STEWART PARK TENNIS & PICKLEBALL COURTS

GENERAL WATER NOTES:

1. ALL WATER SYSTEM WORK SHALL BE IN CONFORMANCE WITH ODOT 2024 STANDARD SPECIFICATIONS WITH SPECIAL PROVISIONS PROVIDED BY THE CITY. IN CASES OF CONFLICT, THE CITY OF ROSEBURG SPECIAL PROVISIONS SHALL TAKE PRECEDENCE OVER THE STANDARD SPECIFICATIONS.

2. A PRE-CONSTRUCTION MEETING SHALL BE HELD WITH THE ENGINEER AND CONTRACTOR PRIOR TO START OF CONSTRUCTION.

3. ALL PIPE FOR WATER MAINLINES SHALL BE THICKNESS CLASS DUCTILE IRON AS SPECIFIED IN ANSI/AWWA C151/A21.51-09, TABLE 3, UNLESS OTHERWISE SPECIFIED. 4-INCH DI PIPE SHALL BE CLASS 52, 6-INCH DI SHALL BE CLASS 51, AND 8-INCH THROUGH 16-INCH DI SHALL BE CLASS 50. 18-INCH & LARGER DI PIPE SHALL BE CLASS 52.

4. DUCTILE IRON PIPE SHALL BE MANUFACTURED IN THE UNITED STATES OF AMERICA IN ACCORDANCE WITH ANSI/AWWA C151/A21.51. APPROVED MANUFACTURES INCLUDE: AMERICAN DUCTILE IRON PIPE, MCWANE DUCTILE, AND U.S. PIPE, UNLESS OTHERWISE APPROVED BY THE CITY.

5. ALL METALLIC WATER MAIN PIPE SHALL BE ENCASED WITH V-BIO POLYETHYLENE ENCASEMENT OR APPROVED EQUAL.

6. ALL PIPE FITTINGS SHALL BE MANUFACTURED IN THE UNITED STATES OF AMERICA UNLESS OTHERWISE APPROVED BY THE CITY. THE ONLY EXCEPTION SHALL BE NON-DOMESTIC DUCTILE IRON FITTINGS MANUFACTURED BY MCWANE DUCTILE (TYLER/UNION) WHICH MEET THE REQUIREMENTS OF AWWA C153 AND C110 AND AS SPECIFIED BY CITY OF ROSEBURG SPECIAL PROVISIONS SECTION 2475.

7. GATE VALVES SHALL BE REDUCED-WALL DUCTILE IRON-BODY, RESILIENT-SEATED GATE VALVES MEETING THE REQUIREMENTS OF AWWA C515. ALL GATE VALVES SHALL BE MANUFACTURED IN THE UNITED STATES OF AMERICA UNLESS OTHERWISE APPROVED BY THE CITY OF ROSEBURG. APPROVED MANUFACTURES MAKES AND MODELS INCLUDE: AMERICAN FLOW CONTROL SERIES 2500, AMERICAN AVK SERIES 65, CLOW MODEL 2638, KENNEDY KS-RW, OR AN APPROVED EQUAL.

8. FIRE HYDRANT SHALL BE THREE PORT 5-1/4" DRY-BARREL WITH TWO 2-1/2" HOSE NOZZLES AND ONE 4-1/2" PUMPER NOZZLE. ALL COMPONENTS OF THE UPPER BARREL SECTION, AND LOWER BASE SECTION SHALL BE CONSTRUCTED OF DUCTILE IRION THAT MEETS OR EXCEEDS ALL THE REQUIREMENTS OF ANSI/AWWA C502 WITH A MINIMUM PRESSURE RATING OF 250 PSIG AND BE MANUFACTURED IN THE UNITED STATES OF AMERICA UNLESS OTHERWISE APPROVED BY THE CITY. APPROVED MANUFACTURES MAKES AND MODELS INCLUDE: AMERICAN FLOW CONTROL/WATEROUS PACER WB-67-250, AMERICAN AVK SERIES 2780 NOSTALGIC, KENNEDY GUARDIAN K81DI, OR APPROVED EQUAL.

9. THE CONTRACTOR SHALL HYDROSTATICALLY TEST, AND CHLORINATE ALL NEW WATER MAINLINES INSTALLED. THE ENGINEER SHALL WITNESS ALL TESTS MADE BY THE CONTRACTOR TO INSURE THEY ARE PERFORMED PROPERLY. TEST PRESSURES SHALL BE DETERMINED BY THE ENGINEER PRIOR TO THE TEST.

10. THE OWNER / DEVELOPER MUST COORDINATE WITH THE CITY OF ROSEBURG FIRE DEPARTMENT FOR PAYMENT OF FEES PRIOR TO PUBLIC WORKS SCHEDULING OF FIRE HYDRANT FLOW TESTING.

11. ALL CONSTRUCTION & TESTING IS SUBJECT TO INSPECTION BY THE CITY OF ROSEBURG PUBLIC WORKS DEPARTMENT AND THE ENGINEER. THE CONTRACTOR SHALL GIVE THE CITY AND THE ENGINEER 48 HOURS NOTICE PRIOR TO BEGINNING CONSTRUCTION AND 24 HOURS NOTICE PRIOR TO TESTING. THE CITY SHALL BE ON SITE TO WITNESS THE INSTALLATION OF JOINT RESTRAINT SYSTEMS.

12. NO OTHER MAJOR UTILITIES SHALL RUN PARALLEL WITHIN THREE (3) FEET OF THE NEW WATER MAIN.

13. RESTRAINED JOINT DUCTILE IRON PIPE AND FITTINGS SHALL BE PROVIDED AS IDENTIFIED ON THE ENGINEERED CONSTRUCTION DRAWINGS. ALL FITTINGS SHALL BE RESTRAINED TO THE SPECIFIED RESTRAINT DISTANCES AS REQUIRED FOR APPLICATION AND AS SHOWN ON THE ENGINEERED CONSTRUCTION DRAWINGS. OTHERWISE, MECHANICAL RESTRAINTS (I.E. MEGA-LUGS OR APPROVED EQUAL) SHALL BE REQUIRED AT ALL FITTINGS IN ADDITION TO THRUST BLOCKS. WHEN SPECIAL CIRCUMSTANCE DICTATES, THE CITY MAY REQUIRE 100% JOINT RESTRAINT ON ALL FITTINGS.

14. SERVICE WORK SHALL BE PROVIDED BY THE CONTRACTOR. CONTRACTORS CREWS WILL PROVIDE SERVICE LINE FROM MAIN AND SET THE METER BOX. CITY CREWS WILL SET METER AND APPURTENANCES. FOR STANDARD SERVICE CONNECTION SEE CITY STANDARD DRAWINGS.

15. ALL CITY WATER FACILITIES OUTSIDE RIGHT-OF-WAYS SHALL BE WITHIN 15 FT WIDE EASEMENTS CENTERED ON THE WATER UTILITY.

16. THE CITY OF ROSEBURG SHALL BE THE SOLE OPERATOR OF ALL WATERLINE VALVES ON THE EXISTING WATER SYSTEM. AT NO TIME SHALL THE CONTRACTOR OPERATE EXISTING VALVES TO SHUT OFF OR PRESSURIZE THE PIPELINE.

17. DETECTABLE MARKING WIRE FOR WATER LINES SHALL BE NO. 12 AWG SOLID COPPER WIRE WITH HIGH MOLECULAR WEIGHT POLYETHYLENE (HMWPE) INSULATION. THE HMWPE INSULATED COVER SHALL BE BLUE AND SHALL HAVE A MINIMUM THICKNESS OF 45 MILS. THE WIRE SHALL BE UL RATED FOR 140°F. JOINTS OR SPLICES IN WIRE SHALL BE WATERPROOF.

18. MARKING TAPE SHALL CONSIST OF INERT POLYETHYLENE PLASTIC THAT IS IMPERVIOUS TO ALL KNOWN ALKALIS, ACIDS, CHEMICAL REAGENTS AND SOLVENTS LIKELY TO BE ENCOUNTERED IN THE SOIL. THE TAPE SHALL BE A MINIMUM OF 6-INCHES IN WIDTH. THE TAPE SHALL BE BLUE AND SHALL BE IMPRINTED CONTINUOUSLY OVER IT'S ENTIRE LENGTH IN PERMANENT BLACK INK WITH THE WORDS "CAUTION BURIED WATER LINE BELOW".

19. MARKER BALLS (OMNI MODEL 161 (BLUE) OR APPROVED EQUAL), SHALL BE INSTALLED ON ALL PIPE 12-INCHES IN DIAMETER AND GREATER. MARKER BALLS ARE TO BE INSTALLED DIRECTLY ABOVE THE PIPE ALIGNMENT AT A DEPTH NOT LESS THAN 3 FEET AND NOT MORE THAN 4.5 FEET BELOW FINISH GRADE AT A SPACING OF 50 LINEAL FEET ON PIPE WITH STRAIGHT HORIZONTAL ALIGNMENT OR DEFLECTED RADIUS OF CURVATURE AND ALL VERTICAL AND HORIZONTAL BENDS, TEES, CROSSES, GATE VALVES AND TERMINATION POINTS.

20. MATERIAL SUBMITTALS ARE TO BE PROVIDED TO THE CITY FOR REVIEW AND APPROVAL PRIOR TO ORDERING MATERIALS. MATERIALS DELIVERED ON-SITE ARE TO BE INSPECTED BY THE CITY PRIOR TO INSTALLATION.

21. WATER MAINS SHALL BE SURVEY STAKED FOR ALIGNMENT AND GRADE PRIOR TO INSTALLATION.

22. PRIOR TO FINAL APPROVAL AND ISSUANCE OF CERTIFICATE OCCUPANCY BY THE CITY, THE FOLLOWING SHALL BE PROVIDED TO THE CITY:

1) COPIES OF RECORDED UTILITY EASEMENTS (IF ANY).
2) AS-BUILT DRAWINGS (PDF AND AUTOCAD FORMAT).
3) ONE YEAR PROJECT GUARANTEE (SIGNED BY CONTRACTOR).
4) CERTIFICATE OF COMPLETION (SIGNED BY ENGINEER)

GENERAL NOTES:

1. THE 2024 EDITION OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION PREPARED BY THE OREGON DEPARTMENT OF TRANSPORTATION AND THE AMERICAN PUBLIC WORKS ASSOCIATION OREGON CHAPTER WILL BE CONSIDERED THE STANDARD SPECIFICATIONS

2. TRENCH BACKFILL SHALL BE CLASS B (¾"-0, OR 1"-0 CRUSHED ROCK) WITHIN ALL STREET RIGHT OF WAYS AND UNDER ALL PARKING LOTS, AND CLASS A (SUITABLE EXCAVATED MATERIAL) ELSEWHERE, UNLESS SHOWN DIFFERENT ON TRENCH DETAIL OR IN SPECIFICATIONS. ALL TRENCHES WILL BE COMPACTED WITH HAND-OPERATED PNEUMATIC COMPACTOR.

3. THE CONTRACTOR SHALL REPLACE ANY AND ALL SURVEY MONUMENTS WHICH ARE AFFECTED BY THE CONSTRUCTION. ALL MONUMENTS WILL BE RESET BY A LICENSED LAND SURVEYOR.

4. LOCATIONS SHOWN ON ENGINEERING DRAWINGS ARE APPROXIMATE.

5. CONTRACTOR SHALL MAINTAIN A MINIMUM HORIZONTAL SEPARATION OF TEN (10) FEET BETWEEN WATER MAINS AND SEWER MAINS MEASURED EDGE TO EDGE OR AS ALLOWED PER SEE OAR 340-052, DIVISION 52, APPENDIX A AND OAR 333-061-0050(9).

6. INSULATED COPPER TONING WIRE APPROVED FOR DIRECT BURY SHALL BE PLACED IN ALL TRENCHES WHERE PIPE HAS BEEN LAID. ALL TONE WIRE SHALL BE TESTED PRIOR TO ACCEPTANCE.

7. THE CONTRACTOR SHALL NOTIFY ALL AFFECTED UTILITY COMPANIES FOR LOCATIONS OF MAINLINE AND SERVICE LINE LOCATIONS PRIOR TO DIGGING. CONTRACTOR TO CONTACT ONE-CALL AT LEAST 48 HOURS PRIOR TO CONSTRUCTION AT 1-800-332-2344.

ATTENTION:
OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN THE OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER. (NOTE: THE ADMINISTRATIVE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS (503) 232-1987).

8. ENGINEER AND CITY TO BE NOTIFIED FOR INSPECTION AS SHOWN ON SCHEDULE OR AS SPECIFIED IN "GENERAL NOTES" FOR THAT SPECIFIC CONSTRUCTION ITEM.

9. CONTRACTOR TO FIELD VERIFY TYPE, LOCATION, AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF NEW PIPING.

10. CONTRACTOR RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS FOR WORKING IN PUBLIC RIGHT OF WAYS. (i.e. ODOT, CITY, COUNTY).

11. COMPACTION TESTING IS REQUIRED ON ALL MAINLINE TRENCHES, SUBGRADE AND BASE ROCK MATERIALS. TESTING SHALL CONFORM TO SECTION 00405 FOR TRENCHES AND SECTION 00330 FOR SUBGRADE. AGGREGATE BASE MATERIAL SHALL BE PLACED IN CONFORMANCE WITH SECTION 00640 WITH THE EXCEPTION THAT COMPACTION OF EACH LAYER SHALL BE CONTINUED UNTIL A DENSITY OF NOT LESS THAN 95% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T99 (OR 90% AS DETERMINED BY ASTM D 1557 (OR AASHTO T 180)). FREQUENCY OF TESTING SHALL BE A MINIMUM OF 3 TESTS PER LIFT. WHEN QUANTITY EXCEEDS 2000 TONS PER LIFT, THEN ADDITIONAL TESTING IS REQUIRED AT THE RATE OF 3 TESTS PER 2000 TONS. ALL TEST RECORDS SHALL BE SUBMITTED TO THE ENGINEER BY THE FOLLOWING DAY.

12. STANDARD DRAWINGS SHOWN ON PLANS ARE SUBJECT TO CHANGE WITHOUT NOTIFICATION. CONTRACTOR TO VERIFY WITH AGENCY PRIOR TO CONSTRUCTION.

13. A PRE-CONSTRUCTION CONFERENCE WITH THE CITY AND ALL INTERESTED PARTIES SHALL BE HELD PRIOR TO ANY CONSTRUCTION.

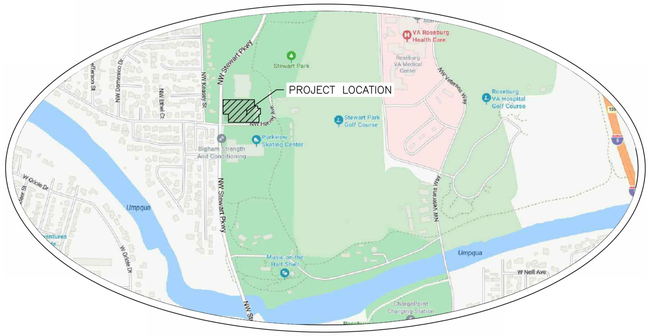
14. CONTRACTOR TO RELOCATE OR INSTALL MAIL BOXES, GROUPED MAIL BOXES, OR LOCK BOXES AS SHOWN ON PLANS. ALL MATERIALS SHALL BE SUPPLIED BY THE CONTRACTOR.

15. CONTRACTOR TO ADJUST ALL MANHOLES, VALVE BOXES, AND OTHER INCIDENTAL STRUCTURES TO FINAL GRADE.

16. CONCRETE FOR DRIVEWAYS AND SIDEWALKS IN PUBLIC R/W SHALL MEET ODOT/APWA SPECIFICATIONS.

17. ALL ASPHALT PAVEMENT SHALL BE LEVEL 2, ½" DENSE HMAC PER SECTION 00744 OF THE STANDARD SPECIFICATIONS. ASPHALT DEPTH TO BE VERIFIED WITH THE CITY.

18. CONCRETE FOR DRIVEWAYS AND SIDEWALKS IN THE PUBLIC RIGHT-OF-WAY SHALL MEET ODOT/APWA SPECIFICATIONS. DRIVEWAYS SHALL BE 4,000 PSI WITH FIBERMESH OR REBAR, SIDEWALKS SHALL BE 3,300 PSI STRENGTH.



VICINITY MAP
N.T.S

SHEET INDEX

C.1	COVER SHEET
C.2	SITE PLAN
C.3	DEMOLITION PLAN
C.4	GRADING & DRAINAGE PLAN
C.5	PAVING & STRIPING PLAN
C.6	UTILITY PLAN
C.7	HARDSCAPE PLAN
SD.1	STANDARD ROAD & SURFACE DETAILS
SD.2	STANDARD ROAD & SURFACE DETAILS
SD.3	STANDARD WATER DETAILS
SD.4	STANDARD STORM & TREE PROTECTION DETAILS
SD.5	LIGHTING DETAILS
EC.1	EROSION SHEETS ADDED WITH 90%
EC.2	DEMO & EROSION CONTROL PLAN
EC.3	ROAD, UTILITY & VERTICAL CONSTRUCTION
EC.4	GRADING & DRAINAGE PLAN
EC.5	HARDSCAPE/FINAL STABILIZATION
EC.6	EROSION CONTROL DETAILS
EC.7	EROSION CONTROL DETAILS
S5.1	SEAT WALL STRUCTURAL DETAIL

LANDSCAPE AND IRRIGATION NOTE:

1. THE CITY OF ROSEBURG WILL DESIGN AND INSTALL ALL LANDSCAPING AND IRRIGATION REQUIRED.

LIGHTING NOTE:

1. THE COURT LIGHTING WILL MEET THE STANDARDS AS SET FOURTH IN THE ROSEBURG ZONING ORDINANCE. THE LIGHTS WILL BE DIRECTED AND HOODED SO THEY SHINE ONLY ON THE OUTDOOR TENNIS & PICKLEBALL COURTS FOR THIS SITE.

QUANTITIES

1. ALL QUANTITIES SHOWN ARE FOR REFERENCE ONLY. CONTRACTOR SHALL INDEPENDENTLY VERIFY ALL QUANTITIES PRIOR TO BIDDING THIS PROJECT.

GENERAL PLUMBING NOTES:

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A PLUMBING PERMIT FROM THE LOCAL BUILDING DEPARTMENT FOR THE INSTALLATION AND INSPECTION OF ALL ONSITE STORM DRAINAGE AND PRIVATE WATER RELATED INFRASTRUCTURE AT NO ADDITIONAL COST TO THE OWNER.

2. ALL PRIVATE STORM SYSTEMS SHALL HAVE CLEANOUTS AS REQUIRED BY PLUMBING CODE. CONTRACTOR SHALL BE REQUIRED TO FOLLOW PLUMBING CODE WHEN INSTALLING ALL ASPECTS OF THE PRIVATE STORM SYSTEM. FOR CLARITY, NOT ALL CLEANOUTS AS NEEDED ARE SHOWN ON THIS PLAN SET.

3. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL BENDS, FITTINGS AND APPURTENANCES AS NEEDED TO INSTALL ALL WATER AND STORM SYSTEMS AT NO ADDITIONAL COST TO THE OWNER.

(ELEV.)	EXISTING ELEV.
ELEV.	NEW ELEV.
	SAW CUT
TV	EXISTING CABLE TV
	EXISTING EDGE OF AC OR GRAVEL
POH	EXISTING POWER (OVERHEAD)
PUG	EXISTING POWER (UNDERGROUND)
UGU	NEW UNDERGROUND (TV, POWER, PHONE)
GAS	EXISTING GAS
R/W	EXISTING RIGHT-OF-WAY
R/W	NEW RIGHT-OF-WAY
X	EXISTING FENCE
X	NEW FENCE
W	EXISTING WATER
W	NEW WATER
STS	EXISTING STORM SEWER (STS)
STS	NEW STORM SEWER (STS)
SS	EXISTING SANITARY SEWER (SS)
SS	NEW SANITARY SEWER (SS)
PS	EXISTING PRESSURE SEWER (PS)
PS	NEW PRESSURE SEWER (PS)
FM	EXISTING FORCE MAIN (FM)
FM	NEW FORCE MAIN (FM)
S-F	SILT FENCE (S-F)
c	NEW ELECTRICAL CONDUIT
	PROPERTY LINE
TC	TOP OF CURB
AC	ASPHALT
BW	BACK OF WALK
FG	FINISH GRADE
FF	FINISH FLOOR
OG	ORIGINAL GROUND
TW	TOP OF WALK
TFC	TOP FACE OF CURB
BFC	BTM FACE OF CURB
WOP	TOP OF WALL
WOE	TOE OF WALL
	EXISTING VALVE
	NEW VALVE
	EXISTING MANHOLE (MH)
	NEW MANHOLE (MH)
	POWER POLE
	PHONE PED
	EXISTING LIGHT POLE
	NEW LIGHT POLE
MAIL	MAIL BOX
	EXISTING WATER SERVICE
	NEW WATER SERVICE
	BLOWOFF
	EXISTING CURB INLET (CI)
	NEW CURB INLET (CI)
	EXISTING CATCH BASIN (CB)
	NEW CATCH BASIN (CB)
	CLEANOUT
	GUY WIRE
	GAS METER
	EXISTING FIRE HYDRANT
	NEW FIRE HYDRANT
	LANDSCAPING

DEVELOPER/OWNER:
CITY OF ROSEBURG
900 SE DOUGLAS AVE
ROSEBURG, OR 97470

ENGINEER:
I.E. ENGINEERING
CONTACT: ALEX M. PALM, PE
809 SE PINE STREET
ROSEBURG, OR 97470
PHONE: 541-673-0166
FAX: 541-440-9392

PROJECT LOCATION:
1201 NW STEWART PKWY
ROSEBURG, OR 97471

PROJECT ZONING:
TRACT: 73.25 ACRES
ZONE: PR (PUBLIC RESERVE)
WATER: CITY OF ROSEBURG WATER DEPARTMENT
SEWER: (RUSA) ROSEBURG URBAN SANITARY AUTHORITY
FIRE: CITY OF ROSEBURG

PROPERTY DESCRIPTION:
DOUGLAS COUNTY TAX LOT NUMBER: 100 LOCATED IN NE¼ OF SECTION 14, TOWNSHIP 27 S, RANGE 06 W, WILLAMETTE MERIDIAN, DOUGLAS COUNTY, OREGON

ASBESTOS SPECIAL NOTE
MATERIALS CONTAINING ASBESTOS MAY BE PRESENT IN UNDERGROUND PIPE SYSTEMS. ALL APPROPRIATE FEDERAL, STATE, COUNTY AND MUNICIPAL RULES, REGULATIONS AND GUIDELINES MUST BE FOLLOWED WHEN WORKING WITH ASBESTOS-CONTAINING MATERIAL. NONFRIABLE MATERIAL MUST BE HANDLED, TRANSPORTED AND DISPOSED OF IN A WAY THAT PREVENTS IT FROM BECOMING FRIABLE AND RELEASING ASBESTOS FIBERS. IF AC PIPE IS SHATTERED, DAMAGED OR BADLY WEATHERED, IT IS CONSIDERED TO BE FRIABLE AND WILL LIKELY RELEASE ASBESTOS FIBERS. DEQ LICENSED ASBESTOS ABATEMENT CONTRACTOR USING DEQ CERTIFIED WORKERS MUST REMOVE ALL FRIABLE ASBESTOS MATERIAL. ANY AND ALL PERMITS AND FEES THAT ARE REQUIRED BY THE DEQ, DOUGLAS, COUNTY AND ANY OTHER REGULATORY AGENCY MUST BE OBTAINED BY THE OWNER AT THE OWNERS EXPENSE PRIOR TO DISPOSING OF THE ASBESTOS CONTAINING MATERIAL. FOR INFORMATION ABOUT ASBESTOS RULES, CONTACT THE DEQ WESTERN REGION OFFICE IN MEDFORD, OREGON.

EROSION CONTROL NOTE
CONTRACTOR SHALL BE REQUIRED TO PROVIDE THEIR OWN EROSION CONTROL SITE INSPECTOR PRIOR TO THE START OF CONSTRUCTION AND MODIFY DEQ PERMIT AS NEEDED TO CHANGE THE INSPECTOR AND RESPONSIBLE PARTY FOR THE PERMIT.

GEOTECHNICAL REPORT NOTES:

1. THE "GEOTECHNICAL DESIGN RECOMMENDATIONS UMPQUA VALLEY TENNIS CENTER OUTDOOR TENNIS COURTS IMPROVEMENTS 1201 NW STEWART PARKWAY ROSEBURG, OREGON" WAS PREPARED BY THE GALLI GROUP ENGINEERING CONSULTING, DATED APRIL 19, 2024 AND ANY SUBSEQUENT UPDATES, SHALL BE CONSIDERED PART OF THESE PLANS AND REFERENCED FOR ALL SITE CONSTRUCTION.

2. EXCAVATION, GRADING, TESTING AND EMBANKMENT PLACEMENT SHALL BE COMPLETED AS PER RECOMMENDATIONS OF THE REPORT.

3. THE CONTRACTOR SHALL COORDINATE WITH THE GEOTECHNICAL ENGINEER AND TESTING FIRM DURING ALL STAGES OF GRADING TO ALLOW FOR SCHEDULING ON SITE VISITS, TESTING, AND SPECIAL INSPECTION.

4. ALL SITE CLEARING AND GRUBBING OF TOPSOIL/ORGANIC MATERIAL SHALL BE PER THE RECOMMENDATIONS OF THE GEOTECHNICAL EVALUATION REPORT.

5. THIS PROJECT WILL UTILIZE "OPTION ONE (1): TENNIS COURT SUPPORT SECTION – CEMENT TREATED SUBGRADE" OR "OPTION TWO (2): TENNIS COURT SUPPORT SECTION – ROCK BASE/SUBBASE (REMOVE AND REPLACE)" OF THE REPORT. CONTRACTOR SHALL SUBMIT BIDS FOR BOTH OPTIONS.

6. IF DETAILS IN THE PLANS DIFFER FROM THOSE OF THE REPORT, THE REPORT SHALL TAKE PRECEDENCE OVER THE DETAILS.

UTILITY COMPANIES & CONTACTS

COMPANY	CONTACT	PHONE	FAX
Avista Utilities P.O. Box 1520 Roseburg, OR 97470	Ryan Forsloff Corporate Office	541-440-1162 800-659-4427	541-672-571
Century Link/Lumen	Lance Harvey	503-416-1541	
Charter Communications 575 W. Harrison Roseburg, OR 97470	Aaron Wilson	541-778-0957	541-672-5193
Douglas Fast Net 480 Oakland Ave., NE Roseburg, OR 97470	Todd Way	541-673-4242	
Pacific Power 4025 Old Hwy 99 South Roseburg, OR 97470	Shannon Watson Martha Warner	541-679-3671 541-679-3642	541-679-3626
Roseburg, City of, Water Dept. 900 SE Douglas Roseburg, OR 97470	Velorie Ligon Daryn Anderson	541-492-6730 541-492-6885	
RUSA 1297 NE Grandview PO Box 1185 Roseburg, OR 97470	Ryon Kershner	541-672-1551	541-672-7548

CITY PUBLIC WORKS INSPECTION SCHEDULE WITHIN PUBLIC RIGHT-OF-WAY OR EASEMENT:
CITY OF ROSEBURG SHALL BE NOTIFIED FOR INSPECTION OF PUBLIC FACILITIES AT LEAST 24 HOURS PRIOR TO THE ACCOMPLISHMENT OF THE FOLLOWING STAGES OF CONSTRUCTION.
PHONE: 541-492-6730. FAX: 672-2785.
1. ANY STORM SEWER CONSTRUCTION (INCLUDING STRUCTURES)
2. FINISH SUB-GRADE. (PRIOR TO FABRIC INSTALLATION)
3. SOIL STABILIZATION FABRIC INSTALLATION
4. ANY CONCRETE WORK
5. FINISH BASE COURSE GRADE
6. TELEVISION INSPECTION OF STORM DRAINAGE (PRIOR TO FINAL PAVING)
7. PAVING

NONE OF THE ABOVE ITEMS OF WORK SHALL BE COVERED UNTIL INSPECTED BY THE CITY OF ROSEBURG PUBLIC WORKS.

