

## STORM SEWER NOTES

206 180 LF CONSTRUCT 4' TALL RETAINING WALL PER DETAIL 'W' ON SHEET DTO1 AND NAU DGTS 32 32 00.

501 26 LF INSTALL 4" ADS HDPE (N- 12) DUAL WALL STORM PIPE OR APPROVED EQUAL PER M.A.G. SPEC. SECTION 738. TRENCH, EXCAVATION, BACKFILLING, AND COMPACTION PER M.A.G. SPEC. SECTION 603 AND PER TRENCHING DETAIL ON SHEET DT03. CONTRACTOR TO SLOPE 2% AWAY FROM STORM DRAIN MAIN. COORDINATE WITH

PLUMBING PLANS FOR CONNECTION TO DOWNSPOUTS. 42 LF INSTALL 8" ADS HDPE (N- 12) DUAL WALL STORM PIPE OR APPROVED EQUAL PER M.A.G. SPEC. SECTION 738. TRENCH, EXCAVATION, BACKFILLING, AND COMPACTION PER M.A.G. SPEC. SECTION 603 AND PER TRENCHING DETAIL ON SHEET DT03.

INSTALL 10" ADS HDPE (N- 12) DUAL WALL STORM PIPE OR APPROVED EQUAL PER M.A.G. SPEC. SECTION 738. TRENCH, EXCAVATION, BACKFILLING, AND COMPACTION PER M.A.G. SPEC. SECTION 603 AND PER

510 223 LF INSTALL 36" ADS HDPE (N- 12) DUAL WALL STORM PIPE OR APPROVED EQUAL PER M.A.G. SPEC. SECTION 738. TRENCH, EXCAVATION, BACKFILLING, AND COMPACTION PER M.A.G. SPEC. SECTION 603 AND PER TRENCHING DETAIL ON SHEET DT03.

PIPE OR APPROVED EQUAL PER M.A.G. SPEC. SECTION 738. TRENCH, EXCAVATION, BACKFILLING, AND COMPACTION PER M.A.G. SPEC. SECTION 603 AND PER TRENCHING ON SHEET DT03. 512 47 LF INSTALL 24" CMP PER M.A.G. SPEC. SECTION 738.

PER M.A.G. SPEC. SECTION 603 AND PER TRENCHING ON SHEET DT03. 524 2 EA INSTALL 18" NYLOPLAST DRAIN BASIN WITH SOLID COVER (OR APPROVED EQUAL) PER DETAIL 'H' ON

530 1 EA INSTALL 60" DIA. STORM DRAIN MANHOLE PER M.A.G. STD. DTL. 521 AND MANHOLE SHAFT PER

M.A.G. STD. DTL. 522. 2 EA INSTALL 42" ADS FLARED END SECTION OR APPROVED 532 1 EA INSTALL 36" ADS FLARED END SECTION OR APPROVED

533 1 EA INSTALL 24" CMP FLARED END SECTION. 1 EA CONSTRUCT POND OUTLET STRUCTURE PER DETAIL 'H'

ON SHEET DTO1.

535 1 EA CONSTRUCT TYPE "F" CATCH BASIN PER MAG STD DTI

M.A.G. STD. DTL. 501. 538 125 SF INSTALL D50=6" RIPRAP EROSION PROTECTION PLACED MIN. 12" THICK OVER MIRAFI 140N FILTER RABRIC PER RIPRAP INSTALLATION DETAIL "R" ON SHEET DTO1. 540 1 EA INSTALL 10" X36" X36" INSERTA TEE PER

545 1425 SF INSTALL EXTENDED DETENTION BASIN SECTION PER DETAIL 'G' ON SHEET DT01. 1 EA INSTALL 10"X10" x10" INSERTA TEE PER MANUFACTURER'S SPECIFICATIONS.

> 79 SF INSTALL CONCRETE DROP STRUCTURE PER M.A.G. STD. DTL. 501-5.

1) EXISTING RECLAIM WATER LINE - REALIGN AS NECESSARY FOR CONSTRUCTION OF STORM DRAIN PER MAG SPECIFICATIONS AND NAU DGTS.

2) CONTRACTOR TO REALIGN EXISTING UGE/FO CONDUIT BELOW PROPOSED STORM DRAIN TO PROVIDE MIN. VERTICAL

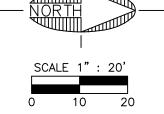
University - Student Athlete Senter, Building 73A Northern Arizona I High Performance

> CONSTRUCTION DOCUMENTS 6.22.2020 Revisions

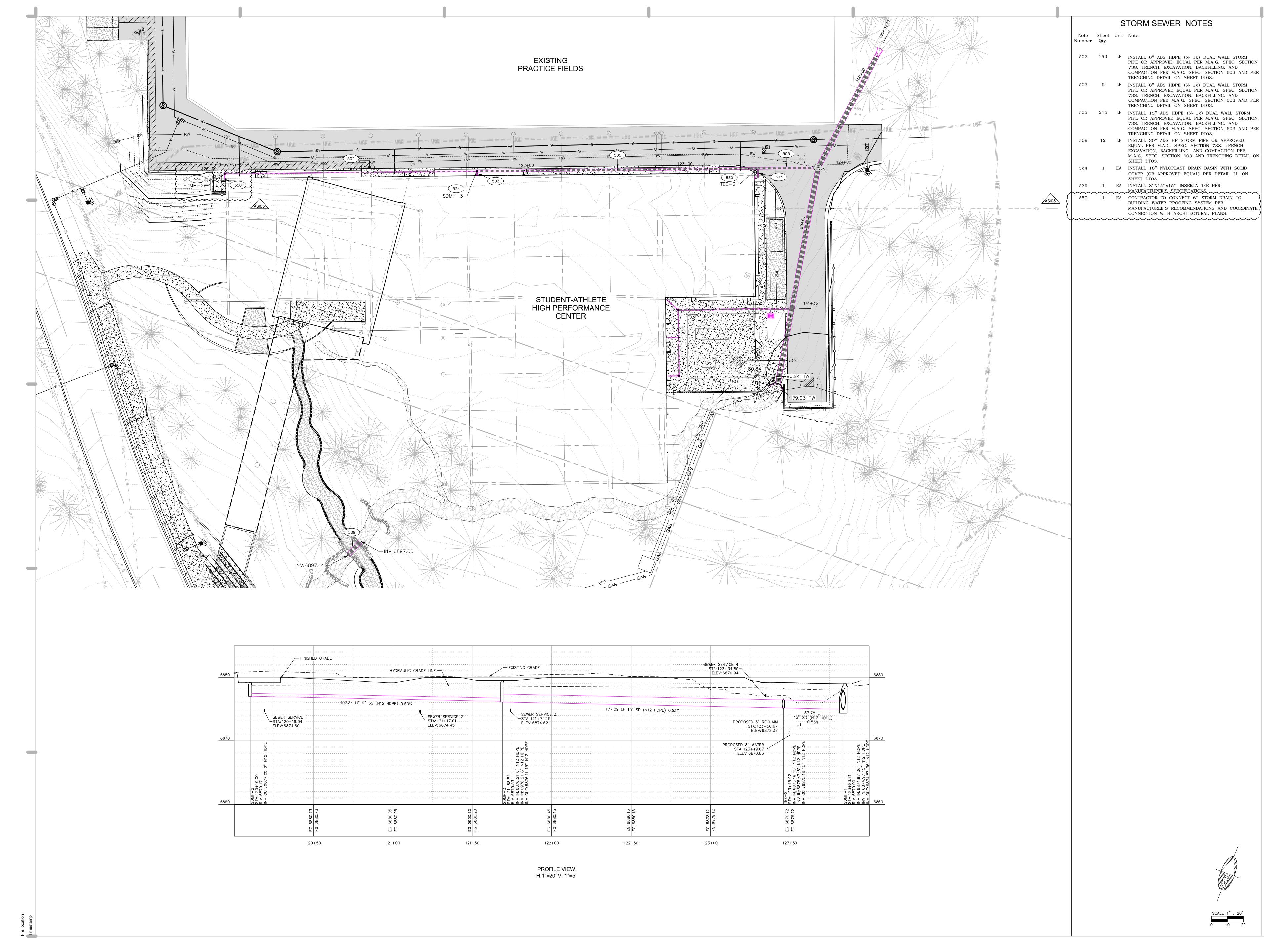
ASI03 09.04.20 TRADES, AHJ REVS ASI05 10.07.20 TRADES, AHJ REVS

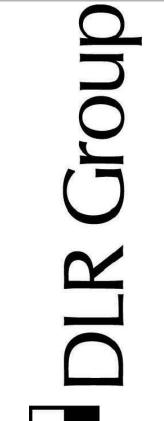
Attachment C9 to ASI05 dated 10/07/20

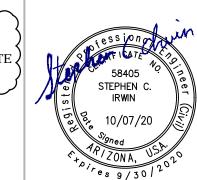
30-19131-00 STORM DRAIN PLAN



SD01













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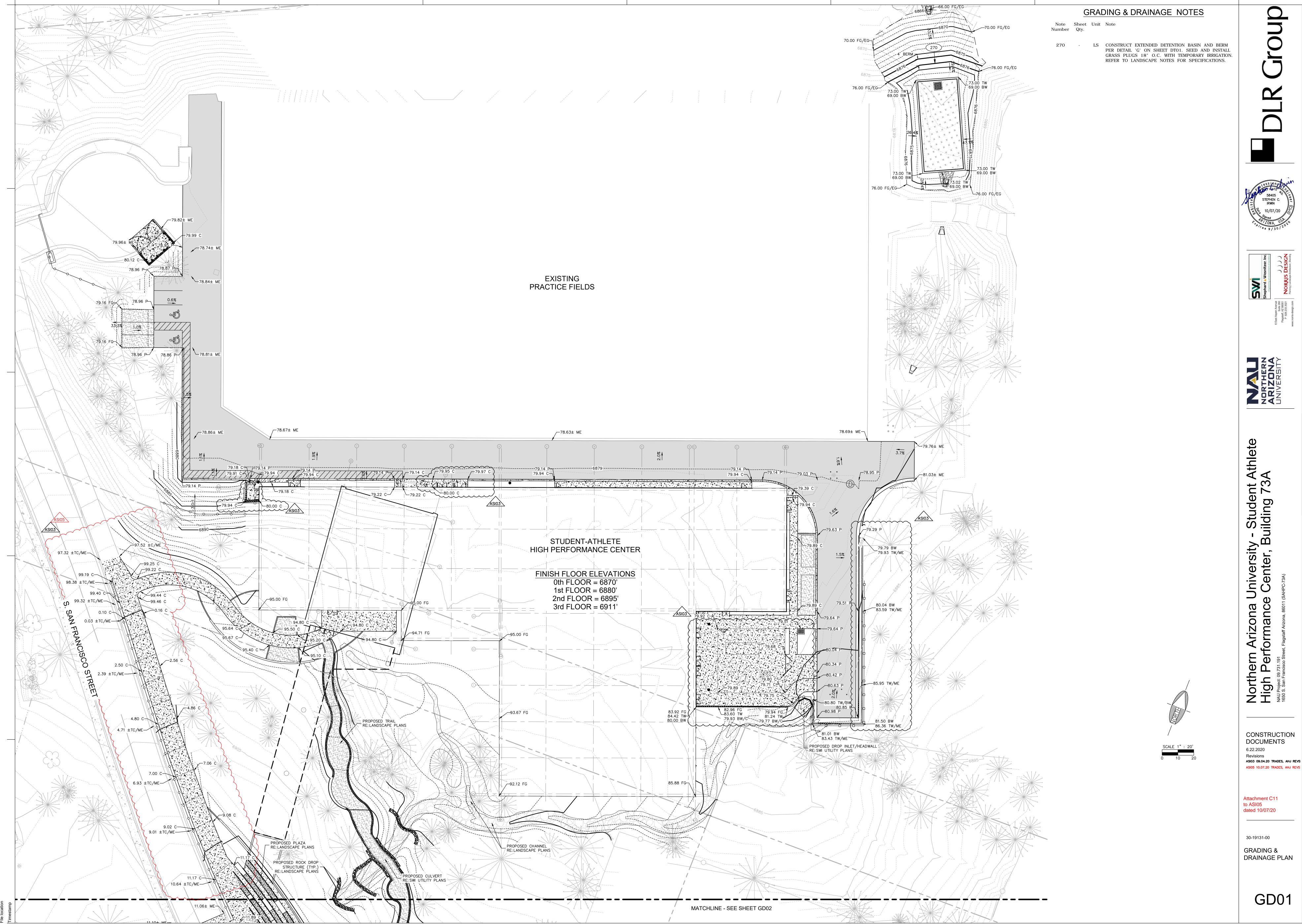
CONSTRUCTION DOCUMENTS 6.22.2020

Revisions ASI05 10.07.20 TRADES, AHJ REVS

Attachment C10 to ASI05 dated 10/07/20

30-19131-00 STORM DRAIN PLAN

SD02

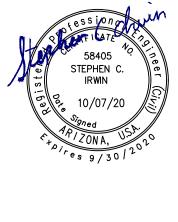








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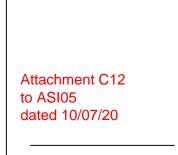






