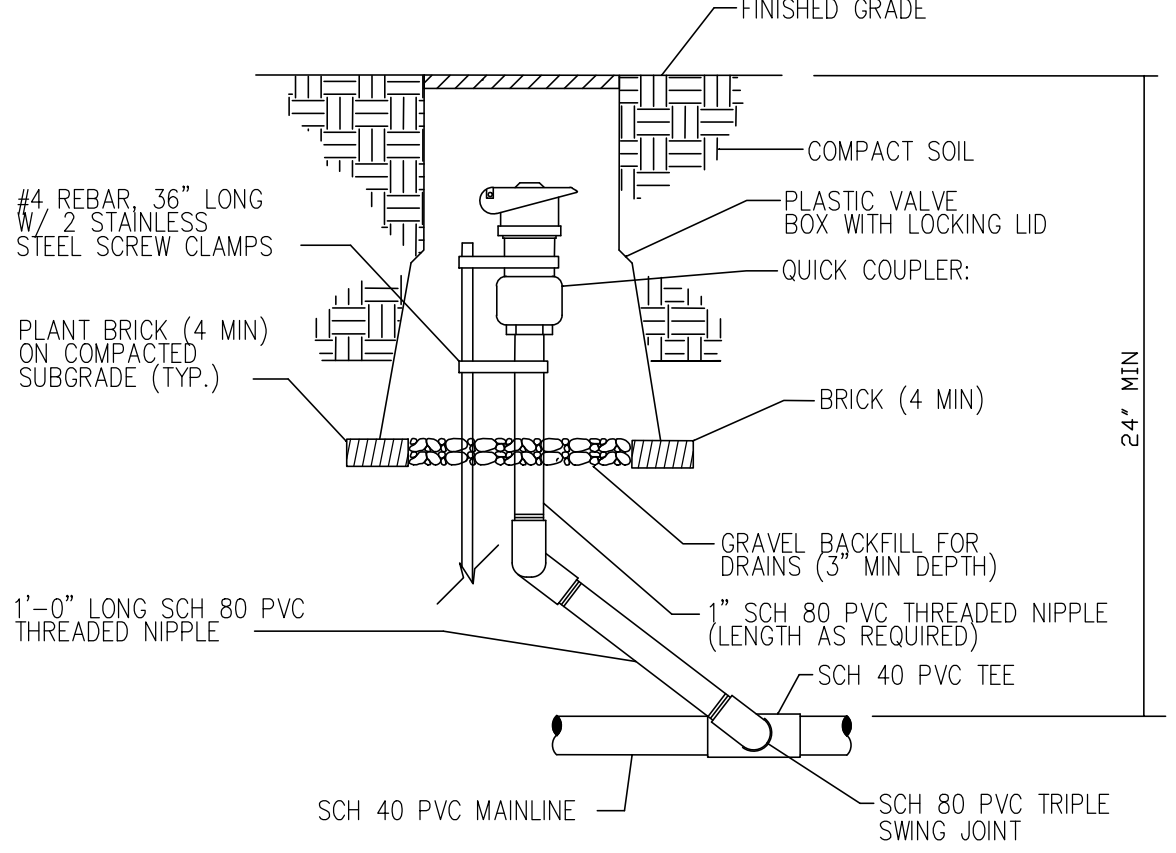
NOTES:
 VERIFY MINIMUM 70 PSI STATIC PRESSURE AT POINT OF CONNECTION TO EXISTING METERED IRRIGATION SUPPLY LINE PRIOR TO BEGINNING WORK.



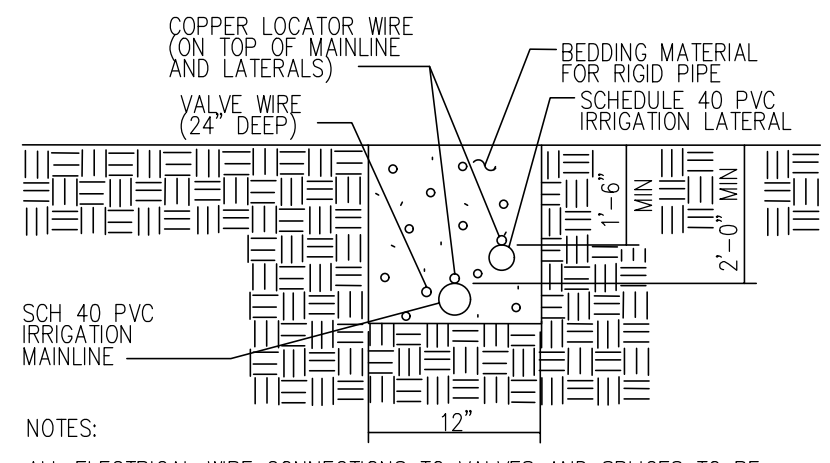
A TYPICAL ROTOR POP-UP HEAD
NOT TO SCALE



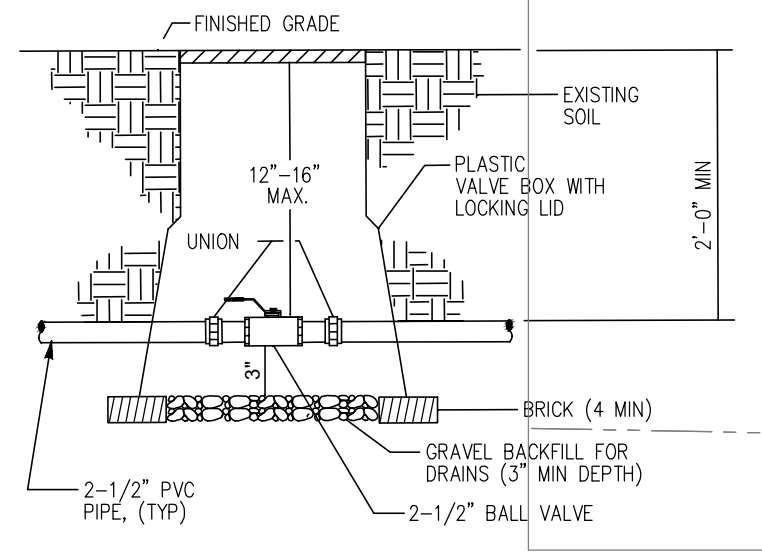
B REMOTE CONTROL VALVE
NOT TO SCALE



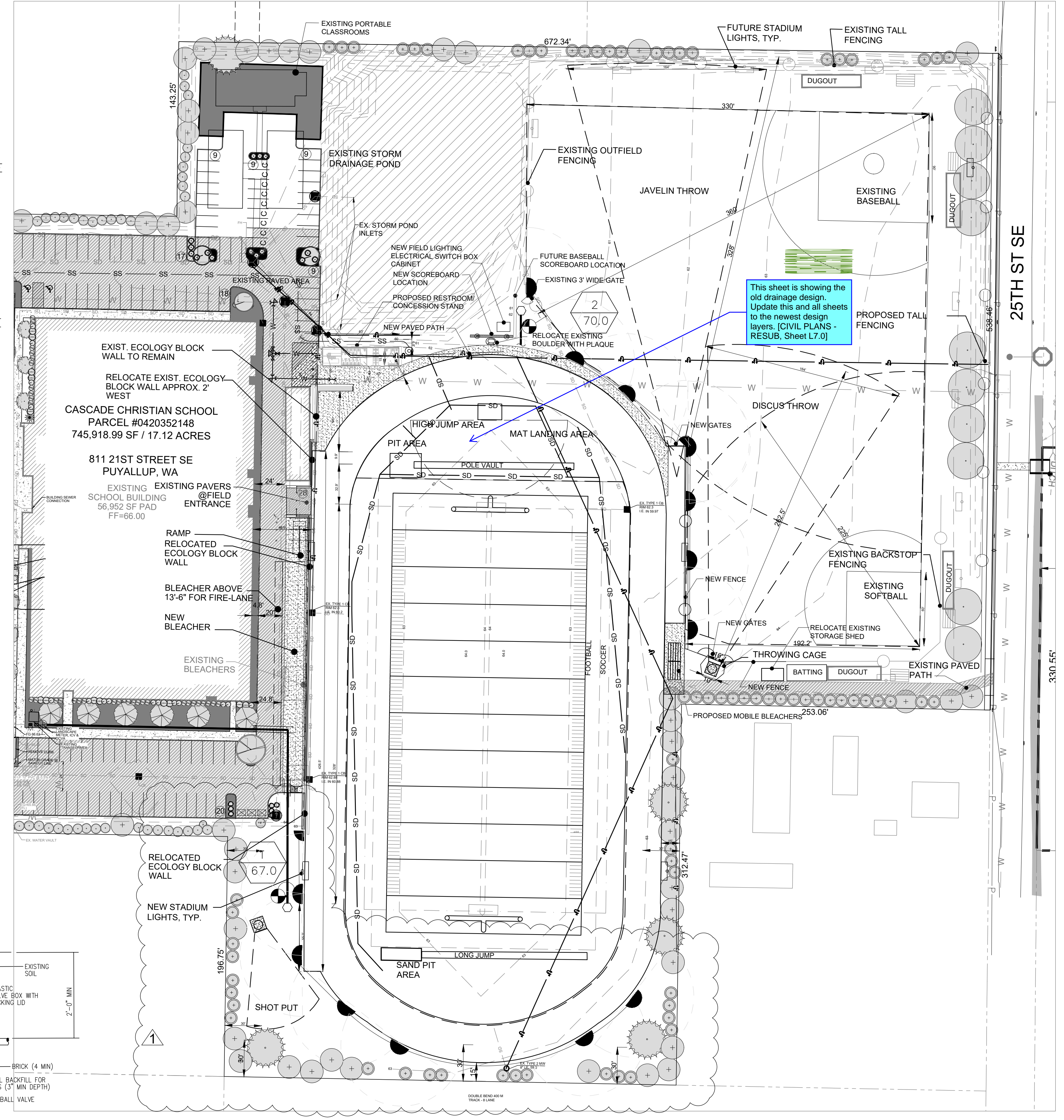
C TYPICAL QUICK COUPLER
NOT TO SCALE



D TYPICAL IRRIGATION TRENCH
NOT TO SCALE



E TYPICAL BALL VALVE
NOT TO SCALE



This sheet is showing the old drainage design. Update this and all sheets to the newest design layers. [CIVIL PLANS - RESUB, Sheet L7.0]

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 INCORPORATED P.S.
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 E: jgm@jgm-inc.com

CASCADE CHRISTIAN ATHLETIC FIELDS PUYALLUP, WA

REVISIONS/DRAWING ISSUES:
 1 2-1-2023

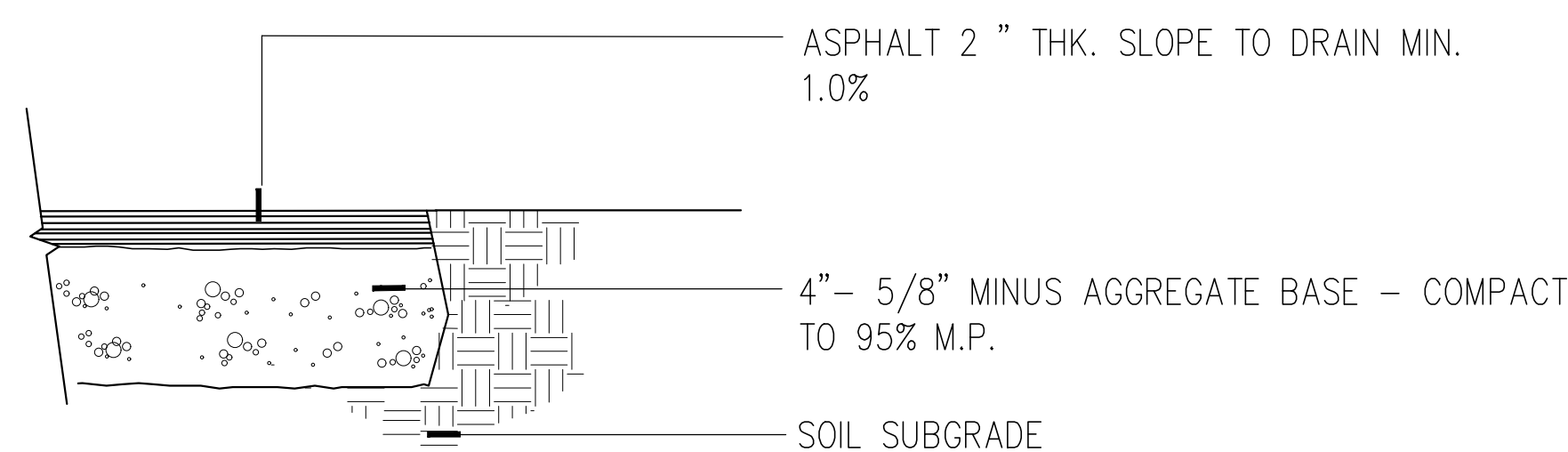
Drawn by:
 Checked by:

STATE OF WASHINGTON REGISTERED LANDSCAPE ARCHITECT
Wing A. Reis
 CERTIFICATE NO. 442

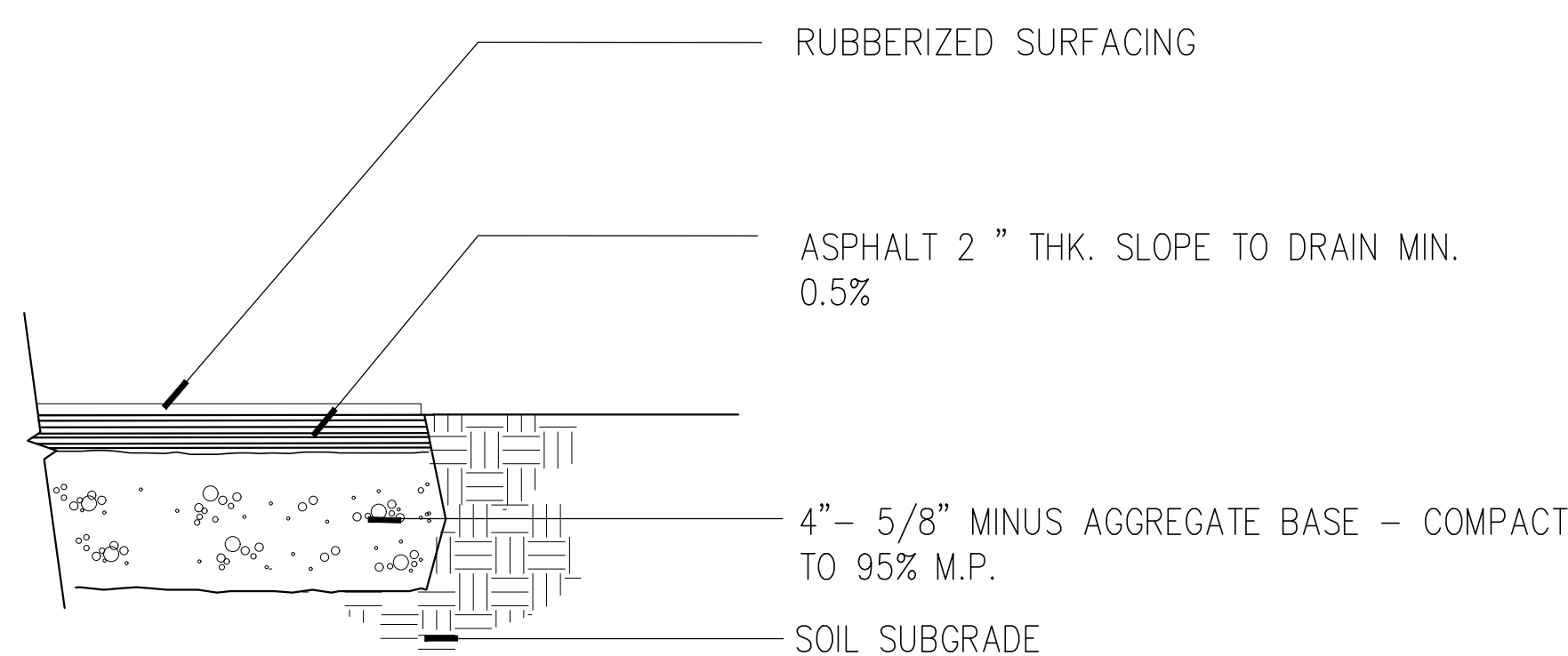
DATE: 3-28-2022
 LAST UPDATE:
 CAD FILE:

DRAWING TITLE
IRRIGATION PLAN

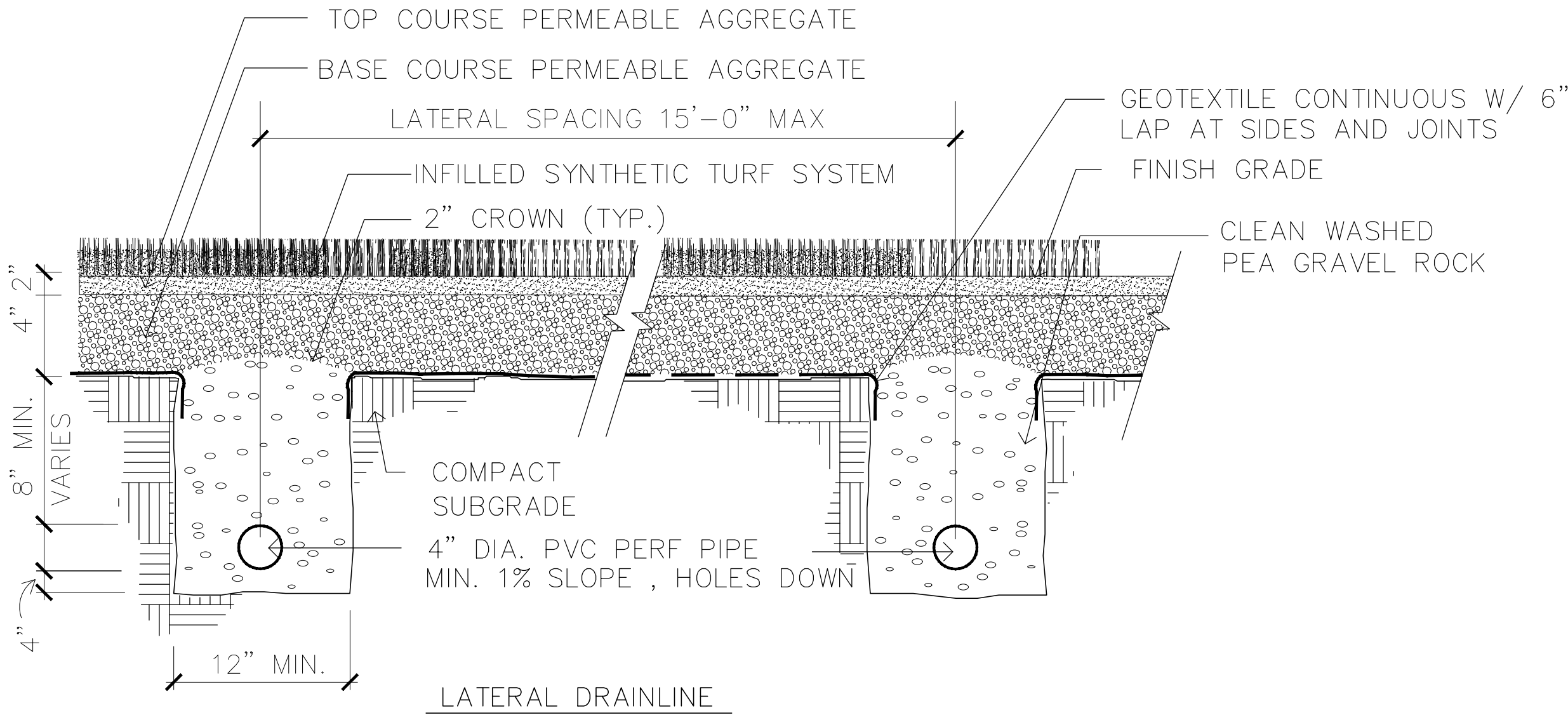
SHEET NUMBER
L7.0



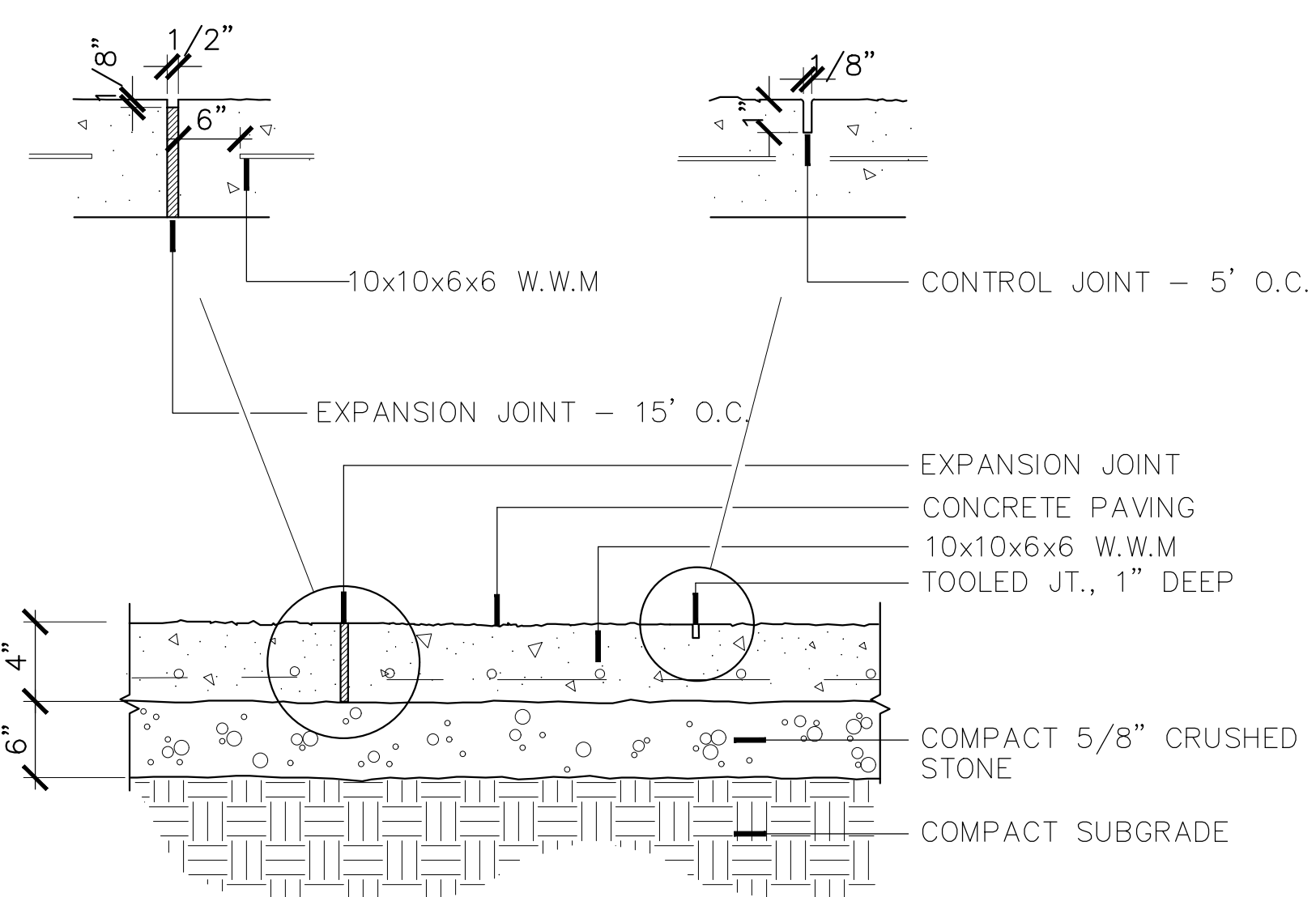
A ASPHALT PATH



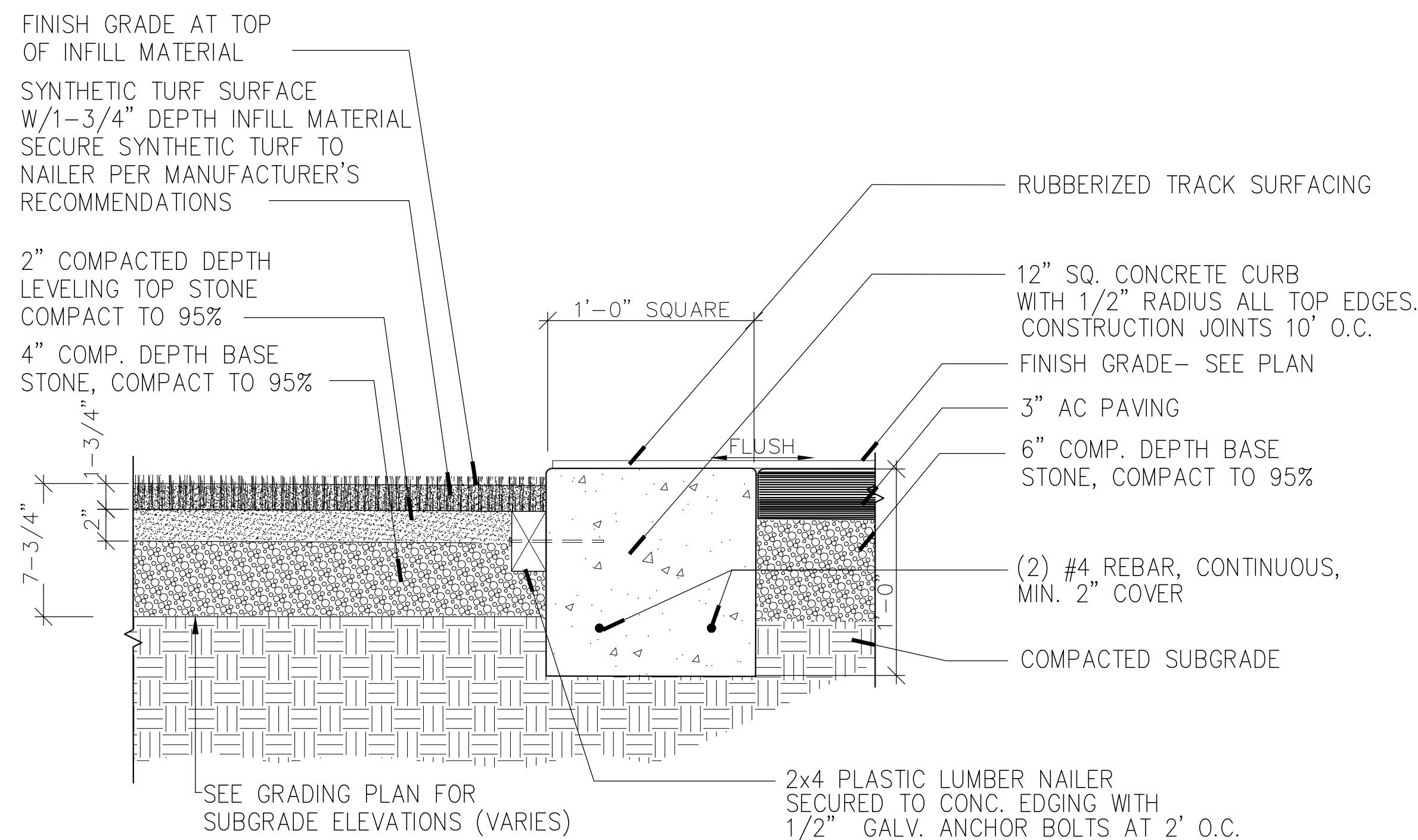
B ASPHALT PATH



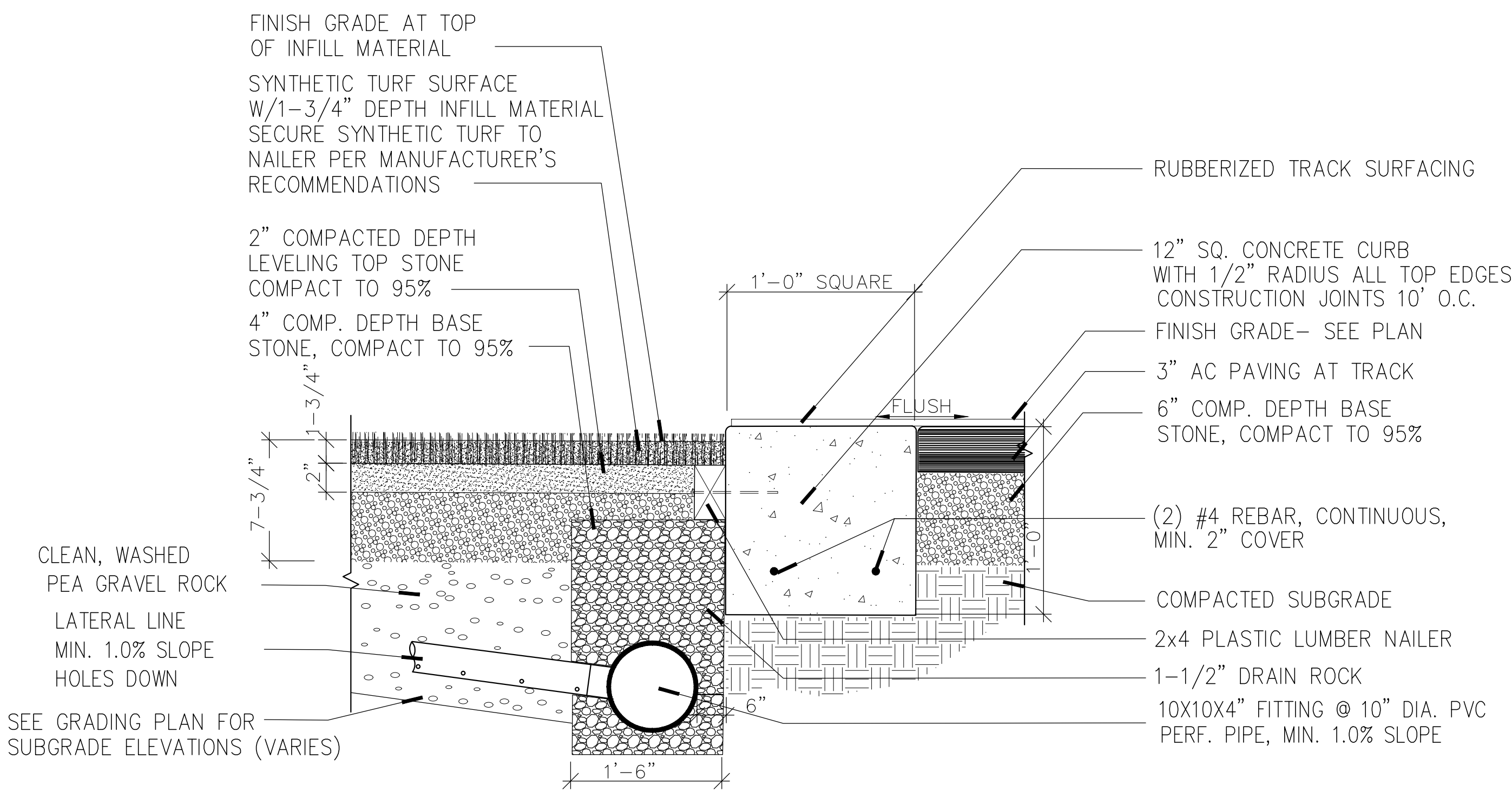
C TURF FIELD SUBDRAINAGE SECTION
NOT TO SCALE



D TYPICAL CONCRETE PAVING
NOT TO SCALE PAV-CPNC2



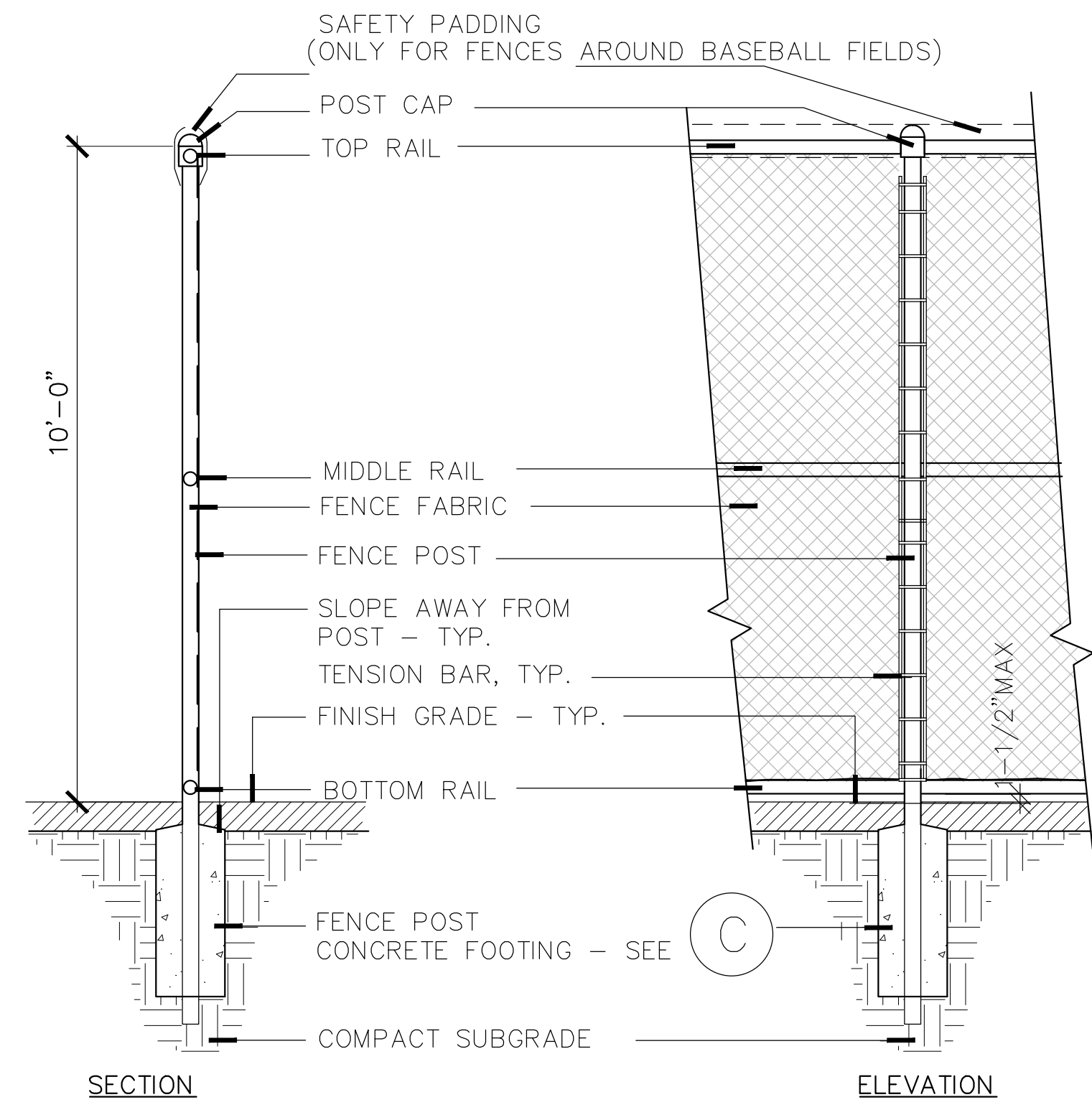
E SYNTH. TURF EDGE WITH FLUSH CONC. CURB
NOT TO SCALE SYNTH.TURF-FLUSH CONC.CURB



F SYNTH. TURF EDGE WITH DRAINLINE COLLECTOR
NOT TO SCALE SYNTH.TURF-DRAIN COLLECTOR

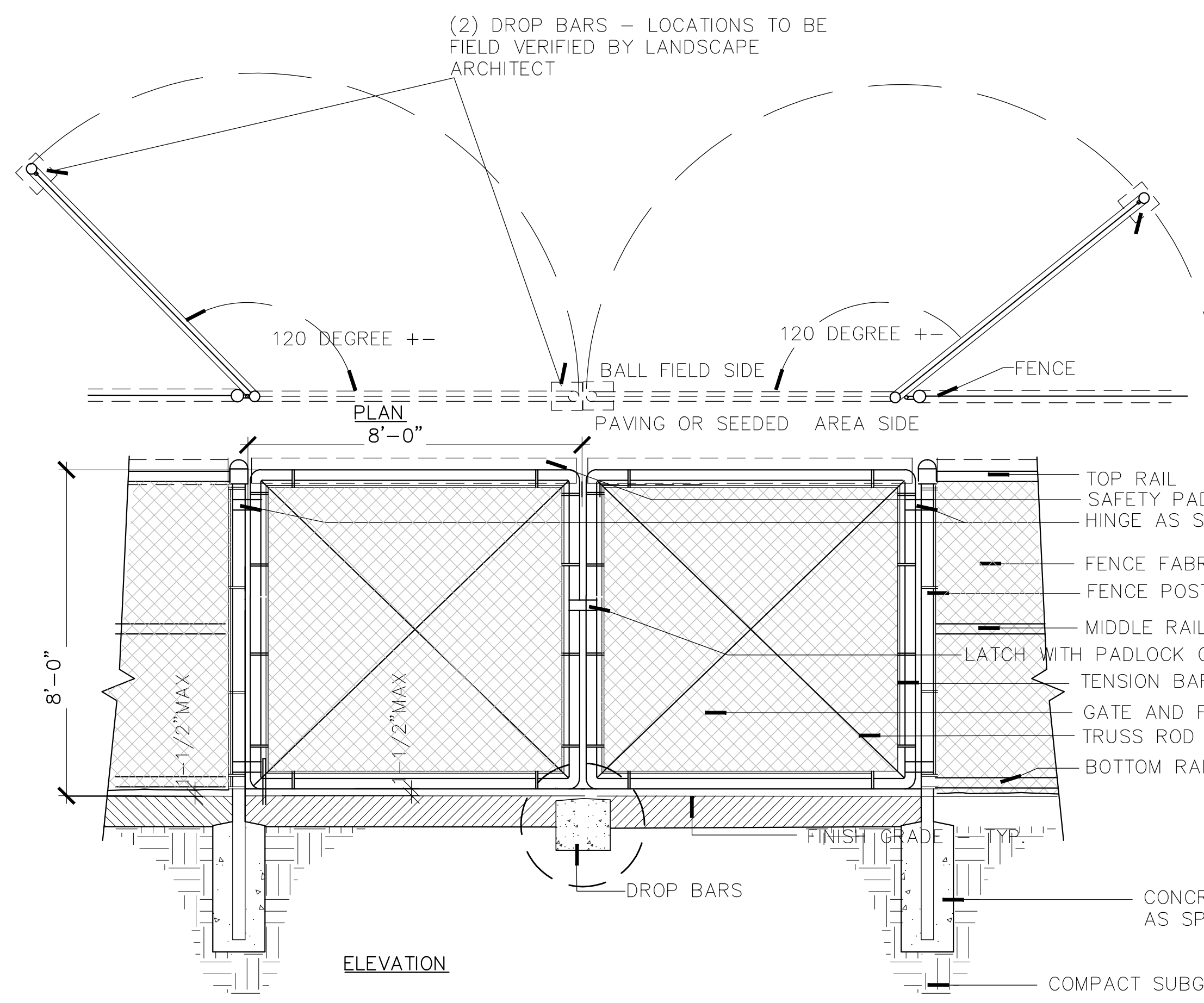
REVISIONS/DRAWING ISSUES:

Drawn by:
Checked by:



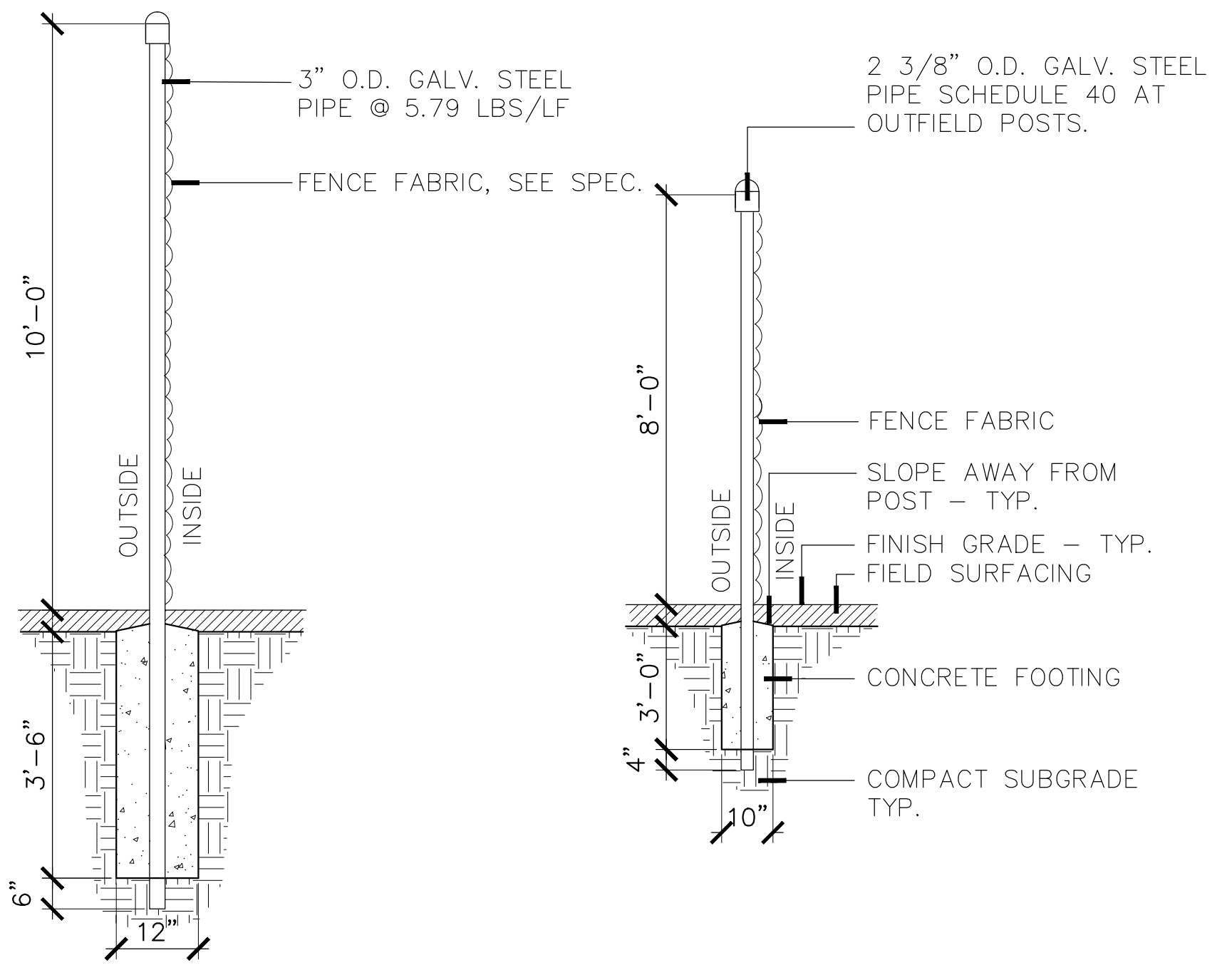
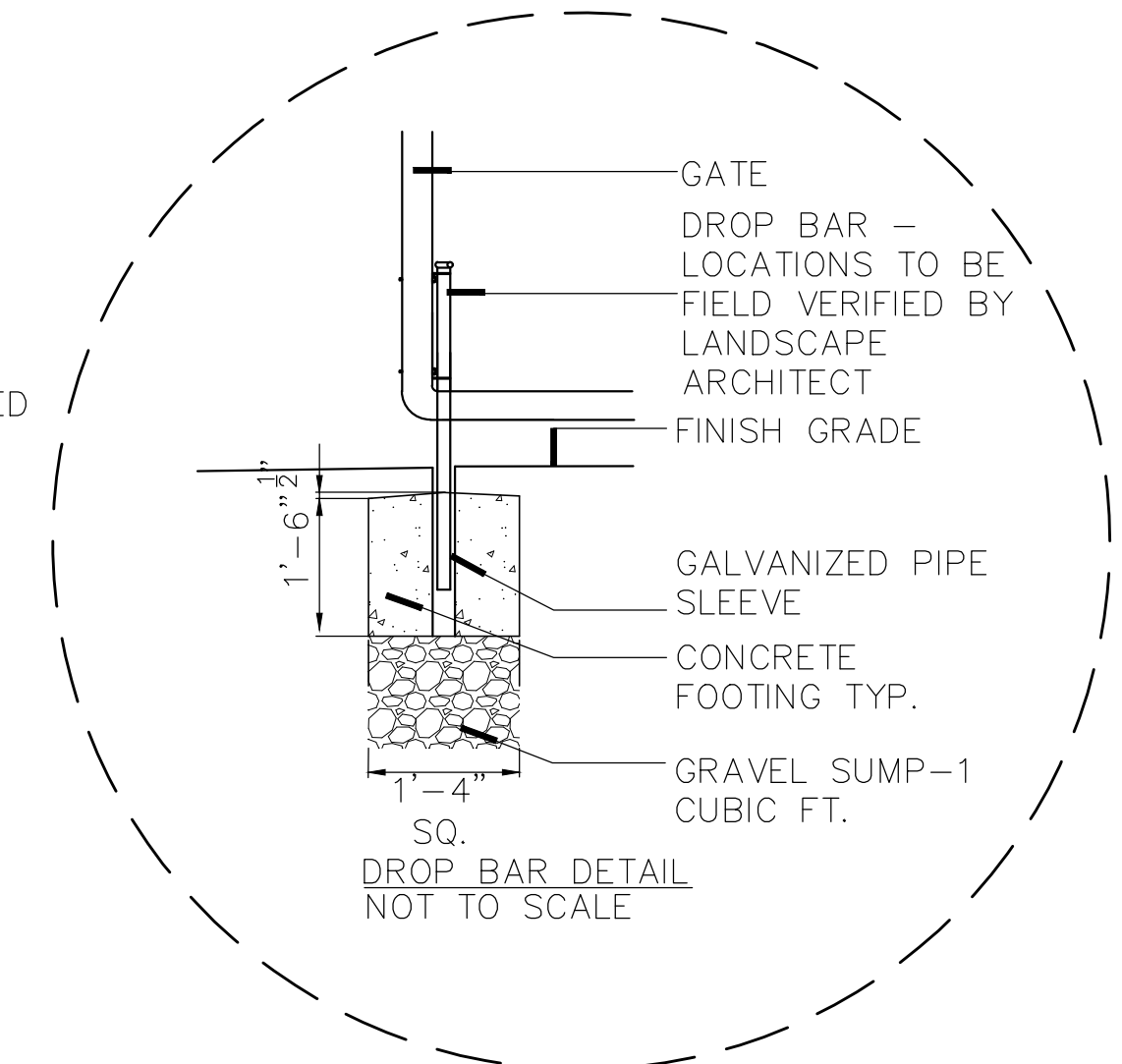
NOTES:
 1. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 2. REFER TO PLANS FOR FENCE LOCATIONS AND DIMENSIONS.

A CHAINLINK FENCE- 10' HIGH
 NOT TO SCALE

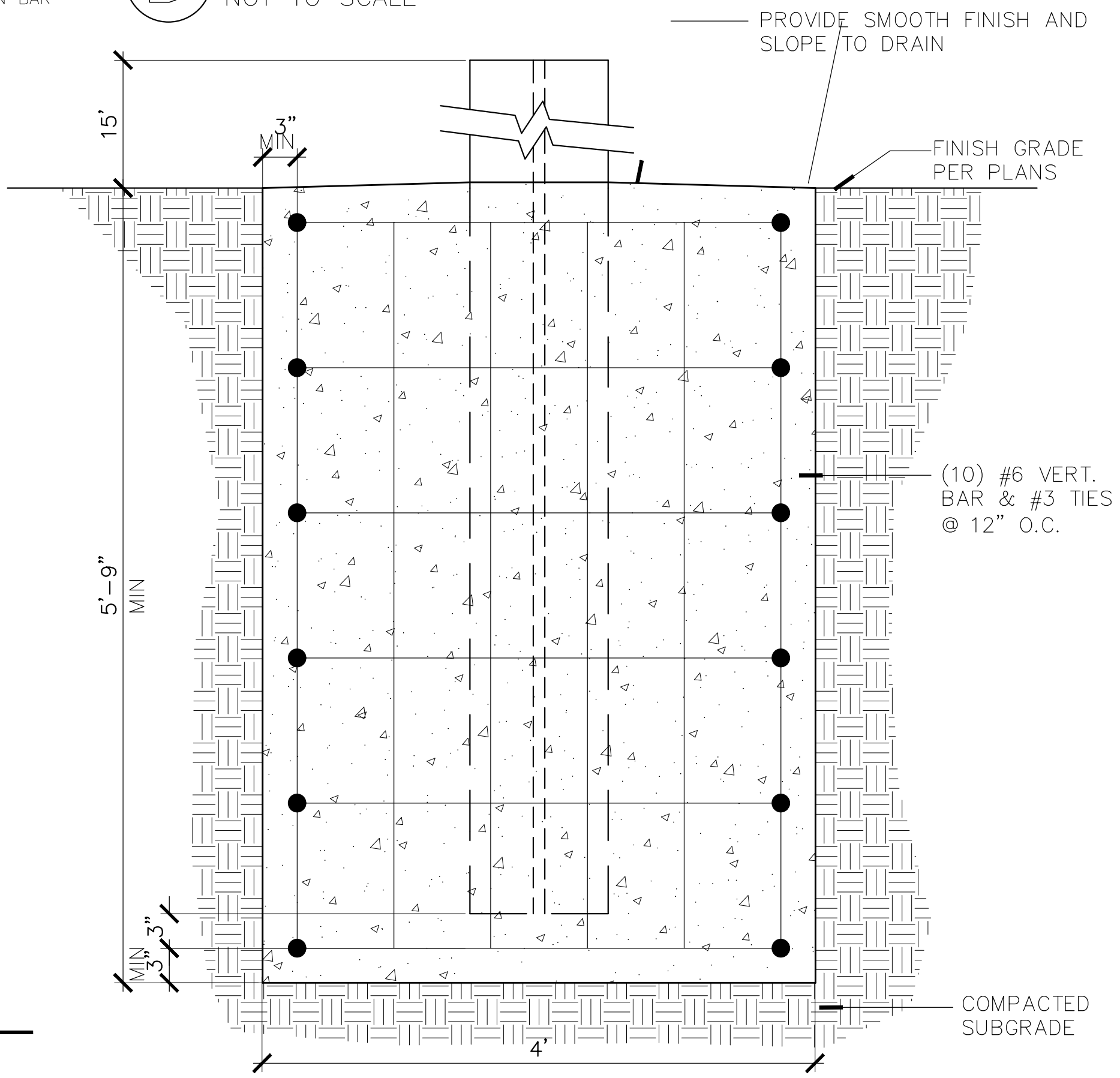


NOTES:
 1. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 2. REFER TO PLANS FOR FENCE LOCATIONS AND DIMENSIONS.

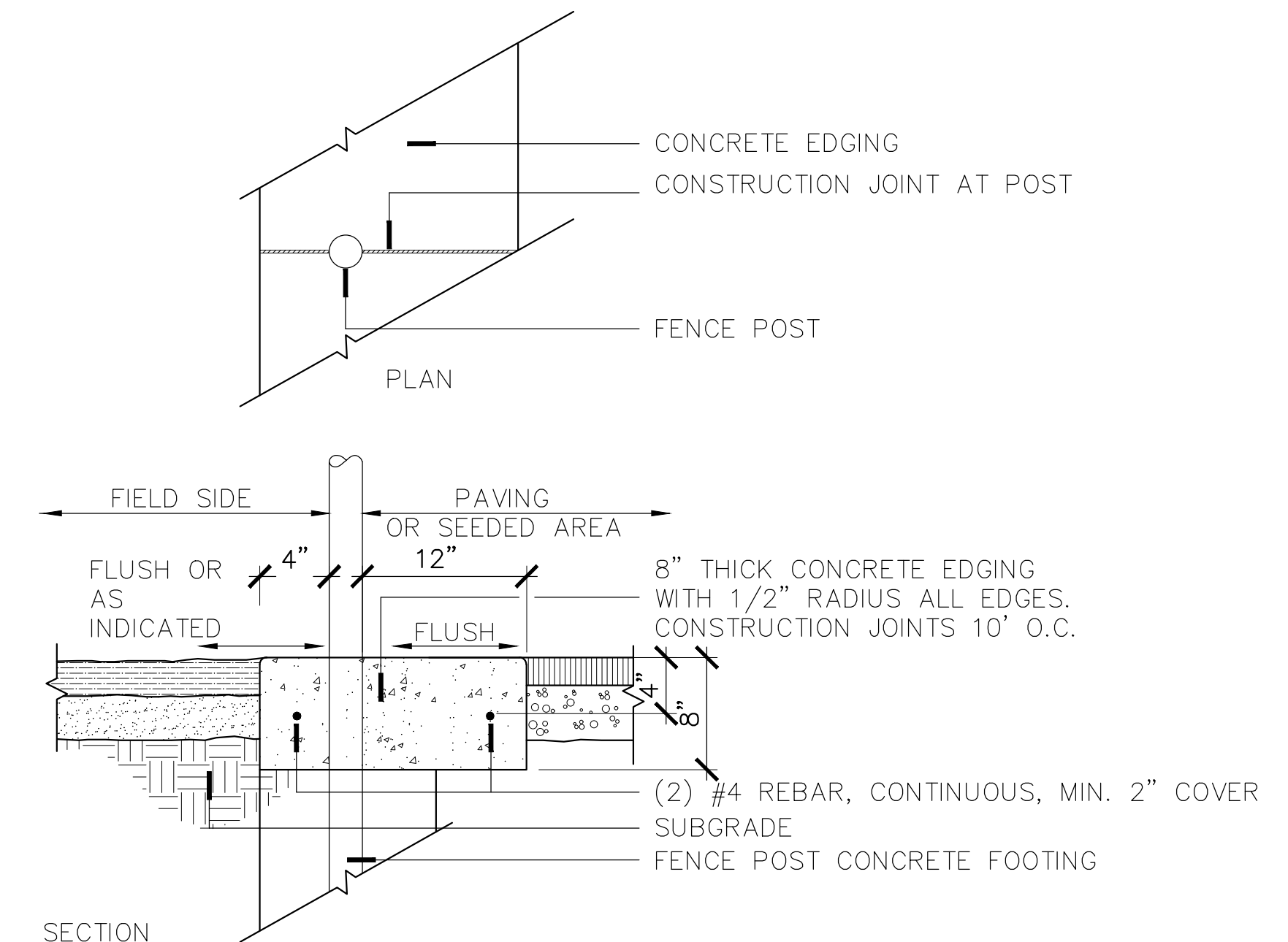
B 8' HT. DOUBLE SWUNG CHAINLINK GATE
 NOT TO SCALE



C TYPICAL LINE POST SETTING
 NOT TO SCALE



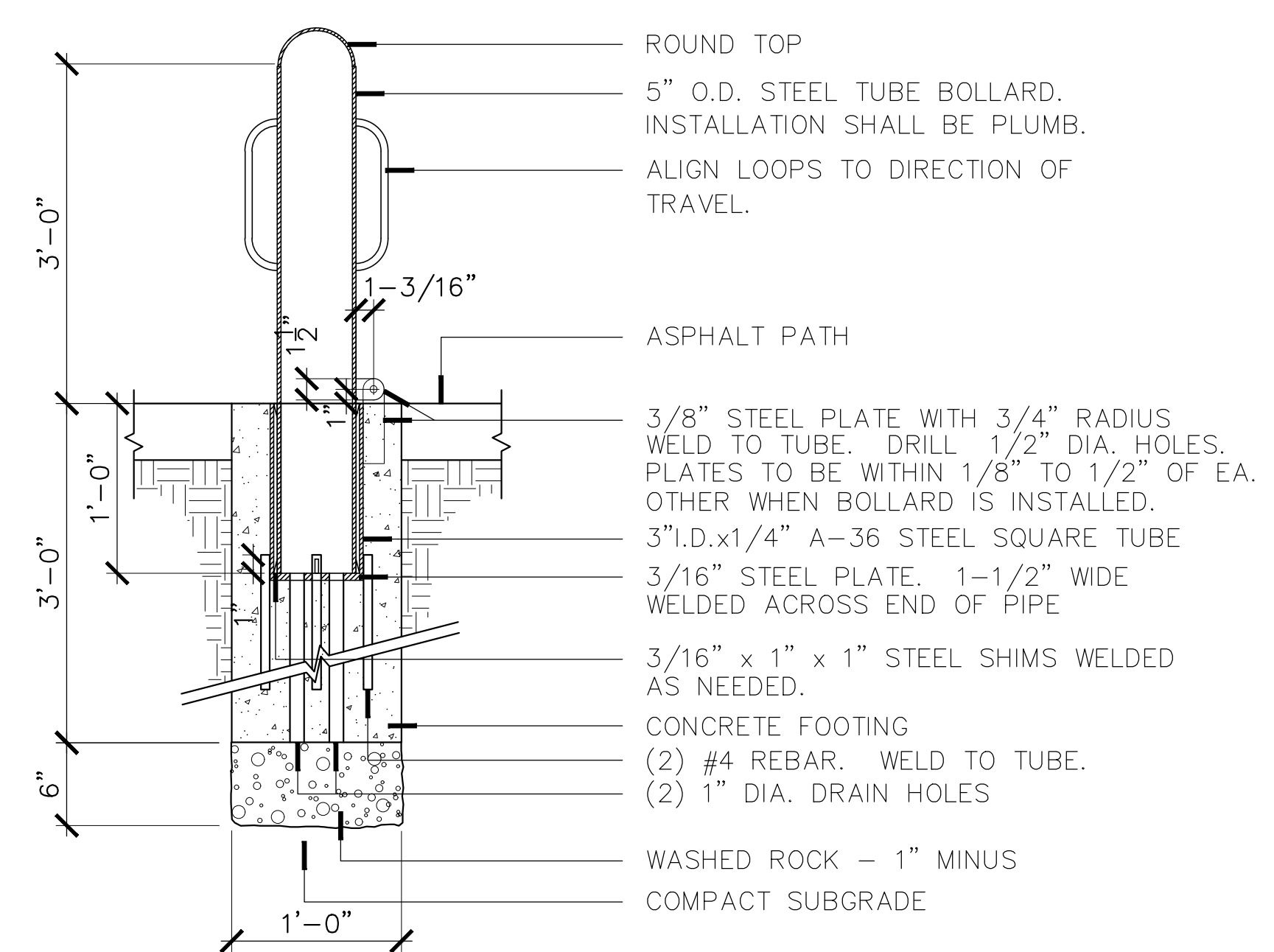
D SCOREBOARD AND FOOTBALL GOAL POST FOOTING & POST
 NOT TO SCALE



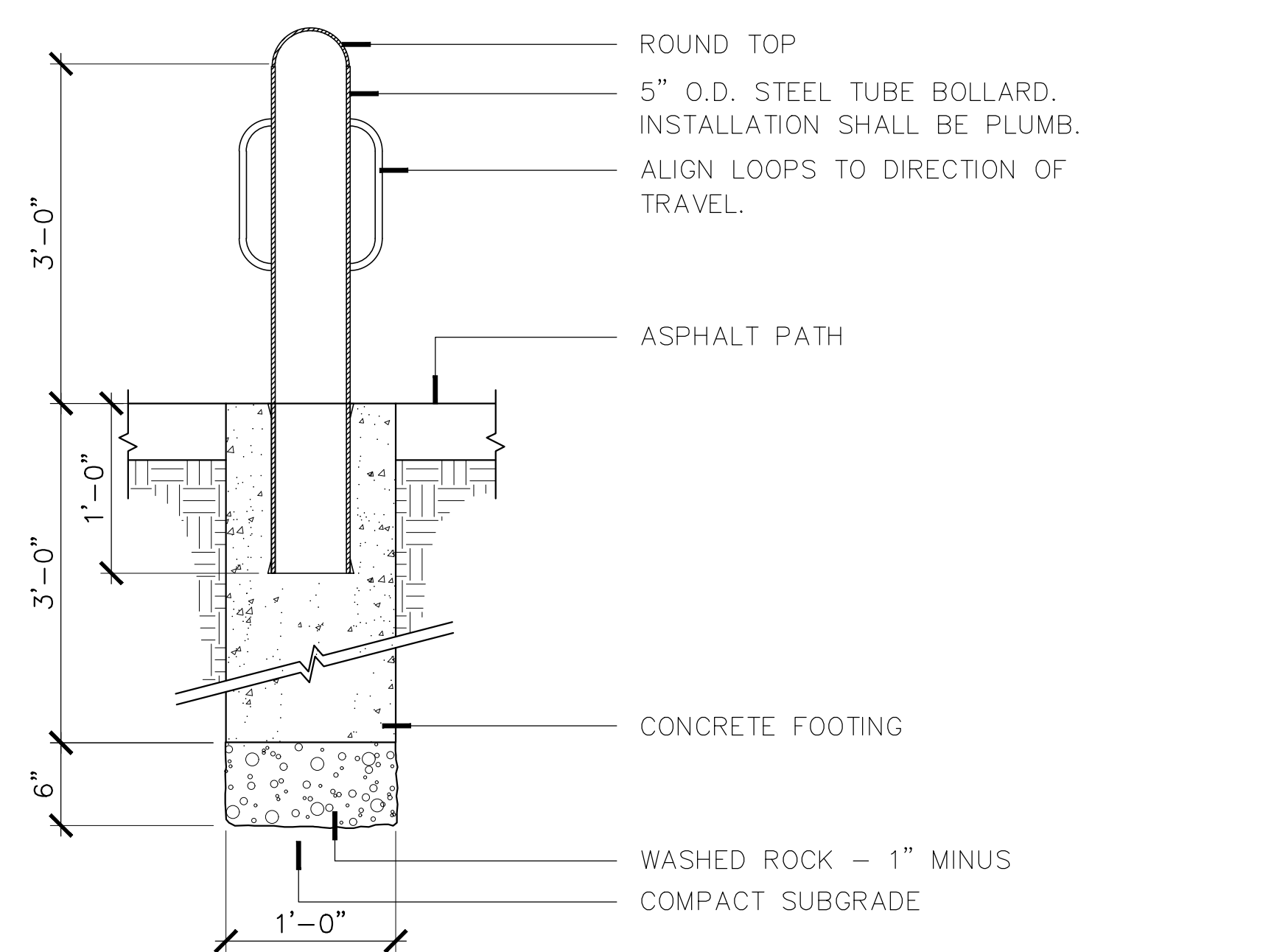
E TYPICAL CONCRETE EDGING
 NOT TO SCALE

REVISIONS/DRAWING ISSUES:

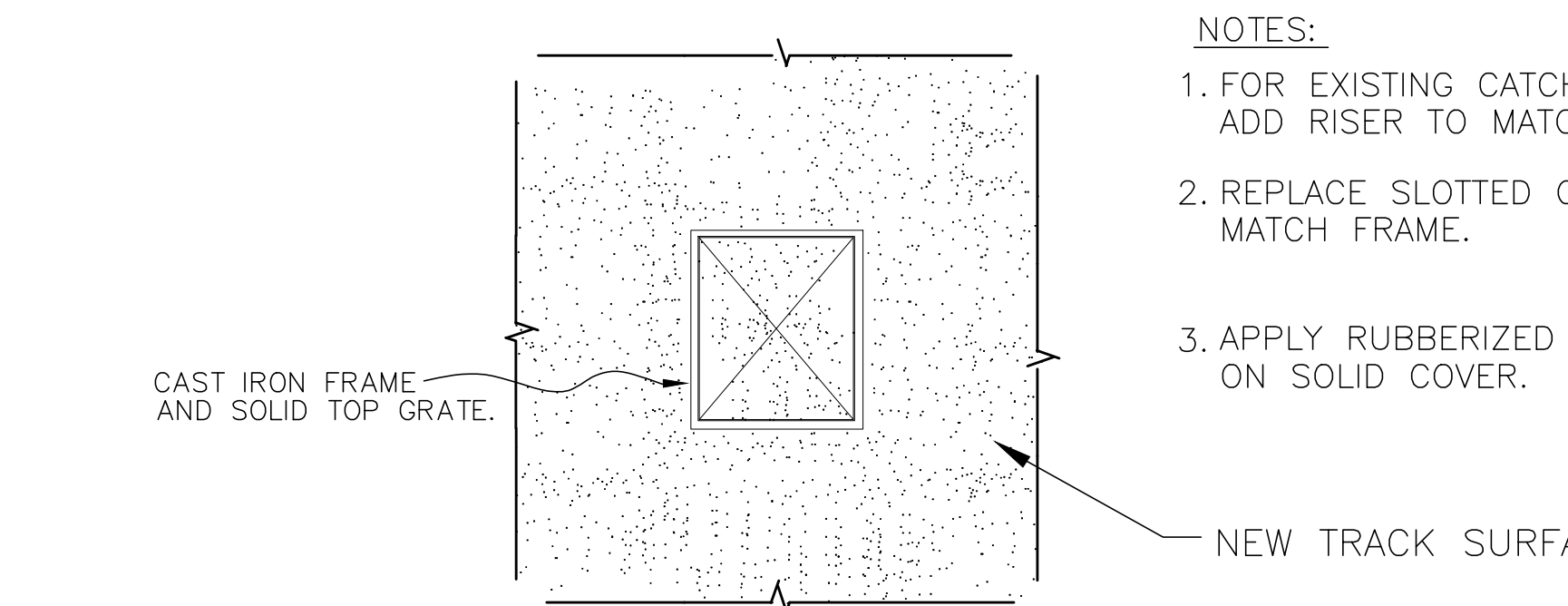
Drawn by:
 Checked by:



A TYPICAL REMOVABLE BOLLARD
 SCALE: 1" = 1'-0"
 BOLRD-REM2

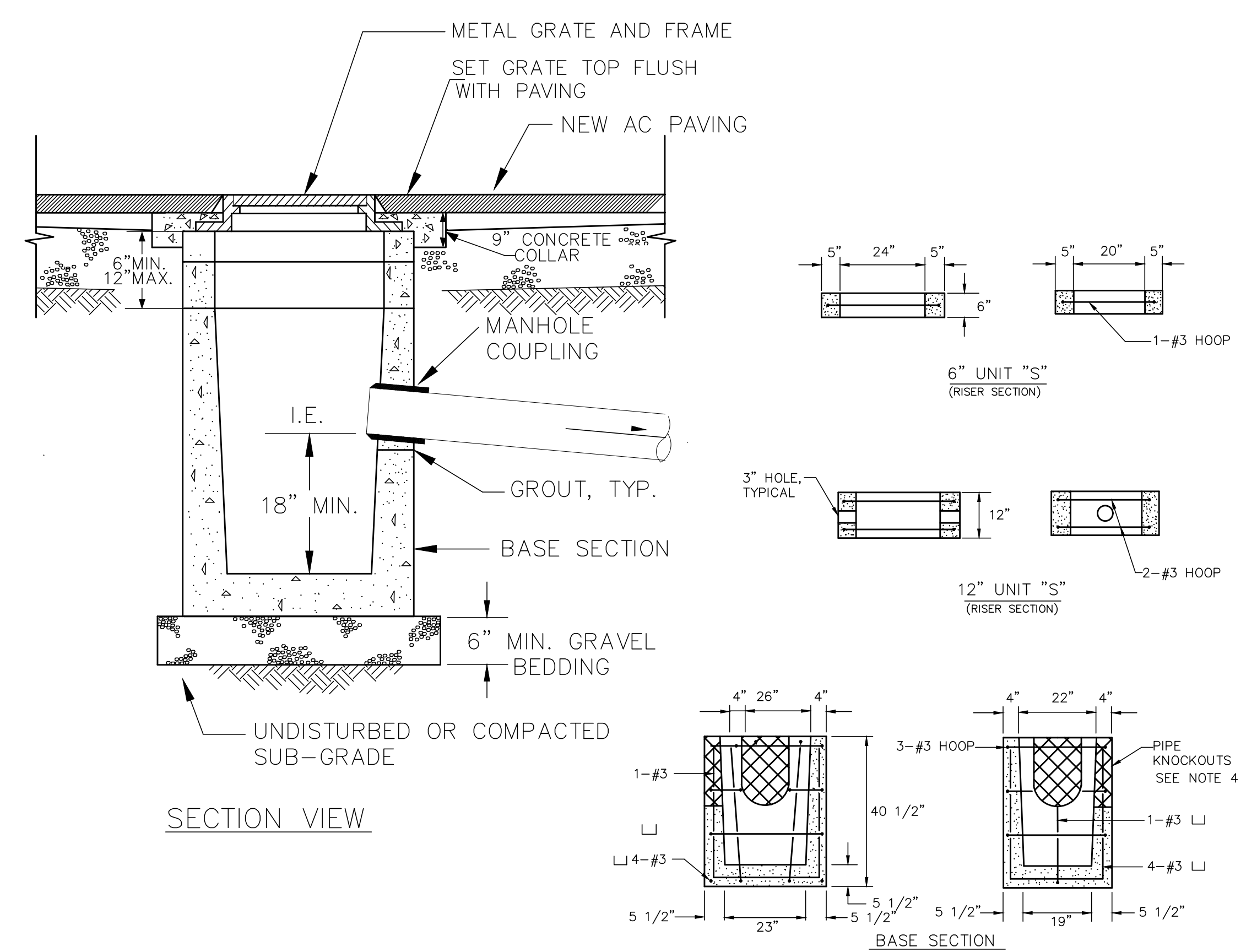


B TYPICAL FIXED BOLLARD
 SCALE: 1" = 1'-0"
 BOLRD-REM2



C TYPICAL RUBBERIZED TOP ON CATCH BASIN
 SCALE: 1" = 1'-0"
 CB RUBBER TOP

- NOTES:
1. FOR EXISTING CATCHBASINS IN TRACK AREA ADD RISER TO MATCH RIM WITH FINISH ELEVATION.
 2. REPLACE SLOTTED GRATE WITH SOLID COVER TO MATCH FRAME.
 3. APPLY RUBBERIZED SURFACE TO MATCH TRACK SURFACING ON SOLID COVER.



D TYPICAL TYPE I CATCH BASIN
 SCALE: 1" = 1'-0"
 CB RUBBER TOP

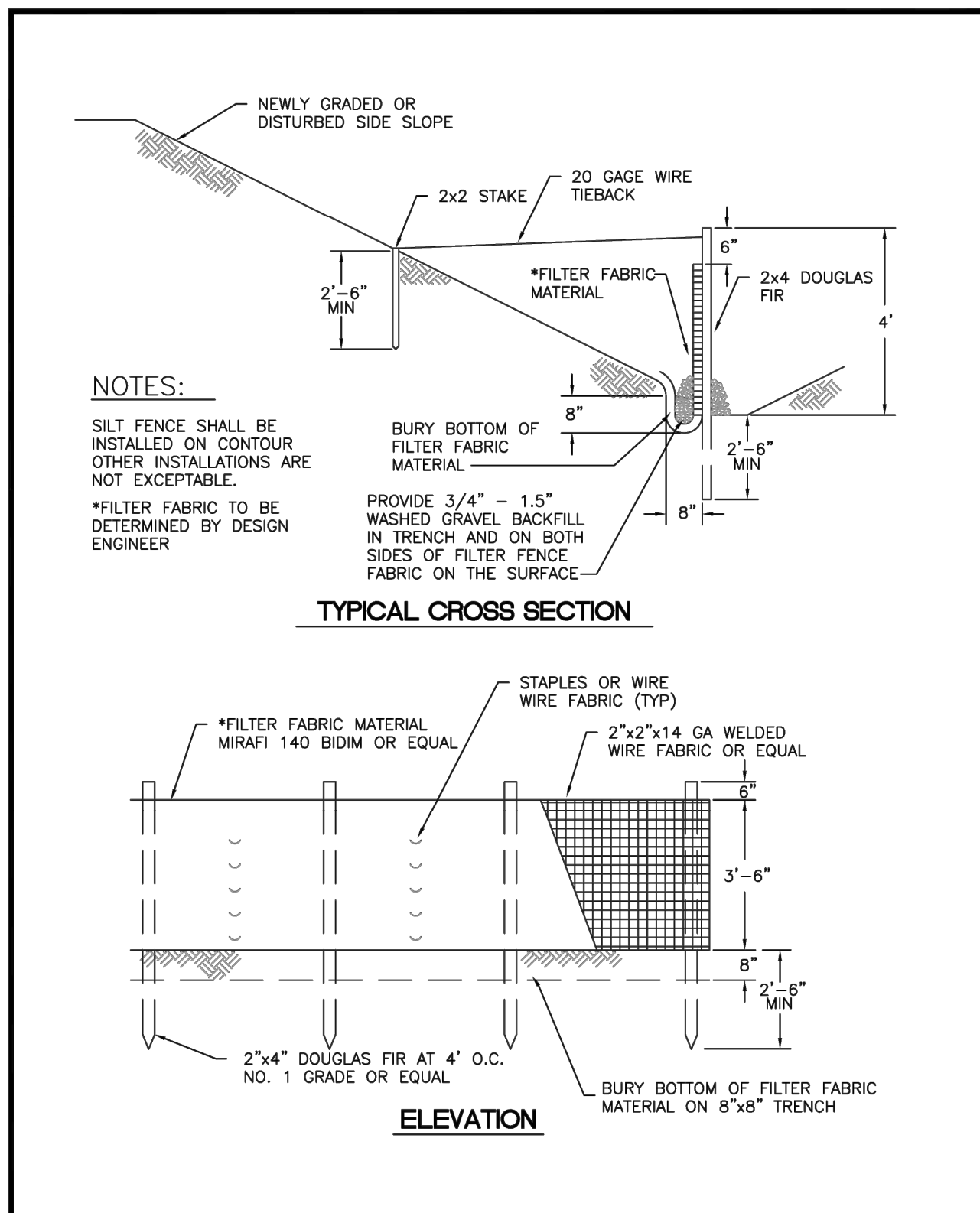
CASCADE CHRISTIAN ATHLETIC FIELDS

CSWPPP NOTES & DETAILS

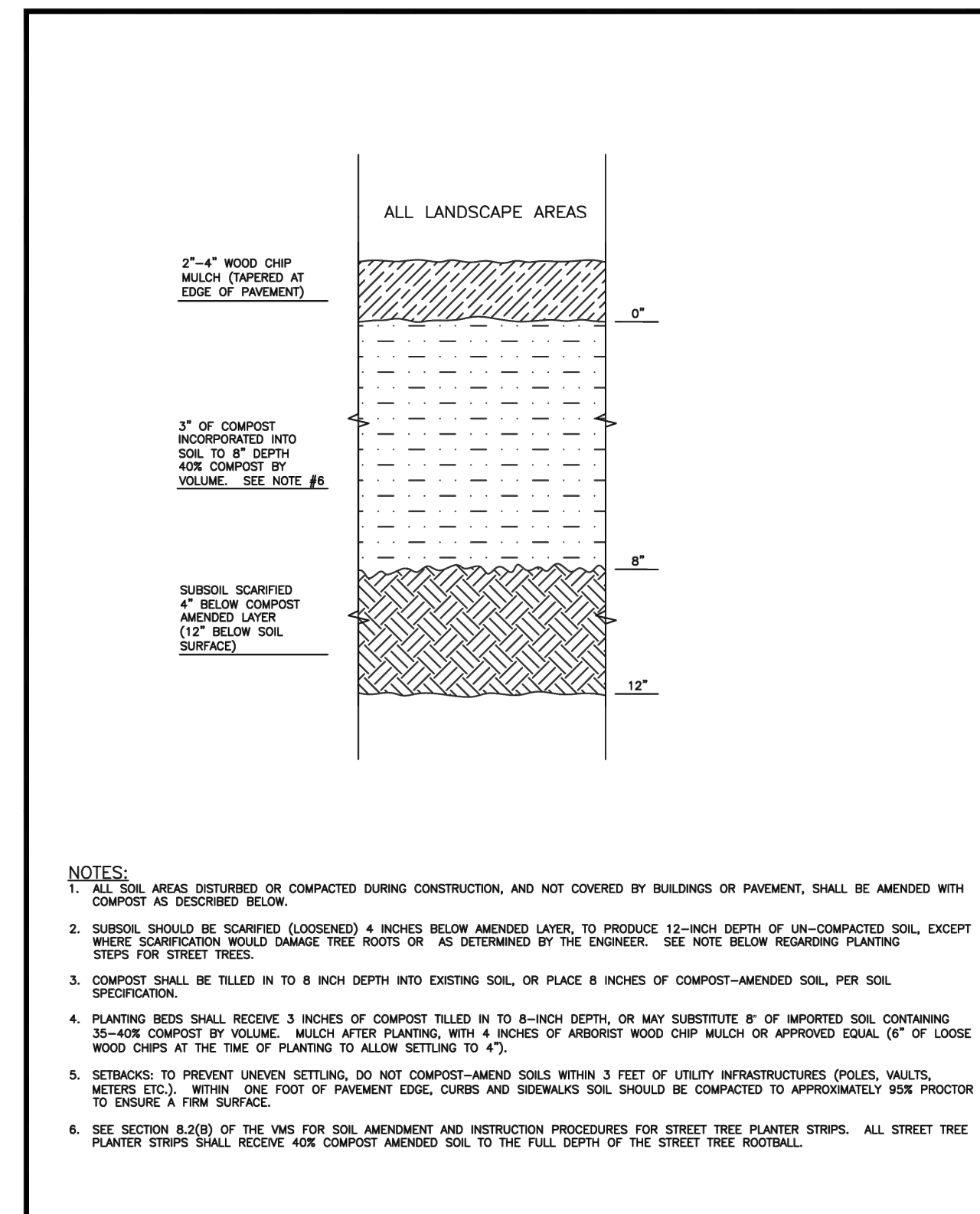
A PORTION OF THE S 1/2 OF SECTION 26 AND N 1/2 OF SECTION 35, TOWNSHIP 20 NORTH, RANGE 4 EAST, W.M.
PIERCE COUNTY, WASHINGTON (CITY OF PUYALLUP)

BEFORE YOU DIG
CALL
1-800-424-5555
NOT LESS THAN 48 HOURS BEFORE
BEGINNING EXCAVATION UNLESS ANY
UNDERGROUND UTILITIES MAY BE LOCATED.