CITY OF ROSEBURG
Public Works Dept.
Development Plan Review

☐ Approved for Development ☐ Approved with Conditions

By _____

Date _____

CALL BEFORE YOU DIG !
ONE CALL: (800) 332-2344
OAR 952-001-0010 THROUGH OAR 952-001-0090

civil
structural
surveying
architecture
planning

i.e. Engineering, inc.
809 SE Pine St
Roseburg, OR

ieengineering.com

REGISTERED PROFESSIONAL ENGINEER
58073PE
Digitally signed by Alex M Palm
Date: 2025.02.13 14:43:27-08'00'
OREGON
JULY 13, 2004
ALEX M. PALM

EXPIRES: 12/31/2026

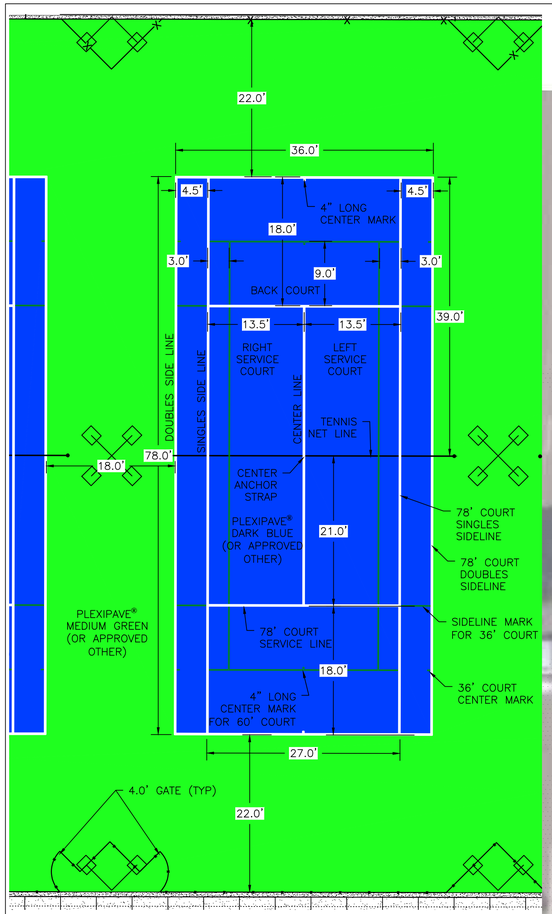
Rev.	Date	Dwg	Description

STEWART PARK TENNIS & PICKLEBALL COURTS
1201 NW STEWART PKWY
ROSEBURG, OR 97471
COVER SHEET & GENERAL NOTES
SCALE: NONE
FEBRUARY 13, 2025
ISSUE: IMD SET

PROJECT NO. 0149-226
DRW. DTM
CHK. EGB

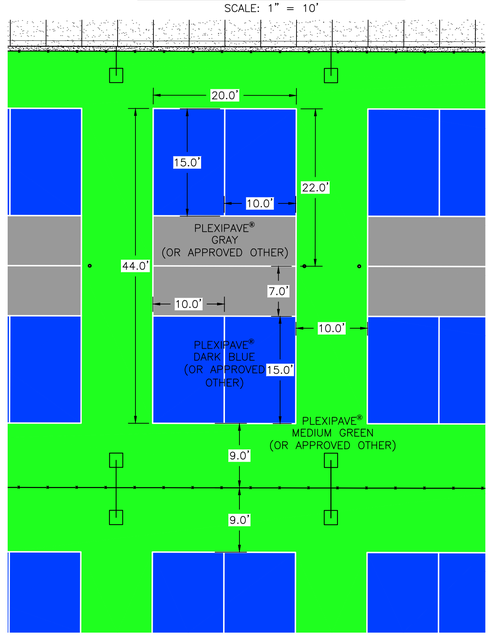
Z:_JOBS\0149-City of Roseburg\149-226 Stewart Park Tennis & Pickleball Courts\DESIGN\CAD\0149-226_C-SET.dwg
DaveM Feb 12, 2025

C.1



TYPICAL TENNIS COURT LAYOUT

SCALE: 1" = 10'



TYPICAL PICKLEBALL COURT LAYOUT

SCALE: 1" = 10'

UMPQUA VALLEY TENNIS CENTER INDOOR BUILDING

UMPQUA VALLEY TENNIS CENTER PARKING LOT

12' TALL EXTERIOR FENCE

12' WIDE DOUBLE MAINTENANCE GATE

12' TALL INTERIOR TENNIS FENCE

8' WIDE DOUBLE ELECTRONIC ACCESS GATE

NEW DRINKING FOUNTAIN WITH SPIGOT

2 STEPS

42" TALL INTERIOR PICKLEBALL FENCES

NW STEWART PARKWAY

NW HARVEY AVE

TO PARKING LOT FOR UVTC & GOLF COURSE

ENTRANCE TO YMCA

CALL BEFORE YOU DIG !
ONE CALL: (800) 332-2344
OAR 952-001-0010 THROUGH
OAR 952-001-0090

0' 10' 20' 40'
SCALE: 1"=20'

civil
structural
surveying
architecture
planning

i.e. Engineering, inc.
809 SE Pine St
Roseburg, OR

ieengineering.com

REGISTERED PROFESSIONAL ENGINEER
58073PE
OREGON
JULY 13, 2004
ALEX M. PALM

Digitally signed by Alex M Palm
Date: 2025.02.13 14:43:39-08'00'

EXPIRES: 12/31/2026

Rev.	Date	Dwg	Description

STEWART PARK TENNIS & PICKLEBALL COURTS

1201 NW STEWART PKWY
ROSEBURG, OR 97471

SITE PLAN

SCALE: AS SHOWN
FEBRUARY 13, 2025

PROJECT NO. 0149-226
DRW. DTM
CHK. EGB
ISSUE: BID SET

C.2

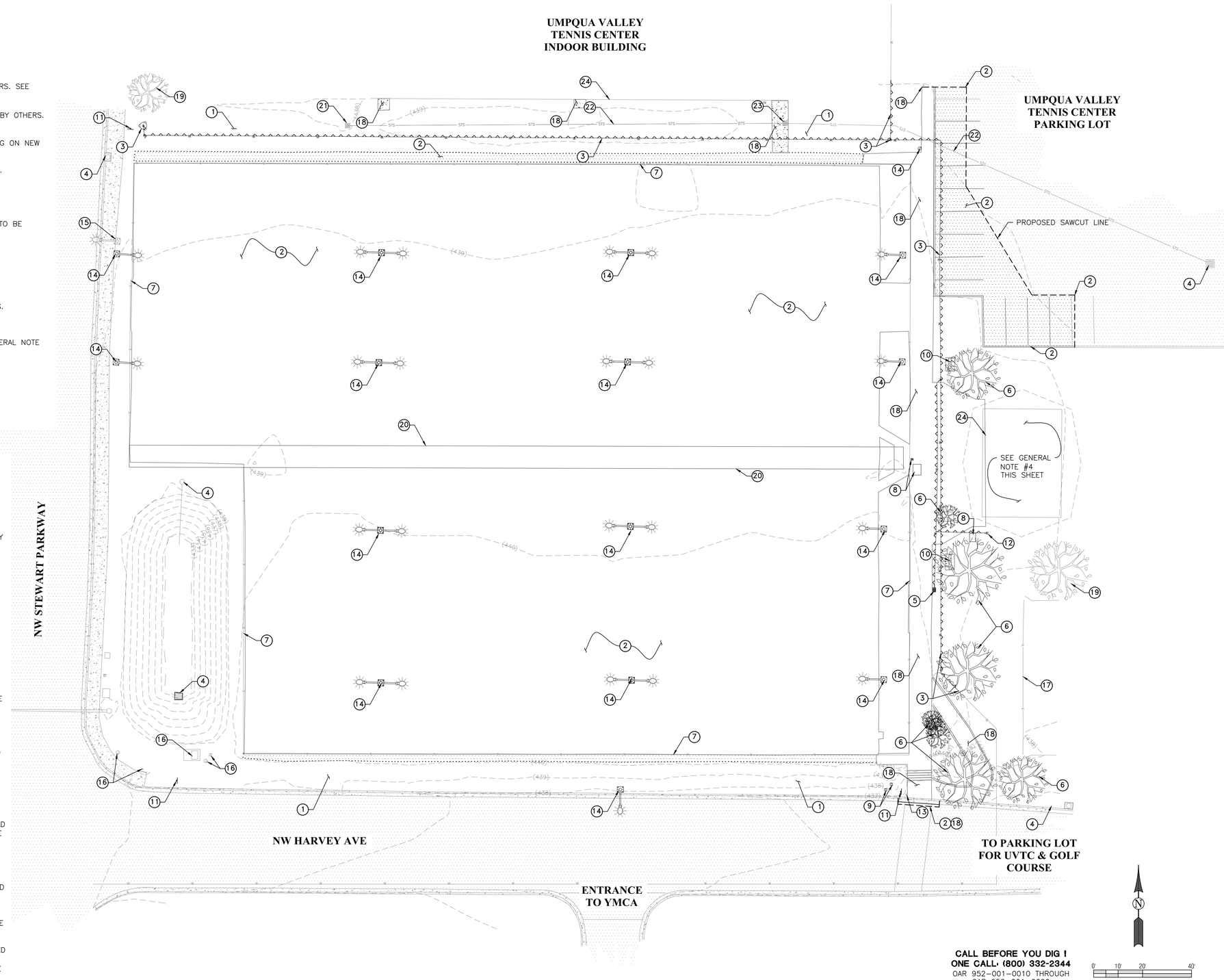
DoreM Feb 12, 2025 Z:\Jobs\0149-City of Roseburg\0149-226 Stewart Park Tennis & Pickleball Courts\DESIGN\CAD\0149-226_C.dwg

KEYED DEMOLITIONTION NOTES:(#)

1. CLEAR AND GRUB EXISTING GROUND AS NEEDED. REMOVE AND DISPOSE OF ALL ORGANIC MATERIAL.
2. SAWCUT, REMOVE AND RECYCLE EXISTING ASPHALT.
3. REMOVE AND DISPOSE OF EXISTING FIRE HYDRANT AND WATER LINE. SEE GENERAL NOTE #7 BELOW. RETURN FIRE HYDRANT TO CITY MAINTENANCE FACILITY.
4. PROTECT EXISTING CATCH BASIN/MANHOLE AND RELATED PIPING.
5. REMOVE AND SAVE EXISTING WATER METER FOR FUTURE USE.
6. REMOVE AND DISPOSE OF EXISTING TREES, TO INCLUDE ROOT BALL.
7. EXISTING FENCE TO BE REMOVED BY OTHERS PRIOR TO CONSTRUCTION.
8. RELOCATE EXISTING POWER STRUCTURE AND RELATED CONDUIT/WIRE, BY OTHERS. SEE DEMOLITION NOTE #12 THIS SHEET.
9. RELOCATE EXISTING COMMUNICATION STRUCTURE AND RELATED CONDUIT/WIRE, BY OTHERS. SEE DEMOLITION NOTE #12 THIS SHEET.
10. REMOVE AND REINSTALL EXISTING BENCH. COORDINATE WITH CITY OF ROSEBURG ON NEW LOCATION.
11. REMOVE AND SAVE EXISTING SIGN. SEE PAVING SHEET C.5 FOR NEW LOCATION.
12. SAVE AND PROTECT EXISTING IRRIGATION VALVE.
13. PROTECT AND SAVE EXISTING WATER VALVE. ADJUST VALVE BOX AS NEEDED.
14. REMOVE AND DISPOSE OF EXISTING LIGHT POLE, COMPLETE. LIGHT AND POLE TO BE RELOCATED BY OTHERS. SEE DEMOLITION NOTE #12 THIS SHEET.
15. SAVE AND PROTECT EXISTING LIGHT POLE.
16. SAVE AND PROTECT EXISTING POWER/COMMUNICATION STRUCTURE.
17. SAVE AND PROTECT EXISTING FENCE.
18. SAWCUT, REMOVE AND DISPOSE OF EXISTING CONCRETE AND CONCRETE STAIRS.
19. PROTECT AND SAVE EXISTING TREE PER DETAIL 7/SD.4
20. REMOVE AND DISPOSE OF EXISTING WOODEN STRUCTURE, COMPLETE. SEE GENERAL NOTE #2 BELOW.
21. REMOVE AND DISPOSE OF EXISTING DITCH INTERCEPTOR.
22. SAVE AND PROTECT EXISTING STORM PIPE.
23. REMOVE EXISTING CATCH BASIN AND RECONNECT PIPE AS NEEDED.
24. PROTECT AND SAVE EXISTING BUILDING.

GENERAL DEMOLITION NOTES:

1. PRIOR TO CONSTRUCTION, THE EXISTING PERIMETER CHAIN LINK FENCING WILL BE MOVED AND REUSED BY OTHERS. (NOT PART OF THESE PLANS)
2. PRIOR TO CONSTRUCTION, THE TENNIS CENTER AND THE CITY OF ROSEBURG WILL HAVE HEARTWOOD RESOURCES REMOVE AND RECYCLE ANY OF THE INTERNAL WOOD THAT IS RECYCLABLE. THE REMAINDER OF THE INTERNAL WOODEN FENCING WILL NEED TO BE REMOVED AND DISPOSED OF OFF-SITE BY THE CONTRACTOR. IT IS UNKNOWN IF ANY OR ALL OF THE WOOD WILL BE RECYCLED AND THE CONTRACTOR SHOULD TAKE THIS INTO ACCOUNT WHEN BIDDING. NO ADDITIONAL FUNDS OR CHANGE ORDERS WILL BE PROVIDED TO THE CONTRACTOR REGARDING THIS ISSUE.
3. CONTRACTOR SHALL RECYCLE THE EXISTING ASPHALT INTO GRINDINGS AT NO ADDITIONAL COST TO THE OWNER.
4. CONTRACTOR SHALL PROTECT EXISTING ABANDONED BUILDING DURING CONSTRUCTION.
5. CONTRACTOR SHALL MAINTAIN ACCESS AND EXISTING TRAFFIC FLOWS INTO THE EXISTING TENNIS CENTER PARKING LOT DURING CONSTRUCTION.
6. CONTRACTOR SHALL PROTECT EXISTING TENNIS CENTER BUILDING DURING CONSTRUCTION.
7. CONTRACTOR SHALL NOT REMOVE EXISTING FIRE HYDRANT UNTIL THE NEW FIRE HYDRANT HAS BEEN INSTALLED, TESTED, AND IS OPERATIONAL.
8. CONTRACTOR SHALL PROTECT AND MAINTAIN ACCESS TO THE EXISTING HORSESHOE PIT AREA.
9. PRIOR TO CONSTRUCTION, THE TENNIS CENTER WILL REMOVE ALL NETTING AND OTHER APPURTENANCES THAT CAN BE REUSED BY THE TENNIS CENTER. ALL ITEMS LEFT WILL NEED TO BE REMOVED AT NO ADDITIONAL COST TO THE OWNER.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A PUBLIC WORKS RIGHT-OF-WAY PERMIT FOR ALL WORK IN BOTH STEWART PARKWAY AND HARVEY AVENUE. IT SHOULD BE NOTED THAT HARVEY AVENUE ADJACENT TO THE TENNIS COURTS IS NOT TECHNICALLY A PUBLIC RIGHT-OF-WAY, IT INSTEAD IS A CITY OWNED TAX LOT. FOR THE PURPOSE OF THIS PROJECT, IT WILL BE TREATED LIKE A PUBLIC RIGHT-OF-WAY. CONTRACTOR SHALL ALSO SUBMIT FOR REVIEW AND APPROVAL A TRAFFIC CONTROL PLAN TO THE CITY OF ROSEBURG FOR APPROVAL AS NEEDED FOR THE INSTALLATION OF THE NEW SIDEWALKS ALONG HARVEY AVENUE.
11. CONTRACTOR SHALL INSTALL A CROSSWALK CLOSED SIGN AND RELATED NEEDED SIGNAGE DURING CONSTRUCTION FOR THE EXISTING CROSSWALK ON HARVEY AVENUE.
12. SOME UTILITIES WILL NEED TO BE RELOCATED DURING DEMOLITION AND BEFORE ACTUAL CONSTRUCTION BEGINS. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL AFFECTED UTILITY COMPANIES AS NEEDED IN THE RELOCATION OF EXISTING INFRASTRUCTURE. THESE UTILITIES WILL BE RELOCATED AT THE RESPECTIVE UTILITY COMPANY'S EXPENSE PER THE FRANCHISE AGREEMENT WITH THE CITY OF ROSEBURG. NO CONTRACT EXTENSIONS WILL BE AWARDED DUE TO UTILITY RELOCATES.



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ALEX M. PALM

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Rev.	Date	Dwg	Description

STEWART PARK TENNIS & PICKLEBALL COURTS
1201 NW STEWART PKWY
ROSEBURG, OR 97471
DEMOLITION AND EROSION CONTROL PLAN
SCALE: AS SHOWN
FEBRUARY 13, 2025
ISSUE: BID SET
PROJECT NO. 0149-226
DRW: DTM
CHK: EGB

C.3

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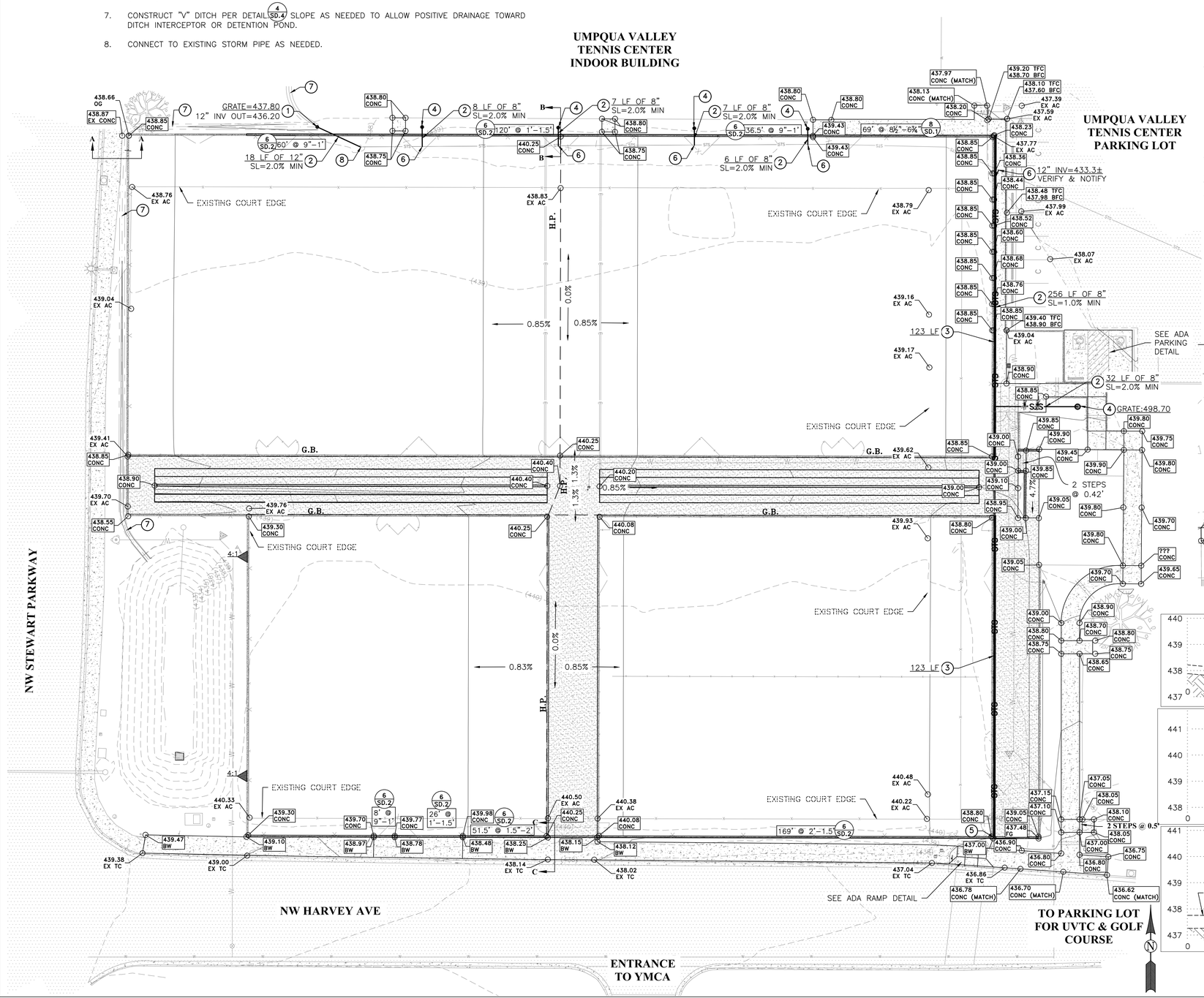
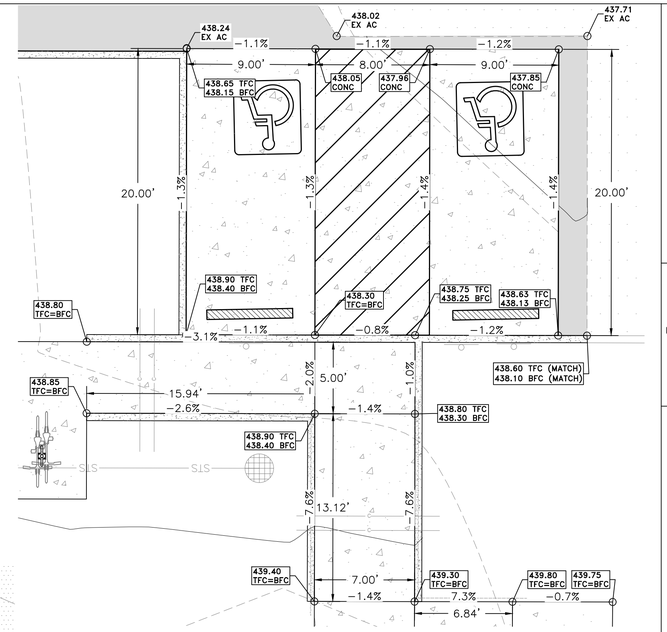
KEYED STORM CONSTRUCTION NOTES: (#)

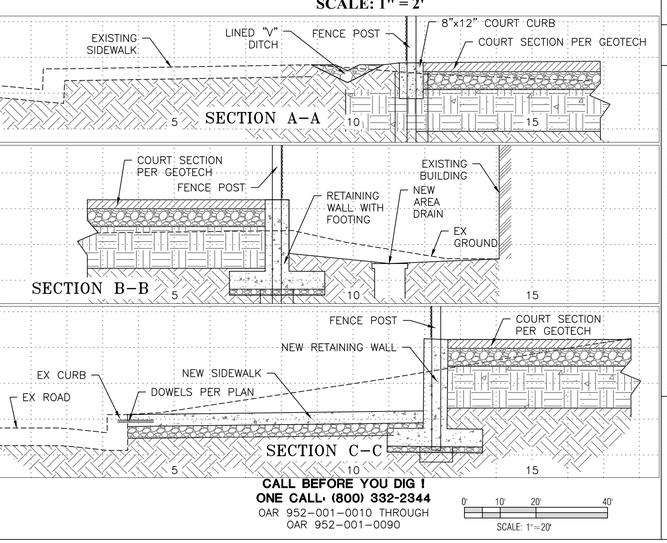
1. INSTALL DITCH INTERCEPTOR PER DETAIL 1/SD.4 INVERTS PER PLAN.
2. INSTALL N-12 CORRUGATED STORM PIPE PER DETAIL 5/SD.4 LENGTH, SIZE AND SLOPE PER PLAN.
3. INSTALL RIBBON DRAIN PER DETAIL 2/SD.4 6/SD.4 CONNECT 4" PIPE TO NEW STORM PIPE AS NEEDED.
4. INSTALL 12" INLINE NYLOPLAST DRAIN WITH 8" OUTLET, PART NUMBER 2712AG08X OR APPROVED EQUAL. INSTALL DUCTILE IRON PEDESTRIAN GRATE. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. ADJUST RIM AS NEEDED TO FINISHED GRADE.
5. INSTALL CLEANOUT PER DETAIL 3/SD.4 AS NEEDED PER PLUMBING CODE. PLEASE NOTE, CLEANOUTS ARE NOT SHOWN ON PLANS. SEE GENERAL STORM NOTE #5 THIS SHEET.
6. CONNECT TO EXISTING PIPE WITH INSERTA-TEE OR CUT-IN FABRICATED TEE. SEE GENERAL NOTES #1 & #2 THIS SHEET.
7. CONSTRUCT "V" DITCH PER DETAIL 4/SD.4 SLOPE AS NEEDED TO ALLOW POSITIVE DRAINAGE TOWARD DITCH INTERCEPTOR OR DETENTION POND.
8. CONNECT TO EXISTING STORM PIPE AS NEEDED.

GENERAL STORM CONSTRUCTION NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL FITTINGS, BENDS AND APPURTENANCES AS NEEDED TO CONNECT STORM SYSTEMS AT NO ADDITIONAL COST.
2. CONTRACTOR SHALL POTHOLE ALL STORM AT TIE-INS AND CROSSINGS TO VERIFY SIZE, DEPTH AND MATERIAL OF EXISTING STORM INFRASTRUCTURE PRIOR TO CONSTRUCTION AND CONTACT ENGINEER IF THE INVERTS DO NOT MATCH PLANS.
3. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL SAFETY MEASURES AS NEEDED AT ALL MAIN ACCESS ROADS.
4. CONTRACTOR SHALL CONNECT/RECONNECT ROOF DRAINS TO NEW STORM SYSTEM AS NEEDED AT NO ADDITIONAL COST TO THE OWNER.
5. ALL CLEANOUTS REQUIRED BY PLUMBING CODE TO REMAIN OUTSIDE OF COURT AREA.







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STEWART PARK TENNIS & PICKLEBALL COURTS

1201 NW STEWART PKWY
ROSEBURG, OR 97471

GRADING & DRAINAGE PLAN

SCALE: AS SHOWN
FEBRUARY 13, 2025
ISSUE: BID SET

PROJECT NO. 0149-226
DRW: DTM
CHK: EGB

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KEYED CONSTRUCTION NOTES: (#)

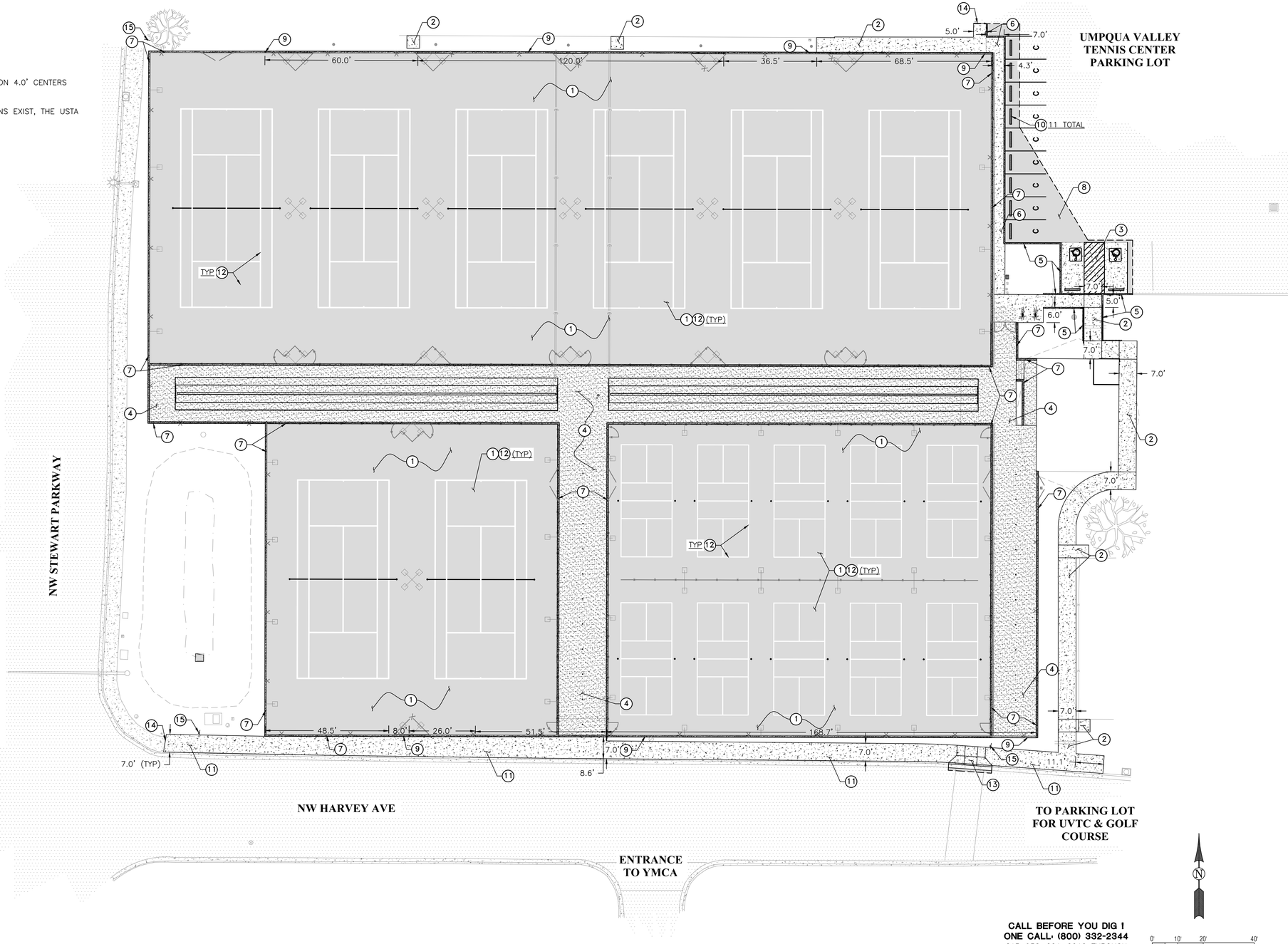
1. CONSTRUCT TENNIS/PICKLEBALL COURT ASPHALT SURFACE PER SECTION DETAIL. (4A SD.1) (4B SD.1) SEE GENERAL CONSTRUCTION NOTE #3 THIS SHEET. INSTALL LIQUID APPLIED ACRYLIC SURFACE SYSTEM (NON-CUSHIONED) COATING ON COURT PER MANUFACTURER'S RECOMMENDATIONS. SEE GENERAL STRIPING NOTE #6 BELOW. SEE HARDSCAPE PLAN SHEET C.5 FOR MORE DETAIL.
2. CONSTRUCT SIDEWALK PER SECTION DETAIL. (2C SD.1) WIDTH PER PLAN.
3. CONSTRUCT DUAL ADA SPACE PER DETAILS. (2B SD.1) (9 SD.1) COMPLETE IN PLACE.
4. CONSTRUCT FIBER REINFORCED CONCRETE PATIO PER DETAIL. (2A SD.1)
5. CONSTRUCT STANDARD CURB PER DETAIL. (3 SD.1)
6. CONSTRUCT MONOLITHIC CURB AND SIDEWALK PER DETAIL. (5 SD.1)
7. CONSTRUCT COURT OUTSIDE CURB PER DETAIL. (7 SD.1)
8. INSTALL ASPHALT PER DETAIL. (1 SD.1)
9. CONSTRUCT RETAINING WALL PER DETAIL. (6 SD.2)
10. INSTALL CURB STOPS PER DETAIL. (3 SD.2)
11. INSTALL SIDEWALK PER DETAIL. (10 SD.1) INSTALL DOWELS IN EXISTING CURB ON 4.0' CENTERS BEGINNING 1.0' FROM EXISTING SIDEWALK
12. STRIPE COURTS PER USTA REGULATIONS. IF CONFLICT FROM THESE PLANS EXIST, THE USTA REGULATIONS WILL TAKE PRECEDENCE. SEE GENERAL STRIPING NOTES.
13. CONSTRUCT ADA RAMP PER DETAIL. (6 SD.1)
14. MATCH TO EXISTING CONCRETE SIDEWALK.
15. REINSTALL SIGN PER CITY STANDARDS.

GENERAL STRIPING NOTES:

1. BLENDED 36 FOOT AND 60 FOOT TENNIS PLAYING LINES SHALL BE TEXTURED LINE PAINT WITHIN THE SAME FAMILY AS THE 78 FOOT COURT COLOR.
2. ALL BLENDED 36 FOOT AND 60 FOOT TENNIS PLAYING LINES SHALL TERMINATE 3 INCHES FROM THE 78 FOOT COURT LINES.
3. ALL BLENDED 36 AND 60 FOOT TENNIS PLAYING LINES SHALL BE 1-1/2" WIDE.
4. ALL BLENDED 36 FOOT AND 60 FOOT TENNIS PLAYING LINES SHALL BE MEASURED TO THE OUTSIDE EDGE OF THE PLAYING LINE, WITH THE EXCEPTION OF THE CENTER LINES WHICH SHALL BE MEASURED FROM OUT TO CENTER.
5. THE CENTER MARK FOR THE 36 FOOT COURT SHALL BE SET 2 INCHES OFF THE 78 FOOT COURT DOUBLES SIDELINE AND SHALL BE 2 INCHES LONG BY 1-1/2" WIDE.
6. PLEASE NOTE THAT THE SUB-CONTRACTOR FOR ALL ASPECTS ASSOCIATED WITH THE INSTALLATION OF THE COURT SURFACING SYSTEM AND THE INSTALLATION OF THE NETS SHALL BE QULIFIED IN ONE OF TWO WAYS:
   A. PROVIDE CERTIFICATION AS AN ASBA COURT BUILDER
   B. PROVIDE RESUME' OF WORK HISTORY SHOWING THE COMPLETION OF AT LEAST 3 TENNIS COURT PROJECTS IN THE LAST 5 YEARS
7. PRIOR TO STRIPING THE COURTS, CONTRACTOR SHALL SUBMIT A STRIPING PLAN TO THE ENGINEER FOR USTA FINAL APPROVAL.