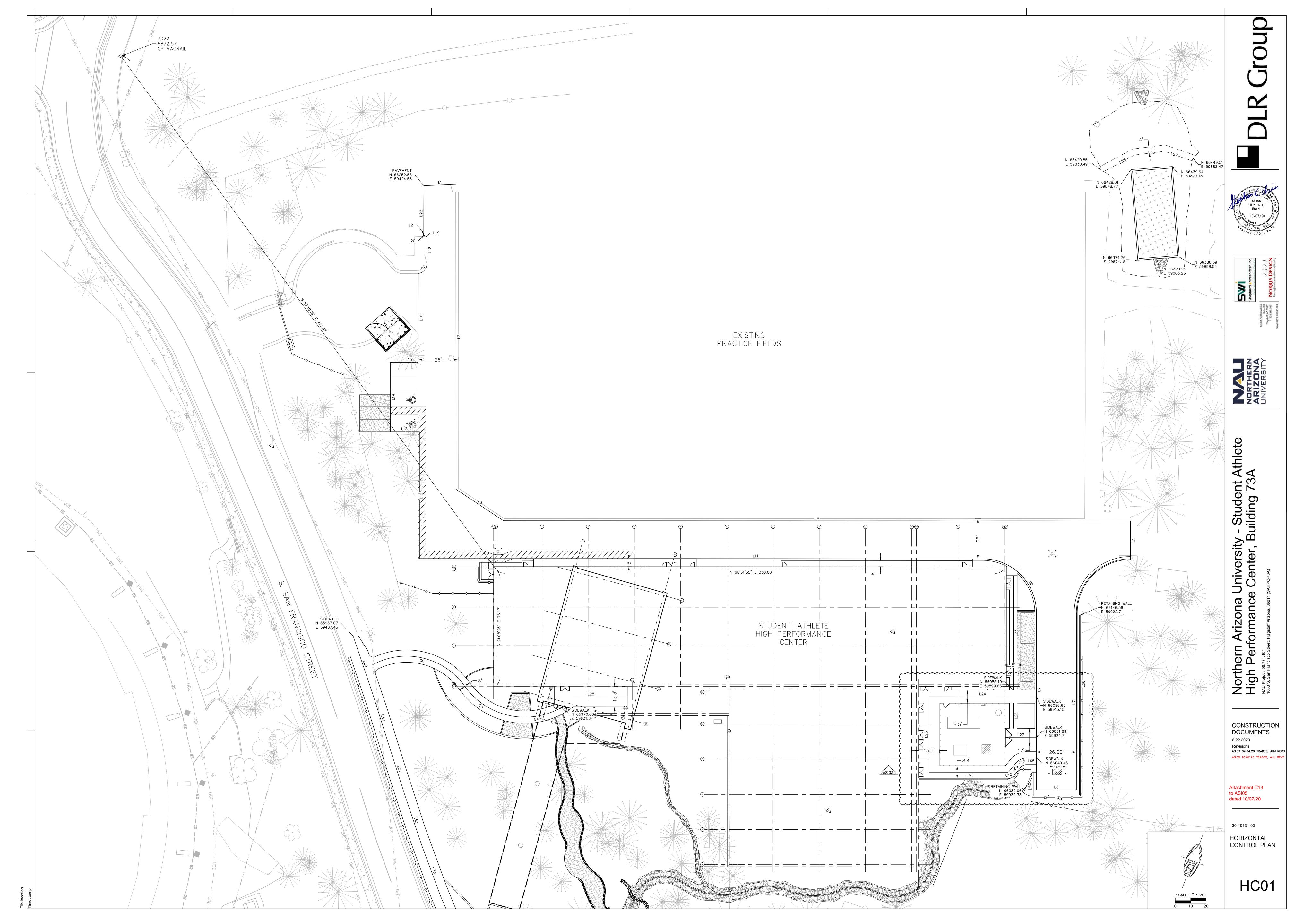
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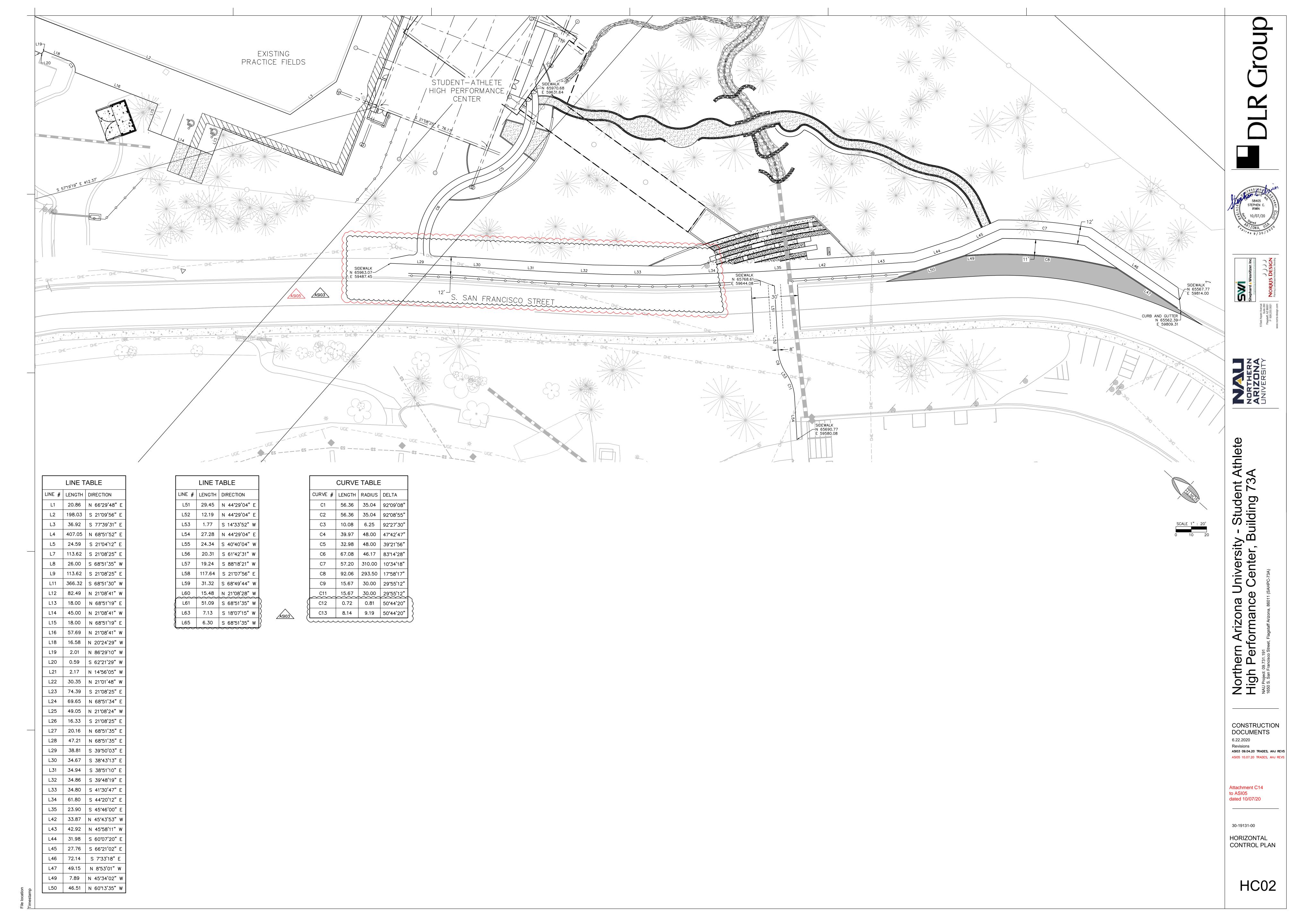
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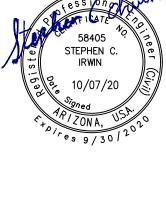




GD02















CONSTRUCTION DOCUMENTS ASI03 09.04.20 TRADES, AHJ REVS ASI05 10.07.20 TRADES, AHJ REVS



CONTROL PLAN

EC02

MANAGEMENT STRATEGIES CONSTRUCTION WILL BE SEQUENCED SO THAT GRADING OPERATIONS CAN BEGIN AND END AS QUICKLY AS POSSIBLE

2. INSTALL TEMPORARY CONSTRUCTION ENTRANCE. MUD AND DEBRIS SHALL BE WASHED FROM ALL CONSTRUCTION VEHICLES AND EQUIPMENT BEFORE LEAVING THE SITE. A WATER TANK TRUCK WILL BE USED IF PUBLIC PERFORMING ROUTINE INSPECTIONS. WATER IS UNAVAILABLE.

AND SILT FENCE. SEDIMENT TRAPPING MEASURES SHALL BE INSTALLED AS A TO PREVENT EROSION AND SEDIMENTATION FIRST STEP IN GRADING

4. GRADING OPERATIONS MAY COMMENCE ONCE PERIMETER CONTROLS, DIVERSIONS AND TRAPPING MEASURES ARE INSTALLED.

5. FILL SLOPE SURFACES SHALL BE LEFT IN ROUGHENED CONDITION TO REDUCE SHEET AND RILL EROSION OF THE SLOPES. THE CONTRACTOR SHALL REDIRECT CONCENTRATED FLOW AWAY FROM THE FILL SLOPES BY INSTALLING EARTH BERMS AND DIRECT THE RUN-OFF TO STABILIZED OUTLET OR SEDIMENT BASIN AND TRAPPING DEVICES.

6. TEMPORARY SEEDING, SODDING OR OTHER STABILIZATION METHODS WILL FOLLOW IMMEDIATELY AFTER GRADING.

7. ONCE THE UTILITIES, CURB AND GUTTER, AND THE ROADS ARE BROUGHT NEAR FINAL GRADE IN A MANNER SUCH THAT STORM SEWER SYSTEMS ARE FUNCTIONAL, INSTALL THE STANDARD INLET PROTECTION AROUND THE STRUCTURES AND SILT FENCE ALONG THE SITE PERIMETER.

B. FOR VEGETATIVE STABILIZATION OF ALL DENUDED AREAS SEE EROSION CONTROL MEASURES AND VEGETATIVE PRACTICES. THE JOB SUPERINTENDENT SHALL BE RESPONSIBLE FOR THE

INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL PRACTICES. 10. AFTER ACHIEVING ADEQUATE STABILIZATION, THE TEMPORARY EROSION & SILTATION CONTROLS WILL BE CLEANED UP AND REMOVED FROM THE

GENERAL LAND CONSERVATION NOTES

VEGETATED STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRECIPITATION OR IRRIGATION IS AVAILABLE.

2. ALL EROSION AND SILTATION CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN GRADING. FIRST AREAS TO BE CLEARED ARE TO BE THOSE REQUIRED FOR THE PERIMETER CONTROLS.

3. DURING CONSTRUCTION, ALL STORM SEWER INLETS WILL BE PROTECTED BY INLET PROTECTION DEVICES, MAINTAINED AND MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESS.

4. ANY DISTURBED AREA NOT COVERED BY NOTE #1 ABOVE AND NOT PAVED, SODDED OR BUILT UPON IS TO BE MULCHED WITH HAY OR STRAW MULCH AT THE RATE OF TWO TONS PER ACRE AND OVER-SEEDED AS SOON AS PRECIPITATION OR IRRIGATION IS AVAILABLE.

RELEASE OF THE BOND, ALL TEMPORARY SILTATION AND EROSION CONTROLS SHALL BE REMOVED AND DISTURBED AREAS SHALL BE STABILIZED. 5. TEMPORARY DIVERSIONS, SEEDED AND MULCHED OR SILT FENCE AND

AT THE COMPLETION OF CONSTRUCTION PROJECTS, AND PRIOR TO THE

OTHER CONTROL MEASURES AS NECESSARY ARE TO BE PLACED AS INDICATED ON THE DRAWINGS PRIOR TO OR THE FIRST STEP IN EXCAVATION.

WHERE CONSISTENT WITH JOB SAFETY REQUIREMENTS, ALL EXCAVATED MATERIAL IS TO BE PLACED ON THE UPHILL SIDE OF TRENCHES. NO MATERIAL IS TO BE PLACED IN STREAMBEDS. NO STOCKPILE IS PERMITTED. WHERE SOIL IS PLACED ON DOWNHILL SIDE OF TRENCHES. IT IS TO BE BACK-SLOPE TO DRAIN TOWARD THE TRENCH. WHEN NECESSARY TO DEWATER THE TRENCHES, THE PUMP DISCHARGE HOSE MUST OUTLET IN A STABILIZED AREA TO AN EXISTING STORM INLET OR DITCH IF NO INLET AVAILABLE.

EROSION & SEDIMENT CONTROL STANDARD NOTES 1. THE CONTRACTOR MUST NOTIFY BLUE STAKE AT 1-800-STAKE-IT AT LEAST 24 HOURS PRIOR TO THE START OF CONSTRUCTION IN ACCORDANCE

WITH APPLICABLE COUNTY ORDINANCES AND POLICIES. 2. ALL EROSION CONTROL MEASURES SHOWN ON THE APPROVED PLAN MUST BE IN PLACE AND INSPECTED AND APPROVED BY THE PRIOR TO CLEARING, STRIPPING OF TOPSOIL OR GRADING.

THE CONTRACTOR SHALL POST A SIGN AT THE MAIN ENTRANCE TO THE CONSTRUCTION SITE CONTAINING THE AZPDES AUTHORIZATION NUMBER AND/OR COPY OF NOTICE OF INTENT AUTHORIZATION, CONSTRUCTION SITE OPERATOR CONTACT NAME AND TELEPHONE NUMBER, A BRIEF PROJECT DESCRIPTION, AND THE LOCATION OF THE APPROVED STORM WATER POLLUTION PREVENTION PLAN. THE SIGN SHALL ALSO DISPLAY THE NAME, CONTACT INFORMATION, AND QUALIFICATIONS OF THE PERSONNEL

THE CONTRACTOR'S REPRESENTATIVE IS RESPONSIBLE FOR THE 3. INSTALL PERIMETER CONTROLS AS SHOWN TO INCLUDE DIVERSION DIKES INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY

> ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL COMPLETE AND ADEQUATE STABILIZATION IS ACHIEVED.

6. WATER MUST BE PUMPED INTO AN APPROVED FILTERING DEVICE DURING DEWATERING OPERATIONS.

THE CONTRACTOR'S REPRESENTATIVE SHALL INSPECT AND DOCUMENT ALL EROSION AND SEDIMENT CONTROL MEASURES DAILY AND AFTER EACH SIGNIFICANT RAINFALL. THE FOLLOWING ITEMS WILL BE CHECKED IN

A. GRAVEL OUTLETS WILL BE CHECKED REGULARLY FOR SEDIMENT BUILDUP WHICH WILL PREVENT DRAINAGE. IF THE GRAVEL IS CLOGGED BY SEDIMENT, IT SHALL BE REMOVED AND CLEANED OR REPLACED.

SILT FENCE AND SEDIMENT BARRIERS WILL BE CHECKED REGULARLY FOR UNDERMINING OR DETERIORATION OF THE FABRIC. SEDIMENT SHALL BE REMOVED WHEN THE LEVEL OF SEDIMENT DEPOSITION REACHES HALF WAY TO THE TOP OF THE BARRIER.

SEEDED AND SODDED AREAS WILL BE CHECKED REGULARLY TO ENSURE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED AND RESEEDED OR SODDED AS NEEDED.

8. INSPECTION FORMS SHALL BE COMPLETED BY THE CONTRACTOR'S INSPECTOR WITH THE MINIMUM FOLLOWING INFORMATION: INSPECTION DATE, TITLE AND QUALIFICATIONS OF EACH INSPECTOR, WEATHER INFORMATION FOR PERIOD SINCE LAST INSPECTION, LOCATION OF DISCHARGE OF SEDIMENT OR OTHER POLLUTANTS, LIST OF BMPS THAT NEED TO BE MAINTAINED OR INADEQUATE, LIST ADDITIONAL NEEDED BMPS, CORRECTIVE ACTION REQUIRED, SOURCES OF ALL NON-STORMWATER AND CONTROL MEASURES, DATES WHEN MAJOR GRADING ACTIONS OCCURRED, POLLUTANT DISCHARGE STATUS OF STORAGE AREAS, AND DATES WHEN CONSTRUCTION ACTIVITIES CEASED.

9. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING INSPECTION RECORDS FOR AT LEAST THREE (3) YEARS FOLLOWING THE COMPLETION OF PROJECT. 10. THE SWPPP SHALL BE MODIFIED BY THE CONTRACTOR WITHIN 7 CALENDAR DAYS FOLLOWING THE INSPECTION OF AN INADEQUATE BMP WHEN NEEDED. BMPS SHALL BE MODIFIED OR ADDED AS SOON AS PRACTICABLE

PERMANENT SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED AND ALL WORK COMPLETED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN (7) DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN UNDISTURBED FOR LONGER THAN FOURTEEN (14) DAYS. ROADS AND PARKING AREAS SHALL BE STABILIZED AS SOON AS PRECIPITATION OR IRRIGATION IS AVAILABLE.

AFTER THE BMP HAS BEEN DETERMINED INADEQUATE.

ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES WILL BE REMOVED WITHIN 30 DAYS AFTER ADEQUATE SITE STABILIZATION AND AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, AS AUTHORIZED BY INSPECTORS. TRAPPED SEDIMENT AND THE DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES WILL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.

13. WHEN SEDIMENT IS TRANSPORTED ONTO A PAVED ROAD SURFACE, THE ROAD WILL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT WILL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING WILL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS

14. AREAS WHICH ARE NOT TO BE DISTURBED WILL BE CLEARLY MARKED BY FLAGS, SIGNS, ETC.

15. FLOOD PLAIN LIMITS SHALL BE CLEARLY MARKED IN THE FIELD BY FLAGS, SIGNS, ETC.

16. TREE SAVE AREAS SHALL BE CLEARLY MARKED IN THE FIELD BY ORANGE SAFETY FENCE.

18. SEEDING AND MULCHING SHALL BE IN ACCORDANCE WITH THE STANDARDS.

19. THE SWPPP SHALL BE MODIFIED BY THE CONTRACTOR WITHIN 15 BUSINESS DAYS FOLLOWING ANY CHANGE IN DESIGN, CONSTRUCTION OPERATION, OR MAINTENANCE THAT HAS A SIGNIFICANT EFFECT ON DISCHARGE OR NOT PREVIOUSLY ASSESSED IN THE SWPPP.

20. THE SWPPP SHALL BE MODIFIED BY THE CONTRACTOR WITHIN 15 BUSINESS DAYS IF IT IS DETERMINED THAT DISCHARGE IS CAUSING OR CONTRIBUTING TO WATER QUALITY EXCEEDENCES OR THE SWPPP IS INEFFECTIVE.

EROSION CONTROL MEASURES

AND SEDIMENT BASINS.

ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS ESTABLISHED HEREIN. STRUCTURAL PRACTICES

SILT FENCE BARRIER: SILT FENCE SEDIMENT BARRIERS WILL BE INSTALLED DOWNSLOPE OF AREAS WITH MINIMAL GRADES TO FILTER SEDIMENT LADEN RUNOFF FROM SHEET FLOW AS INDICATED ON THE PLANS.

A TEMPORARY CONSTRUCTION ENTRANCE SHALL BE INSTALLED WHERE THE ACCESS AREA INTERSECTS WITH EXISTING ROADS DURING MUDDY CONDITIONS. DRIVERS OF CONSTRUCTION VEHICLES WILL BE REQUIRED TO WASH THEIR WHEELS BEFORE ENTERING THE HIGHWAY.

STORM DRAIN INLET & SPILLWAY PROTECTION: ALL STORM SEWER INLETS AND SPILLWAYS SHALL BE PROTECTED DURING CONSTRUCTION. SEDIMENT-LADEN WATER SHALL BE FILTERED BEFORE ENTERING THE STORM SEWER INLETS AND CULVERTS.

VEGETATIVE PRACTICES

TOP SOILING (STOCKPILE) TOPSOIL WILL BE STRIPPED FROM AREAS TO BE GRADED AND STOCKPILED FOR LATER USE. STOCKPILE LOCATIONS ARE TO BE STABILIZED WITH TEMPORARY VEGETATION. PRIOR TO LAND DISTURBING ACTIVITIES, THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION & SEDIMENT PLAN TO THE OWNER COVERING THE STOCKPILE AREA WHICH MAY HAVE TO BE APPROVED BY THE PLAN APPROVING AUTHORITY BEFORE ANY ACTIVITY COMMENCES.

TEMPORARY SEEDING ALL DENUDED AREAS WHICH WILL BE LEFT DORMANT FOR EXTENDED PERIODS OF TIME SHALL BE SEEDED WITH FAST GERMINATING TEMPORARY VEGETATION IMMEDIATELY FOLLOWING GRADING. SELECTION OF THE SEED MIXTURE WILL DEPEND ON THE TIME OF YEAR IT IS

GRASS AREAS THAT ARE DISTURBED DURING CONSTRUCTION SHALL BE REPLACED WITH SOD BY THE CONTRACTOR. THE SOD GRASS TYPE SHALL FROM POLLUTANTS AND DEBRIS. MATCH THE EXISTING AND SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL THE SOD IS STABILIZED.

GENERAL NOTES FOR EROSION CONTROL

1. A STANDBY CREW FOR EMERGENCY WORK SHALL BE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. NECESSARY MATERIALS SHALL BE AVAILABLE ON SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES OR TO REPAIR ANY DAMAGED EROSION CONTROL MEASURES, ESPECIALLY WHEN RAIN IS

DEVICES SHALL NOT BE MOVED OR MODIFIED WITHOUT APPROVAL OF THE INSPECTOR. ALL PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF

AFTFR A RAIN STORM. ALL SILT AND DEBRIS SHALL BE REMOVED FROM CHECK BERMS AND DESILTING BASINS. ANY GRADED SLOPE SURFACE PROTECTION MEASURE DAMAGED DURING A RAIN STORM SHALL BE IMMEDIATELY REPAIRED.

FILL SLOPES AT THE CONSTRUCTION SITE PERIMETER MUST DRAIN AWAY FROM THE TOPS OF THE SLOPES AT THE END OF EACH DAY. 6. A COPY OF THE PROJECTS STORM WATER POLLUTION PROTECTION

ALWAYS AVAILABLE FOR REVIEW.

PLAN (SWPPP) SHALL BE MAINTAINED AT THE CONSTRUCTION SITE AND

CLOGGING BY PROVIDING INLET PROTECTION AT ALL OPENINGS. 17. ORANGE SAFETY FENCE MUST BE INSTALLED AROUND ALL SILT TRAPS 8. AVOID PAVING DURING WET WEATHER.

PROTECT ALL STORM DRAINAGE STRUCTURES FROM SEDIMENT

STORE MATERIALS AWAY FROM DRAINAGE COURSES TO PREVENT

CONTACT WITH STORM WATER. 10. PLACE DRIP PANS OR ABSORBENT MATERIALS UNDER CONSTRUCTION EQUIPMENT WHEN NOT IN USE.

11. CLEAN UP SPILLS WITH ABSORBENT MATERIALS.

12. OLD ASPHALT MUST BE DISPOSED OF PROPERLY.

13. KEEP WORK SITE CLEAN AND ORDERLY DAILY.

14. PROPERLY STORE PAINTS AND SOLVENTS. 15. PERMANENTLY MARK STORM DRAIN STRUCTURES IN A MANNER APPROVED BY THE CONSTRUCTION INSPECTOR TO MINIMIZE INADVERTENT DISPOSAL OF RESIDUAL PAINTS, SOLVENTS, OR ANY OTHER POLLUTANT.

16. ALLOW MATERIAL DELIVERY AND STORAGE ONLY IN DESIGNATED AREAS AND AVOID TRANSPORT NEAR DRAINAGE PATHS AND WATERWAYS.

17. MINIMIZE THE USE OF HAZARDOUS MATERIALS ON SITE.

18. CLEAN UP LEAKS AND SPILLS IMMEDIATELY.

DITCHES, OR STREETS.

19. USE WATERTIGHT DUMPSTERS FOR TRASH AND CONSTRUCTION WASTE 20. COLLECT SITE TRASH AS NEEDED, ESPECIALLY DURING RAINY OR WINDY

CONDITIONS. 21. ARRANGE FOR REGULAR WASTE COLLECTION BEFORE CONTAINERS

22. DO NOT ALLOW BRUSHES OR PAINT CONTAINERS TO BE CLEANED OUT IN THE DIRT, STREET, GUTTER, OR STORM DRAINS.

23. STORE AND COVER DRY AND WET MATERIALS FROM CONCRETE

PLACEMENT AWAY FROM DRAINAGE AREAS. 24. PERFORM WASHOUT OF CONCRETE TRUCKS IN DESIGNATED AREAS ONLY. WASHOUT AREAS SHALL BE AWAY FROM STORM DRAINS, OPEN

25. TEMPORARY SANITARY FACILITIES SHALL BE MAINTAINED IN GOOD WORKING ORDER BY A LICENSED SERVICE.

26. CONTRACTOR SHALL BE RESPONSIBLE FOR UPDATING HIS PLAN THROUGHOUT CONSTRUCTION AND INDICATE ANY AND ALL REVISIONS / UPDATES ON THIS PLAN.

CONTRACTOR SHALL CONDUCT HIS OPERATIONS IN SUCH A MANNER THAT STORM WATER WILL BE CONTAINED WITHIN THE PROJECT OR CHANNELED INTO THE STORM DRAIN SYSTEM PROVIDED THAT IT IS FREE

28. CITY APPROVAL OF PLANS DOES NOT RELIEVE THE DEVELOPER FROM CORRECTING ERRORS OR OMISSIONS DISCOVERED DURING CONSTRUCTION. CONFORMANCE WITH THE REQUIREMENTS OF THIS PLAN SHALL IN NO WAY RELIEVE THE DEVELOPER FROM HIS RESPONSIBILITIES TO THE SITE AND ADJACENT PROPERTIES. TEMPORARY EROSION CONTROL SHALL CONSIST OF, BUT NOT BE LIMITED TO, CONSTRUCTING SUCH FACILITIES AND TAKING SUCH MEASURES AS ARE NECESSARY TO PREVENT, CONTROL AND ABATE WATER, MUD AND EROSION DAMAGE TO PUBLIC AND PRIVATE PROPERTY AS A RESULT OF THE CONSTRUCTION OF THIS PROPERTY.

29. CLEARING AND GRUBBING SHOULD BE LIMITED TO AREAS THAT WILL RECEIVE IMMEDIATE GRADING. EROSION CONTROL MEASURES WILL BE REQUIRED TO PROTECT AREAS WHICH HAVE BEEN CLEARED AND GRUBBED. THESE MEASURES MAY INCLUDE BUT NOT BE LIMITED TO: GRADED DITCHES, SAND OR GRAVEL BAGS, BARRIERS AND SILT FENCING. CARE SHALL BE EXERCISED TO PRESERVE VEGETATION BEYOND LIMITS OF GRADING AND PREVENT SEDIMENT DISCHARGE WHILE CONSTRUCTION IN THIS AREA IS ACTIVE.

30. SEDIMENT CONTROL SHALL BE USED AT THE TOE OF ANY ERODIBLE

31. CONTRACTOR SHALL IMMEDIATELY RESTORE ANY DAMAGED EROSION CONTROL MEASURE WITHIN THE PROJECT BOUNDARY.

32. FACES OF FINISHED CUT AND FILL SLOPES SHALL BE PREPARED AND MAINTAINED TO CONTROL AGAINST EROSION. THESE PERMANENT CONTROL MEASURES MAY CONSIST OF ADEQUATE SEEDING, PLANTING AND JUTE MATTING. THE PROTECTION FOR THE SLOPES SHALL BE INSTALLED AS SOON AS PRACTICABLE AND PRIOR TO CALLING FOR FINAL APPROVAL.

33. AFTER A RAIN STORM, ALL SILT AND DEBRIS SHALL BE REMOVED FROM STREETS, CHECK BERMS AND BASINS.

34. CONTRACTOR / SUBCONTRACTOR TRAINING IN SEDIMENT AND EROSION CONTROL IN ACCORDANCE WITH AZPDES.

35. THE PERMITTEE AND CONTRACTOR SHALL BE RESPONSIBLE, AND TAKE NECESSARY PRECAUTIONS, TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATER CREATES A HAZARDOUS CONDITION. GENERAL NOTES

1. ALL CONSTRUCTION SHALL CONFORM TO MAG STANDARDS, AZPDES STANDARDS AND SPECIFICATIONS AND GENERALLY ACCEPTED CONSTRUCTION

PRACTICE.

MAINTENANCE:

2. THESE PLANS REPRESENT A REASONABLE EFFORT TO IMPLEMENT THE MOST CURRENT BEST MANAGEMENT PRACTICES (BMPS) IN MITIGATING STORM WATER POLLUTION DURING CONSTRUCTION. THE EFFECTIVENESS OF THE MITIGATION MEASURES DEPICTED IN THESE PLANS DEPEND IN PART ON PROPER INSTALLATION, IMPLEMENTATION, MAINTENANCE, AND REPAIR OF THE DEVICES SELECTED.

IN GENERAL, ALL EROSION & SEDIMENT CONTROL MEASURES WILL BE CHECKED DAILY AND AFTER EACH SIGNIFICANT RAINFALL. REFER TO THE ATTACHED EROSION & SEDIMENT CONTROL STANDARD NOTES FOR DETAILED MAINTENANCE AND REVEGATATION / STABILIZATION REQUIREMENTS.

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TEMPORARY CONCRETE WASHOUT FACILITY NOTES

1. CONTRACTOR TO DESIGNATE EQUIP./MATERIAL STORAGE SITE AND CONCRETE WASHOUT AS PART OF SWPPP PRIOR TO START OF CONSTRUCTION.

2. TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE LOCATED A MINIMUM OF 50 FEET FROM STORM DRAIN INLETS, OPEN DRAINAGE FACILITIES AND WATERCOURSES, UNLESS DETERMINED UNFEASIBLE BY ENGINEER. EACH FACILITY SHALL BE LOCATED AWAY FROM CONSTRUCTION TRAFFIC OR ACCESS AREAS TO PREVENT DISTURBANCE OR TRACKING.

3. TEMPORARY CONCRETE WASHOUT FACILITIES SHALL HAVE A TEMPORARY PIT (BELOW GRADE) OR BERMED AREA (ABOVE GRADE) OF SUFFICIENT VOLUME TO COMPLETELY CONTAIN ALL LIQUID AND WASTE CONCRETE MATERIALS GENERATED DURING WASHOUT PROCEDURES. IF LOCATED ABOVE GRADE, THE WASHOUT AREA SHALL BE LINED WITH AN IMPERMEABLE MATERIAL

4. ONCE CONCRETE WASTES ARE WASHED INTO THE DESIGNATED AREA AND ALLOWED TO HARDEN, THE CONCRETE SHALL BE BROKEN UP, REMOVED AND DISPOSED OF PER BMP SOLID WASTE MANAGEMENT.