CASCADE CHRISTIAN ATHLETIC FIELDS
CSWPPP NOTES & DETAILS
SITE ADDRESS:
811 21ST ST SE
PUYALLUP, WA 98372

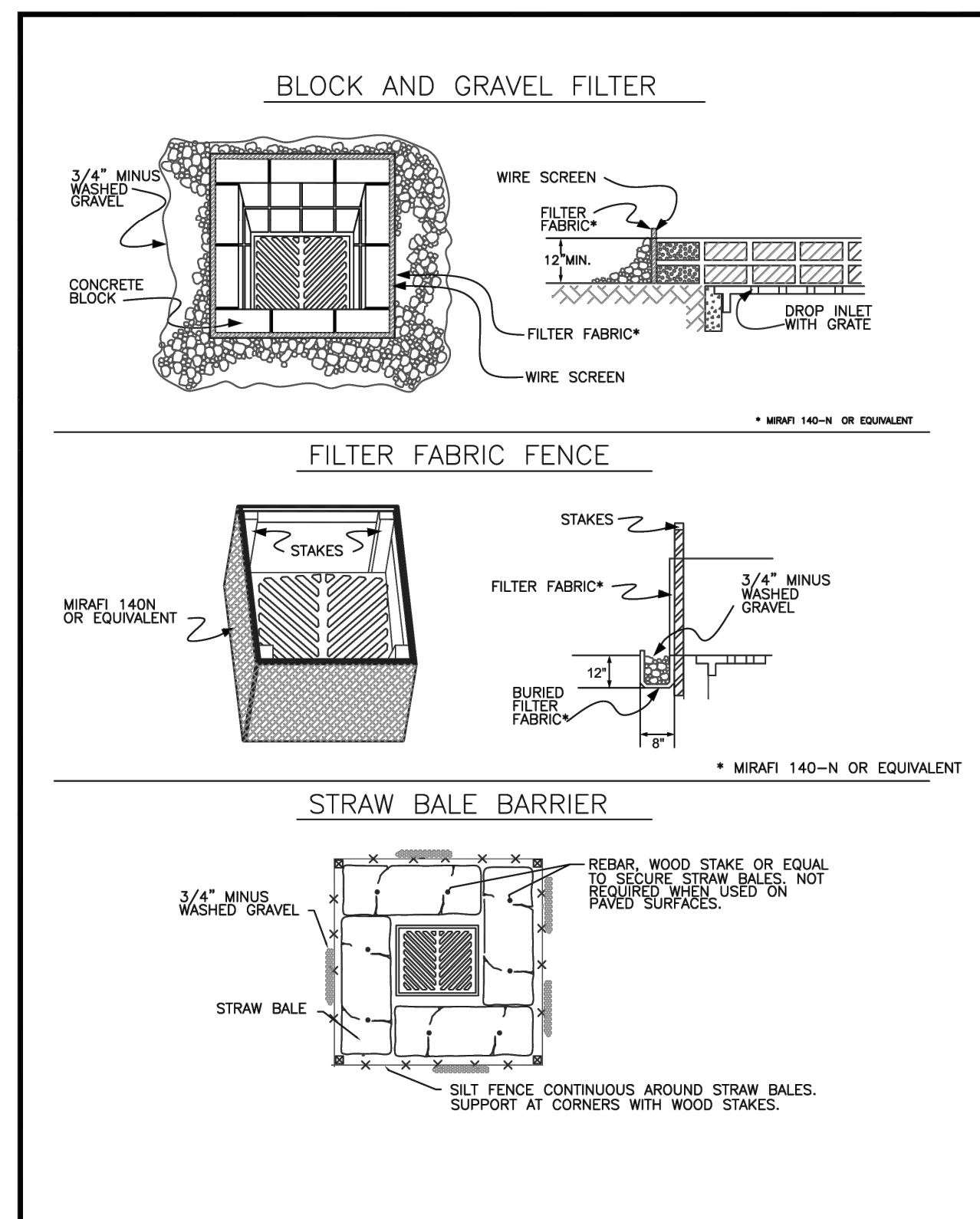
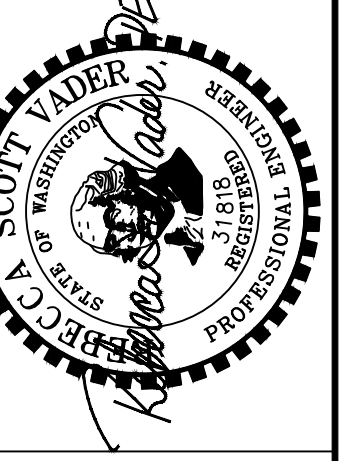


CITY OF PUYALLUP		SILTATION FENCE	
DESIGNED BY LINDA LAM	CHECKED BY LINDA LAM	APPROVED BY COLLEEN BARBER	DATE 02.03.02



CITY OF PUYALLUP		SOIL AMENDMENT AND DEPTH	
DESIGNED BY LINDA LAM	CHECKED BY COLLEEN BARBER	APPROVED BY COLLEEN BARBER	DATE 01.02.08

APPROVED
BY _____
CITY OF PUYALLUP
ENGINEERING SERVICES
DATE _____
NOTE: THIS APPROVAL IS VOID
AFTER 1 YEAR FROM APPROVAL
DATE.
THE CITY WILL NOT BE
RESPONSIBLE FOR ERRORS AND/OR
OMISSIONS ON THESE PLANS.
FIELD CONDITIONS MAY DICTATE
CHANGES TO THESE PLANS AS
DETERMINED BY THE
ENGINEERING SERVICES MANAGER.



CITY OF PUYALLUP		STORM DRAIN BARRIERS	
DESIGNED BY LINDA LAM	CHECKED BY LINDA LAM	APPROVED BY COLLEEN BARBER	DATE 02.03.05

CONDITIONS WHERE PRACTICE APPLIES

- BLOCK AND GRAVEL FILTER - APPLICABLE FOR AREAS GREATER THAN 5% SLOPE.
- FILTER FABRIC FENCE - APPLICABLE WHERE THE INLET DRAINS A RELATIVELY SMALL (ONE ACRE OR LESS) AND FLAT AREA (LESS THAN 5% SLOPE).
- STRAW BALE BARRIER - APPLICABLE WHERE INLET DRAINS A RELATIVELY FLAT DISTURBED AREA (LESS THAN 5% SLOPE) IN WHICH SHEET FLOW (NOT EXCEEDING 0.5 FT/SEC) OCCURS. BARRIERS OF THIS TYPE SHOULD NOT BE PLACED AROUND INLETS RECEIVING CONCENTRATED FLOWS SUCH AS THOSE ALONG MAJOR STREETS AND HIGHWAYS.

1. BLOCK AND GRAVEL FILTER - INSTALLATION PROCEDURE

- PLACE WIRE MESH OVER THE DROP INLET SO THAT THE WIRE EXTENDS A MINIMUM OF ONE FOOT BEYOND EACH SIDE OF THE INLET STRUCTURE. USE WIRE SCREEN WITH 1/2-INCH OPENINGS. IF MORE THAN ONE STRIP OF MESH IS NECESSARY, OVERLAP THE STRIPS. PLACE FILTER FABRIC OVER WIRE MESH.
- PLACE CONCRETE BLOCKS LENGTHWISE ON THEIR SIDES IN A SINGLE ROW AROUND THE PERIMETER OF THE INLET, SO THAT THE OPEN ENDS FACE OUTWARD, NOT UPWARD. THE ENDS OF ADJACENT BLOCKS SHOULD ABUT. THE HEIGHT OF THE BARRIER CAN BE VARIED, DEPENDING ON DESIGN NEEDS. BY STACKING COMBINATIONS OF BLOCKS THAT ARE 4-INCH, 8-INCH AND 12-INCH WIDE, THE ROW OF BLOCKS SHOULD BE AT LEAST 12-INCHES BUT NO GREATER THAN 24-INCHES HIGH.
- PLACE WIRE SCREEN OVER THE OVERSIDE VERTICAL FACE (OPEN END) OF THE CONCRETE BLOCKS TO PREVENT STONES FROM BEING WASHED THROUGH THE BLOCKS. USE WIRE SCREEN WITH 1/2-INCH OPENINGS.
- PILE STONES AGAINST THE WIRE MESH TO THE TOP OF THE BLOCKS. USE 3/4" MINUS WASHED GRAVEL.

2. FILTER FABRIC FENCE - INSTALLATION PROCEDURE

- PLACE 2-INCH BY 2-INCH WOODEN STAKES AROUND THE PERIMETER OF THE INLET A MAXIMUM OF 3 FEET APART AND DRIVE THEM AT LEAST 8-INCHES INTO THE GROUND. THE STAKES MUST BE AT LEAST 3 FEET LONG.
- EXCAVATE A TRENCH APPROXIMATELY 8-INCHES WIDE AND 12-INCHES DEEP AROUND THE OUTSIDE PERIMETER OF THE STAKES.
- STAPLE THE FILTER FABRIC TO THE WOODEN STAKES SO THAT 32-INCHES OF THE FABRIC EXTENDS AND CAN BE FORMED INTO THE TRENCH, AND USE HEAVY-DUTY WIRE STAPLES AT LEAST 1/2-INCHES LONG.
- BACKFILL THE TRENCH WITH 3/4-INCH MINUS WASHED GRAVEL ALL THE WAY AROUND.

3. STRAW BALE BARRIER - INSTALLATION PROCEDURE

- EXCAVATE A 4-INCH DEEP TRENCH AROUND THE INLET. MAKE THE TRENCH AS WIDE AS A STRAW BALE.
- ORIENT STRAW BALES WITH THE BINDINGS AROUND THE SIDES OF THE BALES RATHER THAN OVER AND UNDER THE BALES.
- PLACE BALES LENGTHWISE AROUND THE INLET AND PRESS THE ENDS OF ADJACENT BALES SECURELY IN PLACE.
- DRIVE TWO 2-INCH BY 2-INCH STAKES THROUGH EACH BALE TO ANCHOR THE BALE SECURELY IN PLACE.
- BACKFILL THE EXCAVATED SOIL AND COMPACT IT AGAINST THE BALE.
- WEDGE LOOSE STRAW BETWEEN BALES TO PREVENT WATER FROM FLOWING BETWEEN BALES.

CITY OF PUYALLUP		STORM DRAIN BARRIERS NOTES	
DESIGNED BY LINDA LAM	CHECKED BY LINDA LAM	APPROVED BY COLLEEN BARBER	DATE 02.03.06

- ALL LIMITS OF CLEARING AND AREAS OF VEGETATION PRESERVATION AS PRESCRIBED ON THE PLANS SHALL BE CLEARLY FLAGGED IN THE FIELD AND OBSERVED DURING CONSTRUCTION.
- ALL REQUIRED SEDIMENTATION AND EROSION CONTROL FACILITIES MUST BE CONSTRUCTED AND IN OPERATION PRIOR TO ANY LAND CLEARING AND/OR OTHER CONSTRUCTION TO ENSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER THE NATURAL DRAINAGE SYSTEM. THE CONTRACTOR SHALL SCHEDULE AN INSPECTION OF THE EROSION CONTROL FACILITIES PRIOR TO ANY LAND CLEARING AND/OR CONSTRUCTION. ALL EROSION AND SEDIMENT FACILITIES SHALL BE MAINTAINED IN A SATISFACTORY CONDITION AS DETERMINED BY THE CITY, UNTIL SUCH TIME THAT CLEARING AND/OR CONSTRUCTION IS COMPLETED AND THE POTENTIAL FOR ON-SITE EROSION HAS PASSED. THE IMPLEMENTATION, MAINTENANCE, REPLACEMENT, AND ADDITIONS TO THE EROSION AND SEDIMENTATION CONTROL SYSTEMS SHALL BE THE RESPONSIBILITY OF THE PERMITEE.
- THE EROSION AND SEDIMENTATION CONTROL SYSTEM FACILITIES DEPICTED ON THESE PLANS ARE INTENDED TO BE MINIMUM REQUIREMENTS TO MEET ANTICIPATED SITE CONDITIONS. AS CONSTRUCTION PROGRESSES AND UNEXPECTED OR SEASONAL CONDITIONS OCCUR, FACILITIES WILL BE NECESSARY TO ENSURE COMPLETE SILTATION CONTROL ON THE SITE. DURING THE COURSE OF CONSTRUCTION, IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE PERMITEE TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY HIS ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES, OVER AND ABOVE THE MINIMUM REQUIREMENTS, AS MAY BE NEEDED TO PROTECT ADJACENT PROPERTIES, SENSITIVE AREAS, NATURAL WATER COURSES, AND/OR STORM DRAINAGE SYSTEMS.
- APPROVAL OF THESE PLANS IS FOR GRADING, TEMPORARY DRAINAGE, EROSION AND SEDIMENTATION CONTROL ONLY. IT DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT STORM DRAINAGE DESIGN, SIZE OR LOCATION OF PIPES, RESTRICTORS, CHANNELS, OR RETENTION FACILITIES.
- ANY DISTURBED AREA WHICH HAS BEEN STRIPPED OF VEGETATION AND WHERE NO FURTHER WORK IS ANTICIPATED FOR A PERIOD OF 30 DAYS OR MORE, MUST BE IMMEDIATELY STABILIZED WITH MULCHING, GRASS PLANTING, OR OTHER APPROVED EROSION CONTROL TREATMENT APPLICABLE TO THE TIME OF YEAR IN QUESTION. GRASS SEEDING ALONE WILL BE ACCEPTABLE ONLY DURING THE MONTHS OF APRIL THROUGH SEPTEMBER INCLUSIVE. SEEDING MAY PROCEED OUTSIDE THE SPECIFIED TIME PERIOD WHENEVER IT IS IN THE INTEREST OF THE PERMITEE BUT MUST BE AUGMENTED WITH MULCHING, NETTING, OR OTHER TREATMENT APPROVED BY THE CITY.
- IN CASE EROSION OR SEDIMENTATION OCCURS TO ADJACENT PROPERTIES, ALL CONSTRUCTION WORK WITHIN THE DEVELOPMENT THAT WILL FURTHER AGGRAVATE THE SITUATION MUST CEASE, AND THE OWNER/CONTRACTOR WILL IMMEDIATELY COMMENCE RESTORATION METHODS. RESTORATION ACTIVITY WILL CONTINUE UNTIL SUCH TIME AS THE AFFECTED PROPERTY OWNER IS SATISFIED.
- NO TEMPORARY OR PERMANENT STOCKPILING OF MATERIALS OR EQUIPMENT SHALL OCCUR WITHIN CRITICAL AREAS OR ASSOCIATED BUFFERS, OR THE CRITICAL ROOT ZONE FOR VEGETATION PROPOSED FOR RETENTION.

CITY OF PUYALLUP		GRADING, EROSION, AND SEDIMENTATION CONTROL NOTES	
DESIGNED BY LINDA LAM	CHECKED BY LINDA LAM	APPROVED BY COLLEEN BARBER	DATE 05.02.01

Vader Engineering
6817 27TH ST W, #65353
Tacoma, WA 98464
253.363.2065
rvader@vaderengineering.com

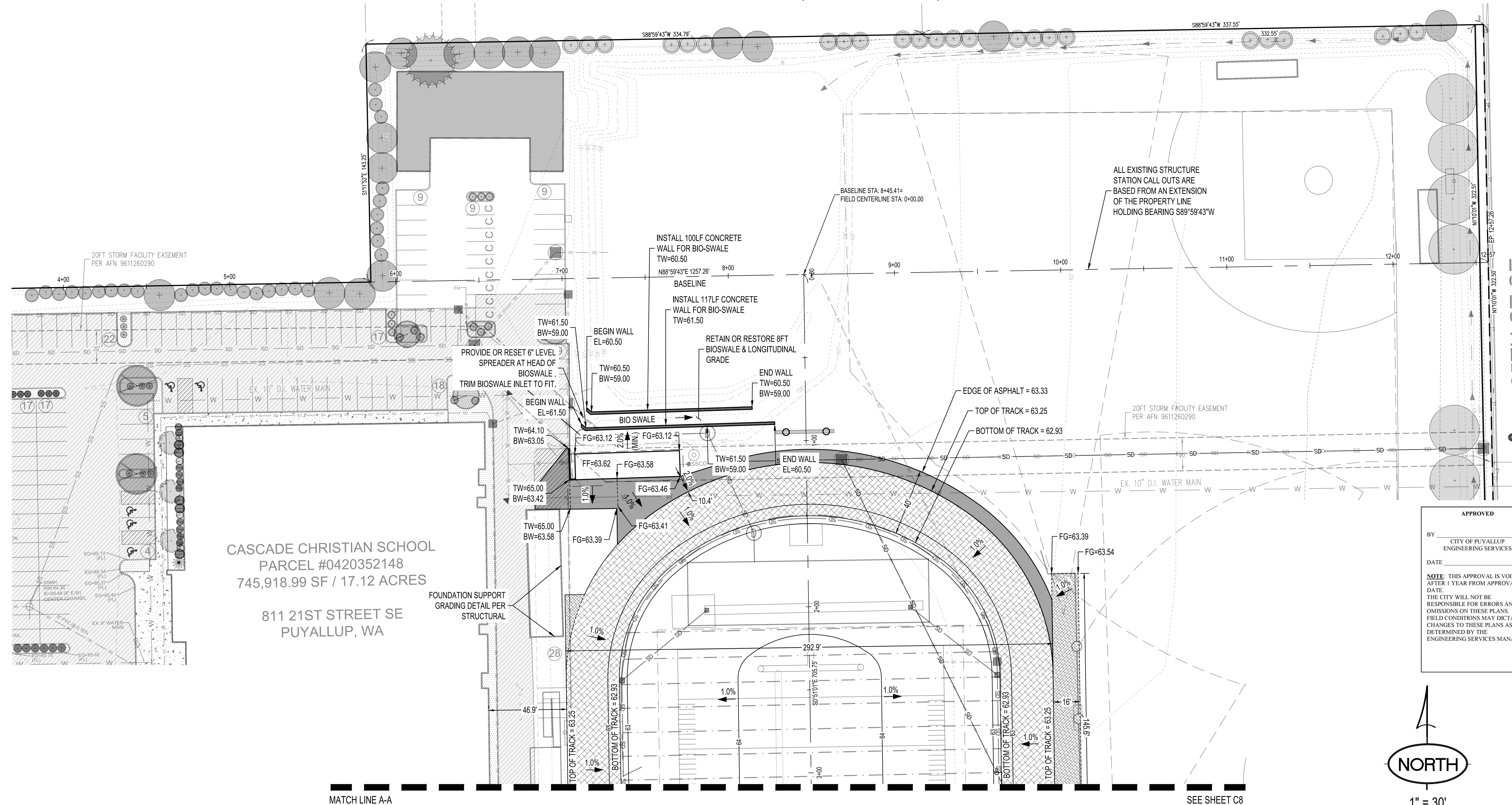
PROJECT NO.	SCALE	DESIGNED BY	DRAWN BY	SAVED BY	PLOT DATE
2205	N/A	RSV	BDS	11/28/2023	11/28/2023

REVISION	#

CASCADE CHRISTIAN ATHLETIC FIELDS

GRADING PLAN

A PORTION OF THE S 1/2 OF SECTION 26 AND N 1/2 OF SECTION 35, TOWNSHIP 20 NORTH, RANGE 4 EAST, W.M.
PIERCE COUNTY, WASHINGTON (CITY OF PUYALLUP)



CASCADE CHRISTIAN SCHOOL
PARCEL #0420352148
745,918.99 SF / 17.12 ACRES
811 21ST STREET SE
PUYALLUP, WA

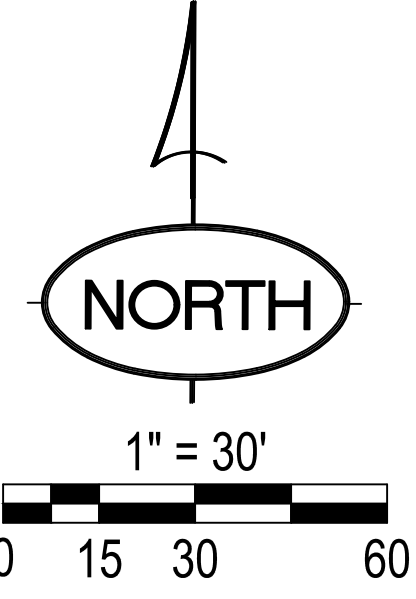
ALL EXISTING STRUCTURE
STATION CALL OUTS ARE
BASED FROM AN EXTENSION
OF THE PROPERTY LINE
HOLDING BEARING S89°59'43"W

APPROVED

BY: _____
CITY OF PUYALLUP
ENGINEERING SERVICES

DATE: _____

NOTE: THIS APPROVAL IS VOID
AFTER 1 YEAR FROM APPROVAL
DATE.
THE CITY WILL NOT BE
RESPONSIBLE FOR ERRORS AND/OR
OMISSIONS ON THESE PLANS.
FIELD CONDITIONS MAY DICTATE
CHANGES TO THESE PLANS AS
DETERMINED BY THE
ENGINEERING SERVICES MANAGER.

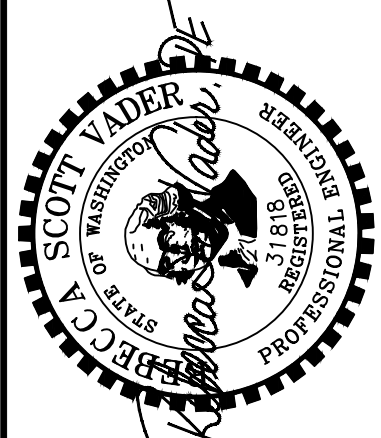


NOTE:
BACKGROUND FOR THIS PLAN SIMPLIFIED TO PROVIDE DRAINAGE CLARITY.
SEE LANDSCAPE FOR COORDINATION WITH ADDITIONAL FEATURES.

BASIS OF BEARINGS
MONUMENTED CENTERLINE OF 21ST STREET EAST, THAT BEING N0°37'53"E
VERTICAL DATUM
VERTICAL BENCHMARK: PIERCE COUNTY GIS NAVD 88
CONTOUR INTERVAL: 1'
SITE BENCHMARK
MON. IN CASE PNT #501, N: 1201088.93 E: 679625.63 EL=64.528

BEFORE YOU DIG
CALL
1-800-424-5555
NOT LESS THAN 48 HOURS BEFORE
BEGINNING EXCAVATION UNLESS ANY
UNDERGROUND UTILITIES MAY BE LOCATED.