GENERAL CONSTRUCTION NOTES:

1. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL SUBMIT A JOINT PLAN TO ENGINEER FOR APPROVAL FOR ALL FIBER REINFORCED CONCRETE PATIO AREAS LOCATED INSIDE THE FENCING OF THE TENNIS/PICKLEBALL COMPLEX. CONTRACTION AND EXPANSION JOINTS SHALL BE PROVIDED AS NEEDED
2. PLEASE NOTE THAT THE SUB-CONTRACTOR FOR THE INSTALLATION OF THE POSTS, NETS, AND ALL RELATED APPURTENANCES MUST BE CERTIFIED AS AN ASBA COURT BUILDER. DOCUMENTATION WILL NEED TO BE PROVIDED PRIOR TO THE INSTALLATION OF THESE ITEMS SHOWING THIS CERTIFICATION.
3. THERE ARE TWO DIFFERENT ASPHALT SECTIONS SHOWN ON THE DETAIL SHEET FOR THE COURT SECTION; BOTH OF WHICH ARE RECOMMENDATIONS FROM THE GEOTECH REPORT. THE CONTRACTOR SHALL PROVIDE BIDS FOR EACH DIFFERENT SECTION, AS THE SECTION SHOWN IN DETAIL (4B SD.1) WILL BE AN ALTERNATE BID THAT WILL BE CONSIDERED.



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STEWART PARK TENNIS & PICKLEBALL COURTS
1201 NW STEWART PKWY
ROSEBURG, OR 97471

PAVING AND STRIPING PLAN
SCALE: AS SHOWN
FEBRUARY 13, 2025
ISSUE: BID SET

PROJECT NO: 0149-226
DRW: DTM
CHK: EGB

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KEYED CONSTRUCTION NOTES: (#)

1. INSTALL 1" WATER PIPE PER DETAIL. (2/SD.3) LENGTH PER PLAN.
2. CONNECT NEW WATERLINE TO EXISTING IRRIGATION CONNECTION.
3. INSTALL BLACK, ELKAY (OR APPROVED OTHER) DRINKING FOUNTAIN PER DETAIL. (5/SD.3) COMPLETE WITH LOCKING HOSE BIB AND DIRECT BURY ADAPTER.
4. INSTALL DUAL 6" PVC CONDUIT FOR FUTURE USE. 3.0' MIN DEPTH. STUB CONDUITS UP IN COVERED SEATING AREA AS NEEDED. EXACT LOCATION OF CONDUIT TO BE FIELD FIT BY ENGINEER.
5. INSTALL 8" WATER LINE PER DETAIL. (2/SD.3) LENGTH PER PLAN.
6. INSTALL 8" 45° BEND. THRUST BLOCK PER DETAIL. (3/SD.3)
7. CONNECT TO EXISTING 8" WATER LINE.
8. INSTALL FIRE HYDRANT ASSEMBLY PER DETAIL. (1/SD.3)
9. INSTALL LIGHT POLE 5CL-LB BASE PER DETAIL. (1/SD.5) OR APPROVED EQUAL. SEE LIGHTING MATRIX FOR QUANTITIES. INSTALL LIGHT POLES, LIGHTS AND ARMS. SEE LIGHT POLE NOTES, THIS SHEET, FOR TYPES.
10. INSTALL 12"x8" TAPPING SLEEVE & 8" VALVE PER DETAIL. (4/SD.3)
11. STREET LIGHT TO BE RE-INSTALLED, BY OTHERS. SEE GENERAL DEMOLITION NOTE #12 ON DEMOLITION SHEET C.3.
12. REINSTALL WATER METER PER DETAIL. (6/SD.3)
13. INSTALL BACKFLOW DEVICE PER CITY STANDARDS.
14. INSTALL 1" SHUT OFF VALVE WITH CITY APPROVED VALVE BOX.
15. INSTALL GFI RECEPTACLE AT HAND HOLE OF LIGHT POLE, 12 TOTAL.
16. POWER, FIBER AND COMMUNICATION LINES AND PEDESTALS TO BE RELOCATED, BY OTHERS. COORDINATE WITH THESE UTILITIES FOR RELOCATION AS NEEDED. SEE GENERAL DEMOLITION NOTE #12 ON DEMOLITION SHEET C.3.

32 SINGLES (S1)
12 ANGLED DOUBLES (D9)
4 STRAIGHT DOUBLES (D2)
6 QUADS (QD)
54 TOTAL

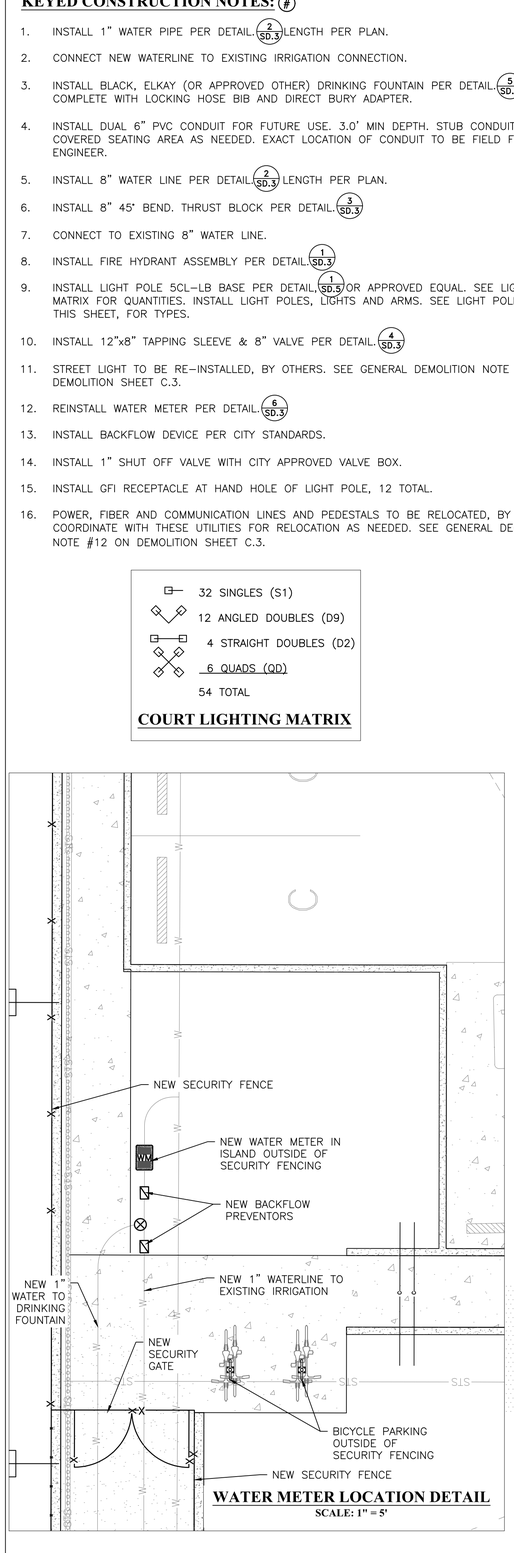
COURT LIGHTING MATRIX

GENERAL NOTES:

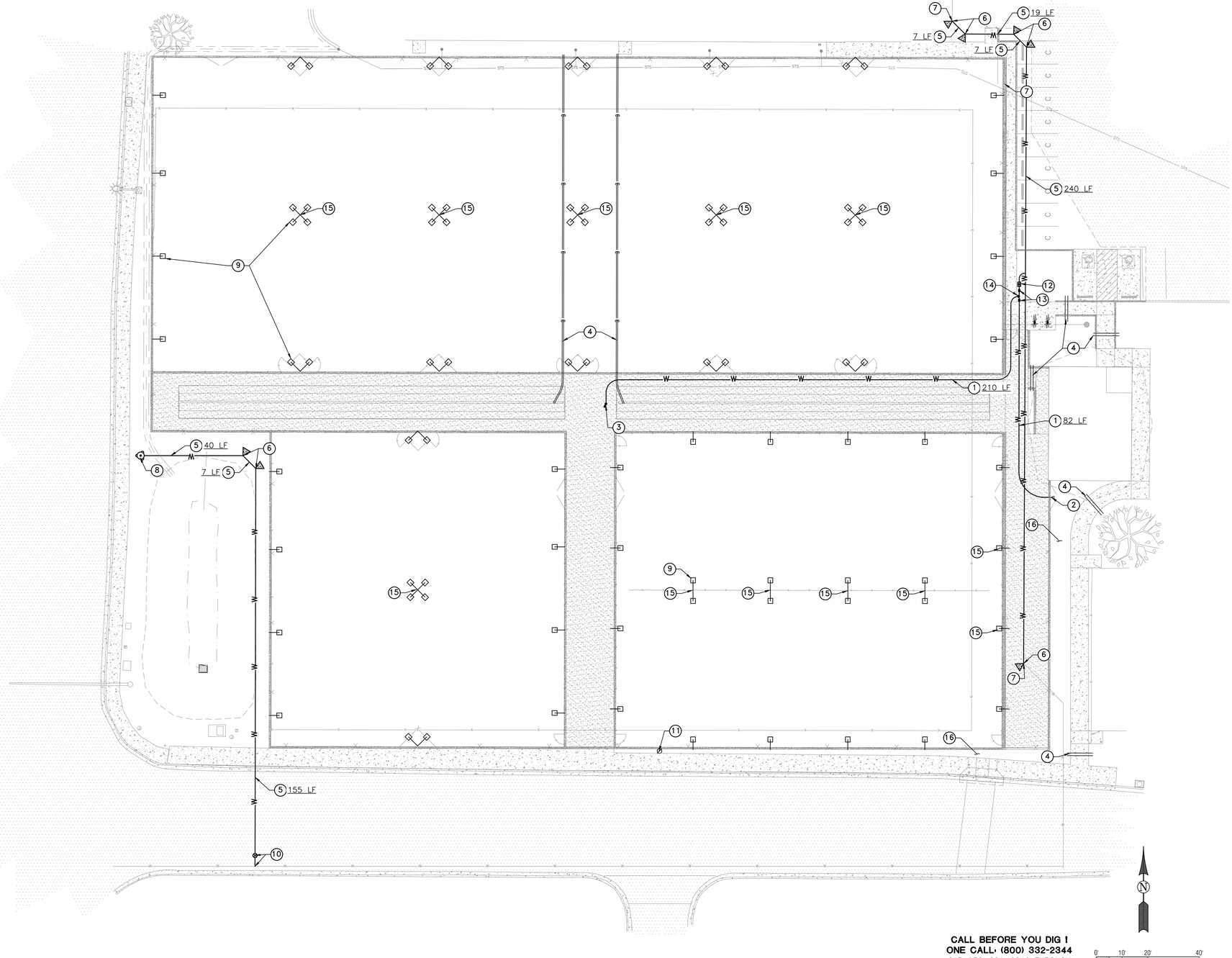
1. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL BENDS, FITTINGS AND APPURTENANCES AS NEEDED TO CONNECT NEW AND EXISTING WATER AT NO ADDITIONAL COST TO THE OWNER.
2. CONTRACTOR SHALL BE REQUIRED TO OBTAIN ALL PLUMBING PERMITS AS NEEDED FOR THIS PROJECT FROM THE DOUGLAS COUNTY BUILDING DEPARTMENT INCLUDING PAYMENT OF ALL PLUMBING RELATED FEES AT NO ADDITIONAL CHARGE TO OWNER.
3. CONTRACTOR SHALL KEEP AS-BUILT RECORD OF LOCATIONS OF ALL CONDUIT INSTALLED, AND PROVIDE TO ENGINEER. COORDINATE WITH CITY ON MORE CONDUIT NEEDED.
4. ALL CONDUIT ASSOCIATED TO THE LIGHT POLES SHALL BE INCIDENTAL TO THE OVERALL CONSTRUCTION AND BIDDING OF THE LIGHT POLES.

LIGHT POLE NOTES:

1. BC EDGE TENNIS/PICKLEBALL FIXTURE BC-EL-NED-TC-02 120-277V 5K SLIP FITTER 400W BLACK (4/SD.5) FINISH QTY 88 (OR APPROVED EQUAL).
2. ROUND TAPERED STEEL POLE ROUND TAPERED STEEL POLE 11 GAUGE 25' W/BASE HARDWARE (2A/SD.5) (2B/SD.5) TENON TOP BLACK FINISH QTY 54 (OR APPROVED EQUAL).
   - 4' TNS-100 TENNIS ARM T3R S1 BLACK FINISH QTY 32 (OR APPROVED EQUAL). (3/SD.5)
   - 4' TNS-100 TENNIS ARM T3R D7 BLACK FINISH QTY 12 (OR APPROVED EQUAL). (3/SD.5)
   - 4' TNS-100 TENNIS ARM T3R D2 BLACK FINISH QTY 4 (OR APPROVED EQUAL). (3/SD.5)
   - 4' TNS-100 TENNIS ARM T3R QUAD BLACK FINISH QTY 6 (OR APPROVED EQUAL).



WATER METER LOCATION DETAIL
SCALE: 1" = 5'



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STEWART PARK TENNIS & PICKLEBALL COURTS
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ROSEBURG, OR 97471

UTILITY PLAN
SCALE: AS SHOWN
FEBRUARY 13, 2025
ISSUE: BID SET

PROJECT NO. 0149-226
DRN: DTM
CHK: EGB

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KEYED HARDSCAPE CONSTRUCTION NOTES: (#)

1. INSTALL (8 SETS) EDWARDS 3" SQUARE TENNIS NET POSTS AND (10 SETS) OF EDWARDS 3" ROUND PICKLEBALL POSTS INCLUDING EDWARDS NETS, GROUND SLEEVES, CENTER ANCHORS (TENNIS), LAYOUT, DIG, AND SET IN CONCRETE FOOTINGS PER MANUFACTURERS RECOMMENDATIONS, OR APPROVED EQUAL.

2. SUPPLY AND INSTALL 5 COATS OF ACRYLIC SURFACING. SURFACING SHALL CONSIST OF 2 ACRYLIC RESURFACER BASE COATS AND 3 PLEXICHROME ULTRA PERFORMANCE/PLEXIPAVE COLOR BASE COATS PLUS GAME LINE STRIPING, OR APPROVED EQUAL. MINOR LEVELING SHALL BE INCLUDED IF NEEDED PER DETAIL 8/SD.1

3. CONSTRUCT SEAT WALL VIEWING AREA PER STRUCTURAL DETAILS ON SHEET S5.1. INSTALL CITY SUPPLIED SKATE STOPS EVENLY SPACED (APPROXIMATELY 36") ON ALL EXTERIOR SEAT CORNERS. COORDINATE WITH CITY ON SUPPLIES AND i.e. ENGINEERING ON FIELD FITTING.

4. INSTALL FENCE PER MANUFACTURER'S RECOMMENDATIONS. INSTALL POSTS PER DETAIL 1/SD.2 SEE FENCING NOTES THIS SHEET.

5. INSTALL 24 PREFABRICATED METAL UMBRELLA HOLDER HOLES IN CONCRETE. HOLES SHALL BE INSTALLED TO HOLD UMBRELLA POLES 2–INCHES IN DIAMETER. HOLES SHALL BE 12–INCHES IN DEPTH AND HAVE METAL LIDS THAT ARE FLUSH WITH THE PAVEMENT. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF THE METAL HOLDERS TO THE ENGINEER FOR APPROVAL. METAL UMBRELLA HOLDERS SHALL BE CONSIDERED AS INCIDENTAL IN NATURE AND INCLUDED IN THE UNIT PRICE OF THE CONCRETE. COORDINATE WITH CITY OF ROSEBURG ON EXACT LOCATIONS.

6. INSTALL GUARDRAILS PER DETAIL 7/SD.2 CONTRACTOR TO SUBMIT SHOP DRAWINGS TO ENGINEER PRIOR TO CONSTRUCTION FOR APPROVAL

7. INSTALL HANDRAILS PER DETAIL 4A/SD.2 4B/SD.2

8. INSTALL BIKE RACK PER DETAIL 5/SD.2 OR APPROVED EQUAL, COLOR: BLACK.

9. INSTALL 12' DOUBLE MAINTENANCE GATES PER MANUFACTURER'S RECOMMENDATIONS.

10. INSTALL 8' DOUBLE ACCESS GATE WITH PICKLETILE INFINITYGATE (OR APPROVED EQUAL) ELECTRONIC ACCESS PER MANUFACTURER'S RECOMMENDATIONS. SEE https://pickletile.com/infinitygate/ FOR MORE DETAILS.

11. INSTALL 4' GATE AS NEEDED PER MANUFACTURER'S RECOMMENDATIONS.

FENCING NOTES:

1. HEIGHT: TENNIS COURT PERIMETER FENCING TO BE 12 FEET TALL AROUND THE ENTIRE OUTSIDE OF THE TENNIS/PICKLEBALL COMPLEX AND INSIDE AROUND THE TENNIS COURTS. FENCING AROUND THE PICKLEBALL COURTS ON THE INSIDE OF THE COMPLEX AND IN BETWEEN THE NORTH AND SOUTH SETS OF PICKLEBALL COURTS SHALL BE 42" TALL.

2. FENCE TYPE: FENCING TO BE 9 GAUGE CORE, 8 GAUGE FINISH, BLACK FUSE–BONDED VINYL COATED FABRIC

3. FABRIC: MESH OPENING OF TENNIS COURT & PICKLEBALL COURT CHAIN LINK FABRIC TO BE 1 ¾" MESH, 9 GAUGE CORE, 8 GAUGE FINISH, BLACK VINYL COATED

4. POSTS: POST FOOTINGS SHALL BE A MIN. OF 48" DEEP, 16" DIAMETER, 8' ON–CENTER MAX. & EVENLY SPACED. TERMINAL, LINE, AND GATE POSTS TO BE 2 ⅞" OD IN DIAMETER AND 40 WEIGHT OR EQUIVALENT. BLACK POWDER COATED FINISH ON ALL POSTS.

5. CONTINUOUS TOP RAILING: 1 ⅝" OD 40 WEIGHT OR EQUIVALENT, BLACK POWDER COATED FINISH

6. CONTINUOUS MID RAILING: 1 ⅝" OD 40 WEIGHT OR EQUIVALENT, BLACK POWDER COATED FINISH (TENNIS COURT ONLY)

7. TENSION WIRE: 9 GAUGE CORE, 6 GAUGE FINISH, BLACK VINYL COATED MARCELLED BOTTOM TENSION WIRE INSTALLED 2" ABOVE BOTTOM OF FABRIC. SECOND BOTTOM TENSION WIRE INSTALLED 18" ABOVE BOTTOM OF FABRIC (EXTERIOR & TENNIS COURTS ONLY)

8. ENTRY GATES: FENCE GATES SHALL BE A MINIMUM OF 4' WIDE WITH HINGES THAT PROVIDE FULL 180 DEGREE SWING FROM CLOSED TO OPEN POSITION. GATE FRAME MATERIAL TO BE 1 ⅝" OD 40 WEIGHT OR EQUIVALENT. BLACK POWDER COATED FINISH ON GATE FRAME, FITTINGS, AND HARDWARE.

9. CLEARANCE: GROUND CLEARANCE SHALL BE NOT MORE THAN 1 INCH FROM SURFACE OF COURT TO BOTTOM OF FABRIC.

10. ALL FENCE FITTINGS, HARDWARE, ACCESSORIES TO BE BLACK POWDER COATED OR BLACK VINYL COATED.

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EXPIRES: 12/31/2026

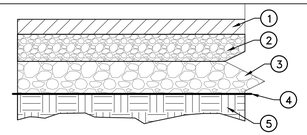
Rev.	Date	Dwg	Description

STEWART PARK TENNIS & PICKLEBALL COURTS
1201 NW STEWART PKWY
ROSEBURG, OR 97471
HARDSCAPE PLAN
SCALE: AS SHOWN
FEBRUARY 13, 2025
ISSUE: BID SET

PROJECT NO. 0149-226
DRW: DTM
CHK: EGB

C.7

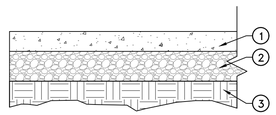
DrawM Feb 12, 2025 Z:\JOBS\0149-City of Roseburg\149-226 Stewart Park Tennis & Pickleball Courts\DESIGN\CAD\0149-226_C.dwg



1 SD.1 ASPHALT PAVEMENT SECTION DETAIL
NTS

KEYED NOTES:

1. LEVEL 2, 4" THICK HMAC; ½" DENSE, 2 LIFTS
2. 6" THICK; ¾"–0, OR 1"–0, CRUSHED ROCK (4" THICK MIN. IN PARKING AREAS)
3. 12" THICK; 4"–0, CRUSHED ROCK
4. WOVEN GEOTEXTILE SUPPORT FABRIC (GEOTEX 250ST OR EQUAL)
5. COMPACTED SUBGRADE 98% T99



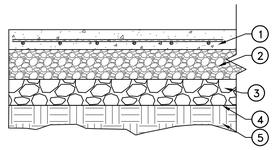
2A SD.1 CONCRETE PATIO SECTION DETAIL
NTS

GENERAL NOTES:

1. PROVIDE ¼" TOOLED CONTROL JOINTS. CONTRACTOR TO SUBMIT JOINT PLAN FOR ACCEPTANCE PRIOR TO POURING.
2. PROVIDE ½" EXPANSION JOINTS EVERY 20' MIINIMUM THROUGH FULL HEIGHT. FILL WITH SEALANT AND ½" PRE–MOLDED JOINT FILLER (TO BE INCLUDED IN JOINT PLAN.
3. ADD MAC 100 FIBER (OR APPROVED EQUAL) AT 3 LBS PER YARD TO CONCRETE

KEYED NOTES:

1. 4" THICK CONCRETE
2. 6" THICK COMPACTED ¾"–0 BASE ROCK, OR 1"–0 CRUSHED ROCK
3. COMPACTED SUBGRADE



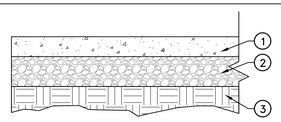
2B SD.1 REINFORCED ADA CONCRETE SECTION DETAIL
NTS

GENERAL NOTES:

1. REINFORCING: NO. 4'S @ 16" O.C. EACH WAY; INCLUDE CONTINUOUS EDGE BARS AT 3" TO 4" FROM ALL EDGES. REINFORCING TO BE CONTINUOUS ACROSS ALL DIFFERENT POURS OR JOINTS. OVERLAP ALL BARS AT LEAST 24 INCHES.

KEYED NOTES:

1. 6" PORTLAND CEMENT CONCRETE (3,500 PSI MIX)
2. 4" AGGREGATED BASE (¾"–0 OR 1"–0 CRUSHED ROCK)
3. 10" ASB (4" MINUS CRUSED ROCK OR JAW–RUN SHALE)
4. COMBIGRID 30/30 Q1 151 GRK 3 OR EQUIVALENT
5. COMPACTED SUBGRADE



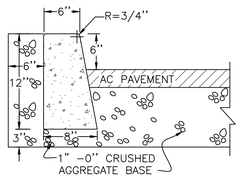
2C SD.1 SIDEWALK SECTION DETAIL
NTS

GENERAL NOTES:

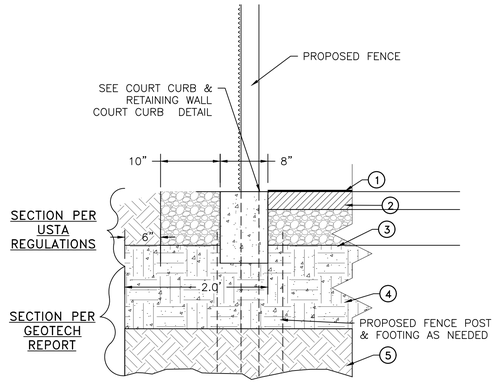
1. PROVIDE ¼" TOOLED CONTROL JOINTS EVERY 5'
2. PROVIDE ½" EXPANSION JOINTS EVERY 20' MIINIMUM THROUGH FULL HEIGHT. FILL WITH SEALANT AND ½" PRE–MOLDED JOINT FILLER.

KEYED NOTES:

1. 4" THICK CONCRETE
2. 6" THICK COMPACTED ¾"–0 BASE ROCK, OR 1"–0 CRUSHED ROCK
3. COMPACTED SUBGRADE



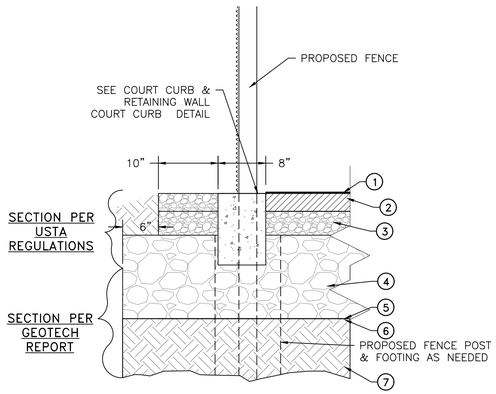
3 SD.1 STANDARD CURB DETAIL



4A SD.1 OPTION 1: TENNIS/PICKLEBALL COURT SUPPORT SECTION DETAIL
NTS

KEYED NOTES:

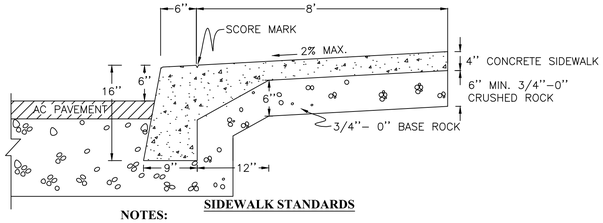
1. LIQUID APPLIED ACRYLIC SURFACE SYSTEM (NON–CUSHIONED)
2. LEVEL 1, 3" THICK HMAC; ⅜" DENSE, SINGLE LIFT
3. 6" THICK; ¾"–0, OR 1"–0, CRUSHED ROCK
4. 14" CEMENT TREATED (6% BY WEIGHT) SUBBASE/SUBGRADE STABLE SUBGRADE
5. COMPACTED SUBGRADE



4B SD.1 OPTION 2: TENNIS/PICKLEBALL COURT SUPPORT SECTION DETAIL
NTS

KEYED NOTES:

1. LIQUID APPLIED ACRYLIC SURFACE SYSTEM (NON–CUSHIONED)
2. LEVEL 1, 3" THICK HMAC; ⅜" DENSE, SINGLE LIFT
3. 4" THICK; ¾"–0, OR 1"–0, CRUSHED ROCK
4. 20" SUBBASE (2" OR 4" MINUS CRUSHED ROCK OR JAW RUN SHALE)
5. WOVEN SUPPORT FABRIC
6. VAPOR BARRIER (STEGO WRAP 10 MIL OR SIMILAR)
   –OR– JUST 15 MIL STEGO WRAP
7. REDENSIFIED & MOISTURE CONDITIONED SUBGRADE

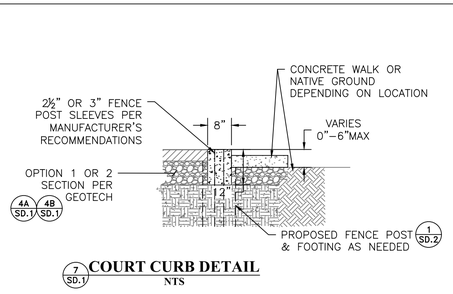


SIDEWALK STANDARDS

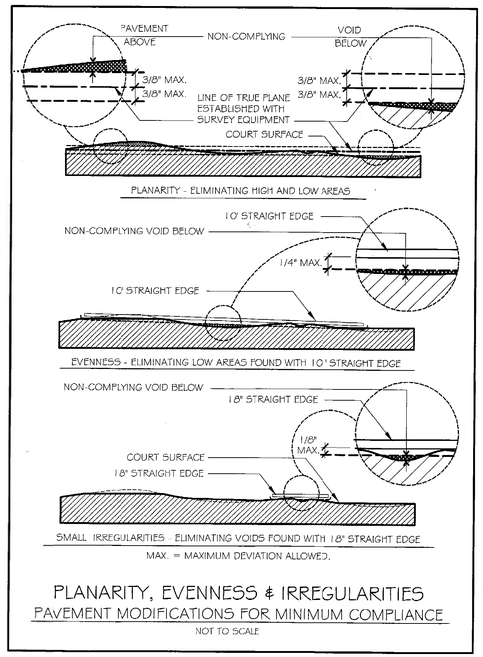
NOTES:

1. CONCRETE USED IN SIDEWALKS SHALL HAVE A 28 DAY ULTIMATE COMPRESSIVE STRENGTH OF 3,300 PSI.
2. ALL RADII SHALL BE 3/4" (20mm) UNLESS OTHERWISE SHOWN.
3. ISOLATION JOINTS (FELT EXPANSION JOINTS) SHALL BE PLACED AT 45' INTERVALS
4. CONTRACTION JOINTS SHALL BE PLACED AT 15' (4.5m) INTERVALS AND SHALL EXTEND THROUGH THE CURB OR CURB & GUTTER EVERY OTHER ONE.
5. SCORE MARKS SHALL BE PLACED AT 5' INTERVALS. FINISH SHALL BE BROOM PATTERN.

5 SD.1 MONOLITHIC CURB AND SIDEWALK DETAIL
NTS



7 SD.1 COURT CURB DETAIL
NTS



PLANARITY, EVENNESS & IRREGULARITIES
PAVEMENT MODIFICATIONS FOR MINIMUM COMPLIANCE
NOT TO SCALE

9dPEI3.AVL.21

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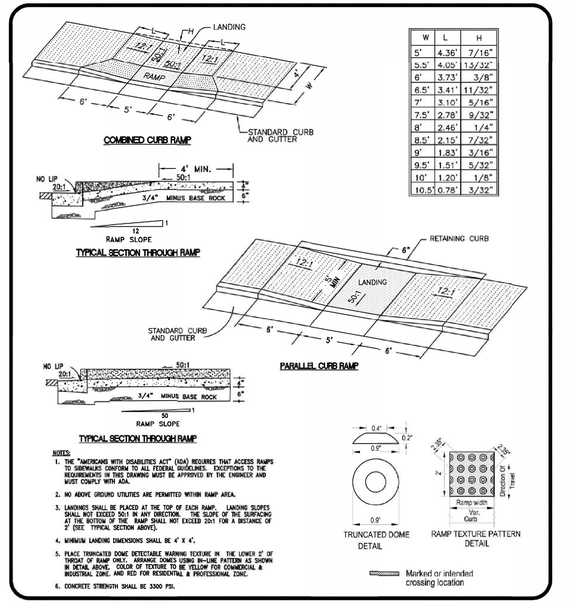
DRAWINGS ARE ILLUSTRATIVE ONLY AND ASBA AND USTA ACCEPT NO RESPONSIBILITY FOR THEIR USE.