5. WHEN TEMPORARY CONCRETE WASHOUT FACILITIES ARE NO LONGER REQUIRED FOR THE WORK. AS DETERMINED BY THE ENGINEER. THE HARDENED CONCRETE SHALL BE REMOVED AND PROPERLY DISPOSED OF. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE COME THE PROPERTY OF THE CONTACTOR, SHALL BE REMOVED THE SITE OF THE WORK AND SHALL BE DISPOSED OF OUTSIDE THE HIGHWAY RIGHT-OF-WAY.

6. HOLE, DEPRESSIONS OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE FACILITIES SHALL BE BACKFILLED AND REPAIRED.

7. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

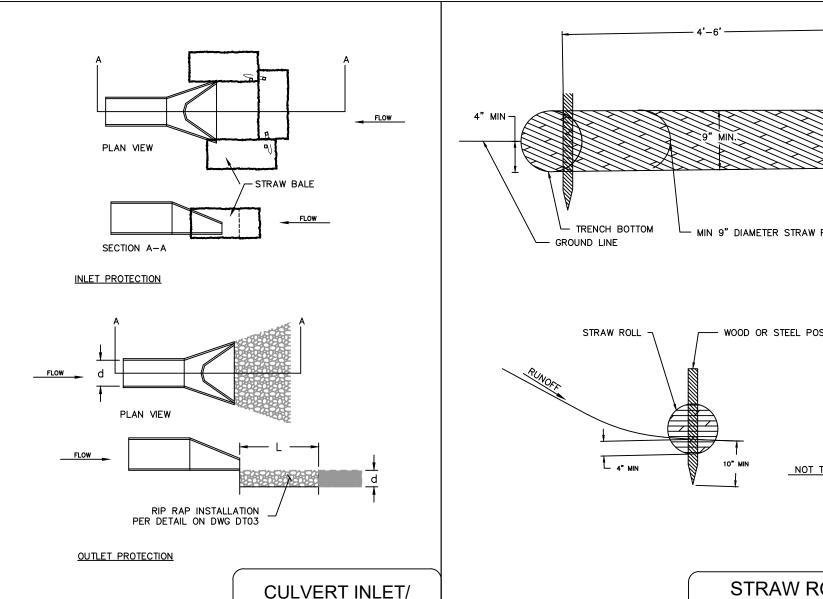
CONSTRUCTION SEQUENCE

INSTALL INLET PROTECTION

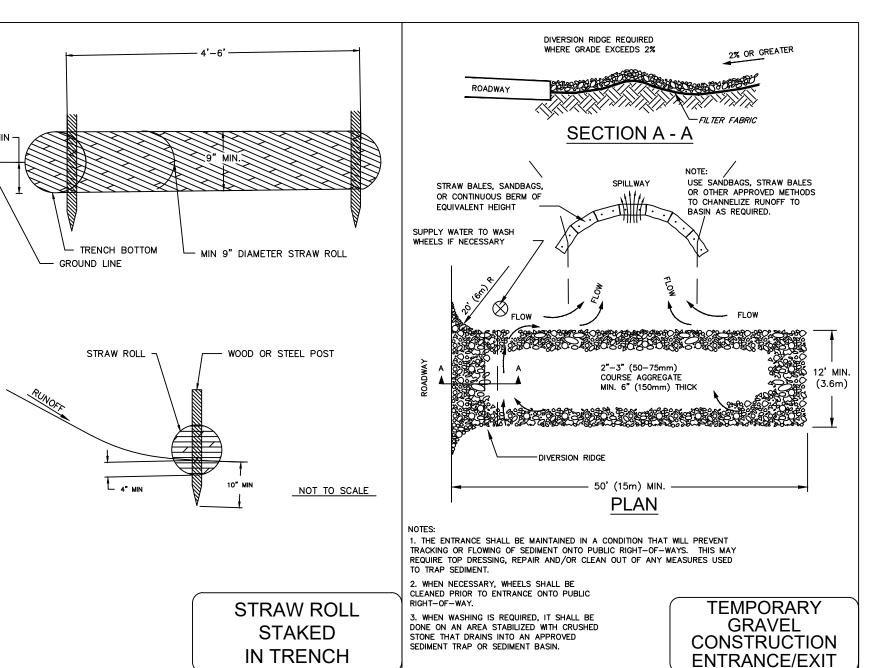
2. PAVEMENT REMOVAL AND INSTALL HAY BALES INSTALL CONSTRUCTION ENTRANCES 4. DRAINAGE INFRASTRUCTURE/UTILITIES

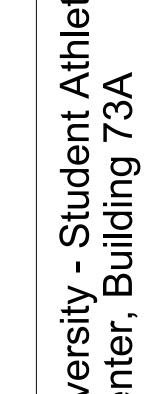
7. SCHEDULED MONITORING AND MAINTENANCE

5. SITE CONSTRUCTION 6. PERMANENT REVEGETATION/SLOPE STABILIZATION



**OUTLET PROTECTION** 





F orther

CONSTRUCTION DOCUMENTS 6.22.2020

ASI05 10.07.20 TRADES, AHJ REVS

Attachment C16 to ASI05 dated 10/07/20

30-19131-00 **EROSION** 

DETAILS

- 1. NAU LANDSCAPE INSPECTIONS AND PROCESSES MUST BE FOLLOWED PER THE FACILITY SERVICES WEBSITE: INSPECTION PROCEDURE AND FS15 INSPECTION RECORD.
- 2. THE CONTRACTOR AND OWNER'S REPRESENTATIVE SHALL CONTACT THE LANDSCAPE ARCHITECT FOR A
  - PRE-CONSTRUCTION MEETING PRIOR TO START OF ANY WORK SHOWN ON THESE PLANS. 3. THESE PLANS SHALL NOT BE UTILIZED FOR CONSTRUCTION OR PERMITTING UNLESS STATED FOR SUCH USE IN THE TITLE BLOCK.
  - 4. DRAWINGS ARE INTENDED TO BE PRINTED ON 30' X 42' PAPER. PRINTING THESE DRAWINGS AT A DIFFERENT SIZE WILL IMPACT THE SCALE. VERIFY THE GRAPHIC SCALE BEFORE REFERENCING ANY MEASUREMENTS ON THESE SHEETS. THE RECIPIENT OF THESE DRAWINGS SHALL BE RESPONSIBLE FOR ANY ERRORS RESULTING FROM INCORRECT PRINTING, COPYING, OR ANY OTHER CHANGES THAT ALTER THE SCALE OF THE DRAWINGS.
  - 5. VERIFY ALL PLAN DIMENSIONS PRIOR TO START OF CONSTRUCTION. NOTIFY THE OWNER'S
  - REPRESENTATIVE TO ADDRESS ANY QUESTIONS OR CLARIFY ANY DISCREPANCIES.
  - 6. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. 7. SUBMIT A CHANGE ORDER FOR APPROVAL FOR ANY CHANGES TO WORK SCOPE RESULTING FROM FIELD CONDITIONS OR DIRECTION BY OWNER'S REPRESENTATIVE WHICH REQUIRE ADDITIONAL COST TO THE OWNER PRIOR TO PERFORMANCE OF WORK.
  - 8. THE CONTRACTOR SHALL PROVIDE A STAKED LAYOUT OF ALL SITE IMPROVEMENTS FOR INSPECTION BY THE OWNER'S REPRESENTATIVE AND MAKE MODIFICATIONS AS REQUIRED. ALL LAYOUT INFORMATION IS
  - AVAILABLE IN DIGITAL FORMAT FOR USE BY THE CONTRACTOR. 9. CONTRACTOR SHALL CONFIRM THAT SITE CONDITIONS ARE SIMILAR TO THE PLANS, WITHIN TOLERANCES STATED IN THE CONTRACT DOCUMENTS, AND SATISFACTORY TO THE CONTRACTOR PRIOR TO START OF WORK. SHOULD SITE CONDITIONS BE DIFFERENT THAN REPRESENTED ON THE PLANS OR
  - REPRESENTATIVE FOR CLARIFICATION AND FURTHER DIRECTION. 10. CONTRACTOR IS RESPONSIBLE TO PAY FOR, AND OBTAIN, ANY REQUIRED APPLICATIONS, PERMITTING,

UNSATISFACTORY TO THE CONTRACTOR, THE CONTRACTOR SHALL CONTACT THE OWNER'S

- LICENSES, INSPECTIONS AND METERS ASSOCIATED WITH WORK 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES OR PENALTIES ASSESSED TO THE OWNER RELATING TO ANY VIOLATIONS OR NON-CONFORMANCE WITH THE PLANS, SPECIFICATIONS, CONTRACT DOCUMENTS, JURISDICTIONAL CODES, AND REGULATORY AGENCIES.
- 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL UTILITY LOCATES PRIOR TO ANY EXCAVATION. REFER TO ENGINEERING UTILITY PLANS FOR ALL PROPOSED UTILITY LOCATIONS AND DETAILS. NOTIFY OWNER'S REPRESENTATIVE IF EXISTING OR PROPOSED UTILITIES INTERFERE WITH THE ABILITY TO PERFORM WORK.
- 13. UNLESS IDENTIFIED ON THE PLANS FOR DEMOLITION OR REMOVAL, THE CONTRACTOR IS RESPONSIBLE FOR THE COST TO REPAIR UTILITIES, ADJACENT OR EXISTING LANDSCAPE, ADJACENT OR EXISTING PAVING, OR ANY PUBLIC AND PRIVATE PROPERTY THAT IS DAMAGED BY THE CONTRACTOR OR THEIR SUBCONTRACTOR'S OPERATIONS DURING INSTALLATION, ESTABLISHMENT OR DURING THE SPECIFIED MAINTENANCE PERIOD. ALL DAMAGES SHALL BE REPAIRED TO PRE-CONSTRUCTION CONDITIONS AS DETERMINED BY THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL BE RESPONSIBLE FOR LOGGING
- ANY DAMAGES PRIOR TO START OF CONSTRUCTION AND DURING THE CONTRACT PERIOD. 14. ALL WORK SHALL BE CONFINED TO THE AREA WITHIN THE CONSTRUCTION LIMITS AS SHOWN ON THE PLANS. ANY AREAS OR IMPROVEMENTS DISTURBED OUTSIDE THESE LIMITS SHALL BE RETURNED TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE. IN THE EVENT THE CONTRACTOR REQUIRES A MODIFICATION TO THE CONSTRUCTION LIMITS, WRITTEN PERMISSION MUST BE OBTAINED
- FROM THE OWNER'S REPRESENTATIVE PRIOR TO ANY DISTURBANCE OUTSIDE OF THE LIMITS OF WORK 15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY OF THEIR TRENCHES OR EXCAVATIONS THAT SETTLE.
- 16. THE CONTRACTOR SHALL BE RESPONSIBLE TO PREPARE AND SUBMIT A TRAFFIC CONTROL PLAN TO THE APPROPRIATE JURISDICTIONAL AGENCIES AND THE OWNER'S REPRESENTATIVE IF THEIR WORK AND OPERATIONS AFFECT OR IMPACT THE PUBLIC RIGHTS-OF-WAY. OBTAIN APPROVAL PRIOR TO ANY WORK WHICH AFFECTS OR IMPACTS THE PUBLIC RIGHTS-OF-WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES OR PENALTIES ASSESSED TO THE OWNER RELATING TO THIS REQUIREMENT DURING THE CONTRACT PERIOD.
- 17. SIGHT TRIANGLES AND SIGHT LINES SHALL REMAIN UNOBSTRUCTED BY EQUIPMENT, CONSTRUCTION MATERIALS, PLANT MATERIAL OR ANY OTHER VISUAL OBSTACLE DURING THE CONTRACT PERIOD AND AT MATURITY OF PLANTS PER LOCAL JURISDICTIONAL REQUIREMENTS.
- 18. NO PLANT MATERIAL OTHER THAN GROUND COVER IS ALLOWED TO BE PLANTED ADJACENT TO FIRE HYDRANTS AS STIPULATED BY JURISDICTIONAL REQUIREMENTS.
- 19. COORDINATE SITE ACCESS, STAGING, STORAGE AND CLEANOUT AREAS WITH OWNER'S REPRESENTATIVE.
- 20. CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY SAFETY FENCING AND BARRIERS AROUND ALL IMPROVEMENTS SUCH AS WALLS, PLAY STRUCTURES, EXCAVATIONS, ETC. ASSOCIATED WITH THEIR WORK UNTIL SUCH FACILITIES ARE COMPLETELY INSTALLED PER THE PLANS, SPECIFICATIONS AND