CASCADE CHRISTIAN ATHLETIC FIELDS
GRADING PLAN
SITE ADDRESS:
811 21ST ST SE
PUYALLUP, WA 98372



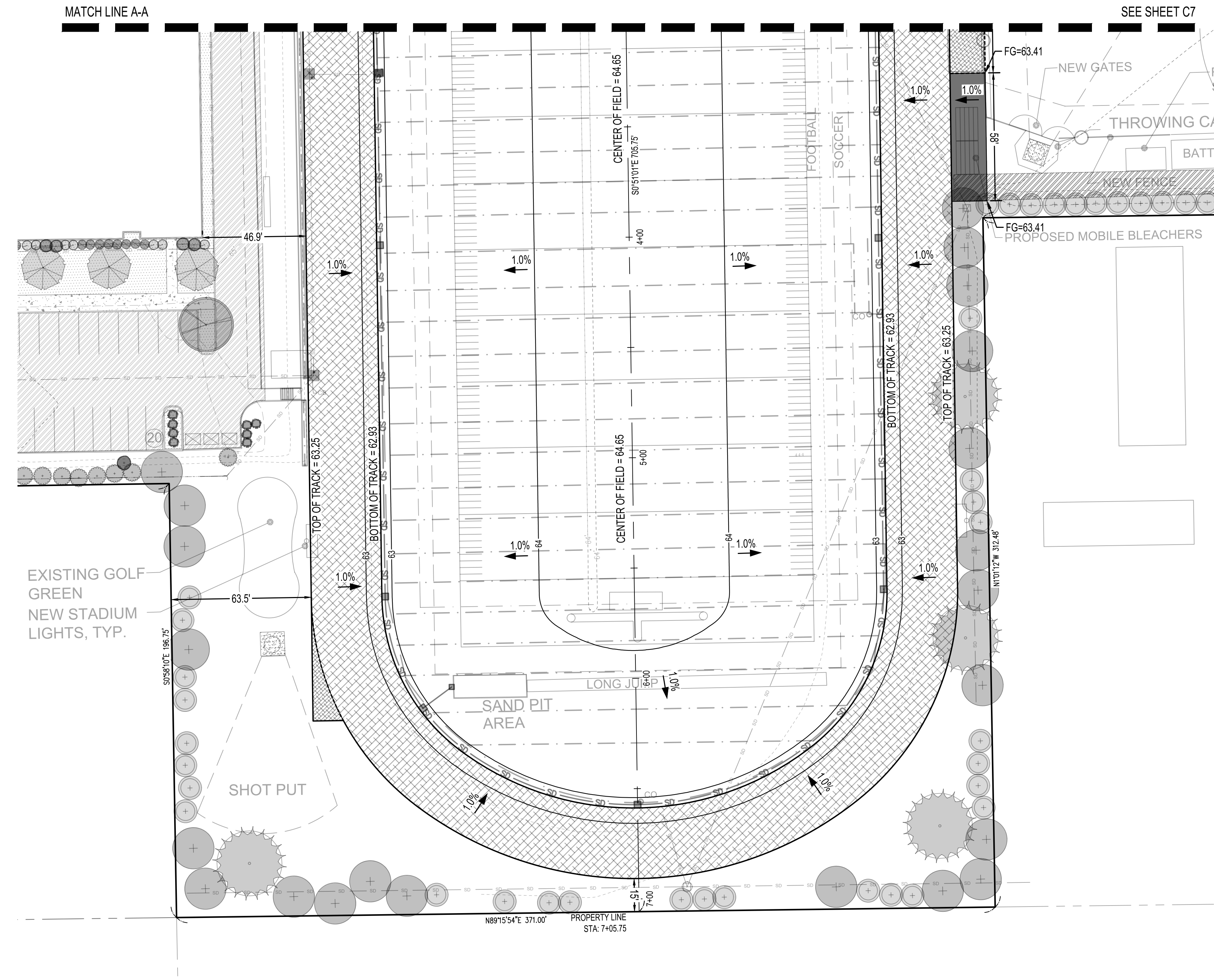
Vader Engineering
6817 27TH ST W, #65353
Tacoma, WA 98464
253.363.2065
rvader@vaderengineering.com

PROJECT NO. 2205	SCALE: 1" = 30'
DESIGNED: RSV	DRAWN: BDS
SAVED: 11/28/2023	PLOT DATE: 11/28/2023
REVISION #	

CASCADE CHRISTIAN ATHLETIC FIELDS

GRADING PLAN (2)

A PORTION OF THE S 1/2 OF SECTION 26 AND N 1/2 OF SECTION 35, TOWNSHIP 20 NORTH, RANGE 4 EAST, W.M.
PIERCE COUNTY, WASHINGTON (CITY OF PUYALLUP)

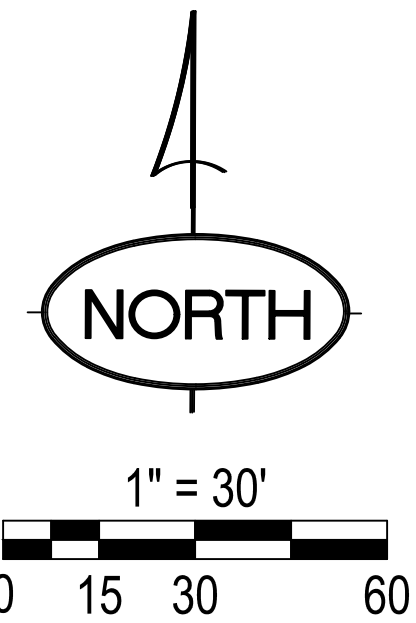


APPROVED

BY: _____
CITY OF PUYALLUP
ENGINEERING SERVICES

DATE: _____

NOTE: THIS APPROVAL IS VOID AFTER 1 YEAR FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE ENGINEERING SERVICES MANAGER.



BASIS OF BEARINGS
MONUMENTED CENTERLINE OF 21ST STREET EAST, THAT BEING N0°37'53"E

VERTICAL DATUM
VERTICAL BENCHMARK: PIERCE COUNTY GIS NAVD 88
CONTOUR INTERVAL: 1'

SITE BENCHMARK
MON. IN CASE PNT #501,
N: 1201088.93
E: 679625.63
EL=64.528

NOTE:
BACKGROUND FOR THIS PLAN SIMPLIFIED TO PROVIDE DRAINAGE CLARITY. SEE LANDSCAPE FOR COORDINATION WITH ADDITIONAL FEATURES.

BEFORE YOU DIG
CALL
1-800-424-5555
NOT LESS THAN 48 HOURS BEFORE
BEGINNING EXCAVATION UNLESS ANY
UNDERGROUND UTILITIES MAY BE LOCATED.

CASCADE CHRISTIAN ATHLETIC FIELDS
GRADING PLAN (2)
SITE ADDRESS:
811 21ST ST SE
PUYALLUP, WA 98372

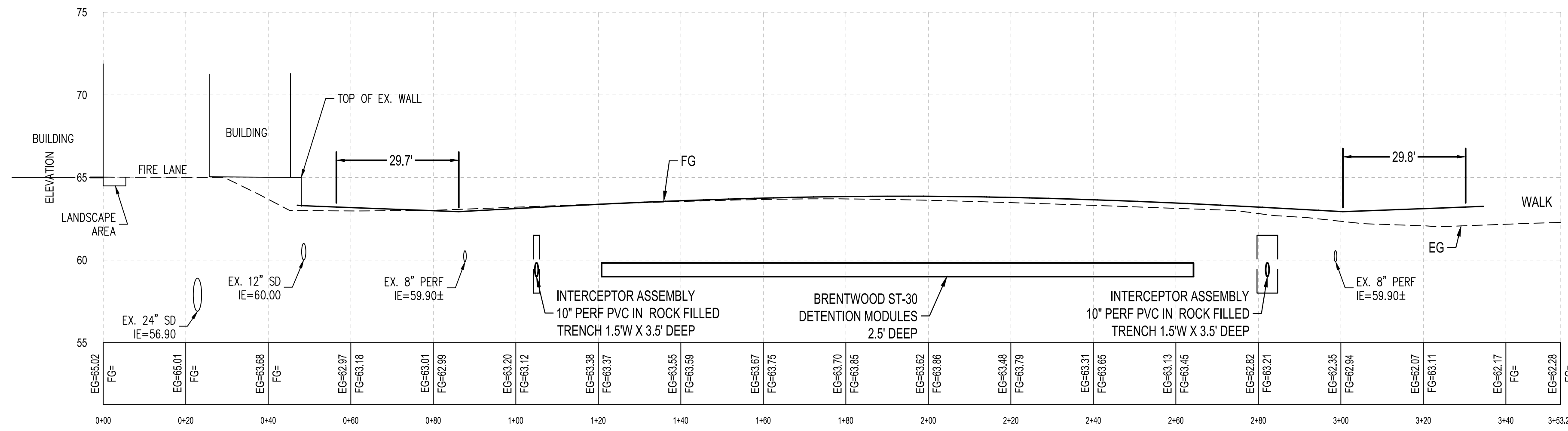


Vader Engineering
6817 27TH ST W, #65353
Tacoma, WA 98464
253.363.2065
rvader@vaderengineering.com

PROJECT NO.	SCALE	DESIGNED	DRAWN	SAVED	PLOT DATE
2205	1" = 30'	RSV	BDS	11/28/2023	11/28/2023

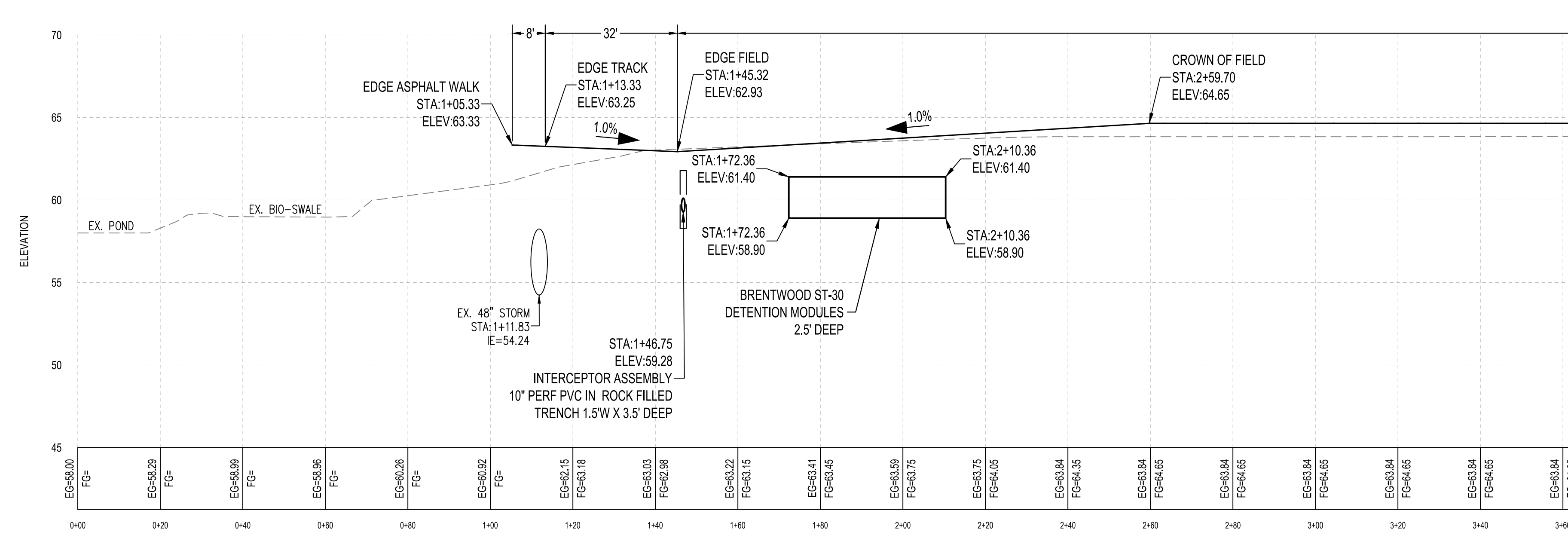
CASCADE CHRISTIAN ATHLETIC FIELDS GRADING SECTIONS

A PORTION OF THE S 1/2 OF SECTION 26 AND N 1/2 OF SECTION 35, TOWNSHIP 20 NORTH, RANGE 4 EAST, W.M.
PIERCE COUNTY, WASHINGTON (CITY OF PUYALLUP)

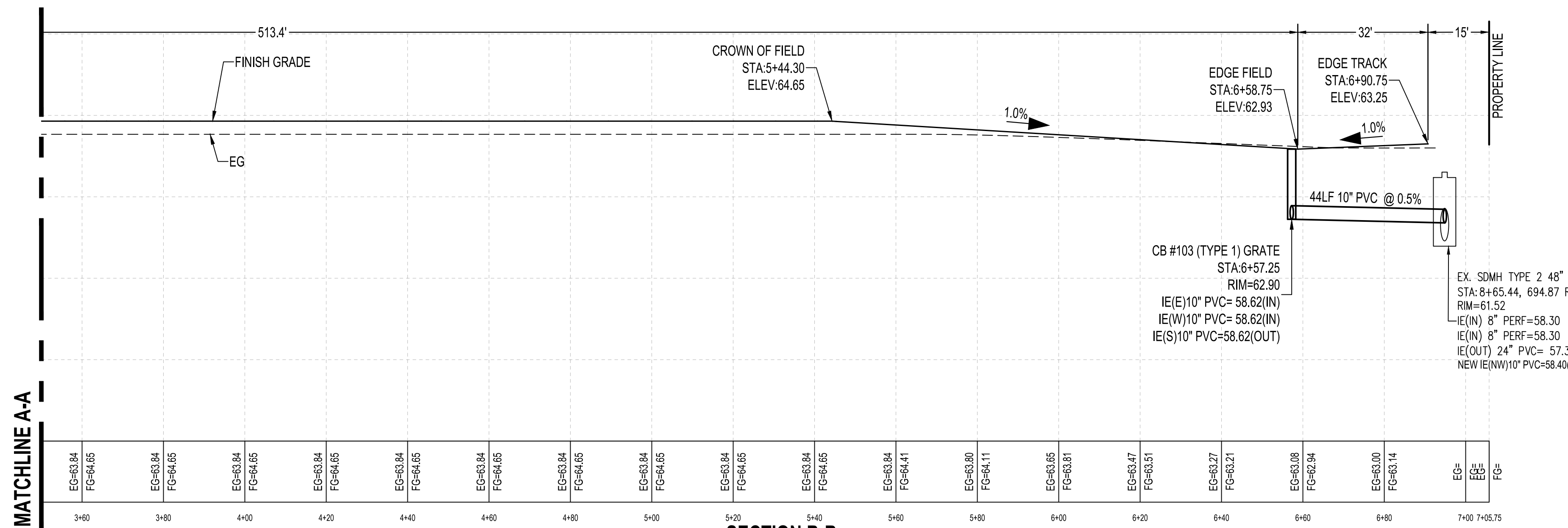


SECTION A-A

HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 5'



MATCHLINE A-A



SECTION B-B

HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 5'

APPROVED

BY: _____
CITY OF PUYALLUP
ENGINEERING SERVICES

DATE: _____

NOTE: THIS APPROVAL IS VOID AFTER 1 YEAR FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE ENGINEERING SERVICES MANAGER.

BEFORE YOU DIG
CALL
1-800-424-5555

NOT LESS THAN 48 HOURS BEFORE BEGINNING EXCAVATION UNLESS ANY UNDERGROUND UTILITIES MAY BE LOCATED.

CASCADE CHRISTIAN ATHLETIC FIELDS
GRADING SECTIONS

SITE ADDRESS:
811 21ST ST SE
PUYALLUP, WA 98372



Vader Engineering
6817 27TH ST W, #65353
Tacoma, WA 98464
253.363.2065
rvader@vaderengineering.com