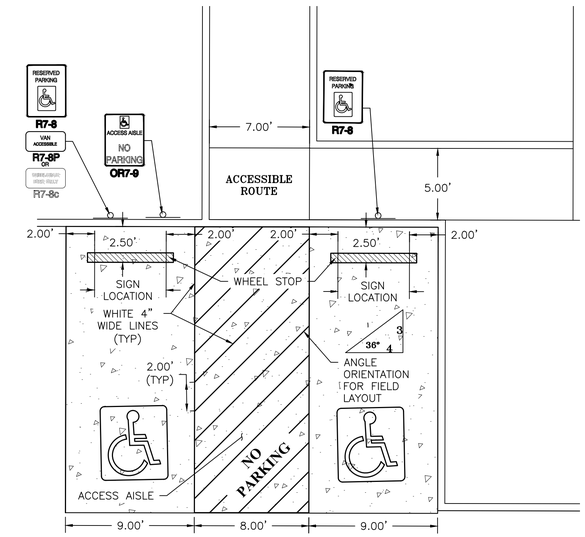
8 SD.1



CITY OF ROSEBURG PUBLIC WORKS DEPARTMENT CHRIS S. BERQUIST, DIRECTOR		DATE: MAR 97	SCALE: NTS
		BY:	CHK:
STANDARD DRAWING	*No. PW–008S3*	DRWN: NAJ	REV: JUN 2005
SIDEWALK ACCESS RAMP *ADA STANDARD – SINGLE MIDBLOCK RAMP*		APPRVD: CSB	REV:
		PROJECT No: N/A	REV:

DEPARTMENT OF PUBLIC WORKS — THE CITY OF ROSEBURG

6 SD.1



9 SD.1 ADA PARKING DETAIL
NTS

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REGISTERED PROFESSIONAL ENGINEER — 58073PE — OREGON — JULY 13, 2004 — ALEX M. PALM

Digitally signed by Alex M Palm
Date: 2025.02.13 14:44:37-08'00'

EXPIRES: 12/31/2026

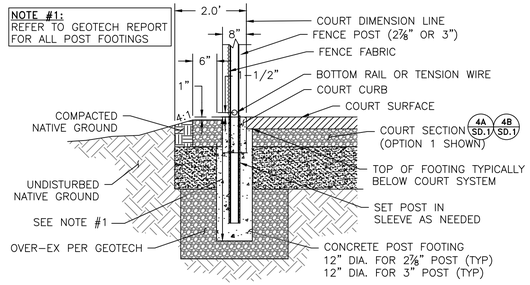
Rev.	Date	Dwg	Description

STEWART PARK TENNIS & PICKLEBALL COURTS
1201 NW STEWART PKWY
ROSEBURG, OR 97471
STANDARD ROAD AND SURFACE DETAILS
SCALE: NONE
FEBRUARY 13, 2025
ISSUE: BID SET

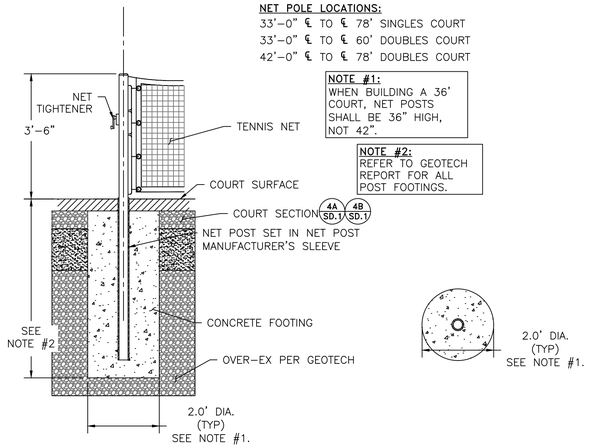
PROJECT NO. 0149-226
DRW. DTM
CHK. EGB

DsnM Feb 12, 2025 Z:\JOBS\0149-City of Roseburg\149-226 Stewart Park Tennis & Pickleball Courts\DESIGN\CADD\0149-226_C-DET.dwg

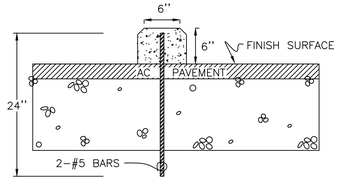
SD.1



1 SD.2 FENCE POST FOOTING DETAIL
INTERIOR FENCING SIMILAR
NTS



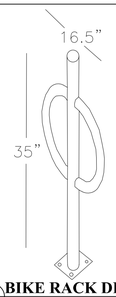
2 SD.2 NET POST FOOTING DETAIL
NTS



1.) CURB STOPS TO BE 6' IN LENGTH

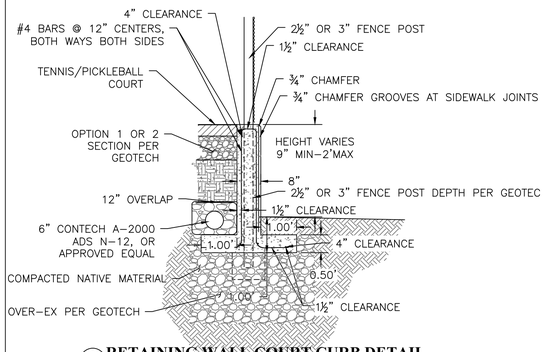
2.) CURB STOPS TO BE INSTALLED IN CENTER OF PARKING SPACE AS DIRECTED BY THE ENGINEER

3 SD.2 PRE-CAST CONCRETE CURB STOP

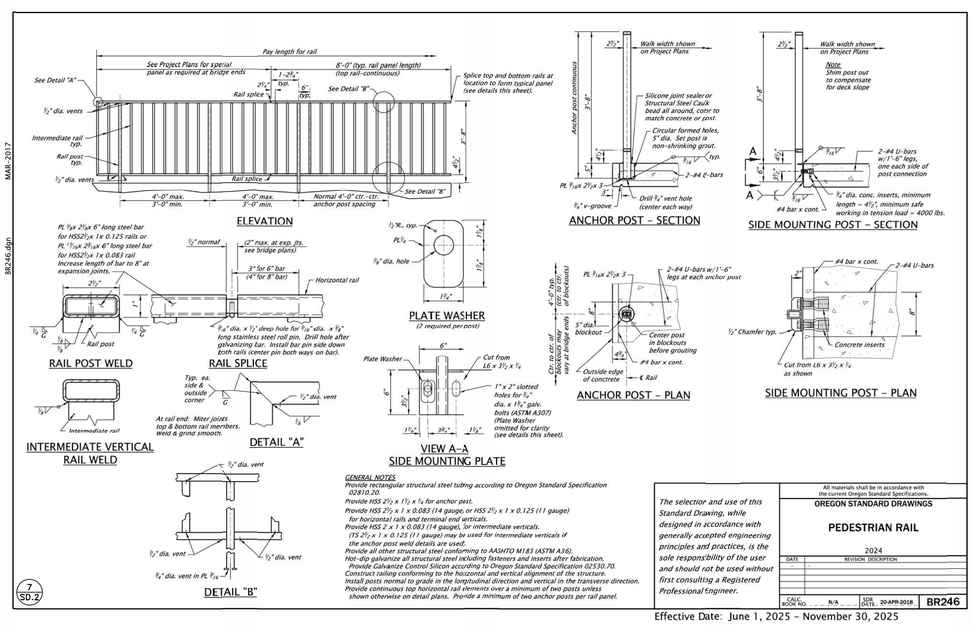


5 SD.2 BIKE RACK DETAIL

THE "DERO BIKE HITCH"
504 Malcolm Ave SE, Suite 100
Minneapolis, MN 55414
888-337-6729
612 359-0689
web@dero.com
http://www.dero.com/product/bike-hitch/
COLOR: BLACK POWDERCOAT



6 SD.2 RETAINING WALL COURT CURB DETAIL
NTS



GENERAL NOTES
Provide rectangular structural steel tubing according to Oregon Standard Specification 02810.20.
Provide HSS 2½ x 1½ x ¼ for anchor post.
Provide HSS 2½ x 1 x 0.083 (14 gauge, or HSS 2½ x 1 x 0.125 (11 gauge) for horizontal rails and terminal end verticals.
Provide HSS 2 x 1 x 0.083 (14 gauge), for intermediate verticals. (TS 2½ x 1 x 0.125 (11 gauge) may be used for intermediate verticals if the anchor post weld details are used.
Provide all other structural steel conforming to AASHTO M183 (ASTM A36).
Hot-dip galvanize all structural steel including fasteners and inserts after fabrication. Provide Galvanize Control Silicon according to Oregon Standard Specification 02530.70.
Construct railing conforming to the horizontal and vertical alignment of the structure.
Install posts normal to grade in the longitudinal direction and vertical in the transverse direction.
Provide continuous top horizontal rail elements over a minimum of two posts unless shown otherwise on detail plans. Provide a minimum of two anchor posts per rail panel.

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.

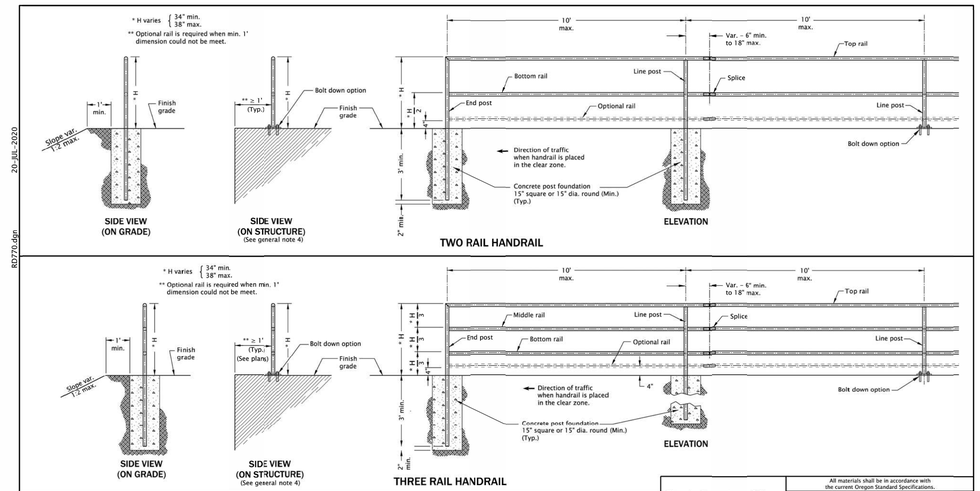
All materials shall be in accordance with the current Oregon Standard Specifications.
OREGON STANDARD DRAWINGS
PEDESTRIAN RAIL
2024

DATE	REVISION DESCRIPTION
-	-

CALC BOOK NO. N/A | SDR DATE 20-APR-2018 | **BR246**

Effective Date: June 1, 2025 - November 30, 2025

MAR-2017 BR246.dgn



GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:

1. Handrail details are based on applicable ODOT Standards.
2. See Std. Dwg. RD771 for details not shown.
3. Hot-dip galvanize all metal parts after fabrication.
4. Structure varies, see project plans.
5. Handrail height (H) shall be constant within a ramp run or stairway.
6. All concrete shall be commercial grade concrete.
7. See Std. Dwg. RD120 for concrete stairway.
8. See project plans for details not shown.

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.

All materials shall be in accordance with the current Oregon Standard Specifications.
OREGON STANDARD DRAWINGS
METAL HANDRAIL
2024

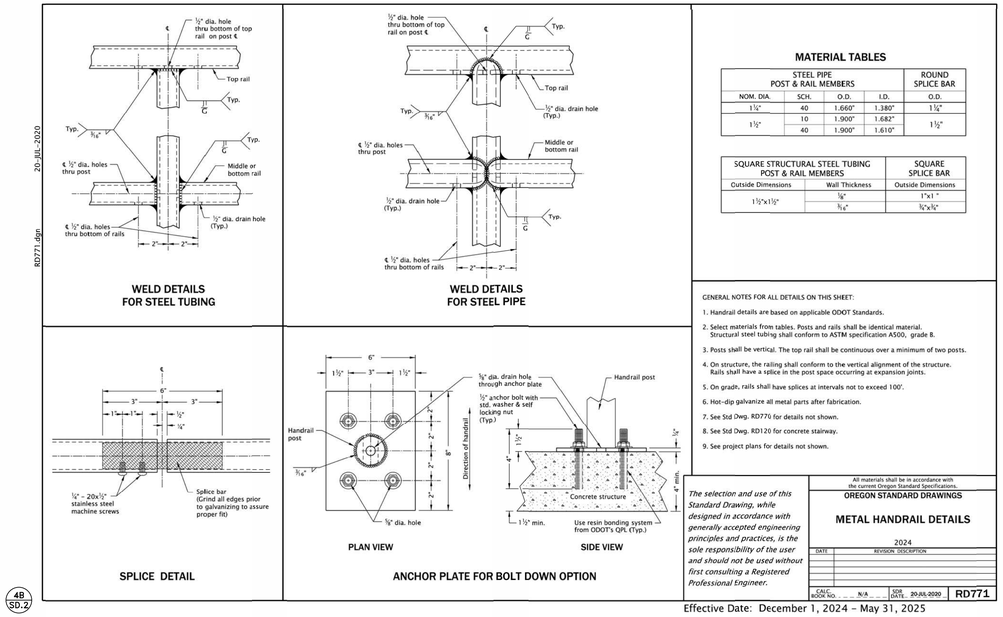
DATE	REVISION DESCRIPTION

CALC BOOK NO. N/A | SDR DATE 20-JUL-2020 | **RD770**

4A SD.2

Effective Date: December 1, 2024 - May 31, 2025

20-JUL-2020 RD771.dgn



GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:

1. Handrail details are based on applicable ODOT Standards.
2. Select materials from tables. Posts and rails shall be identical material. Structural steel tubing shall conform to ASTM specification A500, grade B.
3. Posts shall be vertical. The top rail shall be continuous over a minimum of two posts.
4. On structure, the railing shall conform to the vertical alignment of the structure. Rails shall have a splice in the post space occurring at expansion joints.
5. On grade, rails shall have splices at intervals not to exceed 100'.
6. Hot-dip galvanize all metal parts after fabrication.
7. See Std Dwg. RD776 for details not shown.
8. See Std Dwg. RD120 for concrete stairway.
9. See project plans for details not shown.

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.

All materials shall be in accordance with the current Oregon Standard Specifications.
OREGON STANDARD DRAWINGS
METAL HANDRAIL DETAILS
2024

DATE	REVISION DESCRIPTION

CALC BOOK NO. N/A | SDR DATE 20-JUL-2020 | **RD771**

4B SD.2

Effective Date: December 1, 2024 - May 31, 2025

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JULY 13, 2004
ALEX M. PALM

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EXPIRES: 12/31/2026

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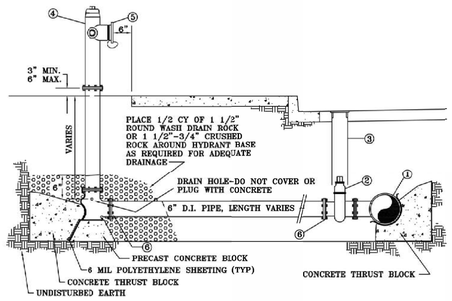
DRW: DTM
CHK: EGB

SD.2

DaveM Feb 12, 2025 Z:\JOBS\0149-City of Roseburg\149-226 Stewart Park Tennis & Pickleball Courts\DESIGN\CADD\0149-226_C-DET.dwg

TYPICAL FIRE HYDRANT INSTALLATION (THRUST BLOCKED)

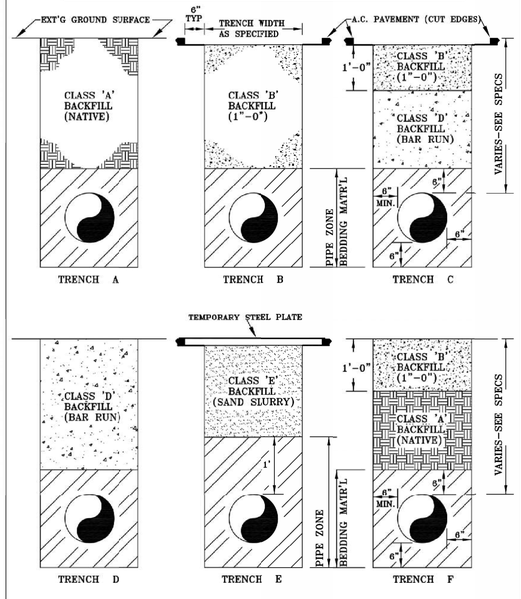


LEGEND
1. MAIN SIZE X 6" FLG. TEE
2. 6" FLG. X M.J. GATE VALVE
3. 6" VALVE BOX PIPE WITH LID
4. PRE ASSEMBLED FIRE HYDRANT
5. 5" PUMPER CONNECTION ADAPTER "STORZ" WITH CAPS
6. 6' MEGALUG ASSEMBLY KIT

CITY OF ROSEBURG	WATER DEPARTMENT	DATE: 10/13/1983 REV: 7/19/2005	STANDARD DWG. NO. 105

1 SD.3

STANDARD TRENCH SECTIONS FOR WATER MAINS

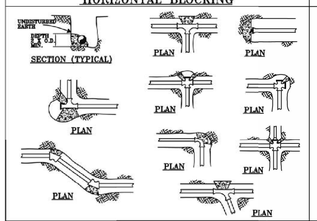


CITY OF ROSEBURG	WATER DEPARTMENT	DATE: 10/13/83 REV: 1/18/2000	STANDARD DWG. NO. 101

2 SD.3

THRUST BLOCKING

HORIZONTAL BLOCKING



VERTICAL BLOCKING

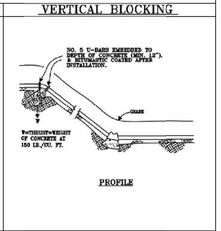


TABLE A
THRUST AT FITTINGS IN POUNDS AT 150 POUNDS PER SQUARE INCH OF WATER PRESSURE

PIPE SIZE	PLUG OR TEE	90° BEND	45° BEND	22½° BEND
4"	2780	3920	2130	1080
6"	5700	8060	4370	2210
8"	9870	13,950	7560	3830
10"	16,130	22,800	12,360	6260
12"	22,970	32,460	17,580	8910

TABLE B
SAFE BEARING LOAD OF VARIOUS SOILS

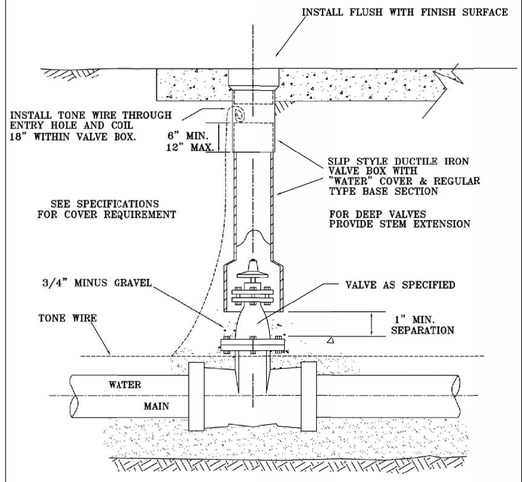
SOIL TYPE	SAFE BEARING LOAD, LB./SQ. FT.
MULCH, PEAT, ETC...	0
CLAY	1000
SAND	2000
SAND & GRAVEL	3000
SAND & GRAVEL CEMENTED WITH CLAY	4000
HARD SHALE	10,000

NOTES:
1. THRUST BLOCKING SHALL BE PLACED BETWEEN UNDISTURBED EARTH AND THE FITTING TO BE ANCHORED. THE MINIMUM BEARING AREA AGAINST UNDISTURBED EARTH FOR THRUST BLOCKING SHALL BE CALCULATED BY DIVIDING THE THRUST (TABLE A) BY THE SAFE BEARING LOAD (TABLE B). EXAMPLE: A 6", 45° HORIZONTAL BEND WILL BE BLOCKED AGAINST CLAY. THE REQUIRED BLOCKING AREA AGAINST UNDISTURBED EARTH, A=4370 lb./1000 lb./sq.ft.=4.37 sq. ft..
2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2500 psi AT 28 DAYS.
3. THRUST BLOCKING SHALL BE PLACED SO THAT THE PIPE AND FITTING JOINTS WILL BE ACCESSIBLE FOR REPAIRS. INSTALL 6 mil POLYETHYLENE SHEETING BETWEEN CONTACT POINTS OF CONCRETE AND FITTINGS.
4. THRUST BLOCKING FOR PIPES LARGER THAN 12", PRESSURES GREATER THAN 150 psi OR OTHER SITUATIONS NOT SHOWN HERE ON SHALL BE AS DIRECTED BY THE ENGINEER.

CITY OF ROSEBURG	WATER DEPARTMENT	DATE: 10/10/1983 REV: 5-11-1999	STANDARD DWG. NO. 102

3 SD.3

TYPICAL VALVE & VALVE BOX ASSEMBLY



NOTE: THIS VALVE BOX SHALL BE A RICH STYLE 931 DUCTILE IRON VALVE BOX OR APPROVED EQUAL.

CITY OF ROSEBURG	WATER DEPARTMENT	DATE: 10/13/1983 REV: 4/3/2001	STANDARD DWG. NO. 103

4 SD.3

ELKAY SPECIFICATIONS

Outdoor ezH2O® Lower Bottle Filling Station Bi-Level Pedestal Non-Filtered Non-Refrigerated Freeze Resistant
Model LK4420BF1LFRK

PRODUCT SPECIFICATIONS

Outdoor ezH2O® Lower Bottle Filling Station Bi-Level Pedestal Non-Filtered Non-Refrigerated Freeze Resistant. Features shall include Heavy Duty Vandal Resistant, Laminar Flow, Sealed Freeze Resistant, 300 Series Stainless. Furnished with Vandal Resistant bubbler. Mechanical Button activation. Product shall be Floor Mount/Freestanding, for Outdoor applications, serving 2 station(s).

Special Features:	Heavy Duty Vandal Resistant, Laminar Flow, Sealed Freeze Resistant, 300 Series Stainless
Finish:	Black (BK), Blue (BLU), Evergreen (EVG), Gray (GRY)
Power:	No Electrical Required
Bubbler Style:	Vandal Resistant
Activation by:	Mechanical Button
Mounting Type:	Floor Mount/Freestanding
Chilling Capacity:	Non-refrigerated
Dimensions (L x W x H):	14" x 31" x 57"
Approx. Shipping Weight:	176 lbs.
Installation Location:	Outdoor
No. of Stations Served:	2

**When used in non-temperature controlled environments, unit(s) must be adequately winterized and/or protected from extreme heat to prevent damage where climates dictate.

Special Note: Bottle Filler Stations 1 (Low), Bubbler Stations 1 (Upper), Choose from 4 color options

- Mechanically-Activated unit continues to supply water in event of service disruptions.
- Laminar flow provides clean fill with minimal splash.
- Sealed Freeze Resistant Valve System: Fully sealed freeze resistant system that minimizes chance of ground water contamination, and prevents drain water from mixing with fresh water. Designed for ground installation below the frost line.

Included with Product: **Outdoor Bottle Filler, Freeze Resistant Valve**

▼ **Ships in multiple boxes.**

A Century of Tradition and Quality
For more than 100 years, Elkay has been making innovative products and providing exceptional customer care. We take pride in offering plumbing products that make life easier, inspire change and leave the world a better place.

PRODUCT COMPLIANCE

ADA & ICC A117.1
ASME A112.19.3/CSA B45.4
GreenSpec®
NSF/ANSI 61 (Gs1) & 372 (lead free)

Complies with ADA & ICC A117.1 accessibility requirements when installed according to the requirements outlined in these standards. Installation may require additional components and/or construction features to be fully compliant. Consult the local Authority Having Jurisdiction if necessary.
Installation Instructions (PDF) - 1000003699

Warranty pertains to drinking water applications only. Non-drinking water applications are not covered under warranty.
Warranty (PDF)

PART:_____QTY: _____
PROJECT:_____
CONTACT:_____
DATE:_____
NOTES:_____
APPROVAL:_____

5A SD.3

In keeping with our policy of continuing product improvement, Elkay reserves the right to change product specifications without notice. Please visit elkay.com for the most current version of Elkay product specification sheets. This specification describes an Elkay product with design, quality, and functional benefits to the user. When making a comparison of other producers' offerings, be certain these features are not overlooked.

ELKAY SPECIFICATIONS

Outdoor ezH2O® Lower Bottle Filling Station Bi-Level Pedestal Non-Filtered Non-Refrigerated Freeze Resistant
Model LK4420BF1LFRK

Optional Accessories		
LK4471LHB	Locking Hose Bib Spec Sheet (PDF)	
97890C	Accessory - Direct Bury Adaptor Spec Sheet (PDF)	

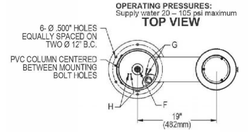
5B SD.3

In keeping with our policy of continuing product improvement, Elkay reserves the right to change product specifications without notice. Please visit elkay.com for the most current version of Elkay product specification sheets. This specification describes an Elkay product with design, quality, and functional benefits to the user. When making a comparison of other producers' offerings, be certain these features are not overlooked.

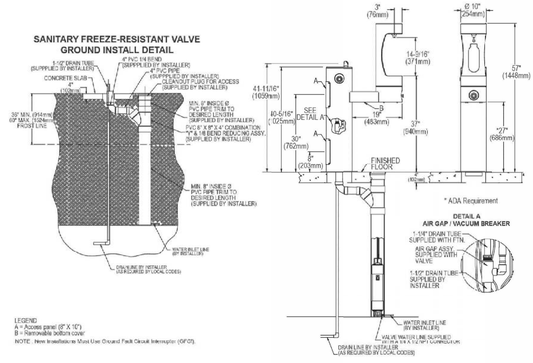
ELKAY SPECIFICATIONS

Outdoor ezH2O® Lower Bottle Filling Station Bi-Level Pedestal Non-Filtered Non-Refrigerated Freeze Resistant
Model LK4420BF1LFRK

MOUNTING INSTRUCTIONS and PLUMBING INSTRUCTIONS
Site and drainage excavation is required for fountain installation. Refer to owner's manual for site preparationdetails. Provide solid, well-drained surface to mount pedestal fountain (concrete pad recommended) with adequate support (300 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.



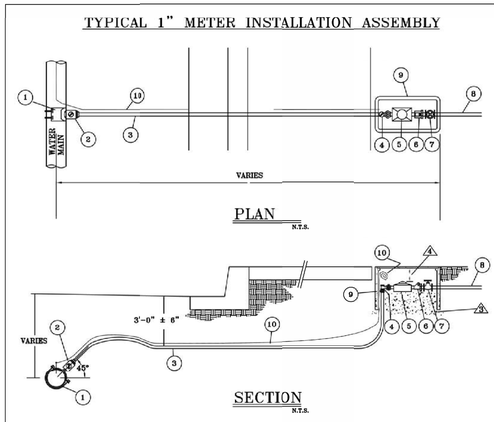
FRONT & SIDE VIEWS



5C SD.3

In keeping with our policy of continuing product improvement, Elkay reserves the right to change product specifications without notice. Please visit elkay.com for the most current version of Elkay product specification sheets. This specification describes an Elkay product with design, quality, and functional benefits to the user. When making a comparison of other producers' offerings, be certain these features are not overlooked.

TYPICAL 1" METER INSTALLATION ASSEMBLY



ITEM	SIZE	DESCRIPTION	TYPE ⚠1	QTY
1	AS REQ'D	SERVICE SADDLE	ROMAC 1", CC THD ⚠2	1
2	1"	CORP STOP	FORD, F1001 (CC x PACK JOINT)	1
3	1"	SERVICE PIPE, IPS	200 p.s.i. POLYETHYLENE SIDRY (PE 3408)	AS REQ'D
4	1"	ANGLE STOP	FORD, KV83-444W (PACK JOINT)	1
5	1"	METER	EXISTING OR AS SUPPLIED BY CITY	1
6	1"	STRAIGHT CHECK VALVE	FORD, H38-444 (METER NUT x MIPT)	1
7	1"	VALVE	BRONZE, HAND WHEEL, FIPT	1
8	——	CUSTOMER SERVICE	PER STATE PLUMBING CODE	——
9		METER BOX	DFW METER BOX 466WD AND LID 466C	1
10	NO. 12	TONE WIRE	ELECTRICAL THHN STRANDED COPPER WIRE, COIL 12" IN METER BOX.	AS REQ'D

NOTES:
⚠1 OR APPROVED EQUAL. SEE GENERAL SPECIFICATIONS.
⚠2 TYPE AS APPROVED BY MANUFACTURER FOR WATER MAIN TYPE & SIZE.
⚠3 PLACE 12" OF 3/4"-0" OF CRUSHED ROCK IN THE BOTTOM OF THE METER BOX HOLE.
⚠4 TOP OF METER SHALL BE 4" TO 6" BELOW BOTTOM OF LID.

6 SD.3

CITY OF ROSEBURG	WATER DEPARTMENT	DATE: 2/9/1992 REV: 4/6/2001	STANDARD DWG. NO. 110

---

i.e. civil structural surveying architecture planning
i.e. Engineering, inc.
809 SE Pine St
Roseburg, OR
ieengineering.com

REGISTERED PROFESSIONAL ENGINEER 58073PE OREGON JULY 13, 2004 ALEX M. PALM
Digitally signed by Alex M Palm
Date: 2025.09.13 14:44:57-08'00'
EXPIRES: 12/31/2026

Description	Dwg	Date	Rev.

STEWART PARK TENNIS & PICKLEBALL COURTS
1201 NW STEWART PKWY
ROSEBURG, OR 97471
STANDARD WATER DETAILS
SCALE: NONE
FEBRUARY 13, 2025
ISSUE: BID SET
PROJECT NO. 0149-226
DRW: DTM
CHK: EGB

SD.3

DavidM Feb 12, 2025 Z:\JOBS\0149-City of Roseburg\149-226 Stewart Park Tennis & Pickleball Courts\DESIGN\CAD\0149-226_C-DET.dwg

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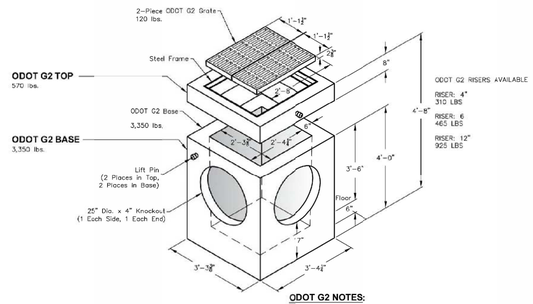
OAR 952-001-0010 THROUGH
OAR 952-001-0090

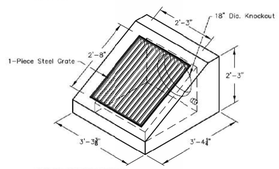
ODOT TYPE G2



ODOT G2 NOTES:

1. MEETS ODOT SPECIFICATIONS STANDARD DRAWING NO. RD364.
2. ALL DIMENSIONS SUBJECT TO ALLOWABLE SPECIFICATION TOLERANCES.

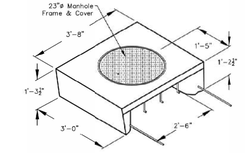
OPTIONAL DITCH INLET TOP
1,260 lbs.



DITCH INLET NOTES:

1. SIMILAR TO ODOT DITCH INLET TYPE D SPECIFICATIONS STANDARD DRAWING NO. RD370.
2. SIMILAR TO CLEAN WATER SERVICES DRAWING NO. 390.
3. SIMILAR TO CITY OF SALEM STANDARD PLAN NO. 202.