DESCRIPTION

- MANUFACTURER'S RECOMMENDATIONS.
- 21. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF THEIR MATERIAL STOCK PILES AND WORK FROM VANDALISM, EROSION OR UNINTENDED DISTURBANCE DURING THE CONSTRUCTION PERIOD AND UNTIL FINAL ACCEPTANCE IS ISSUED.
- 22. THE CONTRACTOR SHALL KNOW, UNDERSTAND AND ABIDE BY ANY STORM WATER POLLUTION PREVENTION PLAN (SWPPP) ASSOCIATED WITH THE SITE. IF A STORM WATER POLLUTION PREVENTION PLAN IS NOT PROVIDED BY THE OWNER'S REPRESENTATIVE, REQUEST A COPY BEFORE PERFORMANCE OF ANY SITE WORK.
- 23. MAINTAIN ANY STORM WATER MANAGEMENT FACILITIES THAT EXIST ON SITE FOR FULL FUNCTIONALITY. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ANY NEW STORM WATER MANAGEMENT FACILITIES THAT ARE IDENTIFIED IN THE SCOPE OF WORK TO FULL FUNCTIONALITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES OR PENALTIES ASSESSED TO THE OWNER FOR FAILURE TO MAINTAIN STORM WATER MANAGEMENT FACILITIES DURING THE CONTRACT PERIOD.
- 24. THE CONTRACTOR SHALL PREVENT SEDIMENT, DEBRIS AND ALL OTHER POLLUTANTS FROM EXITING THE SITE OR ENTERING THE STORM SEWER SYSTEM DURING ALL DEMOLITION OR CONSTRUCTION OPERATIONS THAT ARE PART OF THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES OR PENALTIES ASSESSED TO THE OWNER RELATING TO THESE REQUIREMENTS DURING THEIR CONTRACTED COURSE OF WORK.
- 25. THE CONTRACTOR SHALL BE RESPONSIBLE TO PREVENT ANY IMPACTS TO ADJACENT WATERWAYS, WETLANDS, OR OTHER ENVIRONMENTALLY SENSITIVE AREAS RESULTING FROM WORK DONE AS PART OF THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES OR PENALTIES ASSESSED TO THE OWNER RELATING TO THESE STANDARDS DURING THEIR CONTRACTED COURSE OF WORK.
- 26. THE CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL INSURE THAT ALL LOADS OF CONSTRUCTION MATERIAL IMPORTED TO OR EXPORTED FROM THE PROJECT SITE SHALL BE PROPERLY COVERED TO PREVENT LOSS OF MATERIAL DURING TRANSPORT. TRANSPORTATION METHODS ON PUBLIC RIGHT-OF WAYS SHALL CONFORM TO JURISDICTIONAL REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES OR PENALTIES ASSESSED TO THE OWNER RELATING TO THESE
- REQUIREMENTS. 27. THE CLEANING OF EQUIPMENT IS PROHIBITED AT THE JOB SITE UNLESS AUTHORIZED BY THE OWNER'S REPRESENTATIVE IN A DESIGNATED AREA. THE DISCHARGE OF WATER, WASTE CONCRETE, POLLUTANTS, OR OTHER MATERIALS SHALL ONLY OCCUR IN AREAS DESIGNED FOR SUCH USE AND APPROVED BY THE OWNER'S REPRESENTATIVE.
- 28. THE CLEANING OF CONCRETE EQUIPMENT IS PROHIBITED AT THE JOB SITE EXCEPT IN DESIGNATED CONCRETE WASHOUT AREAS. THE DISCHARGE OF WATER CONTAINING WASTE CONCRETE IN THE STORM SEWER IS PROHIBITED.
- TO SUPPORT SILT FENCING USED AS AN EROSION CONTROL MEASURE IS PROHIBITED. 30. OPEN SPACE SWALES: IF SWALES ARE EXISTING ON SITE AND ARE NOT INTENDED TO BE MODIFIED AS PART OF THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN THE CONVEYANCE OF WATER WITHIN THE SWALES DURING THE CONTRACT PERIOD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DIVERSION OR PUMPING OF WATER IF REQUIRED TO COMPLETE WORK. ANY SWALES DISTURBED BY THE CONTRACTOR SHALL BE REPAIRED/RESTORED TO THEIR ORIGINAL CONDITION. IF THE SWALE NEEDS TO BE DISTURBED OR MODIFIED FOR ANY REASON, THE CONTRACTOR

29. THE USE OF REBAR, STEEL STAKES, OR STEEL FENCE POSTS TO STAKE DOWN STRAW OR HAY BALES OR

- SHALL NOTIFY THE OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO DISTURBANCE. 31. DETENTION AND WATER QUALITY PONDS: IF DETENTION PONDS AND WATER QUALITY PONDS ARE EXISTING ON SITE AND ARE NOT INTENDED TO BE MODIFIED AS PART OF THE PLANS, THE CONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE PONDS, DRAINAGE STRUCTURES AND SPILLWAYS DURING CONSTRUCTION. ALL PONDS, DRAINAGE STRUCTURES AND SPILLWAYS SHALL BE MAINTAINED IN OPERABLE CONDITIONS AT ALL TIMES. ANY POND OR SPILLWAY AREAS DISTURBED BY THE CONTRACTOR SHALL BE REPAIRED/RESTORED TO THEIR ORIGINAL CONDITION. IF THE POND NEEDS TO BE DISTURBED OR MODIFIED FOR ANY REASON, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO DISTURBANCE.
- 32. MAINTENANCE ACCESS BENCHES: IF MAINTENANCE BENCHES OR ACCESS DRIVES EXIST ON SITE AND ARE NOT INTENDED TO BE MODIFIED AS PART OF THE PLANS, THE CONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE BENCHES OR ACCESS DRIVES DURING CONSTRUCTION. ANY BENCHES OR ACCESS DRIVES DISTURBED BY THE CONTRACTOR SHALL BE REPAIRED/RESTORED TO THEIR ORIGINAL CONDITION. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING BENCHES AND ACCESS DRIVES DURING THE CONSTRUCTION PERIOD. IF ACCESS NEEDS TO BE BLOCKED FOR ANY REASON, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO INTERRUPTION
- 33. NAU TECHNICAL STANDARDS SHALL SUPERSEDE THE PLANS, NOTES AND SPECIFICATIONS UNLESS OTHERWISE APPROVED BY NAU LANDSCAPE ARCHITECT AND LANDSCAPE & OUTDOOR SERVICES DEPARTMENT.

# AMENITIES SCHEDULE

QTY. MATERIAI

| 03 | A. | 10 | BENCH                                  | - MANUFACTURER: LANDSCAPE FORMS - MODEL: 'PARC VUE' BENCH   | - COLOR: "TITANIUM" POWDERCOATED METAL - 72" SURFACE MOUNTED BACKED BENCH WITH ARMS AND CUSTOM SKATEBOARD DETERRENT (PROVIDED BY MANUFACTURER)  |
|----|----|----|--|---|---|
| >  | B. | 1  | ATTACHED TABLE AND<br>CHAIRS (ADA)     | - MANUFACTURER: LANDSCAPE FORMS - MODEL: 42" 'CAROUSEL' TABLE, PERFORATED, DINING HEIGHT WITHOUT UMBRELLA HOLE - 3 SEATS, BACKLESS  | - SEAT/SUPPORT/TOP COLOR: TITANIUM - SURFACE MOUNTING STYLE: CATENA ROUND 42"   |
| >  | C. | 2  | ATTACHED TABLE AND<br>CHAIRS           | - MANUFACTURER: LANDSCAPE FORMS - MODEL: 42" 'CAROUSEL' TABLE, PERFORATED, DINING HEIGHT WITHOUT UMBRELLA HOLE - 4 SEATS, BACKLESS  | - SEAT/SUPPORT/TOP COLOR: TITANIUM - SURFACE MOUNTING STYLE: CATENA ROUND 42"   |
|    | D. | 3  | MOVABLE TABLE                          | - MANUFACTURER: LANDSCAPE FORMS - MODEL: 'CATENA', 42" DIA. STEELHEAD, PERFORATED TABLETOP WITHOUT UMBRELLA HOLE  | - COLOR: TITANIUM POWDERCOATED METAL<br>- FREESTANDING  |
|    | E. | 11 | MOVABLE CHAIRS                         | - MANUFACTURER: LANDSCAPE FORMS<br>- MODEL: 'PARC VUE' 24" SINGLE BACKED BENCH SEAT   | - COLOR: TITANIUM POWDERCOATED METAL<br>- FREESTANDING  |
|    | F. | 4  | BIKE RACKS                             | - MANUFACTURER: MADRAX<br>- MODEL: UT160  | - 4 LOOP, 8 BIKE CAPACITY - PAINT PER NAU STANDARD: MODERN MASTERS ME209 PEWTER. CONTRACTOR SHALL SUBMIT A PAINT SAMPLE FOR APPROVAL            |
|    | G. | 3  | METAL TRASH & RECYCLING<br>RECEPTACLES | - MANUFACTURER: ANOVA<br>- MODEL: 'EXPOSITION' 70 GAL RECEPTACLE/RECYCLER<br>- LABELS: 'MIXED RECYCLING' 'LANDFILL'   | - COLOR: ADVANTAGE FINISH, SLEX TEXTURED<br>CHARCOAL; LABELS IN WHITE LETTERING WITH NO<br>BACKGROUND COLOR<br>- SIDE DOORS, LOW PROFILE FUSION |
|    | Н. | 2  | COLLAPSIBLE BOLLARD                    | <ul> <li>MANUFACTURER: BLUE EMBER TECHNOLOGIES<br/>https://maxiforcebollards.com/</li> <li>MODEL: MAXIFORCE - MCSW-SS3-S w/ STANDARD DUTY<br/>ALUMINUM RELEASE INSERT (BREAKAWAY INSERT)</li> </ul> | - COLOR: BENGAL SILVER DRYLAC 049/99999<br>POWDER COAT<br>SEE DETAIL 5/L-502  |

\*ACTUAL PRODUCT DIFFERS SLIGHTLY FROM IMAGE SHOWN











### MATERIALS SCHEDULE - HARDSCAPE

MATERIALS SCHEDULE - LANDSCAPE

DESCRIPTION

70% 6"-8" ROCK

30% 8"-12" ROCK

1.5" DIAMETER

- DOUBLE SHREDDED (GORILLA HAIR)

FOR PURCHASE FROM NAU FS LOS

- PLANT PER NAU STANDARDS

- PRESERVE EXISTING PONDEROSA PINES WHENEVER

POSSIBLE AND IMPROVE FOREST HEALTH

- PLANT AT 15 GALLON, SINGLE STEM

- PLANT AT 6'-8' HT MIN

- PLANT AT 6'-8' HT MIN

- PLANT AT 6'-8' HT MIN

ROCKY MOUNTAIN JUNIPER | - PLANT AT 8'-10' HT MIN

CRUSHED LIMESTONE FROM ON-SITE STOCKPILE

CRUSHED LIMESTONE FROM ON-SITE STOCKPILE OR

- BOULDERS TO BE FROM ON-SITE STOCKPILE

MATERIAL

CEDAR MULCH

CHANNEL ROCK

SHREDDED WESTERN

LIMESTONE LANDSCAPE

CHOCOLATE ROCK IF

MORE ECONOMICAL)

11. LIMESTONE BOULDERS

(12.) ACER GINNALA 'FLAME'\

13. POPULUS TREMULOIDES

**QUAKING ASPEN** 

14. QUERCUS GAMBELII

GAMBEL OAK

16 PINUS EDULIS

PINYON PINE

17. PINUS PONDEROSA

PONDEROSA PINE

15. JUNIPERUS SCOPULARUM

FLAME AMUR MAPLE

BED (OR 1" ROCK SPRINGS\

|    | MATERIAL                                 | DESCRIPTION   |  |
|----|--|---|--|
| 1. | STANDARD BROOM FINISH<br>CONCRETE PAVING | - BROOM FINISH - STANDARD GRAY CONCRETE (NO PIGMENT)  | - CONCRETE TO MEET NAU STANDARDS - SAW CUT AND BEVELED ON BRIDGE AND IN PLAZA SPACES - TOOLED JOINTS FOR ALL OTHER AREAS - JOINTS $\frac{1}{8}$ " WIDE - JOINTS MUST EXTEND TO A DEPTH OF $\frac{1}{4}$ OF SLAB THICKNESS                          |
| 2. | SAND FINISH CONCRETE                     | - PRODUCT: 'TOP CAST' WITH SURFACE RETARDER BY GRACE CONSTRUCTION PRODUCTS OR LANDSCAPE ARCHITECT APPROVED EQUAL - COVERAGE: $\frac{250}{350}$ SF PER GALLON - CONCRETE TO MEET NAU STANDARDS                       | - CONCRETE TO MEET NAU STANDARDS - RETARDANT REMOVAL PER MANUFACTURER STANDARDS, TYP. WITHIN 6-24 HRS OF APPLICATION TIMING OF REMOVAL DEPENDENT UPON TEMP TO CREATE DESIRED FINISH - STANDARD GRAY CONCRETE (NO PIGMENT) - LIGHT SANDBLAST FINISH |
| 3. | CRUSHER FINES PAVING                     | - \frac{1}{4}" MINUS MADISON GOLD DECOMPOSED GRANITE WITH FINES W/ TACKIFIER - TO BE PLACED 4" THICK TO DETER WEED GROWTH (NO WEED FABRIC)  | - SLOPE AT 1% MIN. TO DRAIN - SURFACE SHALL MEET ADAS 302 REQUIREMENTS   |
| 4. | RETAINING BOULDERS                       | - DRYSTACK LARGE BOULDERS, 18"+ IN LENGTH AND 8"+ IN HEIGHT - CAP: NONE ASI05   | - STONE TO BE FROM ON-SITE STOCKPILE OR FOR PURCHASE FROM NAU FS LOS - SEE DETAILS FOR MORE INFORMATION  |
| 5. | BARRIER FENCE                            | - MATCH FUTS RAILING  | - RAILING MUST BE OFFSET FROM CONCRETE TO<br>BE TREATED WITH MURIATIC ACID AND PEROXIDE<br>TO INDUCE RUSTING AESTHETIC AND THEN<br>SEALED TO PREVENT STAINING OF THE<br>CONCRETE<br>- SEE DETAIL 1/L-502   |
| 6. | VINYL COATED CHAIN<br>LINK FENCE         | - 8' TALL, BLACK, VINYL COATED FENCE TO<br>MATCH EXISTING FENCE AROUND PRACTICE FIELD   | - SEE DETAIL 2/L-502   |
| 7. | MODULAR BLOCK<br>RETAINING WALL          | BELGARD 'TANDEM' WALL AND CAP, COLOR: 'DANVILLE BEIGE'. ALL THREE SOLID UNIT SIZES MAY BE USED (13", 15", 18"). ASHLAR PATTERN UNITS ARE NOT ALLOWED. https://www.belgard.com/products/walls/tandemtm-modular-block | - SEE CIVIL DRAWINGS FOR WALL HEIGHTS. SEE<br>STRUCTURAL DRAWINGS FOR STRUCTURAL<br>INFORMATION. REFER TO MANUFACTURER'S<br>SPECIFICATIONS AND INSTALLATION<br>INSTRUCTIONS.   |

- TO BE PLACED 4" THICK OR 2" THICK PER PLANS

TO DETER WEED GROWTH (NO WEED FABRIC)

- TO BE USED AROUND BUILDING - SEE PLANS

SPRINGS CHOCOLATE ROCK

- EST. MATURE SIZE 20'H X 20'W

- EST. MATURE SIZE 35'H X 15'W

- EST. MATURE SIZE 25'H X 10'W

- EST. MATURE SIZE 30'H X 15'W

- EST. MATURE SIZE 25'H X 15'W

- EST. MATURE SIZE 70'H X 35'W

AT MIN. 6' HEIGHT

- ADDITIONAL PONDEROSA PINES TO BE PLANTED

(ASTM D5312, C568)

- MUST BE EITHER ALL LIMESTONE OR ALL ROCK

ROCK MUST RESIST FREEZE/THAW CONDITIONS

SEE DETAILS FOR MORE INFORMATION

- SEE DETAILS FOR MORE INFORMATION

- 12" DEPTH MIN.