PROJECT NO.	SCALE	DESIGNED BY	DRAWN BY	SAVED	PLOT DATE
2205	N/A	RSV	BDS	11/28/2023	11/28/2023

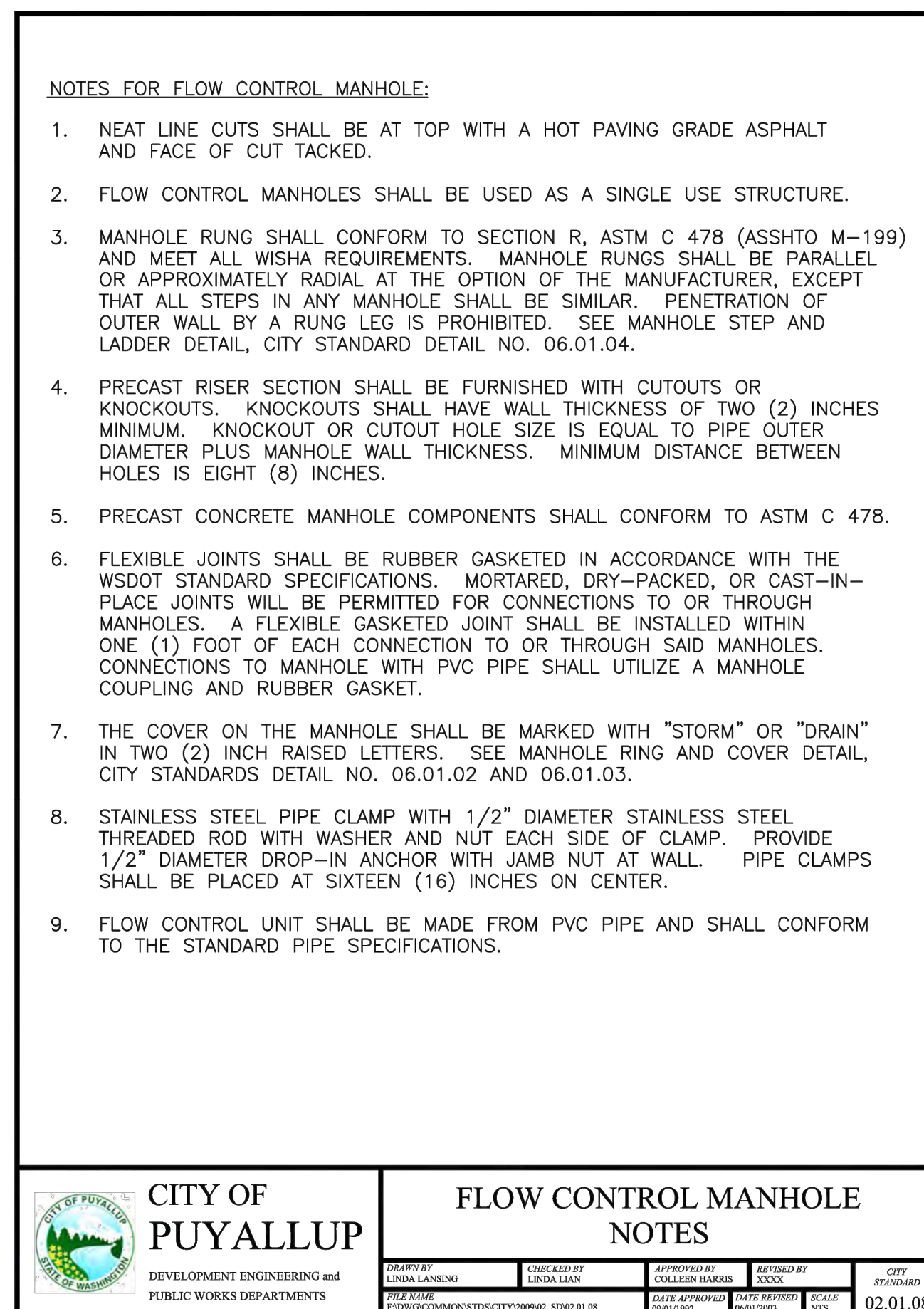
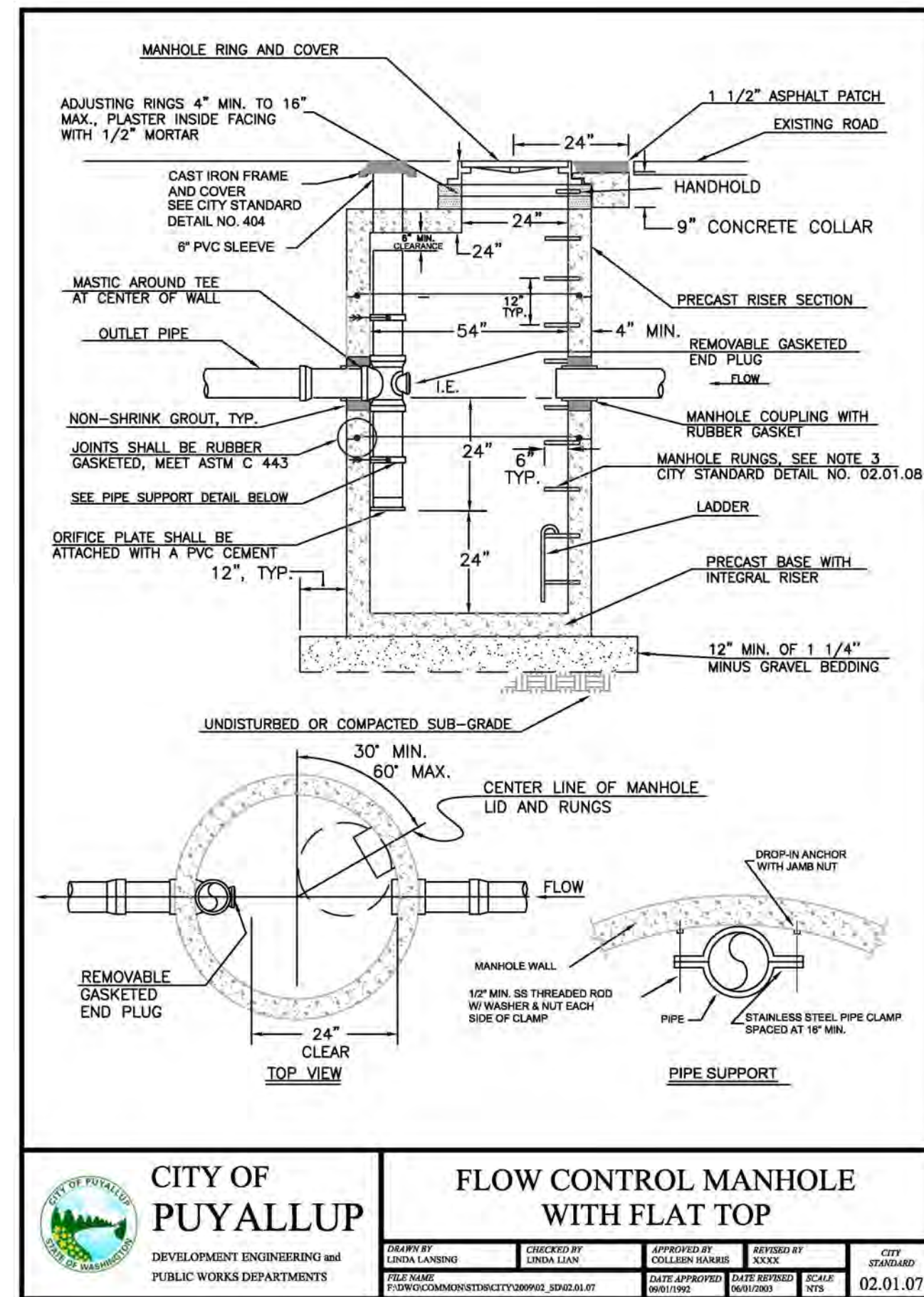
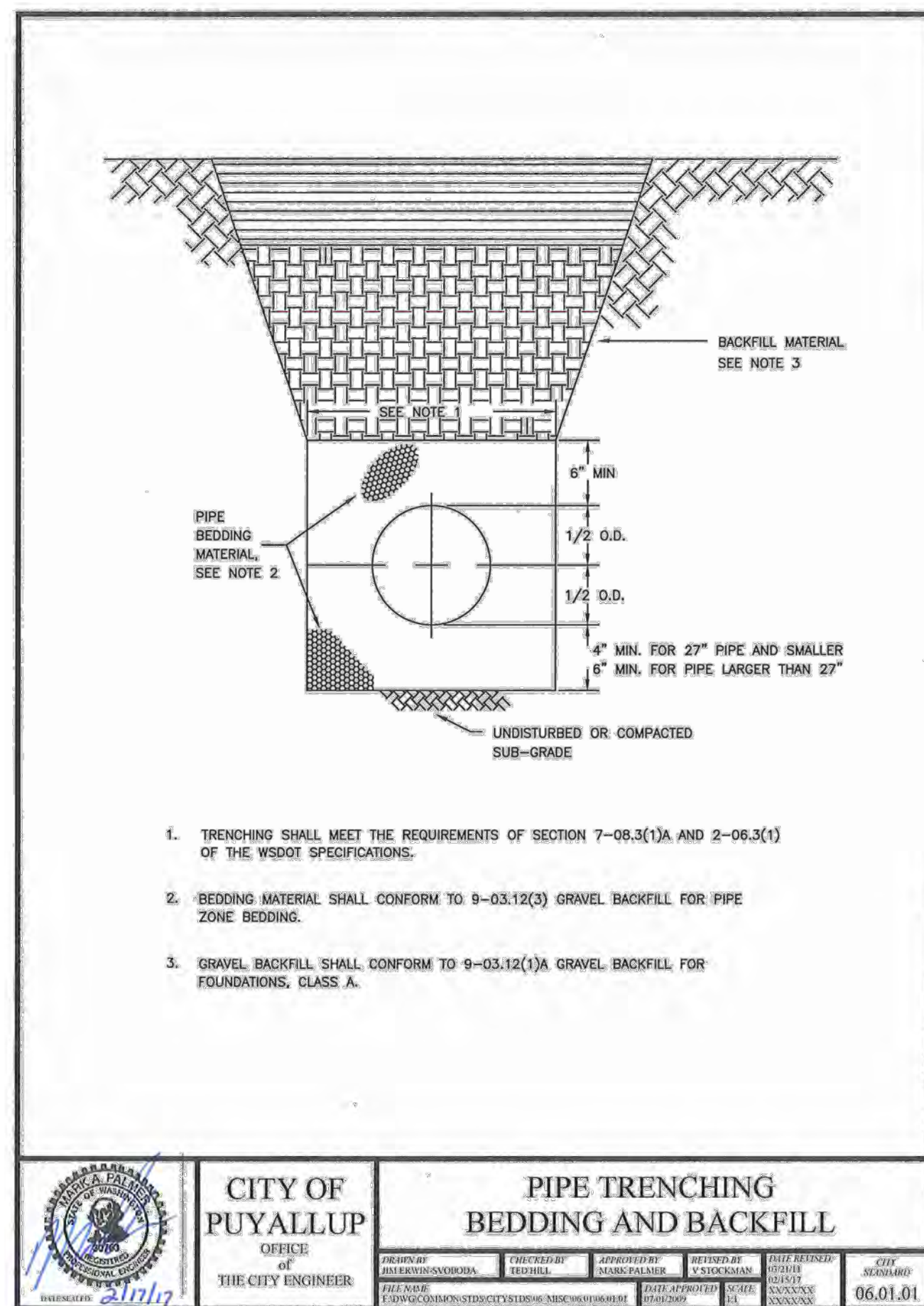
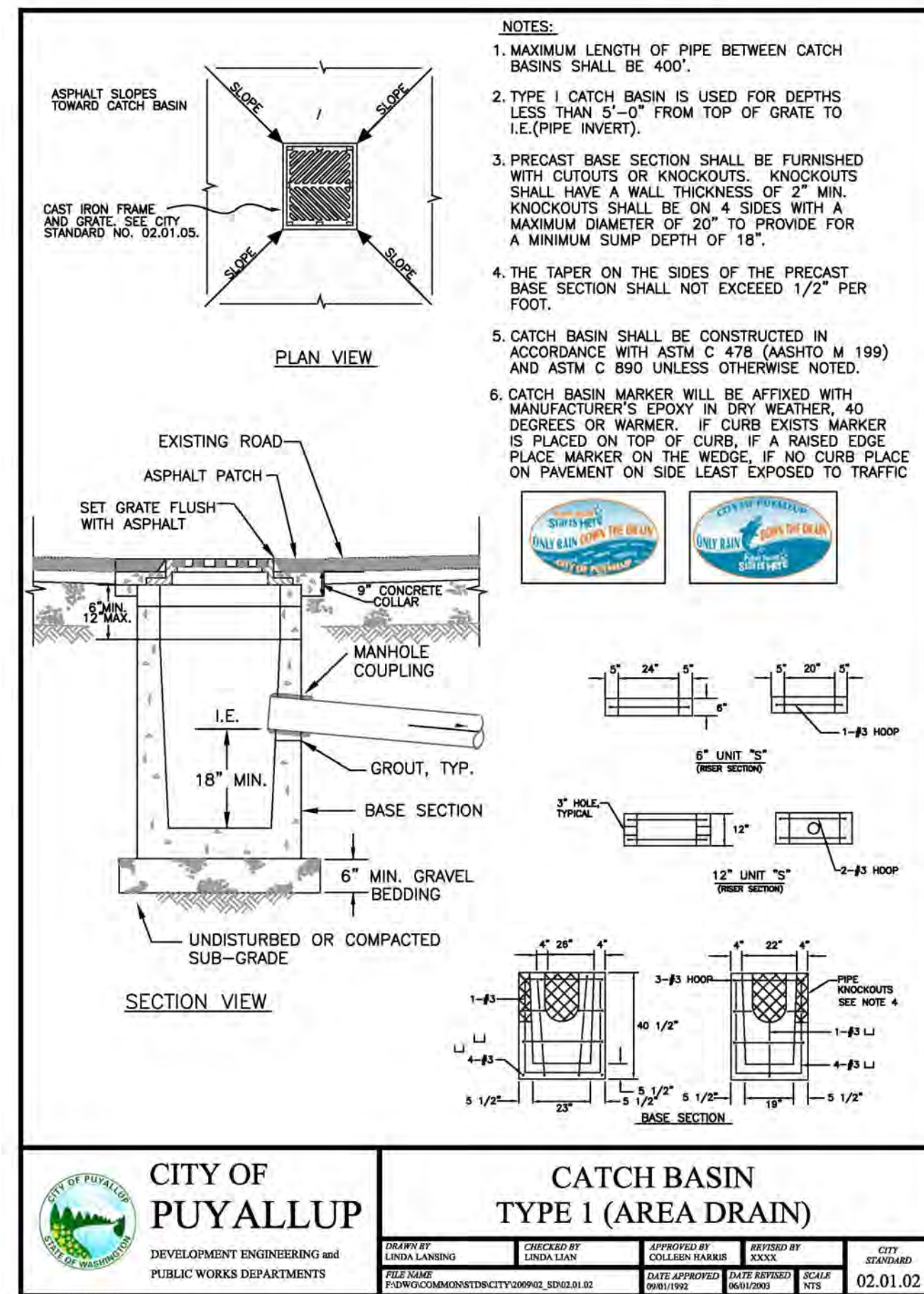
CASCADE CHRISTIAN ATHLETIC FIELDS

DRAINAGE NOTES & DETAILS

A PORTION OF THE S 1/2 OF SECTION 26 AND N 1/2 OF SECTION 35, TOWNSHIP 20 NORTH, RANGE 4 EAST, W.M. PIERCE COUNTY, WASHINGTON (CITY OF PUYALLUP)

STORMWATER NOTES:

- ALL WORK IN CITY RIGHT-OF-WAY REQUIRES A PERMIT FROM THE CITY OF PUYALLUP. PRIOR TO ANY WORK COMMENCING, THE GENERAL CONTRACTOR SHALL ARRANGE FOR A PRECONSTRUCTION MEETING AT THE DEVELOPMENT SERVICES CENTER TO BE ATTENDED BY ALL CONTRACTORS THAT WILL PERFORM WORK SHOWN ON THE ENGINEERING PLANS. REPRESENTATIVES FROM ALL APPLICABLE UTILITY COMPANIES, THE PROJECT OWNER AND APPROPRIATE CITY STAFF. CONTACT ENGINEERING SERVICES TO SCHEDULE THE MEETING (253) 841-5568. THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN APPROVED SET OF PLANS AT THE MEETING.
- AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL OBTAIN A "PUNCH LIST" PREPARED BY THE CITY'S INSPECTOR DETAILING REMAINING ITEMS OF WORK TO BE COMPLETED. ALL ITEMS OF WORK SHOWN ON THESE PLANS SHALL BE COMPLETED TO THE SATISFACTION OF THE CITY PRIOR TO ACCEPTANCE OF THE WATER SYSTEM AND PROVISION OF SANITARY SEWER SERVICE.
- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS"), WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER, LATEST EDITION, UNLESS SUPERSEDED OR AMENDED BY THE CITY OF PUYALLUP CITY STANDARDS FOR PUBLIC WORKS ENGINEERING AND CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "CITY STANDARDS").
- A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
- ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPER'S ENGINEER AND THE ENGINEERING SERVICES STAFF PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THESE PLANS.
- THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL (811) AT LEAST TWO WORKING DAYS IN ADVANCE. THE OWNER AND HIS/HER ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.
- ANY STRUCTURE AND/OR OBSTRUCTION WHICH REQUIRE REMOVAL OR RELOCATION RELATING TO THIS PROJECT, SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.
- DURING CONSTRUCTION, ALL EXISTING AND NEWLY INSTALLED DRAINAGE STRUCTURES SHALL BE PROTECTED FROM SEDIMENTS.
- ALL STORM MANHOLES SHALL CONFORM TO CITY STANDARD DETAIL NO. 02.01.01. FLOW CONTROL MANHOLE/OIL WATER SEPARATOR SHALL CONFORM TO CITY STANDARD DETAIL NO. 02.01.06 AND 02.01.07.
- MANHOLE RING AND COVER SHALL CONFORM TO CITY STANDARD DETAIL 06.01.02.
- CATCH BASINS TYPE I SHALL CONFORM TO CITY STANDARD DETAIL NO.02.01.02 AND 02.01.03 AND SHALL BE USED ONLY FOR DEPTHS LESS THAN 5 FEET FROM TOP OF THE GRATE TO THE INVERT OF THE STORM PIPE.
- CATCH BASINS TYPE II SHALL CONFORM TO CITY STANDARD DETAIL NO.02.01.04 AND SHALL BE USED FOR DEPTHS GREATER THAN 5 FEET FROM TOP OF THE GRATE TO THE INVERT OF THE STORM PIPE.
- CAST IRON OR DUCTILE IRON FRAME AND GRATE SHALL CONFORM TO CITY STANDARD DETAIL NO.02.01.05. GRATE SHALL BE MARKED WITH "DRAINS TO STREAM". SOLID CATCH BASIN LIDS (SQUARE UNLESS NOTED AS ROUND) SHALL CONFORM TO WSDOT STANDARD PLAN B-30.20-04 (OLYMPIC FOUNDRY NO. SM60 OR EQUAL). VANED GRATES SHALL CONFORM TO WSDOT STANDARD PLAN B-30.30-03 (OLYMPIC FOUNDRY NO. SM60V OR EQUAL).
- STORMWATER PIPE SHALL BE ONLY PVC, CONCRETE, DUCTILE IRON, OR DUAL WALLED POLYPROPYLENE PIPE.
 - THE USE OF ANY OTHER TYPE SHALL BE REVIEWED AND APPROVED BY THE ENGINEERING SERVICES STAFF PRIOR TO INSTALLATION.
 - PVC PIPE SHALL BE PER ASTM D3034, SDR 35 FOR PIPE SIZE 15-INCH AND SMALLER AND F679 FOR PIPE SIZES 18 TO 27 INCH. MINIMUM COVER ON PVC PIPE SHALL BE 3.0 FEET.
 - CONCRETE PIPE SHALL CONFORM TO THE WSDOT STANDARD SPECIFICATIONS FOR CONCRETE UNDERDRAIN PIPE. MINIMUM COVER ON CONCRETE PIPE SHALL NOT LESS THAN 3.0 FEET.
 - DUCTILE IRON PIPE SHALL BE CLASS 50, CONFORMING TO AWWA C151. MINIMUM COVER ON DUCTILE IRON PIPE SHALL BE 1.0 FOOT.
 - POLYPROPYLENE PIPE (PP) SHALL BE DUAL WALLED, HAVE A SMOOTH INTERIOR AND EXTERIOR CORRUGATIONS AND MEET WSDOT 9-05.24(1). 12-INCH THROUGH 30-INCH PIPE SHALL MEET OR EXCEED ASTM F2736 AND AASHTO M330, TYPE S, OR TYPE D. 36-INCH THROUGH 60-INCH PIPE SHALL MEET OR EXCEED ASTM F2881 AND AASHTO M330, TYPE S, OR TYPE D. TESTING SHALL BE PER ASTM F1417. MINIMUM COVER OVER POLYPROPYLENE PIPE SHALL BE 3-FEET.
- TRENCHING, BEDDING, AND BACKFILL FOR PIPE SHALL CONFORM TO CITY STANDARD DETAIL NO. 06.01.01.
- STORM PIPE SHALL BE A MINIMUM OF 10 FEET AWAY FROM BUILDING FOUNDATIONS AND/OR ROOF LINES.
- ALL STORM DRAIN MAINS SHALL BE TESTED AND INSPECTED FOR ACCEPTANCE AS OUTLINED IN SECTION 406 OF THE CITY OF PUYALLUP SANITARY SEWER SYSTEM STANDARDS.
- ALL TEMPORARY SEDIMENTATION AND EROSION CONTROL MEASURES, AND PROTECTIVE MEASURES FOR CRITICAL AREAS AND SIGNIFICANT TREES SHALL BE INSTALLED PRIOR TO INITIATING ANY CONSTRUCTION ACTIVITIES.



FCMH80	
RIM = 63.10	IE 10" OUT 58.70
RECTANGULAR NOTCH ORIFICE 2.87" DIA IE 58.70	RECTANGULAR NOTCH ORIFICE 1.87" WIDE IE= 60.53
RISER OVERFLOW 18" DIA = 62.20	MAX WATER LEVEL 100 YR = 60.99

APPROVED

BY: _____
CITY OF PUYALLUP
ENGINEERING SERVICES

DATE: _____

NOTE: THIS APPROVAL IS VOID AFTER 1 YEAR FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE ENGINEERING SERVICES MANAGER.