OPTIONAL ODOT CG3 TOP
1,050 lbs.



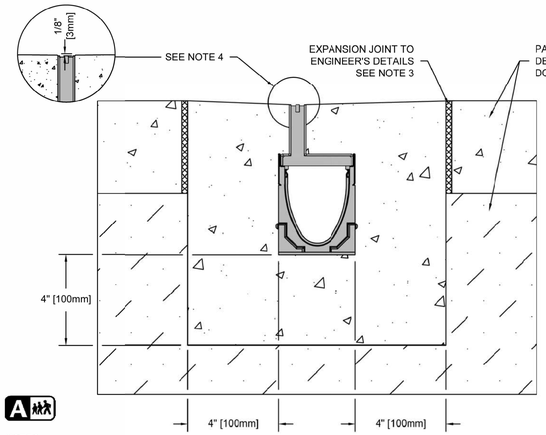
SOLID TOP NOTES:

1. MEETS ODOT SPECIFICATIONS STANDARD DRAWING NO. RD371.

Oldcastle Precast®	ODOT TYPE G2	ODOT TYPE G2 INLET
PO Box 323, Wilsonville, Oregon 97070-0323	File Name: 020-TYPE G2-ODOT	
Tel: (503) 682-2844 Fax: (503) 682-2857	Issue Date: 2018	
	oldcastleprecast.com/wilsonville	

13.0

1 SD.4



NOTES:
1. IT IS NECESSARY TO ENSURE MINIMUM DIMENSIONS SHOWN ARE SUITABLE FOR EXISTING GROUND CONDITIONS. *ENGINEERING ADVICE MAY BE REQUIRED.*
2. MINIMUM CONCRETE STRENGTH OF 4,000 PSI IS RECOMMENDED. CONCRETE SHOULD BE VIBRATED TO ELIMINATE AIR POCKETS.
3. EXPANSION AND CONTRACTION CONTROL JOINTS AND REINFORCEMENT ARE RECOMMENDED TO PROTECT CHANNEL AND CONCRETE SURROUND. *ENGINEERING ADVICE MAY BE REQUIRED.*
4. THE FINISHED LEVEL OF THE CONCRETE SURROUND MUST BE APPROX. 1/8" [3mm] ABOVE THE TOP OF THE CHANNEL EDGE.
5. CONCRETE BASE THICKNESS SHOULD MATCH SLAB THICKNESS. ENGINEERING ADVICE MAY BE REQUIRED TO DETERMINE PROPER LOAD CLASS.
6. REFER TO ACO'S LATEST INSTALLATION INSTRUCTIONS FOR FURTHER DETAILS.

SPECIFICATION CLAUSE

K100 KLASSIKDRAIN W/BRICKSLOT 100 HEEL RESISTANT - LOAD CLASS A

GENERAL
THE SURFACE DRAINAGE SYSTEM SHALL BE POLYMER CONCRETE K100 CHANNEL SYSTEM WITH GALVANIZED STEEL EDGE RAILS AND BRICKSLOT AS MANUFACTURED BY ACO POLYMER PRODUCTS, INC.

MATERIALS
CHANNELS SHALL BE MANUFACTURED FROM POLYESTER RESIN POLYMER CONCRETE WITH AN INTEGRALLY CAST-IN GALVANIZED STEEL EDGE RAIL. MINIMUM PROPERTIES OF POLYMER CONCRETE WILL BE AS FOLLOWS:

COMPRESSIVE STRENGTH:	14,000 PSI
FLEXURAL STRENGTH:	4,000 PSI
TENSILE STRENGTH:	1,500 PSI
WATER ABSORPTION:	0.07%
FROST PROOF	YES
DILUTE ACID AND ALKALI RESISTANT	YES
B117 SALT SPRAY TEST COMPLIANT	YES

THE SYSTEM SHALL BE 4" (100mm) NOMINAL INTERNAL WIDTH WITH A 5.1" (130mm) OVERALL WIDTH. ALL CHANNELS SHALL BE INTERLOCKING WITH A MALE/FEMALE JOINT.

THE COMPLETE DRAINAGE SYSTEM SHALL BE BY ACO POLYMER PRODUCTS, INC. ANY DEVIATION OR PARTIAL SYSTEM DESIGN AND/OR IMPROPER INSTALLATION WILL VOID ANY AND ALL WARRANTIES PROVIDED BY ACO POLYMER PRODUCTS, INC.

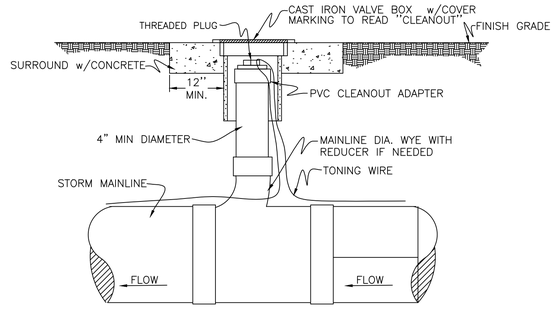
CHANNEL SHALL WITHSTAND LOADING TO PROPER LOAD CLASS AS OUTLINED BY EN 1433. BRICKSLOT SHALL BE APPROPRIATE TO MEET THE SYSTEM LOAD CLASS SPECIFIED AND INTENDED APPLICATION. CHANNEL AND BRICKSLOT SHALL BE CERTIFIED TO MEET THE SPECIFIED EN 1433 LOAD CLASS. THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.

THE BRICKSLOT GRATING SYSTEM SHALL HAVE AN OVERALL INTERNAL WIDTH OF 0.88" (22.35mm) WITH TWO 0.31" (8mm) SLOT OPENINGS AND WITH A 0.25" (6.35mm) TAPERED BAR BETWEEN THE TWO OPENINGS TO PREVENT DEBRIS FROM BEING TRAPPED. THE BRICKSLOT GRATING SYSTEM ADDS 3.27" (83mm) TO THE OVERALL HEIGHT OF THE K100 SYSTEM

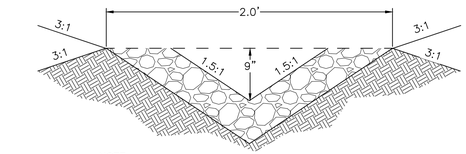
BS1HK1-A-ECP	K100 W/BRICKSLOT 100 HEEL RESISTANT - LOAD CLASS: A Exposed Concrete Pavement	ACO Polymer Products, Inc.		
DATE: 01/25/17	INSTALLATION DRAWING - ACO DRAIN	825 W. Beechcraft St Casa Grande, AZ 85122 Tel: 520-421-9988 Fax: 520-421-9899	9470 Pinecone Dr. Mentor, OH 44060 Tel: 440-639-7230 Fax: 440-639-7235	4211 Pleasant Rd. Fort Mill, SC 29708 Tel: 440-639-7230 Fax: 803-802-1063

Arizona Tel: 888-490-9552 e-mail: sales@acousa.com Ohio Tel: 800-543-4764 www.acousa.com South Carolina Tel: 800-543-4764

2 SD.4

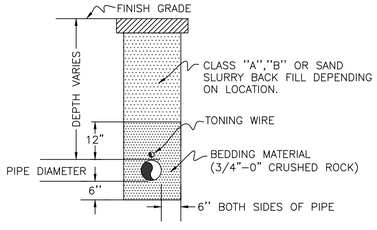


TYPICAL STORM CLEANOUT w/CAST IRON COVER DETAIL (OR APPROVED EQUAL)
NTS
3 SD.4

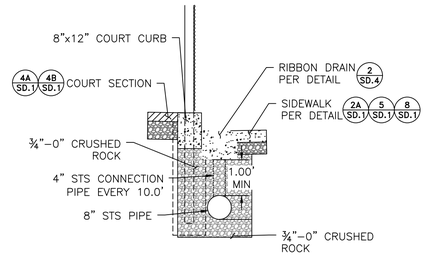


NOTE:
ARMOR "V" DITCH WITH 6" THICK x 2' WIDE RIP RAP ENERGY DISSIPATER TO PREVENT SCOURING

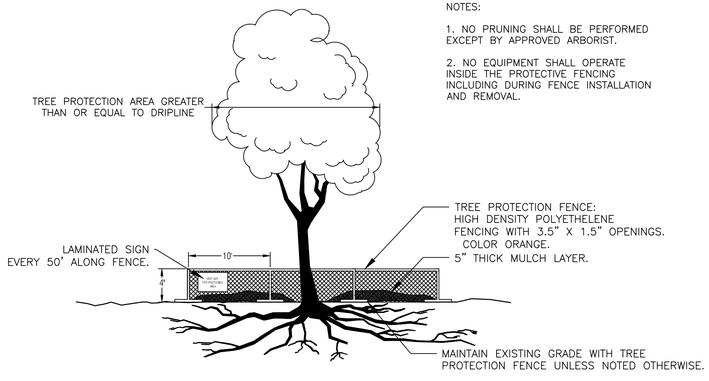
V-DITCH DETAIL
NTS
4 SD.4



TYPICAL STORM LINE TRENCH DETAIL
5 SD.4



RIBBON DRAIN AND STORM PIPE DETAIL
NTS
6 SD.4



NOTES:

1. NO PRUNING SHALL BE PERFORMED EXCEPT BY APPROVED ARBORIST.

2. NO EQUIPMENT SHALL OPERATE INSIDE THE PROTECTIVE FENCING INCLUDING DURING FENCE INSTALLATION AND REMOVAL.

TREE PROTECTION DETAIL
NTS
7 SD.4

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OAR 952-001-0010 THROUGH
OAR 952-001-0090

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809 SE Pine St
Roseburg, OR

ieengineering.com

REGISTERED PROFESSIONAL ENGINEER
58073PE
OREGON
JULY 13, 2004
ALEX M. PALM

Digitally signed by Alex M Palm
Date: 2025.02.13 14:45:08-08'00'

EXPIRES: 12/31/2026

Rev.	Date	Dwg	Description

STEWART PARK TENNIS & PICKLEBALL COURTS
1201 NW STEWART PKWY
ROSEBURG, OR 97471

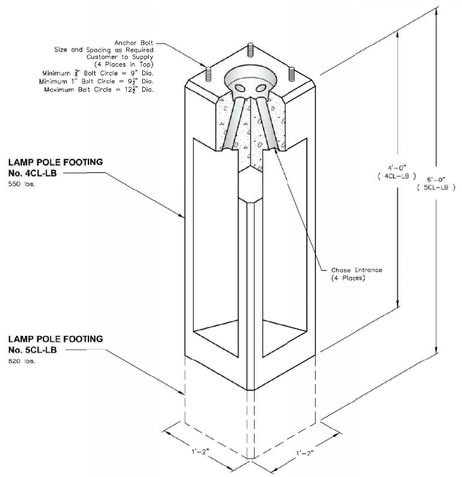
STANDARD STORM & TREE PROTECTION DETAILS
SCALE: NONE
FEBRUARY 13, 2025
ISSUE: BID SET

PROJECT NO. 0149-226
DRW: DTM
CHK: EGB

SD.4

DaveM Feb 12, 2025 Z:_JOBS\0149-City of Roseburg\149-226 Stewart Park Tennis & Pickleball Courts\DESIGN\CAD\0149-226_C-DET.dwg

4CL-LB / 5CL-LB



Notes:
- Customer is responsible for setting lamp pole footing.
- Footings should be selected using Structural Code and/or consultation with Professional Engineer.

Oldcastle Precast®	4CL-LB / 5CL-LB	4CL-LB / 5CL-LB PRECAST FOOTING FOR LAMP POLE
PO Box 323, Wilsonville, Oregon 97070-0323	File Name: 020-4CL5CL	
Tel: (503) 682-2844 Fax: (503) 682-2657	Issue Date: 2018	
	oldcastleprecast.com/wilsonville	

1.0

1 SD.5

RTSP

Project Name: | Catalog Number: | Type

Specifications

Round Tapered Steel Pole

Pole Shaft
• Fabricated from coil stock, weldable grade, hot rolled commercial quality structural steel tube which has a wall thickness of 11 gauge or 7 gauge. Shaft conforms to ASTM specifications. Meets or exceeds minimum yield strength of 55,000 PSI. Shaft is furnished with ground lug inside pole, opposite hand hole opening.

Base Plate
• Fabricated from structural quality hot rolled steel. Meets or exceeds minimum yield strength of 36,000 PSI. Base is circumferentially welded to pole shaft. Bolt holes slotted to provide 1" flexibility on either side of bolt circle. Consult factory for pole base templates.
• Base templates provided with order. Do not pre-pour.

Base Cover
• Standard base cover is square and fabricated from heavy gauge quality aluminum. Two piece cover for easy installation.

Pole Cap
• Color-impregnated polymer snap-to-close pole cap provided in black.

Finish
• All poles are lightly shot-blasted prior to painting. A Qualli-Guard® textured thermoset polyester powder coat is then applied to a minimum of 3 millimeters and then oven-baked at a temperature of 400 °F to promote exceptional adherence and finish hardness. Pole finish is warranted for a full two (2) years.

Anchor Bolts
• Poles are provided with hot-dip galvanized anchor bolts, with a "J" bend on one end and two flat hex bolts end and two flat washers per bolt. Anchor bolts meet or exceed a minimum of 36,000 PSI. Anchor bolts conform to ASTM F1554 grade 36 and are provided.

Model	Height	Gauge	Base	Anchorage	Mounting	Finish	Options
RTSP	25'	11 (11)	12" Base Tenon (12BC)	1" × 36" (136)	Bolt-On Arm Single (S1) ■ D180 (D2) ■■ D90 (D9) ■ Quad (QD) ✚ Tenon Options 3" (T3R)	Black (BK)	GFI Receptacle *Standard location is at hand hole (GFI) Rust-Inhibiting Internal Coating & Primer (HCR) Double Banner Arms (DBA)

For more detailed information on mounting, wiring or installation instructions, please contact factory. If poles are not ordered with fixtures, please specify mounting requirements. This document contains proprietary information of Visionaire Lighting, LLC. Any use of the information requires the written approval of Visionaire Lighting, LLC. In keeping with our TQM policy of continuous improvement, Visionaire reserves the right to change any specifications contained herein without prior notice.

VISIONAIRE LIGHTING "Performance In A Whole New Light"

182

2A SD.5

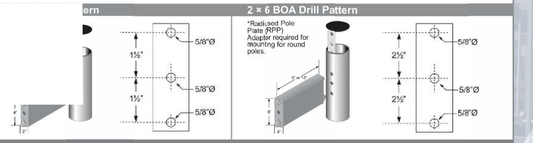
POLES + BASES

RTSP

Pole EPA for Round Tapered Steel Poles

Pole Height	Maximum Allowable EPA (ft²) with 1.3 gust factor									Base Diameter	Pole Gauge	Bolt Circle	Anchor Bolt Size	Pole Weight
	90 mph	100 mph	110 mph	120 mph	130 mph	140 mph	150 mph	160 mph	170 mph					
25'	20.3	15.3	13.9	14.4	11.0	8.9	7.1	5.9	4.3	7½"	11	12½"	1" × 36"	209

2 × 6 BOA Drill Pattern



19548 Rancho Way Rancho Dominguez, CA 90220
Tel: (310) 512-6480 Fax: (310) 512-6486
www.visionairelighting.com

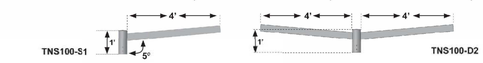
165

2B SD.5

POLES + BASES

TNS100

Project Name: | Catalog Number: | Type



The **TNS100** tennis court mounting arm is constructed of 1½" x 3½" rectangular steel tubing. This arm can be made to slip over the following tenon (or pole) sizes: 3½" Ø, 4" Ø, 4½" Ø, and 5" Ø. The **TNS100** is available in the following pole mounting configurations: Single, Double 70°, Double 90°, Double 180°, Quad 70° and Quad 90°.

EPA	Single	Double
4'	1.2	2.4

Model	Size or Length	Configuration	Pole or Tenon Size	Finish
TNS 100	4'	Single (S1) Double (D2) Double 90° (D9) Quad 90° (QD)	3" dia (3)	Black (BK)

Typical Tennis Mounting Configurations

Single | Double | Double 90° | Quad 90°

19548 Rancho Way Rancho Dominguez, CA 90220
Tel: (310) 512-6480 Fax: (310) 512-6486
www.visionairelighting.com

197

3 SD.5

MOUNTING ARMS

4 SD.5

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Roseburg, OR

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58073PE
OREGON
JULY 13, 2004
ALEX M. PALM
Digitally signed by Alex M Palm
Date: 2025.02.13 14:45:17-08'00'

EXPIRES: 12/31/2026

Rev.	Date	Dwg	Description

STEWART PARK TENNIS & PICKLEBALL COURTS

1201 NW STEWART PKWY
ROSEBURG, OR 97471

STANDARD LIGHTING DETAILS

SCALE: NONE
FEBRUARY 13, 2025
ISSUE: BID SET

PROJECT NO. 0149-226
DRW. DTM
CHK. EGB

Z:_JOBS\0149-City of Roseburg\149-226 Stewart Park Tennis & Pickleball Courts\DESIGN\CADD\0149-226L_C-DET.dwg

DavidM Feb 12, 2025

SD.5

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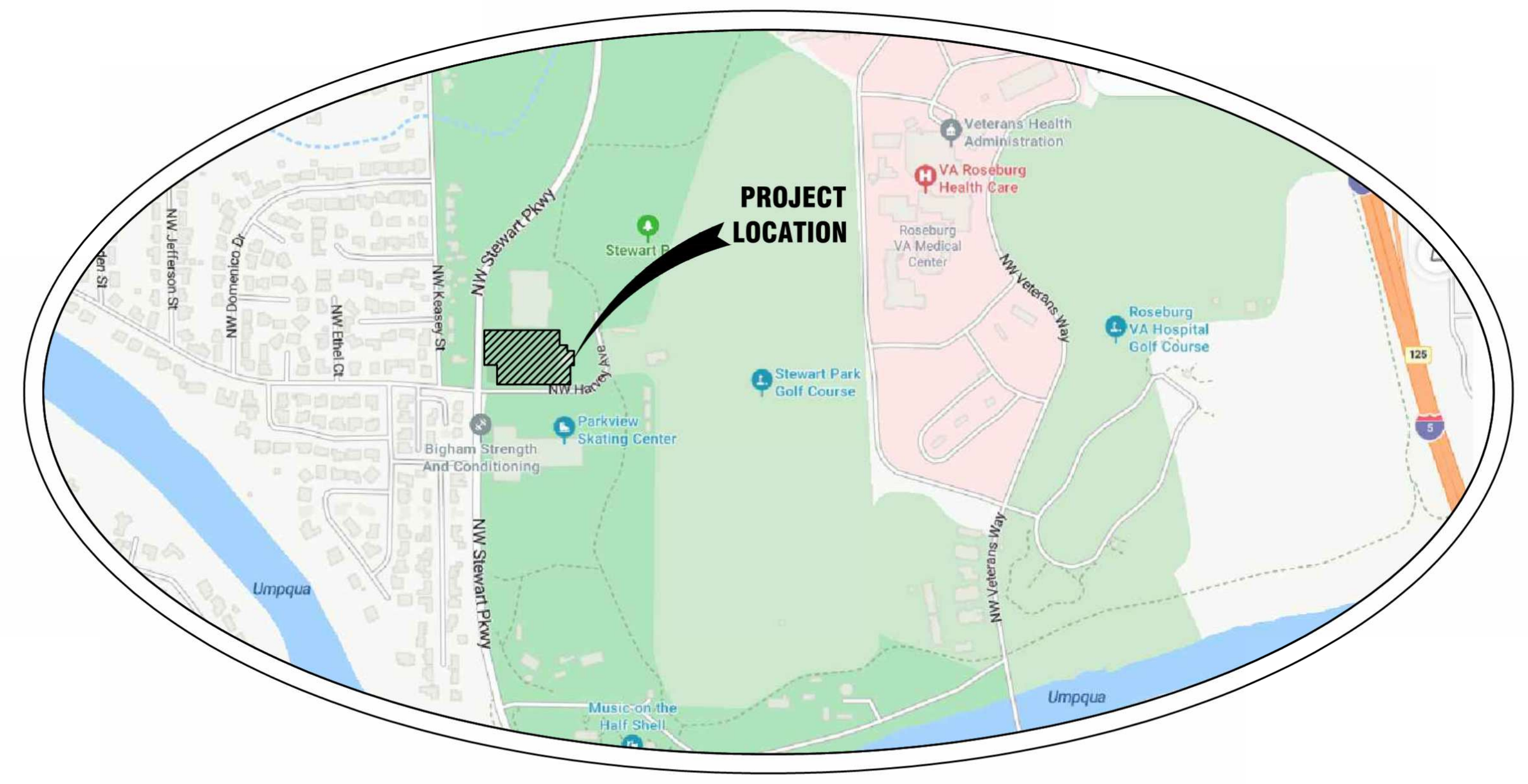
OAR 952-001-0010 THROUGH
OAR 952-001-0090

STEWART PARK TENNIS & PICKLEBALL COURT
1200-C EROSION & SEDIMENT CONTROL PLAN

DEQ STANDARD NOTES:

1. ONCE KNOWN, INCLUDE A LIST OF ALL CONTRACTORS THAT WILL ENGAGE IN CONSTRUCTION ACTIVITIES ON SITE, AND THE AREAS OF THE SITE WHERE THE CONTRACTOR(S) WILL ENGAGE IN CONSTRUCTION ACTIVITIES. REVISE THE LIST AS APPROPRIATE UNTIL PERMIT COVERAGE IS TERMINATED (SECTION 4.4.C.I). IN ADDITION, INCLUDE A LIST OF ALL PERSONNEL (BY NAME AND POSITION) THAT ARE RESPONSIBLE FOR THE DESIGN, INSTALLATION AND MAINTENANCE OF STORMWATER CONTROL MEASURES (E.G. ESCP DEVELOPER, BMP INSTALLER (SEE SECTION 4.10), AS WELL AS THEIR INDIVIDUAL RESPONSIBILITIES. (SECTION 4.4.C.II)
2. VISUAL MONITORING INSPECTION REPORTS MUST BE MADE IN ACCORDANCE WITH DEQ 1200–C PERMIT REQUIREMENTS. (SECTION 6.5)
3. INSPECTION LOGS MUST BE KEPT IN ACCORDANCE WITH DEQ'S 1200–C PERMIT REQUIREMENTS. (SECTION 6.5.Q)
4. RETAIN A COPY OF THE ESCP AND ALL REVISIONS ON SITE AND MAKE IT AVAILABLE ON REQUEST TO DEQ, AGENT, OR THE LOCAL MUNICIPALITY. (SECTION 4.7)
5. THE PERMIT REGISTRANT MUST IMPLEMENT THE ESCP. FAILURE TO IMPLEMENT ANY OF THE CONTROL MEASURES OR PRACTICES DESCRIBED IN THE ESCP IS A VIOLATION OF THE PERMIT. (SECTIONS 4 AND 4.11)
6. THE ESCP MUST BE ACCURATE AND REFLECT SITE CONDITIONS. (SECTION 4.8)
7. 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 WITHIN 10 DAYS. (SECTION 4.9)
8. SEQUENCE CLEARING AND GRADING TO THE MAXIMUM EXTENT PRACTICAL TO PREVENT EXPOSED INACTIVE AREAS FROM BECOMING A SOURCE OF EROSION. (SECTION 2.2.2)
9. CREATE SMOOTH SURFACES BETWEEN SOIL SURFACE AND EROSION AND SEDIMENT CONTROLS TO PREVENT STORMWATER FROM BYPASSING CONTROLS AND PONDING. (SECTION 2.2.3)
10. IDENTIFY, MARK, AND PROTECT (BY CONSTRUCTION FENCING 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. (SECTION 2.2.1)
11. 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. (SECTION 2.2.5)
12. MAINTAIN AND DELINEATE ANY EXISTING NATURAL BUFFER WITHIN THE 50–FEET OF WATERS OF THE STATE. (SECTION 2.2.4)
13. INSTALL PERIMETER SEDIMENT CONTROL, INCLUDING STORM DRAIN INLET PROTECTION AS WELL AS ALL SEDIMENT BASINS, TRAPS, AND BARRIERS PRIOR TO LAND DISTURBANCE. (SECTIONS 2.1.3)
14. CONTROL BOTH PEAK FLOW RATES AND TOTAL STORMWATER VOLUME, TO MINIMIZE EROSION AT OUTLETS AND DOWNSTREAM CHANNELS AND STREAMBANKS. (SECTIONS 2.1.1. AND 2.2.16)
15. CONTROL SEDIMENT AS NEEDED ALONG THE SITE PERIMETER AND AT ALL OPERATIONAL INTERNAL STORM DRAIN INLETS AT ALL TIMES DURING CONSTRUCTION, BOTH INTERNALLY AND AT THE SITE BOUNDARY. (SECTIONS 2.2.6 AND 2.2.13)
16. ESTABLISH CONCRETE TRUCK AND OTHER CONCRETE EQUIPMENT WASHOUT AREAS BEFORE BEGINNING CONCRETE WORK. (SECTION 2.2.14)
17. APPLY TEMPORARY AND/OR PERMANENT SOIL STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS AS GRADING PROGRESSES. TEMPORARY OR PERMANENT STABILIZATIONS MEASURES ARE NOT REQUIRED FOR AREAS THAT ARE INTENDED TO BE LEFT UNVEGETATED, SUCH AS DIRT ACCESS ROADS OR UTILITY POLE PADS.(SECTIONS 2.2.20 AND 2.2.21)
18. ESTABLISH MATERIAL AND WASTE STORAGE AREAS, AND OTHER NON–STORMWATER CONTROLS. (SECTION 2.3. 7)
19. KEEP WASTE CONTAINER LIDS CLOSED WHEN NOT IN USE AND CLOSE LIDS AT THE END OF THE BUSINESS DAY FOR THOSE CONTAINERS THAT ARE ACTIVELY USED THROUGHOUT THE DAY. FOR WASTE CONTAINERS THAT DO NOT HAVE LIDS, PROVIDE EITHER (1) COVER (E.G., A TARP, PLASTIC SHEETING, TEMPORARY ROOF) TO PREVENT EXPOSURE OF WASTES TO PRECIPITATION, OR (2) A SIMILARLY EFFECTIVE MEANS DESIGNED TO PREVENT THE DISCHARGE OF POLLUTANTS (E.G., SECONDARY CONTAINMENT). (SECTION 2.3.7)
20. PREVENT TRACKING OF SEDIMENT ONTO PUBLIC OR PRIVATE ROADS USING BMPS SUCH AS: CONSTRUCTION ENTRANCE, 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. (SECTION 2.2.7)
21. WHEN TRUCKING SATURATED SOILS FROM THE SITE, EITHER USE WATER–TIGHT TRUCKS OR DRAIN LOADS ON SITE. (SECTION 2.2.7.F)
22. CONTROL PROHIBITED DISCHARGES FROM LEAVING THE CONSTRUCTION SITE, I.E., CONCRETE WASH–OUT, WASTEWATER FROM CLEANOUT OF STUCCO, PAINT AND CURING COMPOUNDS. (SECTIONS 1.5 AND 2.3.9)
23. ENSURE THAT STEEP SLOPE AREAS WHERE CONSTRUCTION ACTIVITIES ARE NOT OCCURRING ARE NOT DISTURBED. (SECTION 2.2.10)
24. PREVENT SOIL COMPACTION IN AREAS WHERE POST–CONSTRUCTION INFILTRATION FACILITIES ARE TO BE INSTALLED. (SECTION 2.2.12)
25. 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, FERTILIZER, PESTICIDES AND HERBICIDES, PAINTS, SOLVENTS, CURING COMPOUNDS AND ADHESIVES FROM CONSTRUCTION OPERATIONS. (SECTIONS 2.2.15 AND 2.3)
26. PROVIDE PLANS FOR SEDIMENTATION BASINS THAT HAVE BEEN DESIGNED PER SECTION 2.2.17 AND STAMPED BY AN OREGON PROFESSIONAL ENGINEER. (SEE SECTION 2.2.17.A)
27. IF ENGINEERED SOILS ARE USED ON SITE, A SEDIMENTATION BASIN/IMPOUNDMENT MUST BE INSTALLED. (SEE SECTIONS 2.2.17 AND 2.2.18)
28. PROVIDE A DEWATERING PLAN FOR ACCUMULATED WATER FROM PRECIPITATION AND UNCONTAMINATED GROUNDWATER SEEPAGE DUE TO SHALLOW EXCAVATION ACTIVITIES. (SEE SECTION 2.4)
29. 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. (SECTION 2.3)
30. USE WATER, SOIL–BINDING AGENT OR OTHER DUST CONTROL TECHNIQUE AS NEEDED TO AVOID WIND–BLOWN SOIL. (SECTION 2.2.9)
31. 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. (SECTION 2.3.5)
32. IF AN ACTIVE 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 ENVIRONMENTAL MANAGEMENT PLAN APPROVAL FROM DEQ BEFORE OPERATING THE TREATMENT SYSTEM. OPERATE AND MAINTAIN THE TREATMENT SYSTEM ACCORDING TO MANUFACTURER'S SPECIFICATIONS. (SECTION 1.2.9)
33. TEMPORARILY STABILIZE SOILS AT THE END OF THE SHIFT BEFORE HOLIDAYS AND WEEKENDS, IF NEEDED. THE REGISTRANT IS RESPONSIBLE FOR ENSURING THAT SOILS ARE STABLE DURING RAIN EVENTS AT ALL TIMES OF THE YEAR. (SECTION 2.2)
34. AS NEEDED BASED ON WEATHER CONDITIONS, 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. (SECTION 2.2.8)
35. SEDIMENT FENCE: REMOVE TRAPPED SEDIMENT BEFORE IT REACHES ONE THIRD OF THE ABOVE GROUND FENCE HEIGHT AND BEFORE FENCE REMOVAL. (SECTION 2.1.5.B)
36. OTHER SEDIMENT BARRIERS (SUCH AS BIOBAGS): REMOVE SEDIMENT BEFORE IT REACHES TWO INCHES DEPTH ABOVE GROUND HEIGHT AND BEFORE BMP REMOVAL. (SECTION 2.1.5.C)
37. CATCH BASINS: CLEAN BEFORE RETENTION CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT. SEDIMENT BASINS AND SEDIMENT TRAPS: REMOVE TRAPPED SEDIMENTS BEFORE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT AND AT COMPLETION OF PROJECT. (SECTION 2.1.5.D)
38. 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 DEPARTMENT OF STATE LANDS REQUIRED TIMEFRAME. (SECTION 2.2.19.A)
39. 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. (SECTION 2.2.19)
40. DOCUMENT ANY PORTION(S) OF THE SITE WHERE LAND DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED OR WILL BE TEMPORARILY INACTIVE FOR 14 OR MORE CALENDAR DAYS. (SECTION 6.5.F.)
41. PROVIDE TEMPORARY STABILIZATION FOR THAT PORTION OF THE SITE WHERE CONSTRUCTION ACTIVITIES CEASE FOR 14 DAYS OR MORE WITH A COVERING OF BLOWN STRAW AND A TACKIFIER, LOOSE STRAW, OR AN ADEQUATE COVERING OF COMPOST MULCH UNTIL WORK RESUMES ON THAT PORTION OF THE SITE. (SECTION 2.2.20)
42. DO NOT REMOVE TEMPORARY SEDIMENT CONTROL PRACTICES UNTIL PERMANENT VEGETATION OR OTHER COVER OF EXPOSED AREAS IS ESTABLISHED. ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED, ALL TEMPORARY EROSION CONTROLS AND RETAINED SOILS MUST BE REMOVED AND DISPOSED OF PROPERLY, UNLESS NEEDED FOR LONG TERM USE FOLLOWING TERMINATION OF PERMIT COVERAGE. (SECTION 2.2.21)



VICINITY MAP
NTS

SHEET INDEX:

EC1	ESCP COVER SHEET
EC2	DEMO AND CLEARING PLAN
EC3	ROAD, UTILITY AND VERTICAL CONSTRUCTION PLAN
EC4	GRADING AND DRAINAGE PLAN
EC5	FINAL STABILIZATION PLAN
EC6	STANDARD EROSION CONTROL DETAILS
EC7	STANDARD EROSION CONTROL DETAILS

DEVELOPER:
CITY OF ROSEBURG
900 SE DOUGLAS AVE
ROSEBURG, OR 97470

ENGINEER:
I.E. ENGINEERING
CONTACT: ALEX M. PALM, PE
809 SE PINE STREET
ROSEBURG, OR 97470
PHONE: 541–673–0166
FAX: 541–440–9392

PROJECT LOCATION:
1051 NW STEWART PKWY
ROSEBURG, OR 97471

PROJECT ZONING:
TRACT: 154.14 ACRES
ZONE: PR (PUBLIC RESERVE)
WATER: CITY OF ROSEBURG WATER DEPARTMENT
SEWER: (RUSA) ROSEBURG URBAN SANITARY AUTHORITY
FIRE: CITY OF ROSEBURG

AREA OF DISTURBANCE: 2.5± AC

RAIN GAUGE:
LOCATION: ROSEBURG REGIONAL AIRPORT

RECEIVING BODY OF WATER:
NEWTON CREEK

PERMITEES' SITE INSPECTOR:
CONTACT: KRISTI WOODS
PHONE: 541–643–4935
EMAIL: kwoods.cog@gmail.com
INSPECTOR#: 85606
EXPIRES: 01/08/2028

INSPECTOR NOTE: CONTRACTOR SHALL BE REQUIRED TO PROVIDE THEIR OWN EROSION CONTROL SITE INSPECTOR PRIOR TO THE START OF CONSTRUCTION AND MODIFY DEQ PERMIT AS NEEDED TO CHANGE THE INSPECTOR AND RESPONSIBLE PARTY FOR THE PERMIT.