4" DEPTH













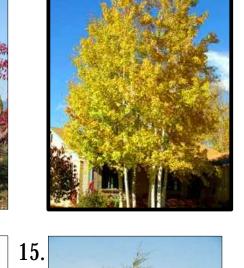


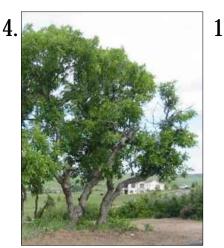




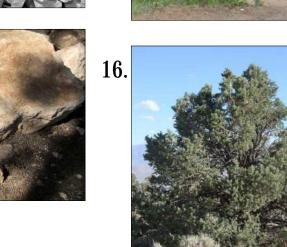
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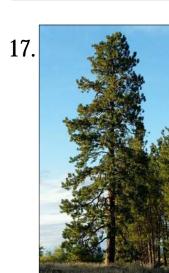
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CONSTRUCTION DOCUMENTS 6.22.2020 Revisions ASI03 9/04/20 TRADES, AHJ REVS. ASI05 10/07/20 TRADES,

Attachment L1 to ASI05 dated 10/07/20

AHJ REVS.

NOTES & **MATERIALS** 

30-19131-00

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Attachment L2 to ASI05 dated 10/07/20

AHJ REVS.

30-19131-00 NOTES & PLANT SCHEDULE

| ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH 2015 NAU LANDSCAPE MASTER PLAN AS WELL AS THE |
|---|
| DIVISION 32 NAU TECHNICAL STANDARDS, AND WITH GENERALLY ACCEPTED ENGINEERING DESIGN AND       |
| CONSTRUCTION PRACTICE. ALL WORK AND MATERIALS WHICH DO NOT CONFORM TO THESE STANDARDS ARE     |
| SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR IS             |
| RESPONSIBLE FOR REVIEWING THESE STANDARDS.  |

THE CONTRACTOR SHALL FOLLOW THE LANDSCAPE PLANS AND SPECIFICATIONS AS CLOSELY AS POSSIBLE ANY SUBSTITUTION OR ALTERATION SHALL NOT BE ALLOWED WITHOUT APPROVAL OF THE OWNER'S REPRESENTATIVE. OVERALL PLANT QUANTITY AND QUALITY SHALL BE CONSISTENT WITH THE PLANS. CONTRACTOR SHALL VERIFY SITE CONDITIONS PRIOR TO WORK.

LANDSCAPE CONTRACTOR TO BE RESPONSIBLE FOR VERIFICATION OF PLANT QUANTITIES. PLANS TAKE -RRECEDENCE QVER QTY'S ON LEGEND.

STOCKPILED CLEAN TOP SOIL FROM ON-SITE SHALL BE PLACED FOR ALL LANDSCAPE AREAS DISTURBED BY CONSTRUCTION. A MINIMUM OF 4" DEPTH IS REQUIRED. IF STOCKPILED TOPSOIL IS UNAVAILABLE CONTRACTOR SHALL SUBMIT SOILS TESTING DEMONSTRATING THAT THE IMPORTED TOPSOIL IS A VIABLE GROWING MEDIUM FOR APPROVAL. SUBMIT SOILS TESTING TO NAU LANDSCAPE ARCHITECT AND LANDSCAPE & OUTDOOR SERVICES DEPARTMENT.

'5.--PRIOR TO INSTALLATION OF PLANT MATERIALS, AREAS THAT HAVE BEÊN COMPACTED OR DISTURBED BY CONSTRUCTION ACTIVITY SHALL BE THOROUGHLY LOOSENED TO A DEPTH OF 6"-8".

6. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING POSITIVE DRAINAGE EXISTS IN ALL LANDSCAPE AREAS. SURFACE DRAINAGE ON LANDSCAPE AREAS SHALL NOT FLOW TOWARDS STRUCTURES AND FOUNDATIONS. MAINTAIN SLOPE AWAY FROM FOUNDATIONS PER THE GEOTECHNICAL REPORT RECOMMENDATIONS. ALL LANDSCAPE AREAS BETWEEN WALKS AND CURBS SHALL DRAIN FREELY TO THE CURB UNLESS OTHERWISE IDENTIFIED ON THE GRADING PLAN. IN NO CASE SHALL THE GRADE, TURF, THATCH, OR OTHER LANDSCAPE MATERIALS DAM WATER AGAINST WALKS, MINIMUM SLOPES ON LANDSCAPE AREAS SHALL BE 2%, MAXIMUM SLOPE SHALL BE 33% UNLESS SPECIFICALLY IDENTIFIED ON THE PLANS OR APPROVED BY THE OWNER'S REPRESENTATIVE.

TREES SHALL NOT BE LOCATED IN DRAINAGE SWALES, DRAINAGE AREAS, OR UTILITY EASEMENTS. CONTACT LANDSCAPE ARCHITECT FOR RELOCATION OF PLANTS IN QUESTIONABLE AREAS PRIOR TO INSTALLATION.

8. PER NAU TECH STANDARDS, LANDSCAPE CONTRACTOR TO GUARANTEE ALL TREES AND IRRIGATION FOR TWO (2) YEARS. ALL OTHER LANDSCAPE ELEMENTS TO BE GUARANTEED FOR ONE (1) YEAR.

9. PRIOR TO PROJECT COMPLETION, LANDSCAPE CONTRACTOR SHALL REMOVE ALL

10. PLANT LAYOUT TO BE APPROVED IN FIELD BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

BE LOCATED TO COORDINATE WITH SITE ELEMENTS.

PRIOR TO INSTALLATION. PROVIDE PLANT DELIVERY TICKET TO NAU LANDSCAPE ARCHITECT. 13. NOTIFY OWNER AND NAU LANDSCAPE ARCHITECT SHOULD SOIL CONDITIONS EXIST WHICH WOULD PREVENT

PROPER SOIL DRAINAGE OR SUBSURFACE ROCK PREVENTS PLANTING IN ANY IMPROVEMENT AREAS.

14. FACE TREES AND SHRUBS TO GIVE THE BEST APPEARANCE OR RELATIONSHIP TO ADJACENT PLANTS OR BUILDINGS. AVOID BRANCHES INTERFERING WITH

15. CAREFULLY REVIEW UTILITY LINES SHOWN ON THE CIVIL ENGINEERING SITE PLANS WHICH REPRESENT THE OWNER'S MOST AVAILABLE (NOT NECESSARILY ACCURATE) DOCUMENTATION. CALL 1-800-STAKE-IT AT LEAST 2 BUSINESS DAYS AHEAD OF SCHEDULED EXCAVATION. WHEN EXCAVATION APPROACHES GAS LINES, EXPOSE LINES BY CAREFULLY PROBING AND HAND DIGGING.

16. ADJACENT SITE IMPROVEMENTS, PAVEMENT CONSTRUCTION, IRRIGATION INSTALLATION AND FINISH GRADING SHALL BE COMPLETED PRIOR TO PLANTING RAKING AND/OR GRADING. PLANTING NEEDS TO OCCUR DURING THE MONTHS THAT IRRIGATION SYSTEMS ARE IN OPERATION, BETWEEN APRIL 1 AND SEPTEMBER 30, UNLESS CONTRACT INCLUDES HAND WATERING.

ACCELERATED GROWTH AS DETERMINED BY THE LANDSCAPE ARCHITECT.

PLANTING PITS TO IMPROVE SOIL STRUCTURE AND NUTRIENT CONTENT. PROVIDE AMENDMENT PRODUCT DATA TO LANDSCAPE ARCHITECT FOR APPROVAL.

22. A ROUTINE NUTRIENT & TEXTURE SOILS ANALYSIS, WITH RECOMMENDATIONS FOR AMENDMENTS FROM A SOILS LAB, IS REQUIRED TO DETERMINE ADDITIONAL ADDITIVES THAT MAY BE REQUIRED FOR SEED, NATIVE GRASS & PLANT ESTABLISHMENT. SUBMIT TO LANDSCAPE ARCHITECT FOR REVIEW.

23. TREE AND SHRUB AND ORNAMENTAL GRASS INSTALLATION: A. SOIL EXCAVATED FROM THE PLANTING PIT SHALL BE TYPICALLY CONSIDERED

ACCEPTABLE AS BACKFILL MATERIAL FOR PLANTING.

C. SET THE ROOT BALL ON SIX (6) INCHES OF FIRM PLANTING SOIL, PLUMB AND IN THE CENTER OF THE PIT WITH THE ROOT BALL CROWN SLIGHTLY ABOVE

THE SAME ELEVATION AS ADJACENT FINISHED LANDSCAPE GRADES. D. ONCE PLANT IS SET, PLACE BACKFILL MATERIAL AROUND BASE AND SIDES OF ROOT BALL AND WORK EACH LAYER TO SETTLE BACK BACKFILL AND

24. PERENNIAL BED INSTALLATION:

A. PRIOR TO PLANTING ACTIVITIES, COMPLETELY REMOVE EXISTING WEEDS, INCLUDING ROOTS. IMMEDIATELY PRIOR TO INSTALLATION, CULTIVATE

BEDS TO A DEPTH OF 12" AND GRADE SMOOTHLY AND UNIFORMLY. PLANT PERENNIALS SO THE ROOT CROWN IS AT OR SLIGHTLY ABOVE THE BED'S FINISH GRADE. INSTALL THE SPECIFIED MULCH 2" DEPTH

25. AT LANDSCAPE COMPLETION, PRUNE DEAD OR DAMAGED BRANCHES, MAKING ALL CUTS AT BRANCH COLLAR. MAINTAIN THE NATURAL HABIT, SHAPE AND SPECIFIED

SIZE. REMOVE ALL TAGS, LABELS, AND OTHER MATERIAL.

26. DURING THE 2 YEAR GUARANTEE PERIOD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAND-WATERING EVERGREEN PLANT MATERIAL AFTER IRRIGATION SYSTEM IS WINTERIZED. EVERGREENS SHALL BE CHECKED BIWEEKLY TO DETERMINE WATER NEEDS, UNLESS THERE IS SNOW ACCUMULATION OR GROUND IS FROZEN.

27. NATIVE SEEDING WORK SHALL BE DONE PER THE FOLLOWING SPECIFICATIONS. A. SEE PLANS FOR SEED AND PLUG SPECIES AND SPACING REQUIREMENTS.

> B. CONTRACTOR TO BE RESPONSIBLE FOR ESTABLISHMENT AND MAINTENANCE OF NATIVE GRASSES, FOR 2 YEARS AFTER DATE OF COMPLETION AND ACCEPTANCE BY OWNER. GRASS AREAS SHALL BE FULL STANDS, 98% WEED FREE. BARE AREAS TO BE OVERSEEDED PRIOR TO PROJECT ACCEPTANCE. HAND REMOVE TO CONTROL INVASIONS UNTIL END OF 1 YEAR WARRANTY PERIOD. (BROADLEAF HERBICIDE MAY BE USED ONLY WITH NAU APPROVAL IF WEED SEED INFESTATION IS PRESENT, FOLLOWING 1ST APPLICATION OF SEEDING.)

C. HAND RAKE NATIVE SEED AREAS TO DISTURB SOIL PRIOR TO SEEDING OPERATIONS. HYDROSEED MIX TO INCLUDE NATIVE SEED MIX AS SPECIFIED, WOOD FIBER MULCH, PLANT CELLULOSE-BASED TACKIFIER (PLANTAGO OR EQUAL), AND 3-2-1 ORGANIC FERTILIZER AT A RATE OF 1.5 LB NITROGEN/1000 S.F.. IN SMALL AREAS WHERE HYDROSEEDING IS NOT PRACTICAL, TREAT WITH  $\frac{1}{2}$  LAYER OF ORGANIC MATTER RAKED INTO TOP 2" OF DISTURBED SOIL, COVER WITH 1" LAYER OF ORGANIC MULCH AFTER SEEDING. APPLY 3-2-1 FERTILIZER WATERED IN.

D. SUBMIT SEEDING OPERATIONS AND GRASS PLUG PLANTING SCHEDULE TO LANDSCAPE ARCHITECT FOR APPROVAL. IF SEEDING/PLANTING OPERATIONS DO NOT OCCUR DURING JULY AND AUGUST 2017 WHEN NATURAL MONSOON MOISTURE AND WARM TEMPERATURES ARE PRESENT, HAND WATERING AND/OR A TURF-TYPE ANNUAL RYE NURSE CROP MAY BE REQUIRED. HAND WATERING FREQUENCY REQUIRED WOULD BE 3 TIMES PER WEEK FOR MONTH TO ROOT IN PLUGS AND GERMINATE SEED IF MONSOONS ARE NOT ACTIVE WITH SUFFICIENT MOISTURE.