- ### GENERAL NOTES:
- ALL WORK IN CITY RIGHT-OF-WAY REQUIRES A PERMIT FROM THE CITY OF PUYALLUP. PRIOR TO ANY WORK COMMENCING, THE GENERAL CONTRACTOR SHALL ARRANGE FOR A PRECONSTRUCTION MEETING AT THE DEVELOPMENT SERVICES CENTER TO BE ATTENDED BY ALL CONTRACTORS THAT WILL PERFORM WORK SHOWN ON THE APPROVED ENGINEERING PLANS, REPRESENTATIVES FROM ALL APPLICABLE UTILITY COMPANIES, THE PROJECT OWNER AND APPROPRIATE CITY STAFF. CONTACT ENGINEERING SERVICES AT (253-841-5568) TO SCHEDULE THE MEETING. THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN SET OF APPROVED PLANS AT THE MEETING.
 - AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT THE CONTRACTOR SHALL OBTAIN A "PUNCH LIST" PREPARED BY THE CITY'S INSPECTOR DETAILING REMAINING ITEMS OF WORK TO BE COMPLETED. ALL ITEMS OF WORK SHOWN ON THESE PLANS SHALL BE COMPLETED TO THE SATISFACTION OF THE CITY PRIOR TO ACCEPTANCE OF THE WATER SYSTEM AND PROVISION OF SANITARY SEWER SERVICE.
 - ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS"), WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER, LATEST EDITION, UNLESS SUPERSEDED OR AMENDED BY THE CITY OF PUYALLUP CITY STANDARDS FOR PUBLIC WORKS ENGINEERING AND CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "CITY STANDARDS").
 - A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
 - ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPER'S ENGINEER AND THE CITY PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THESE PLANS.
 - THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL (811) AT LEAST TWO WORKING DAYS IN ADVANCE. THE OWNER AND HIS/HER ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.
 - ANY STRUCTURE AND/OR OBSTRUCTION THAT REQUIRES REMOVAL OR RELOCATION RELATING TO THIS PROJECT SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.
 - LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE TRUE ELEVATIONS AND LOCATIONS OF HIDDEN UTILITIES. ALL VISIBLE ITEMS SHALL BE THE ENGINEER'S RESPONSIBILITY.
 - THE CONTRACTOR SHALL INSTALL, REPLACE, OR RELOCATE ALL SIGNS, AS SHOWN ON THE PLANS OR AS AFFECTED BY CONSTRUCTION, PER CITY STANDARDS.
 - POWER, STREET LIGHT, CABLE, AND TELEPHONE LINES SHALL BE IN A TRENCH LOCATED WITHIN A 10-FOOT UTILITY EASEMENT ADJACENT TO PUBLIC RIGHT-OF-WAY. RIGHT-OF-WAY CROSSINGS SHALL HAVE A MINIMUM HORIZONTAL SEPARATION FROM OTHER UTILITIES (SEWER, WATER, AND STORM) OF 5 FEET.
 - ALL CONSTRUCTION SURVEYING FOR EXTENSIONS OF PUBLIC FACILITIES SHALL BE DONE UNDER THE DIRECTION OF A WASHINGTON STATE LICENSED LAND SURVEYOR OR A WASHINGTON STATE LICENSED PROFESSIONAL CIVIL ENGINEER.
 - DURING CONSTRUCTION, ALL PUBLIC STREETS ADJACENT TO THIS PROJECT SHALL BE KEPT CLEAN OF ALL MATERIAL DEPOSITS RESULTING FROM ON-SITE CONSTRUCTION, AND EXISTING STRUCTURES SHALL BE PROTECTED AS DIRECTED BY THE CITY.
 - CERTIFIED RECORD DRAWINGS ARE REQUIRED PRIOR TO PROJECT ACCEPTANCE.
 - A NPDES STORMWATER GENERAL PERMIT MAY BE REQUIRED BY THE DEPARTMENT OF ECOLOGY FOR THIS PROJECT. FOR INFORMATION CONTACT THE DEPARTMENT OF ECOLOGY, SOUTHWEST REGION OFFICE AT (360)407-6300.
 - ANY DISTURBANCE OR DAMAGE TO CRITICAL AREAS AND ASSOCIATED BUFFERS, OR SIGNIFICANT TREES DESIGNATED FOR PRESERVATION AND PROTECTION SHALL BE MITIGATED IN ACCORDANCE WITH A MITIGATION PLAN REVIEWED AND APPROVED BY THE CITY'S PLANNING DIVISION. PREPARATION AND IMPLEMENTATION OF THE MITIGATION PLAN SHALL BE AT THE DEVELOPER'S EXPENSE.

BEFORE YOU DIG CALL 1-800-424-5555
NOT LESS THAN 48 HOURS BEFORE BEGINNING EXCAVATION FOR PIPE OR ANY UNDERGROUND UTILITIES MAY BE LOCATED.

CASCADE CHRISTIAN ATHLETIC FIELDS
DRAINAGE NOTES & DETAILS

SITE ADDRESS:
811 21ST ST SE
PUYALLUP, WA 98372

Vader Engineering
6817 27TH ST W, #65353
Tacoma, WA 98464
253.363.2065
rvader@vaderengineering.com

PROJECT NO. 2205	SCALE: N/A	DESIGNED: RSV	DRAWN: BDS	SAVED: 11/28/2023	PLOT DATE: 11/28/2023
#	REVISION				

C10
SHEET 10 OF 15

CASCADE CHRISTIAN ATHLETIC FIELDS

SEWER & WATER DETAILS

A PORTION OF THE S 1/2 OF SECTION 26 AND N 1/2 OF SECTION 35, TOWNSHIP 20 NORTH, RANGE 4 EAST, W.M. PIERCE COUNTY, WASHINGTON (CITY OF PUYALLUP)

COMMERCIAL SIDE SEWER CONNECTION WITH SAMPLING CONNECTION

NOTES:

- SAMPLING CONNECTION SHALL BE INSTALLED OUTSIDE WITH UNOBSTRUCTED ACCESS AT ALL TIMES.
- A SAMPLING CONNECTION SHALL BE INSTALLED FOR EACH COMMERCIAL / RETAIL UNIT OR SPACE.
- CLEAN OUT AND SAMPLING CONNECTION COVERS:
 - A) FOR NON-VEHICULAR TRAFFIC INSTALLATIONS USE "CARSON" MODEL 910 GREEN YARD BOX WITH BOLT DOWN LID MARKED SEWER OR APPROVED EQUAL.
 - B) FOR ASPHALT, GRAVEL, OR TRAFFIC INSTALLATIONS SEE CITY STANDARD DETAIL NO. 04.03.05 FRAME AND COVER SECTION.
- EACH CLEANOUT ASSEMBLY SHALL CONSIST OF: ONE CLEANOUT ADAPTER, HUB x FEMALE, FPT, PVC SI AND ONE CLEANOUT PLUG, MORT WITH RAISED NUT, PVC SDR35.

CITY OF PUYALLUP
DEVELOPMENT ENGINEERING AND PUBLIC WORKS DEPARTMENTS
04.03.04

WATER VALVES AND MAINS

NOTES:

- WATER MAINS SHALL HAVE A MINIMUM COVER OF 36" FROM FINISHED GRADE IN IMPROVED RIGHT-OF-WAY AND IMPROVED EASEMENTS AND A MINIMUM OF 48" IN UNIMPROVED RIGHT-OF-WAY AND UNIMPROVED EASEMENTS.
- VALVE OPERATING NUT EXTENSIONS ARE REQUIRED WHEN THE VALVE NUT IS MORE THAN FIVE (5) FEET BELOW FINISHED GRADE. EXTENSIONS ARE TO BE A MINIMUM OF TWO (2) FEET LONG, ONLY ONE EXTENSION TO BE USED PER VALVE. TOP OF EXTENSION SHALL BE 2 FEET 8 INCHES TO 3 FEET BELOW FINISHED GRADE.
- ALL VALVE OPERATING NUT EXTENSIONS ARE TO BE MADE OF STEEL, SIZED AS NOTED, AND PAINTED WITH TWO COATS OF METAL PAINT.
- VALVE BOXES SHALL BE TWO-PIECE, ADJUSTABLE, CAST IRON WITH EXTENSION PIECES (IF NECESSARY), AS MANUFACTURED BY THE VANHOEK #940 SEATTLE OR APPROVED EQUAL. THE WOOD "WATER" SHALL BE CAST IN RELIEF ON THE VALVE BOX COVER. VALVE BOX TOPS INSTALLED IN AERIAL ROADWAYS SHALL BE MANUFACTURED BY EAST JORDAN (EJ) IRONWORKS MODEL 8033 WITH VALVE BOX COVER MODEL 8800 OR APPROVED EQUAL.
- NEAT LINE CUTS SHALL BE SEALED WITH A HOT PAVING GRADE ASPHALT AND FACE OF CUT TACKED.
- WATER MAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH DIVISION 7 OF THE WSDOT STANDARD SPECIFICATIONS SUPPLEMENTED WITH THE FOLLOWING:
 - A. DUCTILE IRON PIPE SHALL CONFORM TO ASTM A 151, THICKNESS CLASS 52, AND THE EXTERIOR SHALL BE COATED WITH COAL TAR EPICURE. PIPE AND FITTINGS SHALL BE MOTOR LINED AND SHALL CONFORM TO ASTM C 104. THE THICKNESS OF THE LINING SHALL BE NOT LESS THAN 1/16" THICK FOR 3" TO 12" PIPE, 2-3/8" THICK FOR 14" TO 24" PIPE, AND 1/8" THICK FOR 30" TO 54" PIPE. THE CEMENT LINING SHALL CONFORM TO THE REQUIREMENTS OF ASTM C 150.
 - B. JOINTS SHALL BE TYTON PUSH-ON JOINTS, OR APPROVED EQUAL, OR MECHANICAL JOINT TYPE PER ASTM C 111 EXCEPT WHERE FLANGED JOINTS ARE REQUIRED TO CONNECT TO VALVES OR OTHER EQUIPMENT.
 - C. BOLTS AND NUTS FOR WELDED FLANGES LOCATED OUTDOORS, ABOVE GROUND, OR IN OPEN VAULTS IN STRUCTURES SHALL BE TYPE 316 STAINLESS STEEL CONFORMING TO ASTM A 193, GRADE B316 FOR BOLTS, AND ASTM A 194, GRADE B16 FOR NUTS. BOLTS AND NUTS LARGER THAN ONE AND ONE-QUARTER (1-1/4) INCH SHALL BE STEEL, ASTM A 307, GRADE B WITH OXIDATION RESISTANT ZINC 150, TYPE 15.
 - D. BOLTS USED IN FLANGED MANHOLE SEALS SHALL CONFORM TO ASTM A 193, GRADE B1. NUTS SHALL CONFORM WITH ASTM A 194, GRADE B1.
 - E. PROVIDE A WEDGE FOR EACH WHERE NEEDED. WEDGES SHALL BE OF THE SAME MATERIAL AS THE NUTS.
 - F. ALL FITTINGS SHALL CONFORM TO THE REQUIREMENTS OF ASTM C 110 AND ASTM C 111.
- RESILIENT SEATED WEDGE GATE VALVES SHALL BE USED FOR TEN (10) INCH MAINS AND SMALLER. BUTTERFLY VALVES SHALL BE USED FOR MAINS GREATER THAN TEN (10) INCHES.
 - 1) RESILIENT SEATED WEDGE GATE VALVES SHALL CONFORM TO THE LATEST ANSA SPECIFICATIONS FOR COLD WATER, DOUBLE-DISK GATE VALVES, 300 PSI WORKING PRESSURE. THEY SHALL BE NON-ROBBER, BRIDGE MOUNTED, NON-RISING STEM WITH TWO (2) HIGH SQUARE NUTS, COUNTER-BORE OPENING, MECHANICAL JOINTS, AND FLANGED ENDS (8" VALVES ON FIRE HYDRANT LINES WHICH SHALL BE MECHANICAL JOINTS BY FLANGED). VALVE STEMS SHALL BE PROVIDED WITH O-RING SEALS AND SHALL BE AS MANUFACTURED BY THE WHEELER COMPANY, APPROVED EQUAL.
 - 2) BUTTERFLY VALVES, BUTTERFLY VALVES CONFORMING WITH ASTM C 504, CLASS 150 AND SHALL HAVE STANDARD ANSA TWO (2) INCH SQUARE NUT, APPROVED EQUAL.
- DETECTABLE MARKING TAPE SHALL BE INSTALLED 18" ABOVE PIPE, BE BLUE IN COLOR, AND READ "CAUTION WATER LINE BELOW" WITH WSDOT SPEC. 9-15.18.

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VALVE MARKER POST

NOTES:

- MARKER POST WITH NUT-CLEAM SAFETY YELLOW #7543 OR APPROVED EQUAL.
- THE DISTANCE FROM THE MARKER POST TO THE WATER MAIN SHALL BE PAINTED ON THE BACKSIDE OF THE MARKER POST, IN BLACK WITH A 2" HIGH NUMBER.
- VALVE MARKER POST SHALL BE REQUIRED WHENEVER THE WATER VALVE IS LOCATED IN AN UNPAVED AREA.
- THE POST WILL ALSO BE REQUIRED FOR BLOW-OFF ASSEMBLIES IN THE SAME CONDITION AS WATER VALVES.
- LOCATION OF VALVE MARKER POSTS SHALL BE OFFSET AT RIGHT ANGLES TO EACH LINE VALVE.

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WATER MAIN CROSSING OTHER UTILITIES

NOTES:

- CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF EXISTING AND/OR PROPOSED UTILITIES.
- MINIMUM HORIZONTAL DISTANCE BETWEEN GAS, POWER, AND PHONE MEASURED FROM OUTER EDGE OF PIPE TO OUTER EDGE OF PIPE.
- MINIMUM HORIZONTAL DISTANCE BETWEEN WATER MAIN AND SEWER MEASURED FROM OUTER EDGE OF PIPE TO OUTER EDGE OF PIPE.
- MINIMUM VERTICAL CLEARANCE OF WATER ABOVE SEWER MEASURED FROM OUTER EDGE OF PIPE TO OUTER EDGE OF PIPE.

SEE CITY STANDARD 03.01.03-2 FOR ADDITIONAL NOTES FOR THIS DETAIL.

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WATER MAIN CROSSING OTHER UTILITIES (NOTES)

NOTES FOR WATER MAIN CROSSING OTHER UTILITIES
CITY STANDARD 03.01.03-1

WHEN LOCAL CONDITIONS PREVENT THE SEPARATIONS DESCRIBED ON CITY STANDARD 03.01.03-1, A SEWER MAY BE LAID CLOSER THAN 10- FEET HORIZONTALLY OR 18-INCHES VERTICALLY TO A WATER LINE, PROVIDED THE GUIDELINES BELOW ARE FOLLOWED:

UNUSUAL CONDITIONS (PARALLEL SYSTEMS)

- SEWER IS LAID IN A SEPARATE TRENCH FROM THE WATER LINE.
- AT LEAST 18-INCHES VERTICAL SEPARATION CANNOT BE OBTAINED, THE SEWER SHALL BE CONSTRUCTED OF MATERIALS AND JOINTS THAT ARE EQUIVALENT TO WATER MAIN STANDARDS OF CONSTRUCTION AND SHALL BE PRESSURE TESTED TO ENSURE WATER TIGHTNESS PRIOR TO BACKFILLING.
- THE WATER LINE SHALL BE PLACED ON A BED OF UNDISTURBED EARTH WITH THE BOTTOM OF THE WATER PIPE AT LEAST 18-INCHES ABOVE THE CROWN OF THE SEWER, AND SHALL HAVE AT LEAST 5'-FEET OF HORIZONTAL SEPARATION AT ALL TIMES. THE CITY RESERVES THE RIGHT TO REQUIRE SUPPLEMENTAL MITIGATION EFFORTS, SUCH AS IMPERMEABLE BARRIERS OR OTHER MEANS, FOR ADDITIONAL PROTECTION.
- THE SEWER SHALL NOT BE INSTALLED IN THE SAME DITCH AS A POTABLE WATER LINE WITHOUT PRIOR WRITTEN APPROVAL BY THE CITY OF PUYALLUP.

UNUSUAL CONDITIONS (PERPENDICULAR SYSTEMS)

CONDITION A - GRAVITY SEWERS PASSING UNDER WATER LINES (ALL OF THE FOLLOWING APPLY)

- ONE FULL SEGMENT (NOT LESS THAN 18'-FEET LONG) OF DUCTILE IRON CLASS 52 WATER PIPE, AND THE LONGEST STANDARD SEWER PIPE LENGTH AVAILABLE FROM THE MANUFACTURER SHALL BE USED WITH THE Joints COVERED TO MAXIMIZE JOINT SEPARATION.
- STANDARD GRAVITY-SEWER MATERIAL ENCASED IN CONCRETE OR IN A ONE-QUARTER-INCH THICK CONTINUOUS STEEL DUCTILE IRON, OR PRESSURE RATED PVC PIPE WITH A DIMENSION RATIO (THE RATIO OF THE OUTSIDE DIAMETER TO THE PIPE WALL THICKNESS) OF 18 OR LESS, WITH ALL JOINTS PRESSURE-GROUTED WITH SAND-CEMENT GROUT OR BENTONITE.
- EXAMPLE OF DIMENSION RATIO (DR): OUTSIDE PIPE DIAMETER DIVIDED BY THE WALL THICKNESS OR COU/7. FOR 8-INCH SCH. 80 PVC PIPE (2.625 INCHES), THE DR IS 8.825/0.317=27.8.

CONDITION B - GRAVITY SEWER PASSING OVER WATER LINES

WATER LINES SHALL BE PROTECTED BY PROVIDING:

- A VERTICAL SEPARATION OF AT LEAST 18-INCHES BETWEEN THE INVERT OF THE SEWER AND THE CROWN OF THE WATER LINE.
- ADEQUATE STRUCTURAL SUPPORT FOR THE SEWER LINE TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING ON AND BREAKING OF THE WATER LINE.
- THE SEWER PIPE SHALL BE THE LONGEST STANDARD SEWER PIPE LENGTH AVAILABLE FROM THE MANUFACTURER WITH THE WATER AND SEWER PIPES CENTERED TO MAXIMIZE JOINT SEPARATION.
- THE SEWER LINE CASING EQUIVALENT TO THAT SPECIFIED IN A2) ABOVE.

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2" AND SMALLER REDUCED PRESSURE BACKFLOW ASSEMBLY INSTALLATION

NOTES:

- BACKFLOW ASSEMBLY MUST BE SELECTED FROM WASHINGTON STATE DEPARTMENT OF HEALTH'S LIST OF BACKFLOW PREVENTION ASSEMBLIES APPROVED FOR INSTALLATION IN WASHINGTON STATE, LATEST EDITION.
- THE RPBA SHALL BE INSTALLED WITH ADEQUATE SPACE TO FACILITATE MAINTENANCE AND TESTING. IT SHALL BE TESTED AFTER INSTALLATION, BY A WASHINGTON STATE CERTIFIED BACK-FLOW ASSEMBLY TESTER, TO INSURE ITS SATISFACTORY OPERATION BEFORE OCCUPANCY, AND ANNUALLY THEREAFTER. SEND TEST RESULTS TO CITY OF PUYALLUP, WATER QUALITY OPERATIONS, 1100 30TH AVE SE, PUYALLUP, WA 98744.
- THE RPBA MUST BE PURCHASED AS A UNIT. NO MODIFICATIONS TO THE ASSEMBLY ARE ALLOWED.
- THE RPBA SHALL NOT BE INSTALLED IN A PIT BELOW GROUND LEVEL.
- THE PROTECTIVE COVERING FOR THE RPBA, WHICH PROTECTS THE ASSEMBLY FROM FREEZING, MUST INCLUDE A DAYLIGHT DRAIN. THE DRAIN MUST BE INSTALLED ABOVE GROUND OR ABOVE THE MAXIMUM FLOOD LEVEL, WHICHEVER IS HIGHER. THE DRAIN MUST BE A MINIMUM OF TWICE THE SIZE OF THE RPBA TO BE ABLE TO HANDLE THE VOLUME OF WATER THAT POTENTIALLY COULD BE DISCHARGED FROM THE RELIEF VALVE PORT.
- THE RPBA SHALL BE SIZED EQUAL OR COMPARABLE TO THE METER SIZE.
- USE ONLY BRASS OR COPPER BETWEEN THE METER AND THE BOTTOM VERTICAL 90 DEGREE BEND ON THE CUSTOMER'S SIDE OF THE RPBA.
- ELECTRIC UNIONS MUST BE USED TO SEPARATE DISSIMILAR MATERIALS.
- THE RPBA SHOULD BE LOCATED IMMEDIATELY DOWN STREAM OF THE METER, AND SHOULD NOT BE INSTALLED INSIDE A BUILDING.
- AN RPBA INSTALLED MORE THAN FIVE (5) FEET ABOVE FLOOR LEVEL MUST HAVE A PLATFORM UNDER IT FOR THE TESTER OR MAINTENANCE PERSON TO STAND ON. THE PLATFORM MUST BE SHIP APPROVED AND MEET ALL APPLICABLE SAFETY STANDARDS AND CODES.

CITY OF PUYALLUP
OFFICE OF THE CITY ENGINEER
03.04.02

BEFORE YOU DIG CALL 1-800-424-5555

NOT LESS THAN 48 HOURS BEFORE BEGINNING EXCAVATION NOTIFY ANY UNDERGROUND UTILITIES MAY BE LOCATED.

CASCADE CHRISTIAN ATHLETIC FIELDS

SEWER & WATER DETAILS

SITE ADDRESS: 811 21ST ST SE PUYALLUP, WA 98372

APPROVED

BY: CITY OF PUYALLUP ENGINEERING SERVICES

DATE:

NOTE: THIS APPROVAL IS VOID AFTER 1 YEAR FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE ENGINEERING SERVICES MANAGER.

APPROVED

BY: WATER PURVEYOR

DATE:

NOTE: THIS APPROVAL IS VOID AFTER 1 YEAR FROM APPROVAL DATE. WATER PURVEYOR WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE WATER PURVEYOR.