PROPERTY DESCRIPTION:
DOUGLAS COUNTY TAX LOT NUMBER: 100 LOCATED IN NE¼ OF SECTION 14, TOWNSHIP 27 S, RANGE 06 W, WILLAMETTE MERIDIAN, DOUGLAS COUNTY, OREGON

DISCLAIMER:
LOCATIONS FOR THE GAS, POWER, PHONE, AND CABLE TV UTILITIES WERE DESIGNED AND PROVIDED BY OTHERS. i.e. ENGINEERING DID NOT DESIGN OR OBSERVE THE INSTALLATION OF THESE UTILITIES AND DOES NOT WARRANT THE "AS–BUILT" CONDITION, LOCATION, OR MAPPING ACCURACY REGARDING SUCH UTILITIES.

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.

ASBESTOS SPECIAL NOTE:
MATERIALS CONTAINING ASBESTOS MAY BE PRESENT IN UNDERGROUND PIPE SYSTEMS. ALL APPROPRIATE FEDERAL, STATE, COUNTY AND MUNICIPAL RULES, REGULATIONS AND GUIDELINES MUST BE FOLLOWED WHEN WORKING WITH ASBESTOS–CONTAINING MATERIAL. NONFRIABLE MATERIAL MUST BE HANDLED, TRANSPORTED AND DISPOSED OF IN A WAY THAT PREVENTS IT FROM BECOMING FRIABLE AND RELEASING ASBESTOS FIBERS. IF AC PIPE IS SHATTERED, DAMAGED OR BADLY WEATHERED, IT IS CONSIDERED TO BE FRIABLE AND WILL LIKELY RELEASE ASBESTOS FIBERS. DEQ LICENSED ASBESTOS ABATEMENT CONTRACTOR USING DEQ CERTIFIED WORKERS MUST REMOVE ALL FRIABLE ASBESTOS MATERIAL. ANY AND ALL PERMITS AND FEES THAT ARE REQUIRED BY THE DEQ, DOUGLAS, COUNTY AND ANY OTHER REGULATORY AGENCY MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO DISPOSING OF THE ASBESTOS CONTAINING MATERIAL. FOR INFORMATION ABOUT ASBESTOS RULES, CONTACT THE DEQ WESTERN REGION OFFICE IN MEDFORD, 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 800–332–2344.

LEGEND:

Symbol	Description
(ELEV.)	EXISTING CONTOUR ELEV.
ELEV.	NEW CONTOUR ELEV.
	EXISTING EDGE OF AC OR GRAVEL
	SAW CUT
R/W	EXISTING RIGHT–OF–WAY
R/W	NEW RIGHT–OF–WAY
SS	EXISTING SANITARY SEWER (SS)
SS	NEW SANITARY SEWER (SS)
PS	EXISTING PRESSURE SEWER (PS)
PS	NEW PRESSURE SEWER (PS)
STS	EXISTING STORM SEWER (STS)
STS	NEW STORM SEWER (STS)
W	EXISTING WATER
W	NEW WATER
PUG	EXISTING POWER (UNDERGROUND)
POH	EXISTING POWER (OVERHEAD)
UGU UGU	NEW UNDERGROUND (TV, POWER, PHONE)
C	NEW ELECTRICAL CONDUIT
GAS	EXISTING GAS
TV TV	EXISTING CABLE TV
X	EXISTING FENCE
X	NEW FENCE
S–F	SILT FENCE (S–F)
	ARMORED DITCH
	10' P.U.E.
	50' WETLAND BUFFER
	LIMITS OF WETLAND MITIGATION
TFC	TOP FACE OF CURB
BFC	BOTTOM FACE OF CURB
AC	ASPHALT
CONC	CONCRETE
FF	FINISH FLOOR
FG	FINISH GRADE
OG	ORIGINAL GROUND

Symbol	Description
	MANHOLE (MH)
	CURB INLET (CI)
	CATCH BASIN (CB)
	CLEANOUT
	FIRE HYDRANT
	VALVE
	WATER METER
	BLOWOFF
	POWER POLE
	LIGHT POLE
	GUY WIRE
	POWER PEDESTAL
	TELEPHONE PEDESTAL
GM	GAS METER
	CABLE TV PEDESTAL
MAIL	MAIL BOX
>	FLOW DIRECTION ARROW
	TREE (EVERGREEN)
	TREE (DECIDUOUS)
# / # DETAIL # SHEET #	DETAIL REFERENCE

EXISTING SITE CONDITIONS:
THE SITE IS LOCATED AT THE CORNER OF NW HARVEY AVE AND NW STEWART PARKWAY IN ROSEBURG, OR. THE SITE IS THE EXISTING TENNIS AND PICKLEBALL COURTS IN ROSEBURG.

DEVELOPED CONDITIONS:
THE PROJECT WILL CONSIST OF REMOVING AND REPLACING THE CURRENT TENNIS AND PICKLEBALL COURTS SURFACES AND STRUCTURES.

FINAL STABILIZATION MEASURES/SEEDING NOTES:
BLM MIXTURE:
THE BLM MIXTURE IS A COMBINATION OF PERENNIAL RYEGRASS AND ANNUAL RYEGRASS. THIS IS A GREAT OPTION FOR EROSION CONTROL GRASS THE ANNUAL RYEGRASS ESTABLISHES VERY QUICKLY WHILE THE PERENNIAL VARIETY GIVES LONGEVITY.

FORMULATION: 60% PERENNIAL RYEGRASS, 40% ANNUAL RYEGRASS.
SEEDING RATE: 30–40 LBS./ACRE

All ESCP controls and practices must be inspected according to the following schedule:

Site Condition	Minimum Frequency
1. Active period	On the initial date; Daily within 24 hours when stormwater runoff, including runoff from snowmelt, is occurring; and At least once every 14 calendar days, regardless of whether stormwater runoff is occurring
2. Prior to the site becoming inactive or in anticipation of site inaccessibility	No more than 14 calendar days prior to a site becoming inactive to ensure that erosion and sediment control measure 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	Twice the first month, no less than 14 calendar days apart, after becoming inactive, and then once a 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 and construction activities are suspended.	Resume monitoring immediately upon melt, or when weather conditions make discharges likely.
6. Periods during which discharge is unlikely due to frozen conditions and construction activities are occurring.	Once a month.

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OAR 952–001–0010 THROUGH
OAR 952–001–0090

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809 SE Pine St
Roseburg, OR

ieengineering.com

REGISTERED PROFESSIONAL ENGINEER
81111PE
OREGON
JANUARY 14, 20..
NICHOLAS R. JONES
Digitally signed by Nicholas R Jones
Date: 2025.02.13 13:50:23 -08'00'
EXPIRES: 06-30-2025

Rev.	Date	Dwg	Description

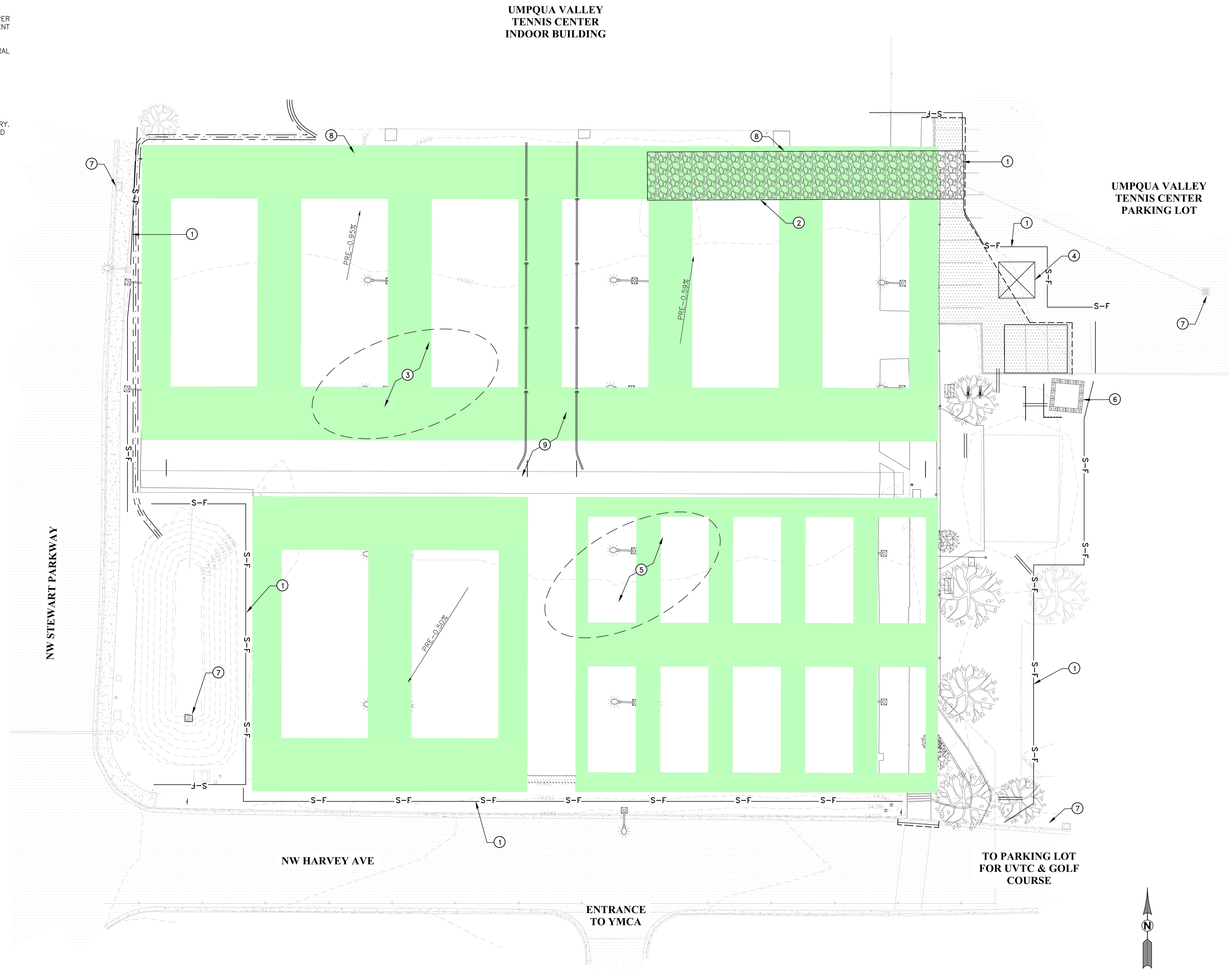
TENNIS & PICKLEBALL COURT 1200-C ESCP
1201 NW STEWART PKWY
ROSEBURG, OR 97471
COVER SHEET
SCALE: AS SHOWN
FEBRUARY 13, 2025
ISSUE: FOR PERMIT
PROJECT NO. 0149-226
DRW: KLW
CHK: NRJ

EC1

DaveM Feb 12, 2025 Z:\JOBS\0149–City of Roseburg\149–226 Stewart Park Tennis & Pickleball Courts\DESIGN\CADD\0149–226 1200–C.dwg

KEYED DEMOLITION, CLEARING AND GRADING EROSION CONTROL NOTES: (#)

1. INSTALL SILT FENCE PER DETAIL (2/EC6) OR INSTALL STRAW WATTLE ON HARDSCAPE SURFACES PER MANUFACTURERS RECOMMENDATION.
2. INSTALL CONSTRUCTION ENTRANCE PER DETAIL (1/EC6)
3. POLLUTANT GENERATING ACTIVITY: FUELING & OILING CONTRACTOR TO LOCATE FUELING & OILING OPERATIONS AS REQUIRED PER 1200-C PERMIT & SPEC PLAN. CONTRACTOR TO HAVE SPILL CONTAINMENT KIT AVAILABLE NEAR OPERATION.
4. PLACE & MAINTAIN SANITARY FACILITIES PER STATE & FEDERAL REQUIREMENTS. CONTRACTOR TO LOCATE.
5. INSTALL PERIMETER BMP'S AROUND STOCKPILES PER DETAIL (4/EC6) CONTRACTOR TO LOCATE STOCKPILES.
6. POLLUTANT GENERATING ACTIVITY: CONCRETE WASTE WATER. MAINTAIN CONCRETE WASHOUT PER DETAIL (3/EC6)
7. INSTALL & MAINTAIN INLET PROTECTION PER DETAIL (1/EC7) OR (2/EC7) AS NECESSARY. PROVIDE INLET PROTECTION ON NEW CATCH BASINS AFTER INSTALLATION AND AFTER COMPLETION OF CONSTRUCTION ACTIVITIES
8. EXISTING CATCH BASIN TO BE REMOVED AND DISPOSED.
9. CONCRETE SURFACES TO BE REMOVED AND DISPOSED.



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REGISTERED PROFESSIONAL ENGINEER 81111PE OREGON NICHOLAS R. JONES
EXPIRES: 06-30-2025

Rev.	Date	Dwg	Description

TENNIS & PICKLEBALL COURT 1200-C ESCP

1201 NW STEWART PKWY
ROSEBURG, OR 97471

DEMOLITION AND EROSION CONTROL PLAN

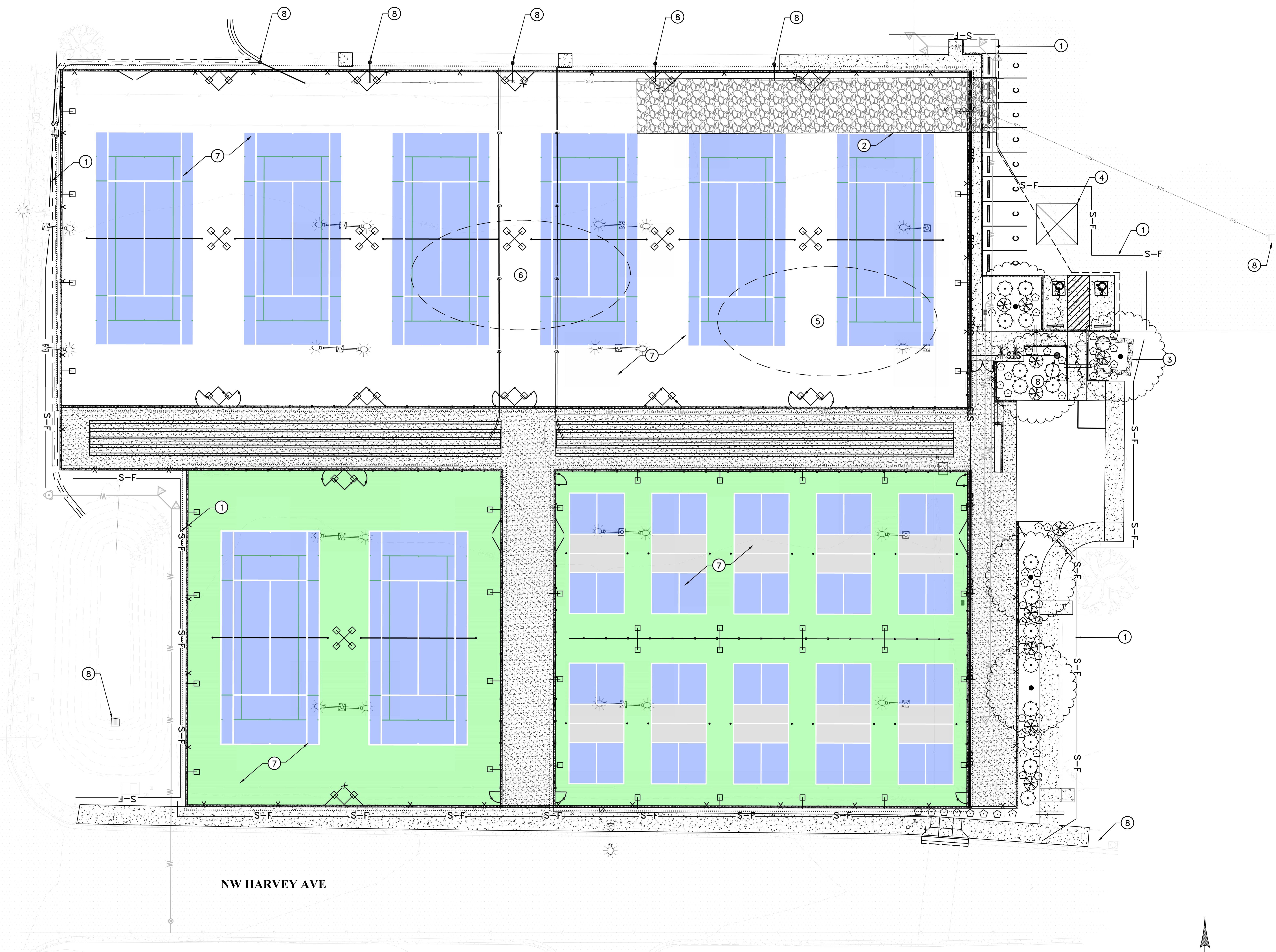
SCALE: AS SHOWN
FEBRUARY 13, 2025
ISSUE: FOR PERMIT
PROJECT NO. 0149-226
DRW: KLW
CHK: NRJ

EC2

DaveM Feb 12, 2025 Z:\JOBS\0149-City of Roseburg\149-226 Stewart Park Tennis & Pickleball Courts\DESIGN\CADD\0149-226 1200-C.dwg

KEYED UTILITY, STREET AND VERTICAL CONSTRUCTION EROSION CONTROL NOTES: (#)

1. REMOVE, INSTALL, AND/OR MAINTAIN SILT FENCE AS NEEDED PER DETAIL. (2/EC6) OR STRAW WATTLE PER MANUFACTURERS RECOMMENDATION.
2. RELOCATE AND MAINTAIN CONSTRUCTION ENTRANCE AS NEEDED PER DETAIL (1/EC6)
3. POLLUTANT GENERATING ACTIVITY: CONCRETE WASTE WATER. RELOCATE AND MAINTAIN CONCRETE WASHOUT AS NEEDED PER DETAIL. (3/EC6)
4. RELOCATE AND MAINTAIN SANITARY FACILITIES AS NEEDED. CONTRACTOR TO LOCATE.
5. POLLUTANT GENERATING ACTIVITY: FUELING & OILING. CONTRACTOR TO LOCATE FUELING & OILING OPERATIONS AS REQUIRED PER 1200–C & SPILL PLAN. CONTRACTOR TO HAVE SPILL CONTAINMENT KIT AVAILABLE NEAR OPERATION.
6. MAINTAIN STOCKPILE AND STOCKPILE BMPS PER DETAIL. (4/EC6) CONTRACTOR TO DETERMINE LOCATION.
7. POLLUTANT GENERATING ACTIVITY: PAINTING SOLVENTS, CAULKING, SEALING, STRIPING. STORE MATERIALS ON DOUBLE CONTAINMENT, INSIDE STORAGE CONTAINER OR NEW STRUCTURE, IF STORED ON SITE. CONTRACTOR TO SIZE DOUBLE CONTAINMENT PER FEDERAL REQUIREMENTS CONTRACTOR TO DISPOSE OF MATERIAL EXCESS, WASTE & FEDERAL REQUIREMENTS.
8. INSTALL & MAINTAIN INLET PROTECTION PER DETAIL (1/EC7) OR (2/EC7) AS NECESSARY. PROVIDE INLET PROTECTION ON NEW CATCH BASINS AFTER INSTALLATION AND AFTER COMPLETION OF CONSTRUCTION ACTIVITIES.



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EXPIRES: 06-30-2025

Rev.	Date	Dwg	Description

TENNIS & PICKLEBALL COURT 1200-C ESCP

1201 NW STEWART PKWY
ROSEBURG, OR 97471

ROAD, UTILITY AND VERTICAL CONSTRUCTION PLAN

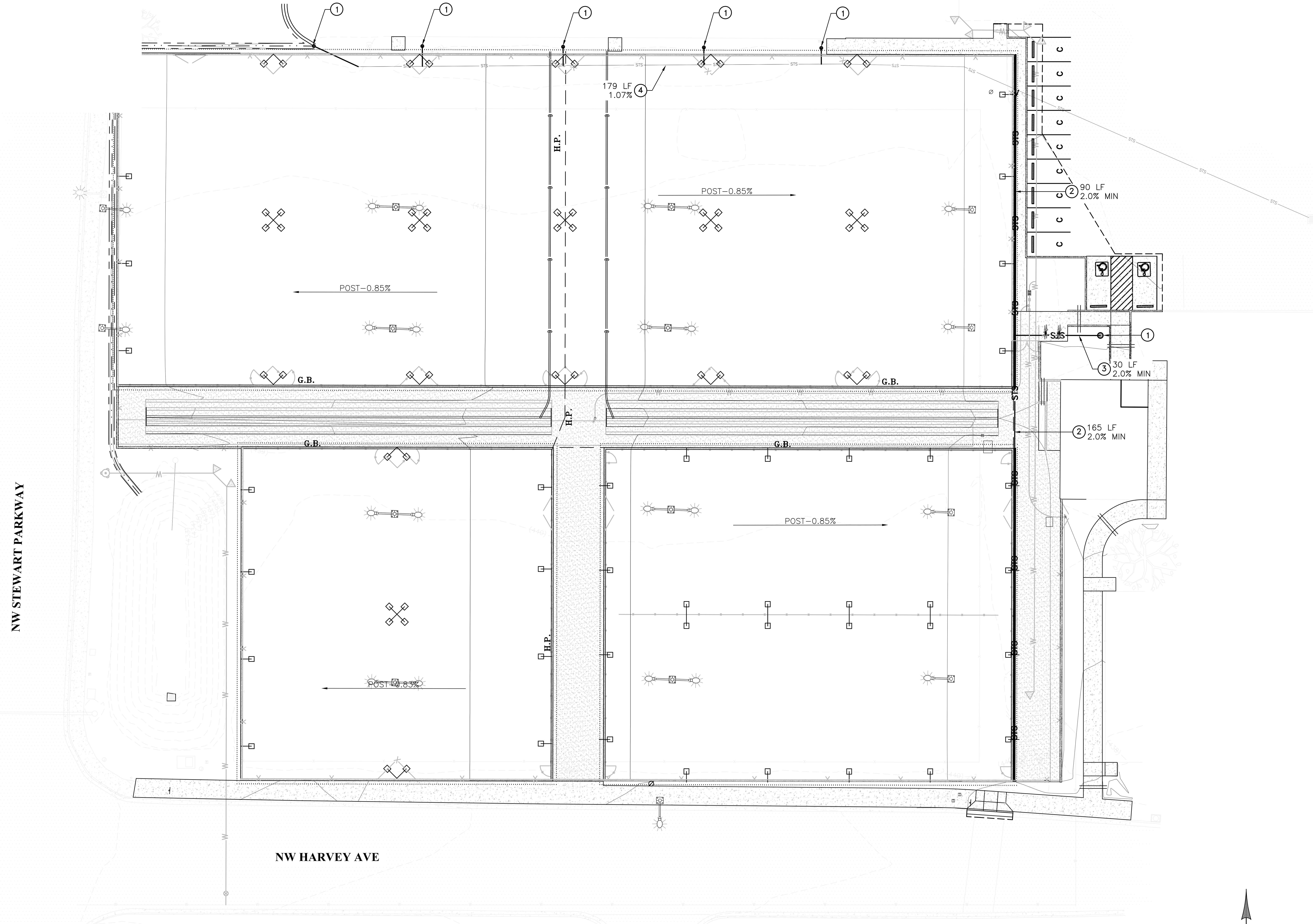
SCALE: AS SHOWN
FEBRUARY 13, 2025
ISSUE: FOR PERMIT
PROJECT NO. 0149-226
DRW: KLW
CHK: NRJ

EC3

DaveM Feb 12, 2025 Z:\JOBS\0149–City of Roseburg\149–226 Stewart Park Tennis & Pickleball Courts\DESIGN\CADD\0149–226 1200–C.dwg

KEYED GRADING AND DRAINAGE NOTES: (#)

1. INSTALL STS AREA DRAIN.
2. INSTALL 12" ADS N-12 STS PIPE. LENGTH AND SLOPE PER PLAN.
3. INSTALL 8" ADS N-12 STS PIPE. LENGTH AND SLOPE PER PLAN.
4. EXISTING 12" STS PIPE TO REMAIN.