| PLANT SCHEDULE   |   |   |                                 |                          |        |              |        |   | TALLGRASS MEADOW   | V SEED & PLU                                | G MIX  |                                     |                    |                     |                             |            |
|--|---|---|---------------------------------|--------------------------|--------|--------------|--------|---|--|---|--|-------------------------------------|--------------------|---------------------|-----------------------------|------------|
| SYM.   | GENUS & SPECIES<br>COMMON NAME                                  | QTY   | PLANTING<br>SIZE                | ESTIMATED<br>MATURE SIZE | NATIVE | WATER<br>USE | SPACIN | © SEASONAL<br>INTEREST                                  | SYM.   | COMMON NAME                                 | GENUS & SPECIES  | PERCENT OF COMPOSITION              | HEIGHT             | DROUGHT<br>TOLERANT | WARM/COOL<br>SEASON         | SPACINO    |
| DECIDUOUS TREES  | <u> </u>  |   | 1.5" CALIPER,                   |                          |        |              |        |   | TALLGRASS MEADOW - SEED  | MIX Blue Grama                              | Bouteloua gracillas  | 40%                                 | 12"-16"            | X                   | WARM                        | N/A        |
|  | Acer ginnala 'Flame'  ASI03                                     |   | 8' HEIGHT                       | 18' H X 18' W            | Y      | T            | N/A    | $\left( \right)$ S,F $\left( \right)$                   |  | Pine Dropseed Side Oats Grama               | Blepharoneuron trichloepis Bouteloua curtipendula          | 10%<br>15%                          | 36"<br>16"-40"     | v                   | WARM<br>WARM                | N/A        |
| March of the second  | Amur Maple  |   | B&B SINGLE<br>STEM              | 10 11 11 10 11           | A      | L            | 11/11  |   |  | Arizona Fescue                              | Festuca arizonica  | 10%                                 | 30"-50"            | Λ                   | COOL                        | N/A<br>N/A |
|  | Populus tremuloides (   | > 23  | 1.5" CALIPER                    | 50' H X 15' W            | X      | M            | N/A    | S,F,W   | · I  | Prairie Junegrass Deergrass                 | Koeleria macrantha<br>Muhlenbergia rigens                  | 10%<br>10%                          | 8"-28"<br>12"-24"  | X                   | COOL<br>WARM                | N/A<br>N/A |
|  | Quaking Aspen   | >   | 8' HEIGHT, B&B<br>SINGLE-STEM   |                          |        |              |        | $\setminus$ (   | \  | Switchgrass                                 | Panicum virgatum   | 5%                                  | 24"-60"            | X                   | WARM                        | N/A        |
|  | Quercus gambelii  | 4   | 6' HEIGHT, B&B                  | 25' H X 10' W            | X      | L            | N/A    | $\left( \left  \right  \right  $ S,F,W $\left( \right)$ | TALLGRASS MEADOW - PLUGS   | S   |  |                                     | MATURE<br>SIZE     | WATER<br>USE        | SEASONAL<br>INTEREST        |            |
| San de la companya de | Gambel Oak  |   | MULTI-STEM                      |                          |        |              |        |   |  | Arizona Fescue**<br>Western Yarrow          | Festuca arizonica Achillea millefolium 'Lanulosa'          | 50% (1,405 total)<br>5% (140 total) | 12"x12"<br>12"x24" | L                   | Spr./Sum./Fall Sum./Fall    | 18"<br>18" |
| EVERGREEN TREES  | \<br>   | > <   | \<br>\                          |                          |        |              |        |   | /  | Native Blanket Flower                       | Gaillardia aristata  | 5% (141 total)                      | 18"x18"            | L                   | Sum./Fall<br>Sum./Fall      | 18"<br>18" |
| 3 <sup>3</sup> • 4   | Juniperus scopularum<br>Rocky Mountain Juniper                  | > 4   | 6'-8' HT MIN.<br>PER PLAN, B&B  | 30' H X 15' W            | X      | L            | N/A    | E (   | <i>)</i>   | Scarlet Gilia<br>Blue Flax                  | Ipomopsis aggregata Linum perenne                          | 5% (140 total)<br>5% (141 total)    | 35"x12"<br>24"x24" | L-M                 | Spr./Sum.                   | 18"        |
| Millimini Adam Andrews Committee Com |   |   |                                 |                          |        |              | ı      |   | \  | Purple Aster<br>Bee-Balm                    | Machaeranthera canescens<br>Monarda fistulosa menthaefolia | 5% (140 total)<br>5% (141 total)    | 24"x24"<br>24"x24" | L-M                 | Sum./Fall<br>Sum.           | 18"<br>18" |
|  | Pinus edulis<br>Pinyon Pine                                     | 4   | 6'-8' HT MIN.<br>PER PLAN, B&B  | 25' H X 15' W            | X      | L            | N/A    | E   | \  | Scarlet Bugler<br>Firecracker Penstemo      | Penstemon barbatus n Penstemon eatonii                     | 5% (140 total)<br>5% (141 total)    | 24"x18"<br>24"x24" | L<br>I.             | Sum./Fall<br>Sum.           | 18"<br>18" |
| MW 42  |   | >   | ,,                              |                          |        |              |        |   |  | Rocky Mountain Pens<br>Few-Flowered Golden  |  | 5% (140 total)<br>5% (141 total)    | 24"x24"<br>24"x24" | L                   | Sum.<br>Sum./Fall           | 18"<br>18" |
| $\frac{1}{2}$ + $\frac{2}{2}$  | Pinus ponderosa<br>Ponderosa Pine                               | > 4 <   | 8'-10' HT MIN.<br>PER PLAN, B&B | 80' H X 30' W            | X      | L            | N/A    | ( E   | 1. Tallgrass meadow seed mix to                                      | be seeded at 10 lbs/a                       |  | 2,810 Total Plugs                   | 24 A24             | L                   | Sum/ran                     | 10         |
| 3  | T Underosa T ine  |   | ) LICI LAIV, D&D                |                          |        |              |        |   | seed supplier based on percentag  2. All plugged areas shall be hydr | ge of mix listed.<br>roseeded with the Tall | lgrass Meadow Seed Mix prior to                            |                                     |                    |                     |                             |            |
| DECIDUOUS SHRUBS   | <u> </u>  | >   |                                 |                          |        |              |        |   | plugging.  3 See detail 6/L-503 for plug plan                        |   |  | ASI05                               |                    |                     |                             |            |
| BEGEGGS SINGES   | Amelanchier alnifolia   | > 22 <  | 15-GALLON                       | 15' H X 8' W             |        | L            | 8'     | SP,S,F  | / /5. Arizona Fescue plugš may bė p                                  | purchased through NA                        | AU, contact NAU Landscape                                  |                                     |                    |                     |                             |            |
|  | Saskatoon Serviceberry Comus sericea 'Arctic FIre'              | > 18 <  | 4' HEIGHT<br>5-GALLON           | 3' H X 3' W              |        | M            | 3'     | S,F,W   | Architect to coordinate growing tire to the site.                    |   | poilsible for pickup and delivery                          |                                     |                    |                     |                             |            |
|  | Arctic Fire Dogwood Holodiscus dumosus                          | ~ ~ ~   | )                               |                          | X      | T            | 5'     | S,F   | 4. Tallgrass meadow seed area: 1 5. Tallgrass meadow plug area: 5    |   |  |                                     |                    |                     |                             |            |
| ÇĴ   | Mountain Spray  | > / <   | 5-GALLON                        | 6' H X 6' W              |        | L            | J      |   | SHORT MEADOW SEE   |   | <b>(</b>   |                                     |                    |                     |                             |            |
| $\langle \cdot \rangle$  | Lonicera involucrata Twinberry Honeysuckle                      | > 28 <  | 5-GALLON                        | 4' H X 5' W              | X      | M            | 5'     | S,F (   |  | COMMON NAME                                 | GENUS & SPECIES  | DEDCEMA OF                          | ПЕІСти             | DDOUGUE             | WADMICOOL                   | CDACINIC   |
|  | Philadelphus microphyllus Littleleaf Mockorange                 | > 22 <  | 5-GALLON                        | 4' H X 4' W              | X      | L            | 4'     | S,F (   | )  |   | GENOS & STECIES  | PERCENT OF COMPOSITION              | HEIGHT             | TOLERANT            | WARM/COOL<br>SEASON         | SPACIN     |
| ∧ <b>⇔</b>   | Potentilla fruticosa (  | 49  | 5-GALLON                        | 3' H X 3' W              | X      | M            | 3'     | S   | SHORT MEADOW - SEED MIX  | Blue Grama                                  | Bouteloua gracillas  | 40%                                 | 12"-16"            | X                   | WARM                        | N/A        |
| ASI03  | Shrubby Cinquefoil (yellow) Potentilla fruticosa 'McKays White' | >   | 5-GALLON                        | 3' H X 3' W              | X      | M            | 3'     | S   |  | Idaho Blue Fescue Sheep's Fescue            | Festuca idahoensis<br>Festuca ovina                        | 10%<br>10%                          | 15"-16"<br>6-12"   | X                   | COOL<br>COOL                | N/A<br>N/A |
|  | McKays White Shrubby Cinquefoil  Prunus besseyi Pawnee Buttes   | 10  | 5-GALLON                        | 2' H X 4' W              |        | T            | 4'     | SP,S,F  | /  | Mountain Muhly<br>Mutton Grass              | Muhlenbergia montana<br>Poa fendleriana                    | 10%<br>10%                          | 9"-18"<br>12"-24"  | X                   | WARM<br>COOL                | N/A<br>N/A |
|  | Creeping Sand Cherry Rhus trilobata                             | > 10  | /                               |                          | V      | T            | - (    |   | \ <b>I</b>   | Sand Dropseed                               | Sporobolus crytandrus                                      | 10%                                 | 11"-40"            | X                   | WARM                        | N/A        |
|  | Three-leaf Sumac  | 34  | 5-GALLON                        | 5' H X 5' W              | X      | L            | 5'     | S,F   | SHORT MEADOW - PLUGS   |   |  |                                     | MATURE<br>SIZE     | WATER<br>USE        | SEASONAL<br>INTEREST        |            |
|  | Ribes aureum<br>Golden Currant                                  | > 5 <   | 5-GALLON                        | 5' H X 5' W              |        | L            | 5'     | SP,S,F\   |  | Blue Grama<br>Western Yarrow                | Bouteloua gracillas Achillea millefolium 'Lanulosa'        | 50% (572 total)<br>8% (91 total)    | 12"x16"<br>12"x24" | L                   | Spr./Sum./Fall<br>Sum./Fall | 12"<br>12" |
| <b>©</b>   | Ribes cereum Wax Currant  | > 16 $<$  | 5-GALLON                        | 3' H X 3' W              | X      | L            | 3'     | S,F (   |  | Paintbrush                                  | Castillaja integra   | 7% (80 total)                       | 12"x12"            | L-M                 | Spr./Sum./Fall              | 12"        |
| $\odot$  | Rosa woodsii<br>Woods Rose                                      | > 43 <  | 5-GALLON                        | 4' H X 4' W              | X      | L            | 4'     | S   | shall receive plugs)   | Native Blanket Flower Blue Flax             | Linum perenne  | 7% (80 total)<br>7% (80 total)      | 18"x18"<br>24"x24" | L-M                 | Sum./Fall<br>Spr./Sum.      | 12"        |
| $\oplus$   | Symphoricarpos oreophilus                                       | 52  | 5-GALLON                        | 3' H X 3' W              | X      | L            | 3'     | S,W   |  | Purple Aster Coyote Mint                    | Machaeranthera canescens<br>Monardella odoratissima        | 7% (80 total)<br>7% (80 total)      | 24"x24"<br>12"x12" | L<br>L              | Sum./Fall<br>Sum./Fall      | 12"<br>12" |
|  | Mountain Snowberry Syringa x bloomerang                         | >   | 5-GALLON                        | 4' H X 4' W              |        | M            | 4'     | SP,S  | \  |   | wer Ratibida columnifera ; obtain seeding rates from seed  | 7% (80 total)<br>1,143 Total Plugs  | 24"x24"            | L                   | Sum./Fall                   | 12"        |
| EVERGREEN SHRUBS   | Bloomerang Purple Lilac   |   | \                               |                          |        |              |        |   | supplier based on percentage of i                                    | mix listed.                                 | the Short Meadow Seed Mix prior                            | , 8                                 |                    |                     |                             |            |
| <u></u>  | Chamaebatiaria millefolium                                      | > 24 <  | 5-GALLON                        | 5' H X 6' W              | X      | L            | 5'     | E   | ) to plugging.   | J   | me Short Meadow Seed Mix phor                              | ASI05                               |                    |                     |                             |            |
|  | Fembush Juniperus communis                                      | 35  | 5-GALLON                        | 3' H X 5' W              | X      | L            | 6'     | E   | 3 See detail 7/L-503 for plug plan 5. Blue Grama plugs may be pure   | chaseď through NAU,                         |  | <u> </u>                            |                    |                     |                             |            |
| tuto.  | Common Juniper Juniperus horizontalis 'Blue Chip'               | 25  | 5-GALLON                        | 1' H X 6' W              |        | T            | 5' /   | E   | Architect to coordinate growing ting to the site.                    |   | ponsible for pickup and delivery                           |                                     |                    |                     |                             |            |
| ASI03  | Blue Chip Juniper  Mahonia aquifolium 'Compacta'                | > <   |                                 |                          |        |              | 91     | E   | 4. Short meadow area: 990sf (.02                                     | 2ac)  |  |                                     |                    |                     |                             |            |
| $\bigvee \otimes$  | Compact Oregon Grape Holly                                      | 23  | 5-GALLON                        | 3' H X 4' W              |        | L            | 3 (    | E   | ) <u>RIPARIAN GRASS BLE</u>  | END FOR PLD                                 | BASIN (SEASONAL MO   | ISTURE)                             |                    |                     |                             |            |
| 0  | Pinus mugo 'Skowmound' Slowmound Mugo Pine                      | 22  | 5-GALLON                        | 3' H X 3' W              |        | L            | 3'     | E   | SYM.   | COMMON NAME                                 | GENUS & SPECIES  | PERCENT OF                          | HEIGHT             | DROUGHT             | WARM/COOL                   | SPACINO    |
| ORNAMENTAL GRASS   | Muhlenbergia rigens   | 0   | 1-GALLON                        | 4' H X 3' W              | v      | T            | 91     | S,F,W   | RIPARIAN GRASS BLEND - SEI   | EED MIX                                     |  | COMPOSITION                         |                    | TOLERANT            | SEASON                      |            |
| **   | Deer Grass Sorghastrum nutans                                   | >   |                                 |                          | Λ      |              | 3 (    | \   | ·  | Blue Grama<br>Arizona Fescue                | Bouteloua gracillas<br>Festuca arizonica                   | 40%<br>20%                          | 12"-16"<br>30"-50" | X                   | WARM<br>COOL                | N/A<br>N/A |
| O  | Indian Grass  | > <   | ) 1-GALLON                      | 4' H X 3' W              | X      | L            | 2 (    | S,F,W   | )  | Deergrass                                   | Muhlenbergia rigens  | 20%                                 | 12"-24"<br>24"     |                     | WARM<br>WARM                | N/A        |
| 0  | Sporobolus airpodes<br>Alkali Sacaton                           | 54  | 1-GALLON                        | 3' H X 2' W              | X      | L            | 2'     | S,F   |  | Spiked Muhly                                | Muhlenbergia wrightii                                      | £U70                                | <b>44</b>          |                     | VVAINIVI                    | N/A        |
| PERENNIALS & GROUNDCOV   | VERS Achillea millefolium 'Lanulosa'                            | <u>&gt;                                    </u> | 1-GALLON                        | 12" H X 24" W            | Y      | ī            | 18" (  | S,F (   | PLANT SELECTION: I   | <u>DECIDUOUS V</u>                          | S EVERGREEN  |                                     |                    |                     |                             |            |
| ASI03 WY   | Western Yarrow Agastache rupestris                              | > 23 <<br>15                                    |                                 |                          | v      | T            | `      |   | PLANT TYPE   | QTY % OF T                                  | REES % OF SHRUBS % OF                                      | PER.                                |                    |                     |                             |            |
| •SH \  | Sunset Hyssop   | > 10  | 1-GALLON                        | 24" H X 24" W            | X      | L            | 24" (  | S,F   | Deciduous Trees  | 34 749                                      |  | ·                                   |                    |                     |                             |            |
| <b>●LP</b>   | Antennaria parvifolia<br>Littleleaf Pussytoes                   | 17  | 1-GALLON                        | 3" H X 12" W             |        | L            | 12" (  | E   | Evergreen Trees  Deciduous Shrubs                                    | 331 -                                       |  |                                     |                    |                     |                             |            |
| > •GC <  | Aquilegia chrysantha Golden Columbine                           | 20  | 1-GALLON                        | 24" H X 18" W            | X      | M            | 18"    | SP,S  | Evergreen Shrubs   | 129 -                                       | 72%<br>28%   |                                     |                    |                     |                             |            |
| ( »KN  | Arctostaphylos uva-ursi   | 13  | 1-GALLON                        | 6" H X 36" W             | X      | L            | 18"    | E   | Deciduous Perennials   | 168 -                                       |  | %                                   |                    |                     |                             |            |
| ( a A F  | Kinnikinnick Erigeron sp.                                       | > 22 <  | 1-GALLON                        | 12" H X 24" W            | X      | L            | 18"    | S   | Evergreen Perennials   | 110 -                                       | - 65   | %                                   |                    |                     |                             |            |
|  | Aspen Fleabane Fragaria ovalis                                  | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \           | 1-GALLON                        | LOW SREADING             |        | M            | 18"    | SP,S,F  | )  | Omy, or s                                   |  |                                     |                    |                     |                             |            |
| •WS  | Wild Strawberry   | `   |                                 |                          | Λ      | 171          |        |   | PLANT TYPE   | QTY % OF T                                  |  |                                     |                    |                     |                             |            |
| <b>●BF</b>   | Gaillardia aristata<br>Native Blanket Flower                    | > 25 <  | 1-GALLON                        | 18" H X 18" W            | X      | L            | 18" \  | S,F   | Deciduous Plants (Total)  Evergreen Plants (Total)                   | 533 689<br>251 329                          |  |                                     |                    |                     |                             |            |
| ( •PS  | Geum triflorum<br>Prairie Smoke                                 | > 15 <  | 1-GALLON                        | 4" H X 12" W             |        | L            | 12" (  | E   | ) Logical Land (10tal)   | 367   | <u>-</u>   |                                     |                    |                     |                             |            |
| > oCB <  | Heuchera sanguineum 'Splendens'                                 | 17  | 1-GALLON                        | 12" H X 12" W            | X      | M            | 15" (  | ALL   |  |   |  |                                     |                    |                     |                             |            |
| > eEC <  | Red Coral Bells Iberis sempervirens                             | 21  | 1-GALLON                        | 12" H X 18" W            |        | L            | 18"    | E   |  |   |  |                                     |                    |                     |                             |            |
|  | Evergreen Candytuft Lithospermum multiflorum                    | 17  | 1-GALLON                        | 12" H X 24" W            | X      | T            | 18"    | S   |  |   | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\                     |                                     | <b>\</b>           |                     |                             |            |
| (  | Pretty Stoneseed  | <b>)</b>  | )                               |                          | Λ<br>  | L            | (      |   |  |   |  |                                     |                    |                     |                             |            |
| <b>&gt;</b> ●MA ✓  | Mahonia repens<br>Creeping Mahonia                              | 11  | 1-GALLON                        | 12" H X 24" W            | X      | L            | 18"    | E   |  |   |  |                                     |                    |                     |                             |            |
| ◆ °CM →  | Monardella odoratissima<br>Coyote Mint                          | > 25 <  | 1-GALLON                        | 12" H X 12" W            | X      | L            | 12"    | S,F   | /<br>\   |   |  |                                     |                    |                     |                             |            |
| ( •PP )  | Penstemon pinifolius Pineleaf Penstemon                         | 16  | 1-GALLON                        | 12" H X 24" W            | X      | L            | 18" (  | ALL   |  |   |  |                                     |                    |                     |                             |            |
|  | Total Perennia  | als: 278  |                                 | <u> </u>                 |        | 1            | Sea    | asonal Interest   |  |   |  |                                     |                    |                     |                             |            |
| -  |   |   | /^                              |                          |        |              | ( CD   | = Spring  |  |   |  |                                     |                    |                     |                             |            |