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NICHOLAS R. JONES
EXPIRES: 06-30-2025

Rev.	Date	Dwg	Description

TENNIS & PICKLEBALL COURT 1200-C ESCP

1201 NW STEWART PKWY
ROSEBURG, OR 97471

GRADING & DRAINAGE PLAN

SCALE: AS SHOWN
FEBRUARY 13, 2025
ISSUE: FOR PERMIT

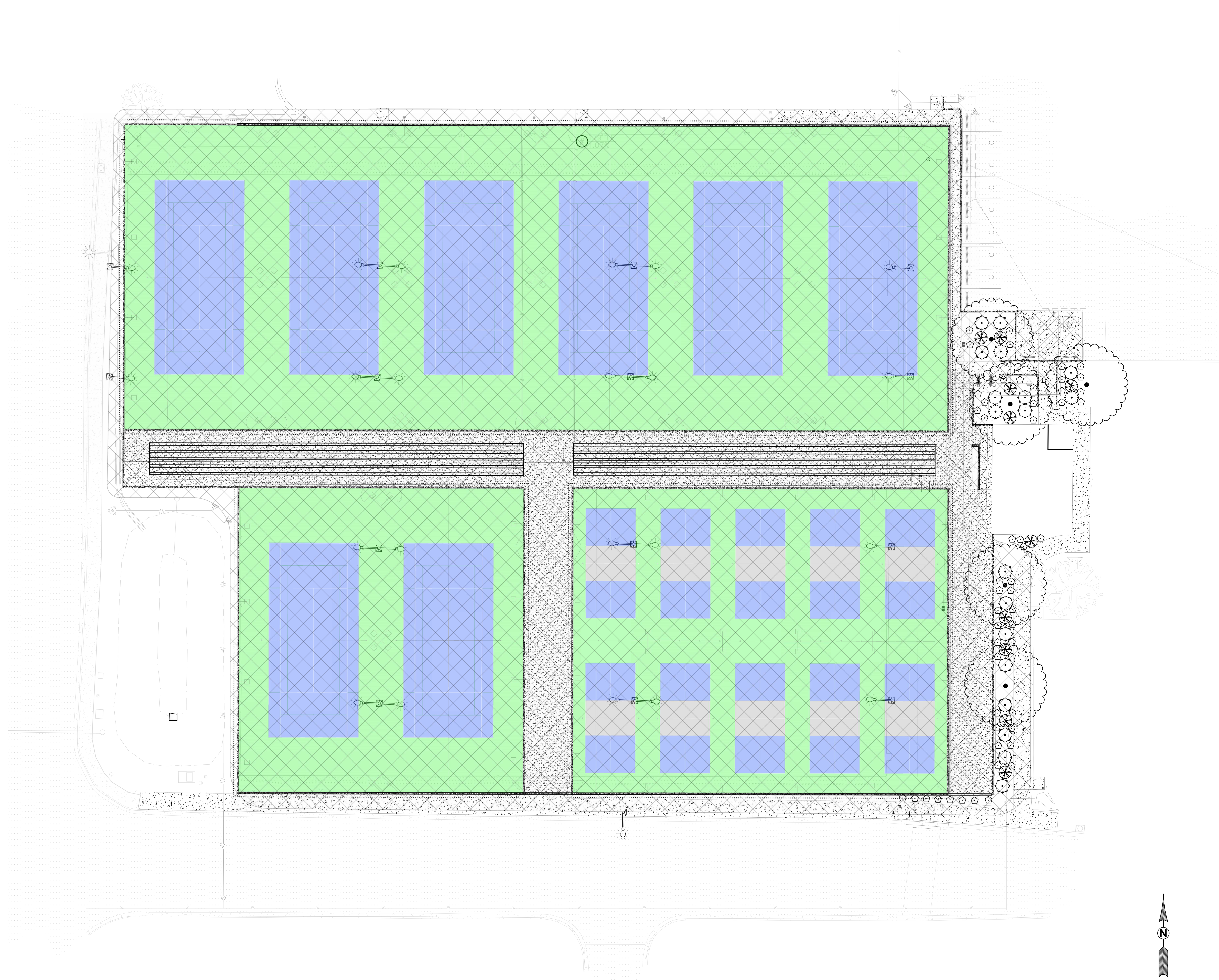
PROJECT NO. 0149-226
DRW: KLW
CHK: NRJ

EC4

DaveM Feb 12, 2025 Z:\JOBS\0149-City of Roseburg\149-226 Stewart Park Tennis & Pickleball Courts\DESIGN\CADD\0149-226 1200-C.dwg

LEGEND

HARDSCAPE / LANDSCAPE SURFACING



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0' 10' 20' 40'
SCALE: 1"=20'

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OREGON
JANUARY 14, 2020
NICHOLAS R. JONES
Digitally signed by Nicholas R Jones
Date: 2025.02.13 13:50:52-08'00'

EXPIRES: 06-30-2025

Rev.	Date	Dwg	Description

TENNIS & PICKLEBALL COURT 1200-C ESCP

1201 NW STEWART PKWY
ROSEBURG, OR 97471

HARDSCAPE PLAN

SCALE: AS SHOWN
FEBRUARY 13, 2025
ISSUE: FOR PERMIT

PROJECT NO. 0149-226
DRW: KLW
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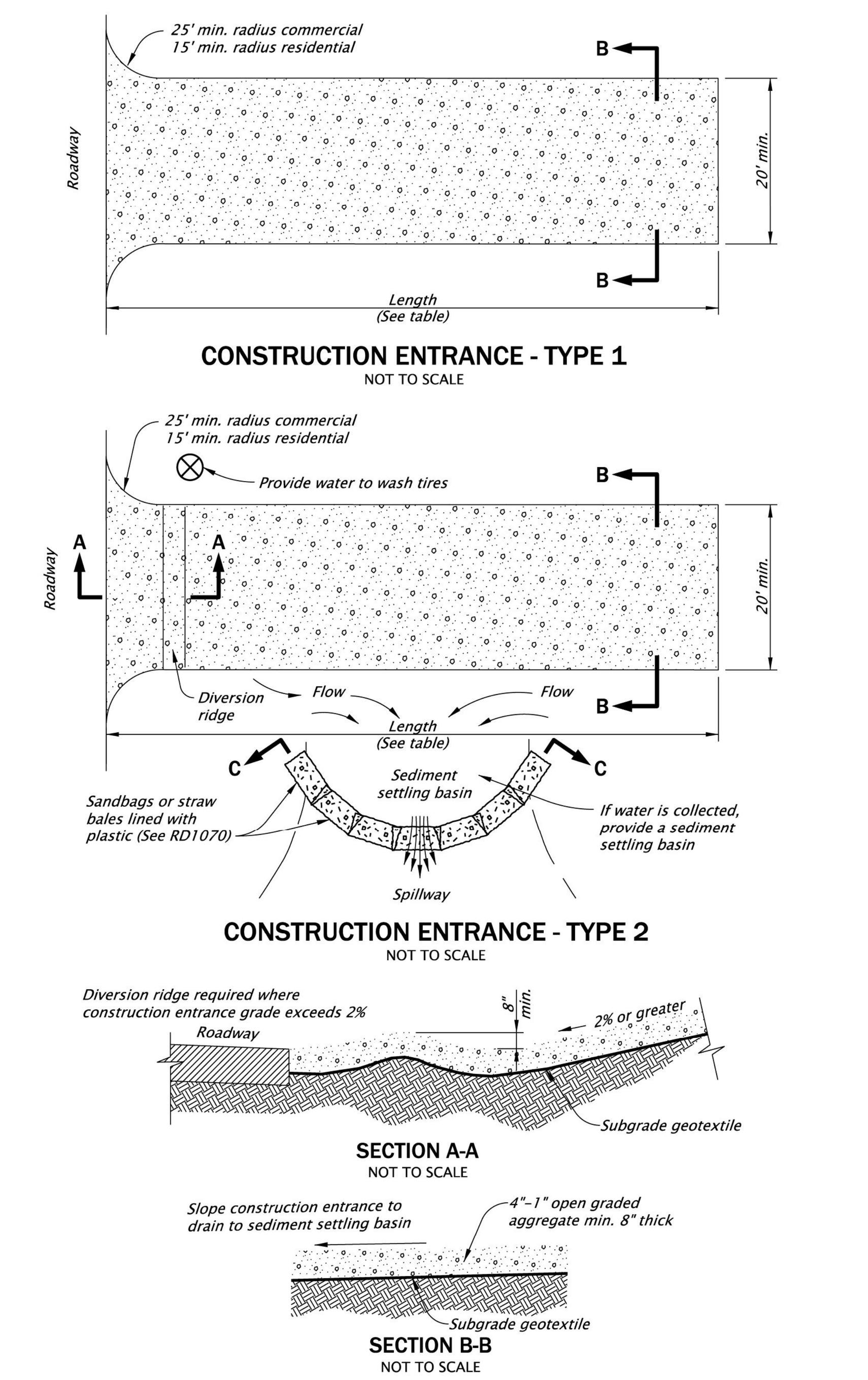
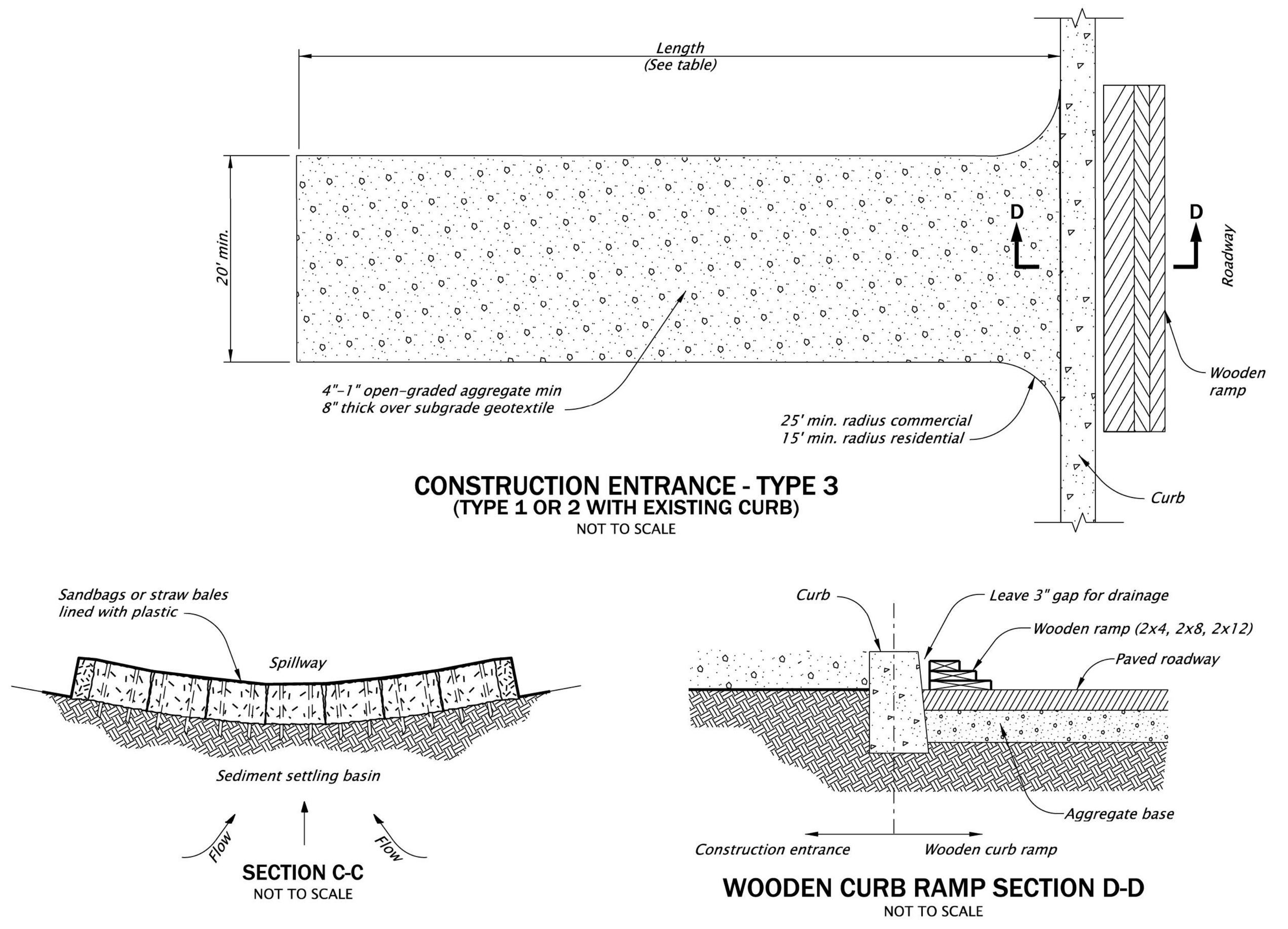




NOTES:
1. The Type 1 entrance is a simple entrance without a diversion ridge or settling basin.
2. The wooden ramp may be used on either Type 1 or Type 2 entrances in situations where there is curb and the curb is not removed for the construction entrance.

CONSTRUCTION ENTRANCE TABLE MINIMUM LENGTH

Length (FT)	Area Of Exposed Soil (Acre)
20	0.25
50	0.25 < A < 1.0
100	A > 1.0

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.

All materials shall be in accordance with the current Oregon Standard Specifications.

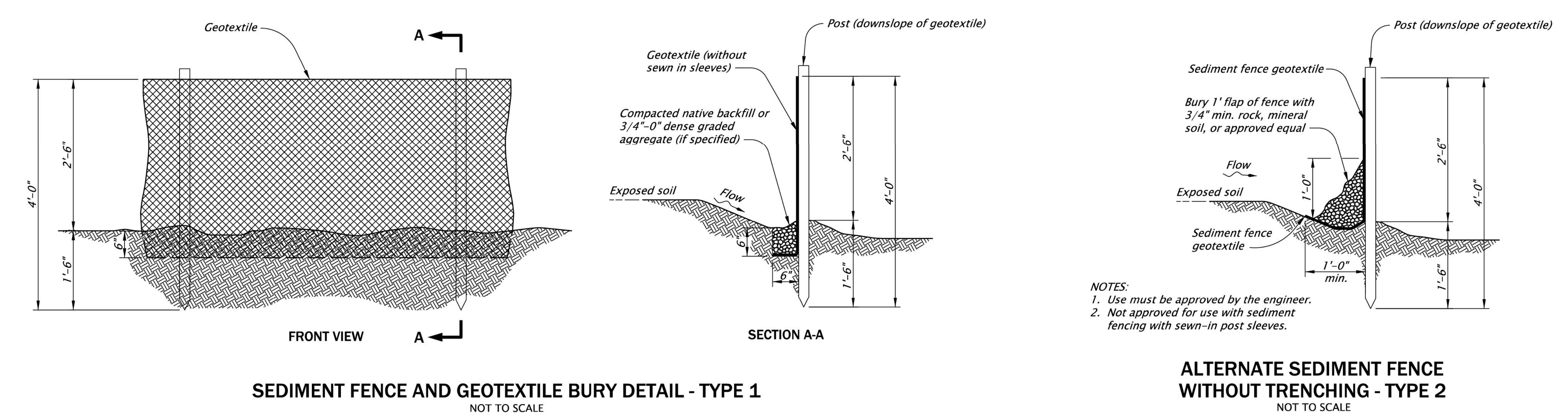
OREGON STANDARD DRAWINGS

CONSTRUCTION ENTRANCES 1 EC6

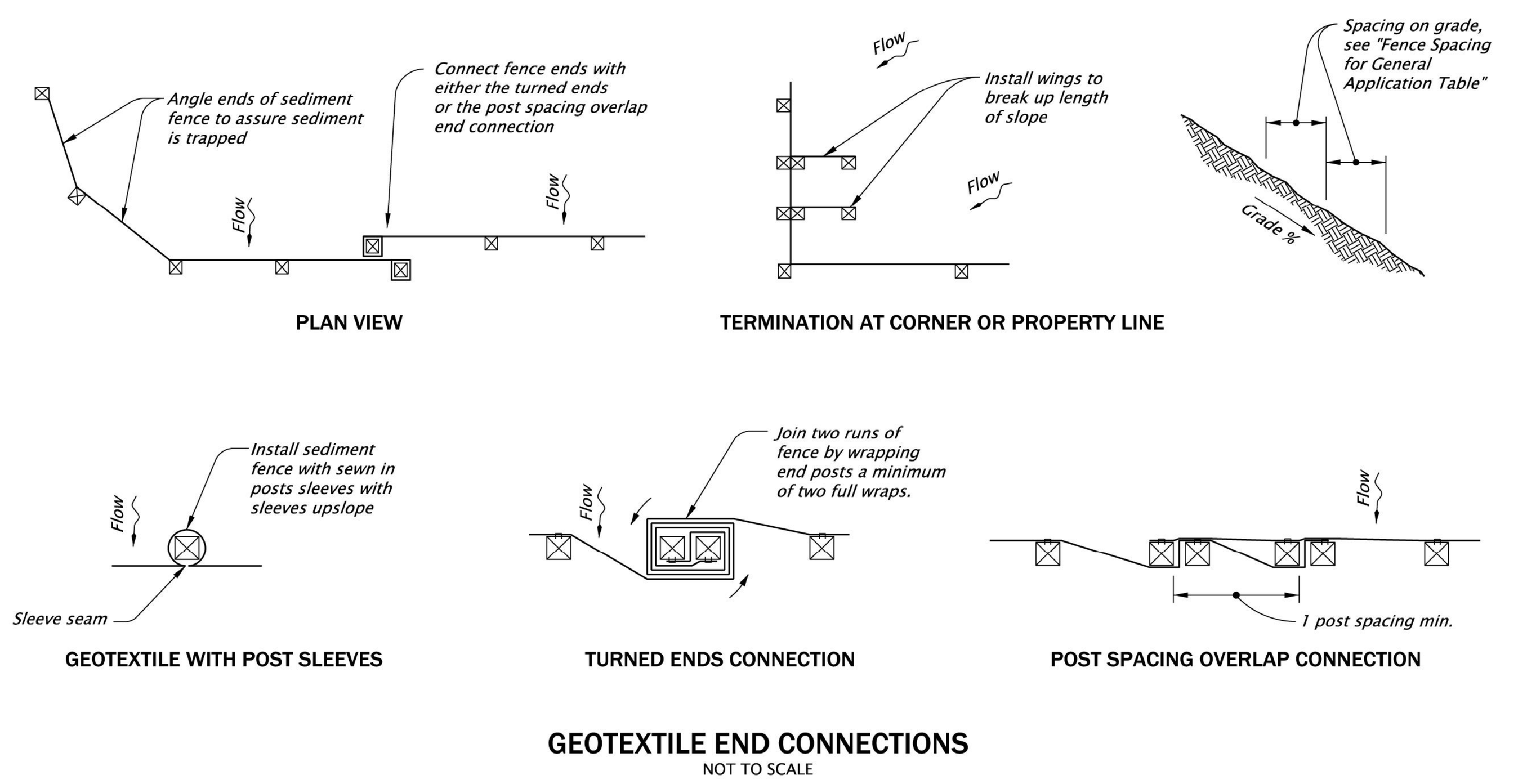
2024

CALC. BOOK NO. N/A SDR DATE 20-JAN-2021 **RD1000**

Effective Date: December 1, 2024 - May 31, 2025



NOTES:
1. Use must be approved by the engineer.
2. Not approved for use with sediment fencing with sewn-in post sleeves.



GENERAL NOTES:
1. Use 2"x2" wood fence posts.
2. Posts to be installed on downhill side of sediment fence geotextile. Position posts to prevent separation from geotextile.
3. Compact filter fabric trench backfill and soil on uphill side of fence.
4. Locate fence no closer than three feet to the toe of a slope.
5. Wing spacing shall comply with "Fence Spacing for General Application Table".

FENCE SPACING FOR GENERAL APPLICATION TABLE

INSTALL PARALLEL ALONG CONTOURS AS FOLLOWS

GRADE	MAXIMUM SPACING ON GRADE
Grade < 10%	300'
10% ≤ Grade < 15%	150'
15% ≤ Grade < 20%	100'
20% ≤ Grade < 30%	50'
30% ≤ Grade	25'

POST SPACING TABLE

6'	Sediment Fence with Geotextile elongation less than 50%
4'	Sediment Fence with Geotextile elongation 50% or more

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.

All materials shall be in accordance with the current Oregon Standard Specifications.

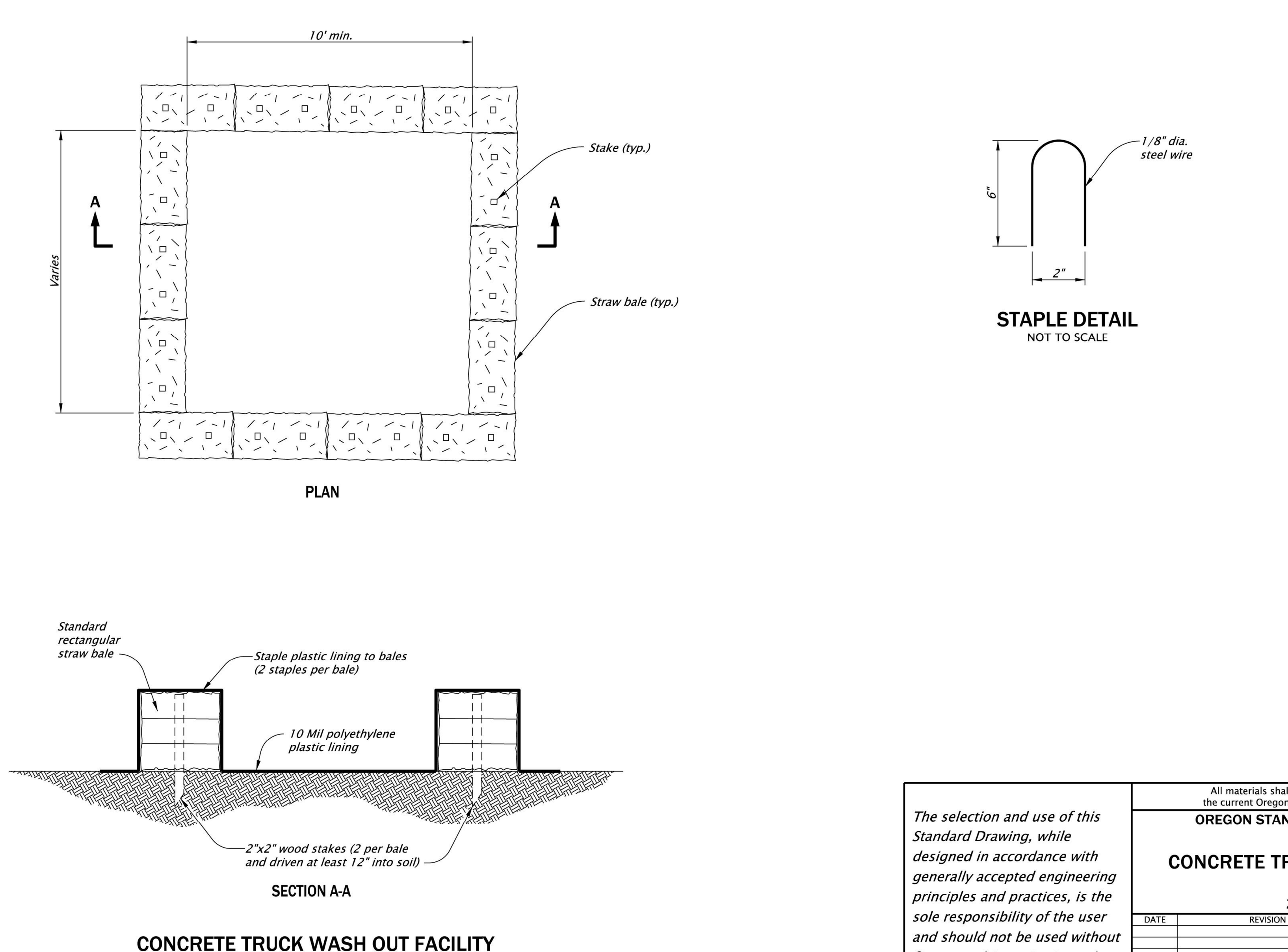
OREGON STANDARD DRAWINGS

SEDIMENT FENCE 2 EC6

2024

CALC. BOOK NO. N/A SDR DATE 20-JAN-2021 **RD1040**

Effective Date: December 1, 2024 - May 31, 2025



The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.

All materials shall be in accordance with the current Oregon Standard Specifications.

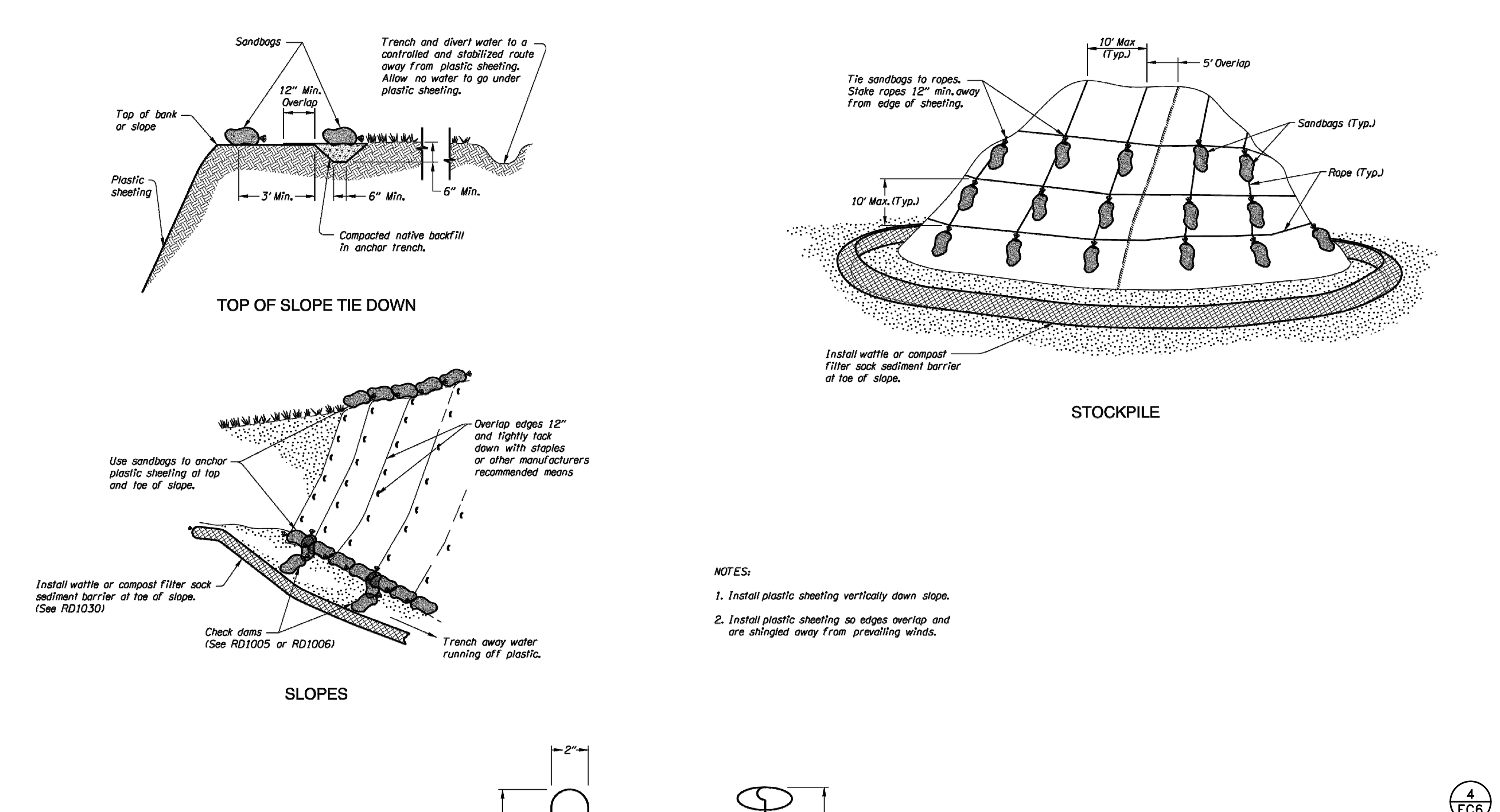
OREGON STANDARD DRAWINGS

CONCRETE TRUCK WASH OUT 3 EC6

2024

CALC. BOOK NO. N/A SDR DATE 20-JAN-2021 **RD1070**

Effective Date: December 1, 2024 - May 31, 2025



NOTES:
1. Install plastic sheeting vertically down slope.
2. Install plastic sheeting so edges overlap and are shingled away from prevailing winds.

4 EC6

The selection and use of this detail, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

OREGON DEPARTMENT OF TRANSPORTATION TECHNICAL SERVICES DETAILS

PLASTIC SHEETING — DETAIL NO. DET6001

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EXPIRES: 06-30-2025

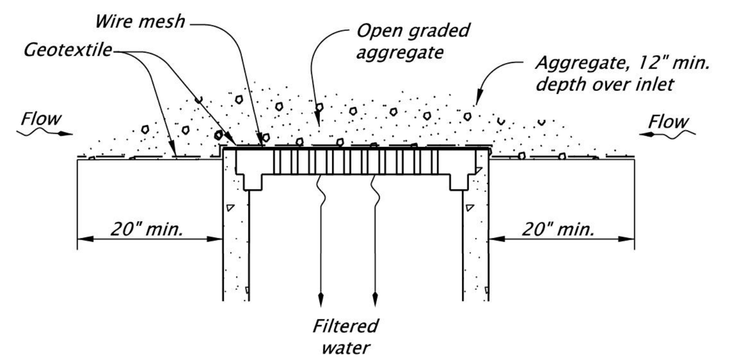
Rev.	Date	Dwg	Description

TENNIS & PICKLEBALL COURT 1200-C ESCP

1201 NW STEWART PKWY
ROSEBURG, OR 97471
EROSION CONTROL DETAILS
SCALE: NTS
FEBRUARY 13, 2025
ISSUE: FOR PERMIT
PROJECT NO. 0149-226
DRW: KLW
CHK: NRJ

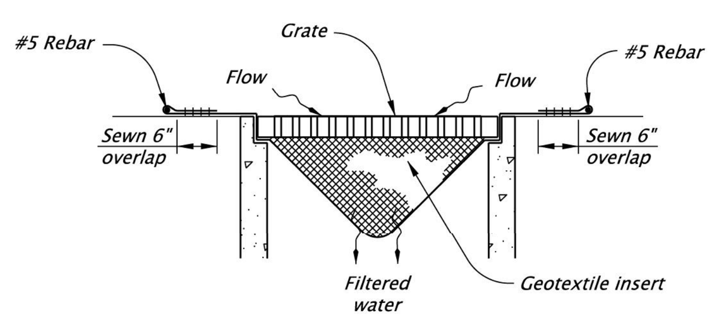
EC6

DaveM Feb 12, 2025 Z:\JOBS\0149-City of Roseburg\149-226 Stewart Park Tennis & Pickleball Courts\DESIGN\CADD\0149-226 1200-C.dwg



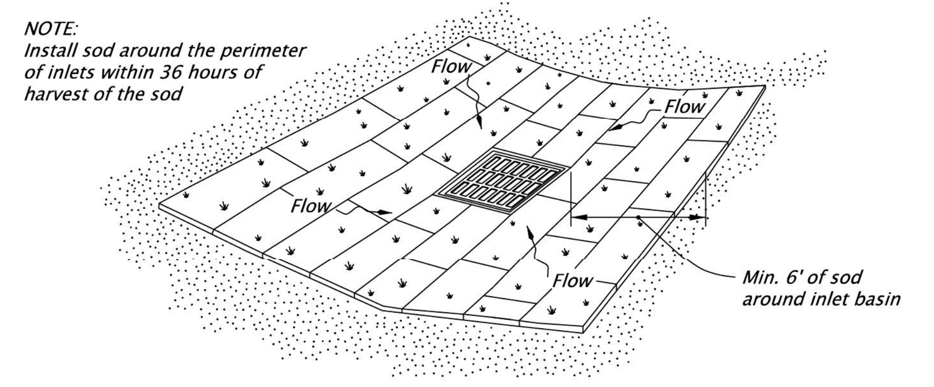
GEOTEXTILE/WIRE MESH/AGGREGATE - TYPE 2

NOT TO SCALE



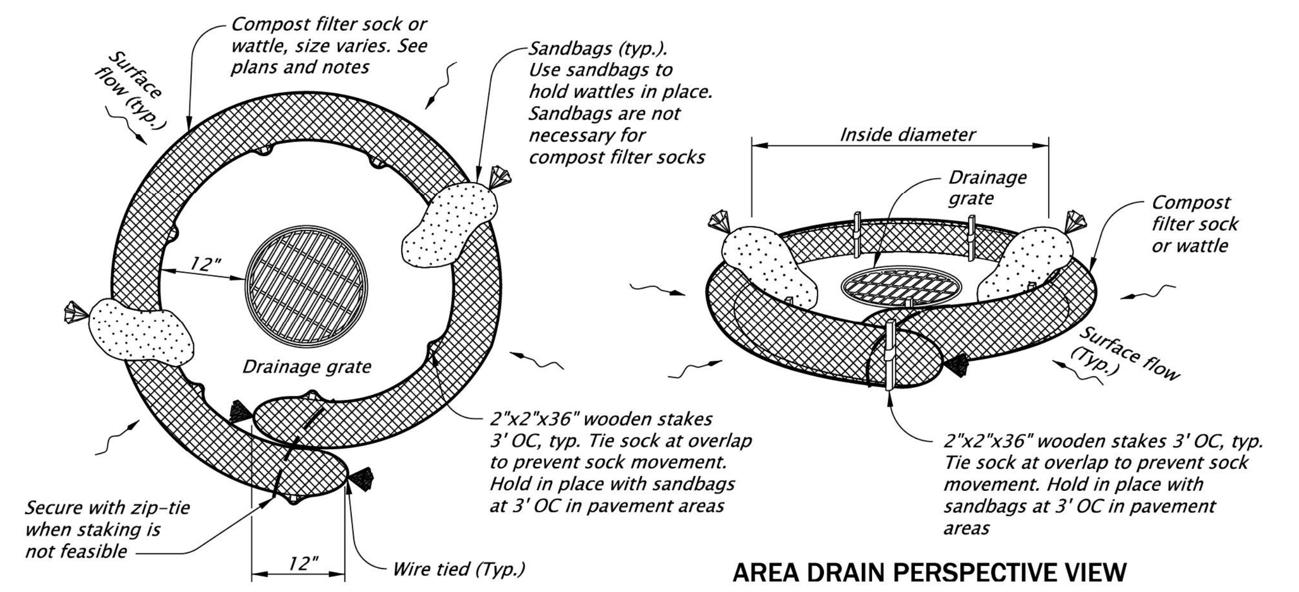
PREFABRICATED FILTER INSERT - TYPE 3

NOT TO SCALE



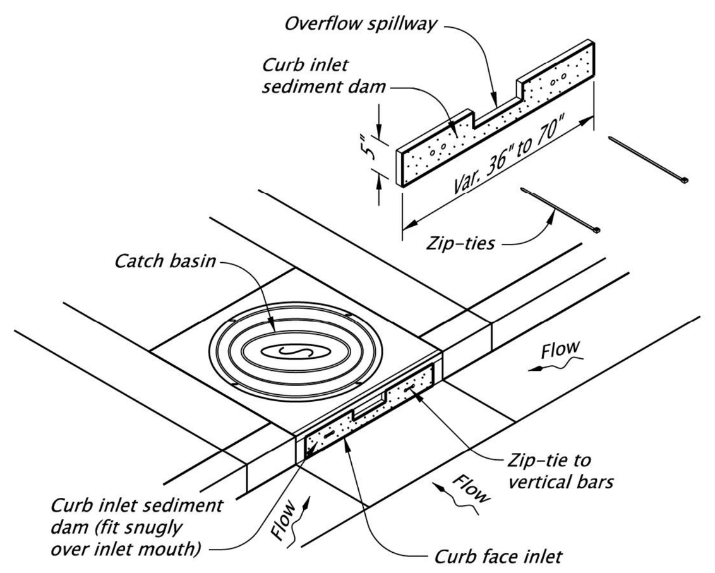
SOD PROTECTION - TYPE 6

NOT TO SCALE



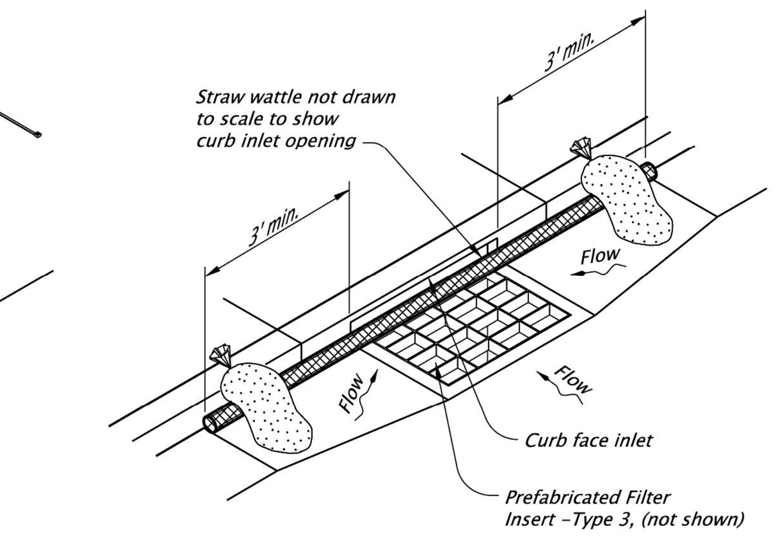
AREA DRAIN PLAN

AREA DRAIN PERSPECTIVE VIEW



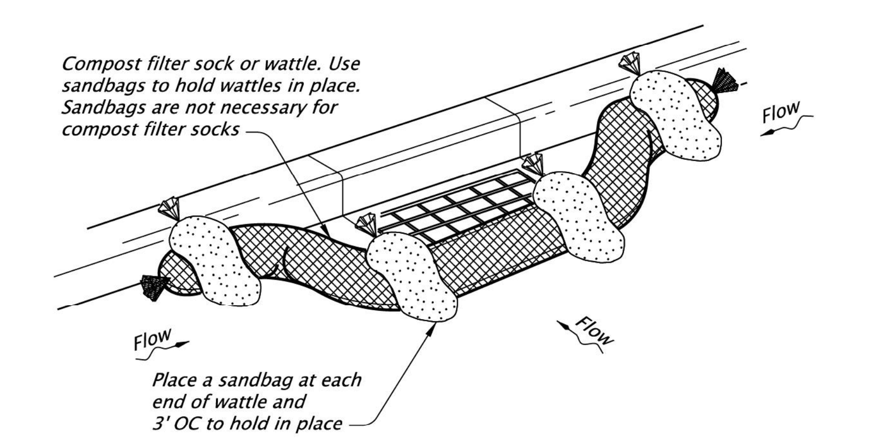
CURB INLET SEDIMENT DAM - TYPE 10

NOT TO SCALE



WATTLE BARRIER WITH FILTER INSERT - TYPE 11

NOT TO SCALE



CURB INLET PERSPECTIVE VIEW

COMPOST FILTER SOCK OR WATTLE - TYPE 7

NOT TO SCALE

NOTES:
Type 2 - Geotextile/wire mesh/aggregate
Place the wire mesh over the grate.
Place sediment fence geotextile over the wire mesh and perimeter area around structure.
Install aggregate over the geotextile fabric.

Type 3 - Prefabricated filter inserts
Install prefabricated filter inserts according to the plans, special provisions, and manufacturer recommendations.
Prefabricated inserts with provisions for overflow are allowed only when accompanied by additional BMP's to prevent the potential of sediments entering project storm systems.
Field fabricated inserts are not allowed.

Type 7 - Compost filter sock
Drive 2"x2" wood stakes a minimum of 6" into ground and flush with the top of the sock.
Overlap ends of sock per manufacturers recommendations (12"min., 36" max.).
Use 8" to 12" dia sock on curbside in traffic areas.

(Type 7 cont.)
Use 12" to 18" dia sock in non-traffic areas or areas where the larger socks can be used safely.
use synthetic mesh socks for temporary installations.

Type 10 - Curb inlet sediment dam
Fit curb inlet sediment dam snugly into inlet mouth. Curb inlet sediment dam is required for use with inlet filter insert where at-grade inlet grate and curb inlet are combined at a catch basin.

Type 11 - Wattle barrier with filter insert
Install prefabricated filter insert per Type 3 detail.
Install wattles over opening and 36" to each side of opening tight against curb. Adjust wattle to force storm water to flow through filter insert or wattle prior to leaving the site.
Adjust, replace or modify the inlet protection as needed to prevent sediment laden water from entering the catch basin.

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.

All materials shall be in accordance with the current Oregon Standard Specifications.

OREGON STANDARD DRAWINGS

INLET PROTECTION
TYPE 2, 3, 6, 7, 10 AND 11

2024

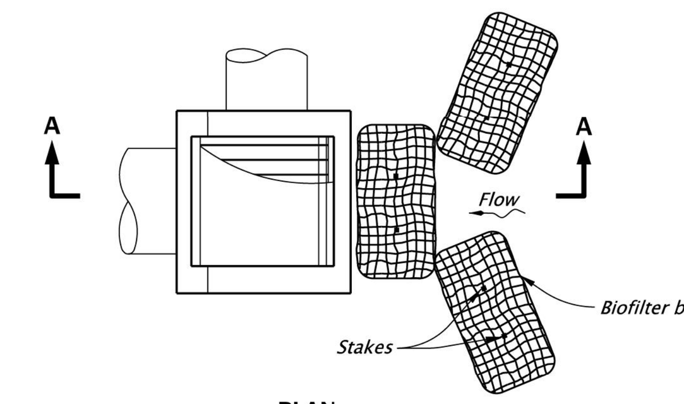
1 / EC7

DATE	REVISION DESCRIPTION
01-2021	REMOVED CALC BOOK NUMBERS
01-2021	MOVED NOTES UP FROM OVERLAPPING THE SHEET BORDER

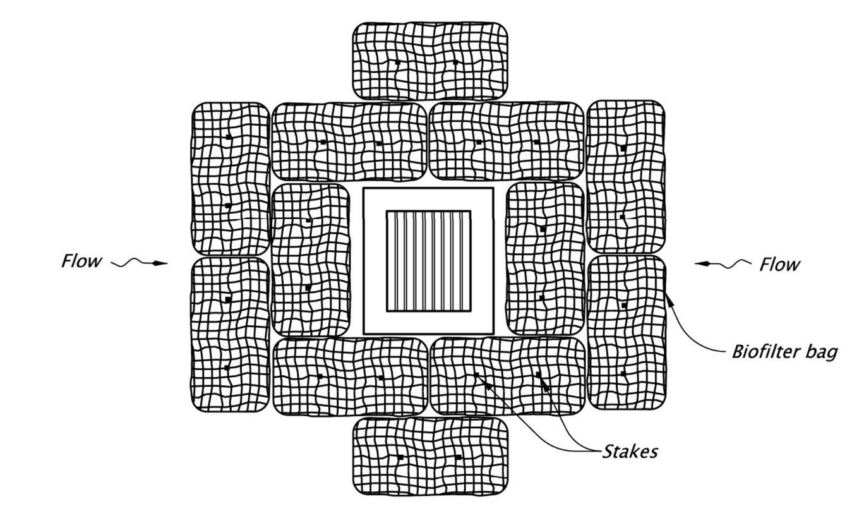
CALC. BOOK NO. N/A | SDR DATE 20-JAN-2021 | **RD1010**

RD1010.dgn 20-JAN-2021

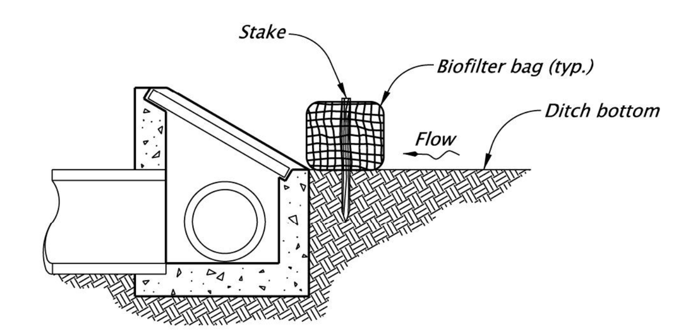
Effective Date: December 1, 2024 - May 31, 2025



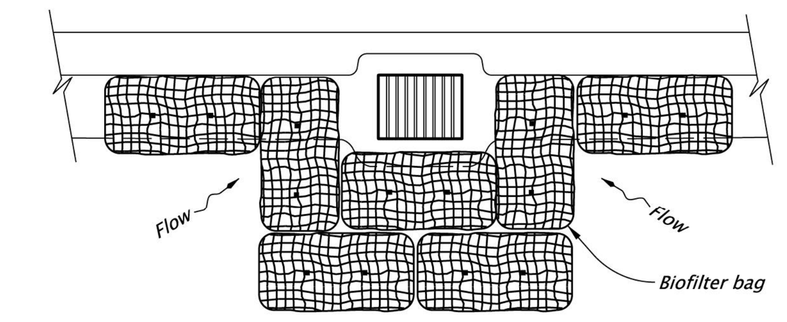
PLAN
DITCH INLET



PLAN
AREA DRAIN



SECTION A-A
DITCH INLET



PLAN
CATCH BASIN

BIOFILTER BAGS - TYPE 4

NOT TO SCALE

NOTES:
1. Stake biofilter bags with 2"x2"x36" wood stakes, and use a minimum 2 stakes per bag. Drive stakes a minimum of 6" into the ground and flush with the top of the bags.
2. Omit stakes when bags are placed on pavement surface.
3. Overlap all bag joints 6".
4. Biofilter bags used on active roadways are easily displaced and made ineffective if struck by vehicles. If struck by a cyclist, falls with injury could result. On active roadways alternative inlet protection should be considered.

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All materials shall be in accordance with the current Oregon Standard Specifications.

OREGON STANDARD DRAWINGS

INLET PROTECTION
TYPE 4

2024

2 / EC7

DATE	REVISION DESCRIPTION
01-2021	REMOVED CALC BOOK NUMBERS

CALC. BOOK NO. N/A | SDR DATE 20-JAN-2021 | **RD1015**

RD1015.dgn 20-JAN-2021

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Rev.	Date	Dwg	Description

TENNIS & PICKLEBALL COURT 1200-C ESCP

1201 NW STEWART PKWY
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EROSION CONTROL DETAILS

SCALE: NTS
FEBRUARY 13, 2025
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PROJECT NO. 0149-226
DRN: KLW
CHK: NRJ

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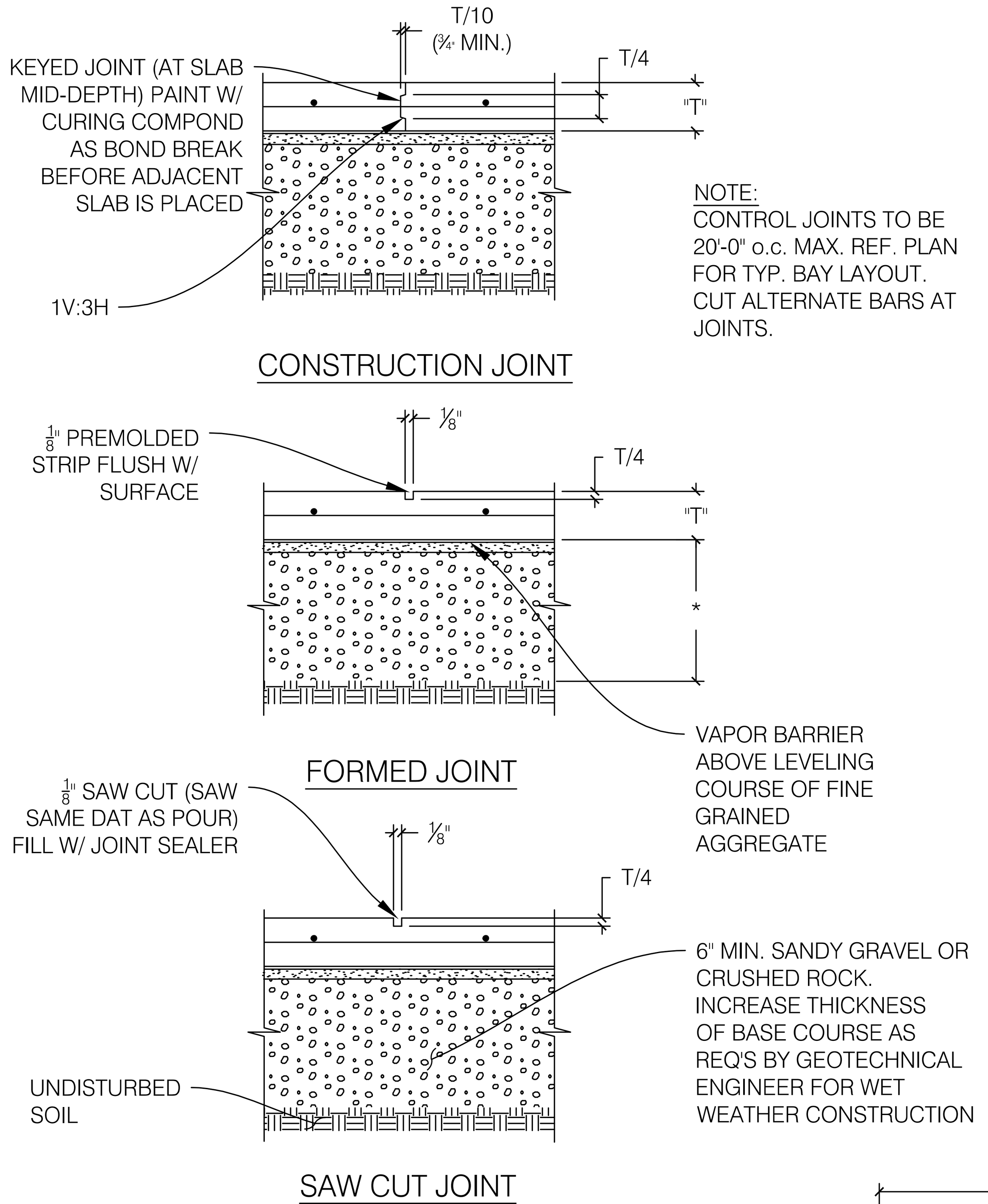
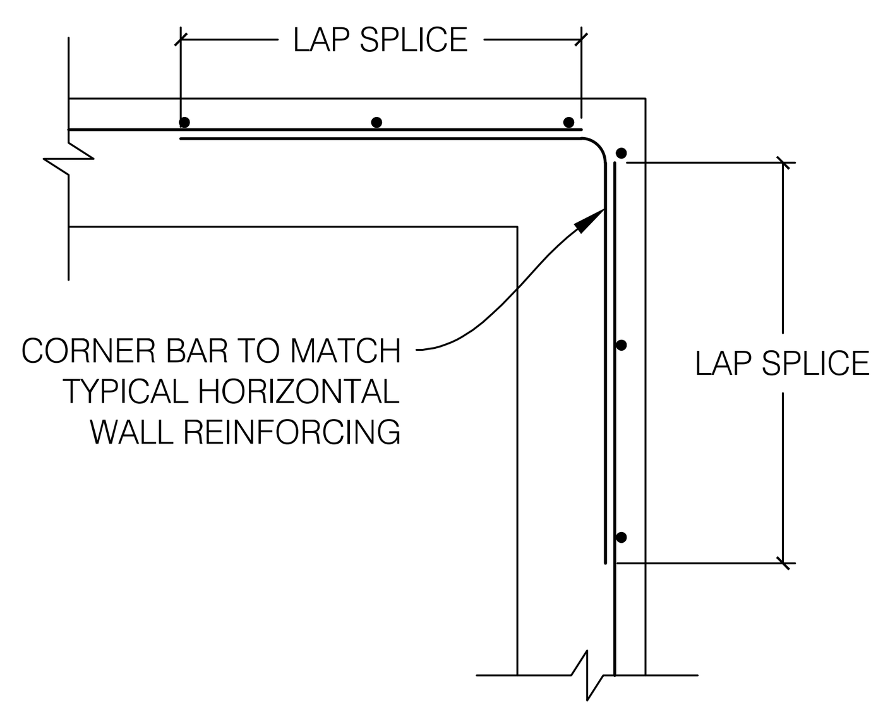
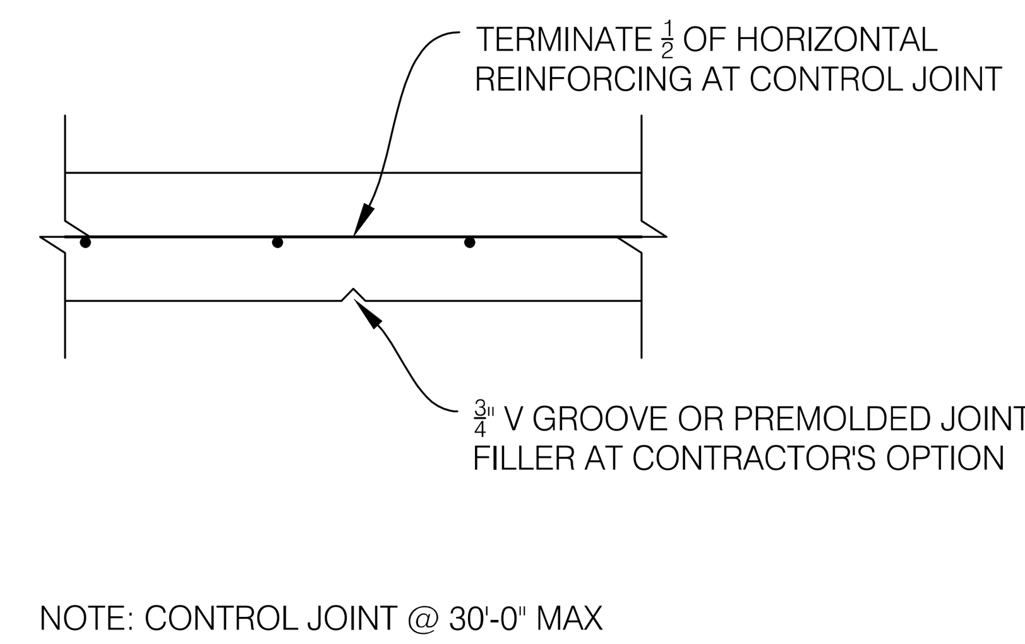


4 TYP. SLAB ON GRADE DETAIL
SCALE: 1" = 1'-0"

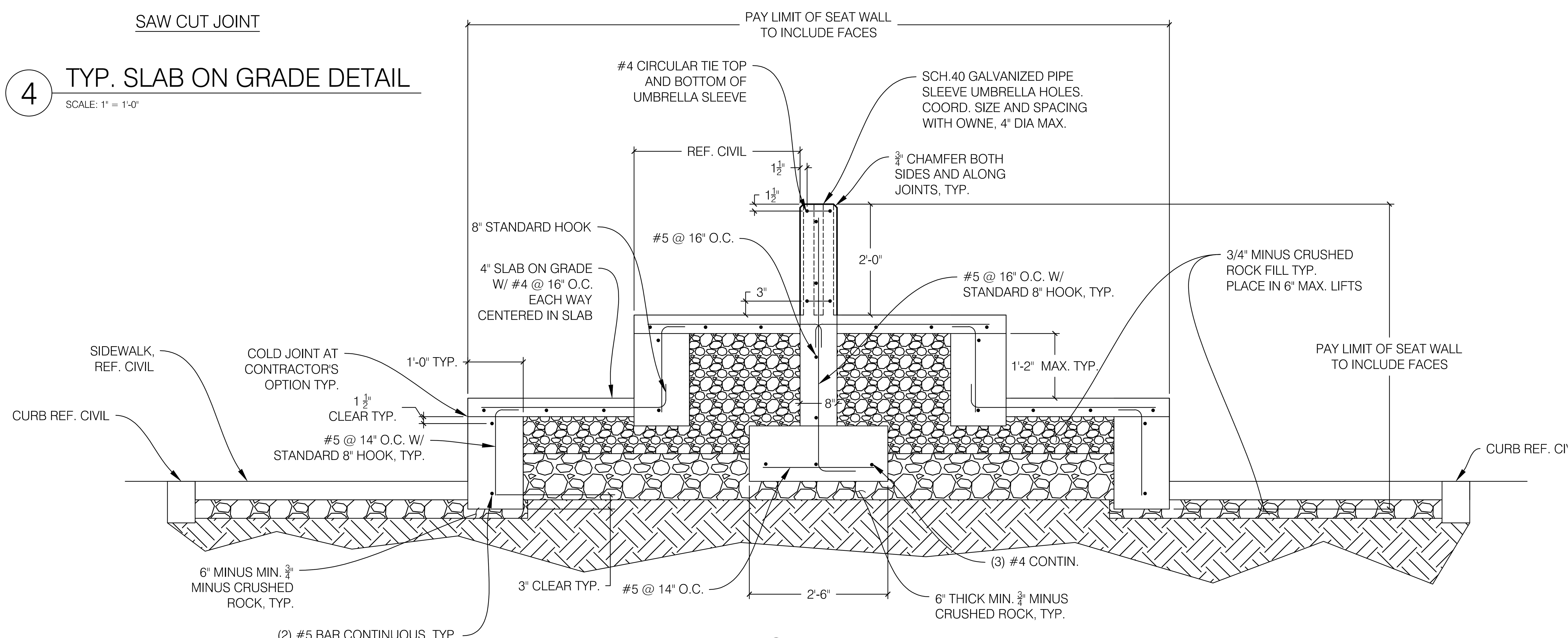


3 WALL CORNER
SCALE: 1" = 1'-0"



NOTE: CONTROL JOINT @ 30'-0" MAX

1 VERTICAL CONTROL JOINT
SCALE: 1" = 1'-0"



2 SEAT WALL DETAIL
SCALE: 3/4" = 1'-0"

RETAINING WALL NOTES

TEMPORARY CONDITIONS:
THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES. THE CONTRACTOR IS SOLELY RESPONSIBILE FOR THE DESIGN, INSTALLATION, AND REMOVAL OF TEMPORARY BRACING AND CONSTRUCTION SUPPORTS, FOR NEW AND EXISTING STRUCTURES, AS NECESSARY TO COMPLETE THE PROJECT. NO PORTION OF THE PROJECT WHILE UNDER CONSTRUCTION IS INTENDED TO BE STABLE IN THE ABSENCE OF THE CONTRACTOR'S TEMPORARY SUPPORTS AND BRACES. CONTRACTOR SHALL RETAIN A STRUCTURAL ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED TO DESIGN TEMPORARY BRACING AND CONSTRUCTION SUPPORTS.

DESIGN CRITERIA:
CONFORM TO THE 2022 OREGON STRUCTURAL SPECIALTY CODE (OSSC), BASED ON THE 2021 INTERNATIONAL BUILDING CODE (IBC). THE FOLLOWING LOADS AND ALLOWABLES WERE USED FOR DESIGN.

GEOTECHNICAL CRITERIA:	
BASED ON REPORT BY:	IBC PRESUMPTIVE
ALLOWABLE SOIL PRESSURE	1500 PSF
COEFFICIENT OF FRICTION	.25
EQUIVALENT FLUID PRESSURE	45 PCF

CONCRETE:
CONCRETE WORK SHALL CONFORM TO CHAPTER 19 OF THE OSSC. CONCRETE STRENGTH SHALL BE VERIFIED BY STANDARD 28 DAY CYLINDER TESTS PER ASTM C39. CONCRETE SHALL HAVE COMPRESSIVE STRENGTH OF 4000 PSI, AND SHALL HAVE A MINIMUM CEMENT CONTENT OF 550 LB PER CUBIC YARD, AND A MAXIMUM WATER CEMENT RATIO OF .50.

AGGREGATE SHALL BE ⅜" PEA GRAVEL. FLYASH CONFORMING TO ASTM C618 (INCLUDING TABLE 2A) TYPE F OR TYPE C, MAY BE USED TO REPLACE UP TO 20% OF THE CEMENT CONTENT, PROVIDED THAT THE MIX STRENGTH IS SUBSTANTIATED BY TEST DATA. FLYASH SHALL NOT EXCEED 15% AT POLISHED SLABS.

THE CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS, ALONG WITH TEST DATA COMPLIANT WITH OSSC SECTION 1905, A MINIMUM OF ONE WEEKS PRIOR TO PLACING CONCRETE. NO WATER MAY BE ADDED TO CONCRETE IN THE FIELD UNLESS SPECIFICALLY APPROVED IN WRITING BY THE CONCRETE SUPPLIER IN CONJUNCTION WITH THE CONCRETE MIX DESIGN.

A WATER-REDUCING ADMIXTURE CONFORMING TO ASTM C494, USED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, SHALL BE INCORPORATED IN CONCRETE DESIGN MIXES. A HIGH-RANGE WATER-REDUCING (HRWR) ADMIXTURE CONFORMING TO ASTM C494, TYPE F OR G, MAY BE USED IN CONCRETE MIXES PROVIDING THAT THE SLUMP DOES NOT EXCEED 10".

SLEEVES, OPENINGS, CONDUIT, AND OTHER EMBEDDED ITEMS NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER BEFORE POURING. CONDUITS EMBEDDED IN WALLS SHALL NOT BE LARGER IN OUTSIDE DIMENSION THAN ONE THIRD OF THE THICKNESS OF THE SLAB AND SHALL NOT BE SPACED CLOSER THAN THREE DIAMETERS ON CENTER.

WHERE NEW CONCRETE IS PLACED AGAINST EXISTING CONCRETE, THE EXISTING CONCRETE SURFACE SHALL BE CLEANED AND ROUGHENED TO A MINIMUM 1/4" AMPLITUDE. PROVIDE 3/4" CHAMFERS ON ALL EXPOSED CONCRETE EDGES, UNLESS NOTED OTHERWISE.

COLD WEATHER CONCRETE SHALL BE IN ACCORDANCE WTH ACI306R-16.

REINFORCING STEEL:
REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, FOR DEFORMED BARS AND ASTM A185 FOR SMOOTH WELDED WIRE FABRIC (WWF), UNLESS OTHERWISE NOTED. REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM A706. COLUMN SPIRALS SHALL BE PLAIN OR DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60. REINFORCING STEEL SHALL BE SECURELY TIED IN PLACE WITH #16 ANNEALED IRON WIRE.

AT WALL CORNERS, A CORNER BAR BENT TO MATCH THE ANGLE OF THE CORNER SHALL BE PROVIDED. CORNER BAR SHALL BE LAP SPLICED TO "b" BARS PER LAP SPLICE SCHEDULE. AT FOOTING CORNERS, "d" BARS SHALL BE EXTENDED TO FARSIDE OF THE ADJACENT FOOTING RETURN.

BARS IN FOOTINGS SHALL BE SUPPORTED ON WELL-CURED CONCRETE BLOCKS OR APPROVED METAL CHAIRS, AS SPECIFIED BY THE CRSI MANUAL OF STANDARD PRACTICE, MSP-1. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE "ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES," ACI 315. LAP ALL REINFORCING BARS PER THE TYPICAL LAP SPLICE LENGTH SCHEDULE, EXCEPT AS NOTED. USE LAP LENGTH FOR SMALLER BAR WHEN SPLICING DIFFERENT BAR SIZES. MECHANICAL SPLICES NOTED ON THE PLANS SHALL BE DAYTON BAR-GRIP SPLICES OR APPROVED WITH A CURRENT ICC APPROVAL REPORT.

TYPICAL LAP SLICE LENGTH SCHEDULE (IN.)		
BAR SIZE	4000 P.S.I.	
	CASE 1	CASE 2
#3	19	28
#4	25	37
#5	31	46
#6	37	56

NOTES:
1) CASE 1 APPLIES TO BAR WITH CLEAR COVER $< 1\frac{1}{2}$". CASE 2 APPLIES TO BAR WITH CLEAR COVER $\geq 1\frac{1}{2}$".
2) FOR CENTER-TO-CENTER SPACING LESS THAN 4db MULTIPLY LAP LENGTHS ABOVE BY 1.3.
3) FOR TOP BARS, CAST ABOVE 12" OF CONCRETE MULTIPLY LAP LENGTHS ABOVE BY 1.3.

FORMWORK REMOVAL AND BACKFILL:
FORMWORK MAY BE REMOVED 24 HRS AFTER WALL PLACEMENT FOR MODERATE TEMPERATURES (50 DEGREES FAHRENHEIT OR GREATER) WITHIN 24 HOUR OF PLACEMENT, OR AT 48 HRS FOR COLD WEATHER CONCRETING.

BACKFILL MAY BE PLACED AT 7 DAYS AFTER CONCRETE PLACEMENT. ALTERNATIVELY, THE CONTRACTOR MAY BACKFILL EARLIER, PROVIDED (3) CONCRETE CYLINDERS PER 100 LINEAR FEET OF WALL ARE TAKEN, AND BREAK RECORDS FROM THESE CYLINDERS INDICATE THE AVERAGE STRENGTH TO BE EQUAL TO OR GREATER THAN 70 PERCENT OF THE SPECIFIED CONCRETE STRENGTH.

COMPACTION WITHIN A DISTANCE EQUAL TO THE HEIGHT OF THE WALL SHALL BE PERFORMED USING SMALL VIBRATING PLATE COMPACTOR. BACKFILL SHALL BE PLACED IN 8" LIFTS. REF. GEOTECH FOR ADDITIONAL COMPACTION REQUIREMENTS.

DocuSigned by: Robert Van Dyke

STRUCTURAL REGISTERED PROFESSIONAL ENGINEER 73626 OREGON DECEMBER 21, 2012 ROBERT W. VAN DYKE
DIGITAL SIGNATURE
EXPIRES: 6/30/2026

i.e. Structural
i.e. STRUCTURAL, L.L.C.
6975 SW Sandburg St # 160
Tigard, Oregon 97223
(971) 371-1958
vandyke@ieengineering.com
iemail@ieengineering.com

STEWART PARK TENNIS & PICKLEBALL COURTS
RETAINING WALL
1201 NW STEWART PKWY
ROSEBURG, OR 97471

GENERAL STRUCTURAL NOTES/ DETAILS

REV.	DATE	DESCRIPTION

PROJECT NO. S116-53
DATE: 1/21/25
DRAWN: DAS
SHEET:
S5.1