|                                       | •   |                       |                       |                        |         | _                   |                     | _       |
|---------------------------------------|---|-----------------------|-----------------------|------------------------|---------|---------------------|---------------------|---------|
| SYM.                                  | COMMON NAME                                   | GENUS &               | SPECIES               | PERCENT OF COMPOSITION | HEIGHT  | DROUGHT<br>TOLERANT | WARM/COOL<br>SEASON | SPACING |
| TALLGRASS MEADOW - SEE                | D MIX   |                       |                       |                        |         |                     |                     |         |
|                                       | Blue Grama                                    | Bouteloua             | gracillas             | 40%                    | 12"-16" | X                   | WARM                | N/A     |
| \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | Pine Dropseed                                 | Blepharon             | euron trichloepis     | 10%                    | 36"     |                     | WARM                | N/A     |
| · · · · · · · · · · · · · · · · · · · | Side Oats Grama                               | Bouteloua             | curtipendula          | 15%                    | 16"-40" | X                   | WARM                | N/A     |
| \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | Arizona Fescue                                | Festuca ar            | rizonica              | 10%                    | 30"-50" |                     | COOL                | N/A     |
|                                       | Prairie Junegrass                             | Koeleria m            | nacrantha             | 10%                    | 8"-28"  | X                   | COOL                | N/A     |
|                                       | Deergrass                                     | Muhlenber             | 0 0                   | 10%                    | 12"-24" |                     | WARM                | N/A     |
|                                       | Switchgrass                                   | Panicum v             | virgatum –            | 5%                     | 24"-60" | X                   | WARM                | N/A     |
|                                       |   |                       |                       |                        | MATURE  | WATER               | SEASONAL            |         |
| TALLGRASS MEADOW - PLU                | GS  |                       |                       |                        | SIZE    | USE                 | INTEREST            |         |
|                                       | Arizona Fescue**                              | Festuca ar            | rizonica              | 50% (1,405 total)      | 12"x12" | L                   | Spr./Sum./Fall      | 18"     |
|                                       | Western Yarrow                                | Achillea m            | illefolium 'Lanulosa' | 5% (140 total)         | 12"x24" | L                   | Sum./Fall           | 18"     |
|                                       | Native Blanket Flower                         | Gaillardia a          | aristata              | 5% (141 total)         | 18"x18" | L                   | Sum./Fall           | 18"     |
|                                       | Scarlet Gilia                                 | Ipomopsis             | aggregata             | 5% (140 total)         | 35"x12" | L                   | Sum./Fall           | 18"     |
|                                       | Blue Flax                                     | Linum pere            |                       | 5% (141 total)         | 24"x24" | L-M                 | Spr./Sum.           | 18"     |
|                                       | Purple Aster                                  | Machaerai             | nthera canescens      | 5% (140 total)         | 24"x24" | L                   | Sum./Fall           | 18"     |
|                                       | Bee-Balm                                      | Monarda fi            | istulosa menthaefolia | 5% (141 total)         | 24"x24" | L-M                 | Sum.                | 18"     |
|                                       | Scarlet Bugler                                | Penstemo              | n barbatus            | 5% (140 total)         | 24"x18" | L                   | Sum./Fall           | 18"     |
|                                       | Firecracker Penstemon                         | Penst                 | temon eatonii         | 5% (141 total)         | 24"x24" | L                   | Sum.                | 18"     |
|                                       | Rocky Mountain Penste                         | emon   Penst          | temon strictus        | 5% (140 total)         | 24"x24" | L                   | Sum.                | 18"     |
|                                       | Few-Flowered Goldenro                         | od Solida             | ago sparsiflora       | 5% (141 total)         | 24"x24" | L                   | Sum./Fall           | 18"     |
| 1. Tallgrass meadow seed mix t        | o be seeded at 10 lbs/ac                      | re; obtain se         | eeding rates from     | 2,810 Total Plugs      |         |                     |                     |         |
| seed supplier based on percent        | age of mix listed.                            |                       | O                     | 0                      |         |                     |                     |         |
| 2. All plugged areas shall be hy-     | droseeded with the Tallg                      | rass Meadov           | w Seed Mix prior to   |                        |         |                     |                     |         |
| plugging.                             |   |                       | •                     | ACTOR                  |         |                     |                     |         |
| 3 See detail 6/L-503 for plug pl      | ant <del>sp</del> acin <del>g de</del> tails. |                       |                       | <u>AŚIÒ5</u>           |         |                     |                     |         |
| 5. Arizona Fescue plugs may be        | e purchased through NAI                       | U, contact N <i>A</i> | AŬ Landscape          |                        |         |                     |                     |         |
| Architect to coordinate growing       |   |                       |                       |                        |         |                     |                     |         |
| to the site.                          |   |                       |                       |                        |         |                     |                     |         |
| 4. Tallgrass meadow seed area         | : 17,800sf (.41ac)                            |                       |                       |                        |         |                     |                     |         |

| SHORT MEADOW SE             | ED & PLUG MIX         |                                 |                        |                |                     |                      |         |
|-----------------------------|-----------------------|---------------------------------|------------------------|----------------|---------------------|----------------------|---------|
| SYM.                        | COMMON NAME           | GENUS & SPECIES                 | PERCENT OF COMPOSITION | HEIGHT         | DROUGHT<br>TOLERANT | WARM/COOL<br>SEASON  | SPACING |
| SHORT MEADOW - SEED MIX     |                       |                                 |                        |                |                     |                      |         |
|                             | Blue Grama            | Bouteloua gracillas             | 40%                    | 12"-16"        | X                   | WARM                 | N/A     |
|                             | Idaho Blue Fescue     | Festuca idahoensis              | 10%                    | 15"-16"        | X                   | COOL                 | N/A     |
|                             | Sheep's Fescue        | Festuca ovina                   | 10%                    | 6-12"          | X                   | COOL                 | N/A     |
|                             | Mountain Muhly        | Muhlenbergia montana            | 10%                    | 9"-18"         | X                   | WARM                 | N/A     |
|                             | Mutton Grass          | Poa fendleriana                 | 10%                    | 12"-24"        | X                   | COOL                 | N/A     |
|                             | Sand Dropseed         | Sporobolus crytandrus           | 10%                    | 11"-40"        | X                   | WARM                 | N/A     |
| SHORT MEADOW - PLUGS        |                       |                                 |                        | MATURE<br>SIZE | WATER<br>USE        | SEASONAL<br>INTEREST |         |
|                             | Blue Grama            | Bouteloua gracillas             | 50% (572 total)        | 12"x16"        | L                   | Spr./Sum./Fall       | 12"     |
|                             | Western Yarrow        | Achillea millefolium 'Lanulosa' | 8% (91 total)          | 12"x24"        | L                   | Sum./Fall            | 12"     |
|                             | Paintbrush            | Castillaja integra              | 7% (80 total)          | 12"x12"        | L-M                 | Spr./Sum./Fall       | 12"     |
| (all short grass seed areas | Native Blanket Flower | Gaillardia aristata             | 7% (80 total)          | 18"x18"        | L                   | Sum./Fall            | 12"     |
| shall receive plugs)        | Blue Flax             | Linum perenne                   | 7% (80 total)          | 24"x24"        | L-M                 | Spr./Sum.            | 12"     |
| F0-/                        | Purple Aster          | Machaeranthera canescens        | 7% (80 total)          | 24"x24"        | L                   | Sum./Fall            | 12"     |
|                             | Coyote Mint           | Monardella odoratissima         | 7% (80 total)          | 12"x12"        | L                   | Sum./Fall            | 12"     |
|                             | Mexican Hat Coneflowe | r Ratibida columnifera          | 7% (80 total)          | 24"x24"        | L                   | Sum./Fall            | 12"     |

| RI | PARIAN GRASS BL         | END FOR PLD I  | BASIN (SEASONAL M     | MOISTURE)              |         |                     |                     |         |
|----|-------------------------|----------------|-----------------------|------------------------|---------|---------------------|---------------------|---------|
|    | SYM.                    | COMMON NAME    | GENUS & SPECIES       | PERCENT OF COMPOSITION | HEIGHT  | DROUGHT<br>TOLERANT | WARM/COOL<br>SEASON | SPACING |
| R  | PARIAN GRASS BLEND - SI | EED MIX        |                       |                        |         |                     |                     |         |
|    |                         | Blue Grama     | Bouteloua gracillas   | 40%                    | 12"-16" | X                   | WARM                | N/A     |
|    |                         | Arizona Fescue | Festuca arizonica     | 20%                    | 30"-50" |                     | COOL                | N/A     |
|    |                         | Deergrass      | Muhlenbergia rigens   | 20%                    | 12"-24" |                     | WARM                | N/A     |
|    | <u> </u>                | Spiked Muhly   | Muhlenbergia wrightii | 20%                    | 24"     |                     | WARM                | N/A     |

### PLANT SELECTION: DECIDIOUS VS EVERCREEN

| LANT SELECTION: DECIDOUS VS EVERGREEN |     |            |             |           |  |  |  |
|---------------------------------------|-----|------------|-------------|-----------|--|--|--|
| PLANT TYPE                            | QTY | % OF TREES | % OF SHRUBS | % OF PER. |  |  |  |
| Deciduous Trees                       | 34  | 74%        | -           | -         |  |  |  |
| Evergreen Trees                       | 12  | 26%        | -           | -         |  |  |  |
| Deciduous Shrubs                      | 331 | -          | 72%         | -         |  |  |  |
| Evergreen Shrubs                      | 129 | -          | 28%         | -         |  |  |  |
| Deciduous Perennials                  | 168 | -          | -           | 35%       |  |  |  |
| Evergreen Perennials                  | 110 | -          | -           | 65%       |  |  |  |

| PLANT TYPE              | QTY | % OF TOTAL |
|-------------------------|-----|------------|
| eciduous Plants (Total) | 533 | 68%        |
| vergreen Plants (Total) | 251 | 32%        |

LANDSCAPE NOTES:

CONSTRUCTION DEBRIS FROM SITE AND PERFORM FINAL RAKING AND WEEDING.

11. REPORT PLANT PLACEMENT CONFLICTS TO LANDSCAPE ARCHITECT. PLANTS TO 12. ALL SUBSTITUTIONS IN PLANT TYPE, LOCATION, OR SIZE SHALL BE APPROVED BY NAU LANDSCAPE ARCHITECT

SIDEWALKS AND LIMB UP ANY REMAINING BRANCHES OVERHANGING WALKS.

WORK. DO NOT PLANT WHEN CONDITIONS ARE NOT SUITABLE FOR DIGGING, MIXING,

17. ALL PLANTING BED AREAS TO RECEIVE MULCH PER MATERIALS SCHEDULE AND LANDSCAPE PLAN 18. ALL EVERGREEN TREES SHALL BE FULLY BRANCHED TO THE GROUND AND SHALL NOT EXHIBIT SIGNS OF

19. STAKE AND GUY TREES 3" CALIPER AND 6' HEIGHT OR LARGER FOR A PERIOD OF ONE YEAR. NAU SHALL REMOVE STAKES. 20. ALL TREES IN SEEDED AREAS SHALL RECEIVE SHREDDED CEDAR MULCH OR PINE NEEDLE RINGS. 21. PROVIDE 50% ORGANIC MATTER/IMPORTED TOPSOIL AND NATIVE SOIL IN ALL

B. ALL CONTAINERS SHALL BE REMOVED PRIOR TO PLANT INSTALLATION IN A MANNER THAT DOES NOT DISTURB THE POTTED SOIL OR ROOT BALL.

ELIMINATE VOIDS.

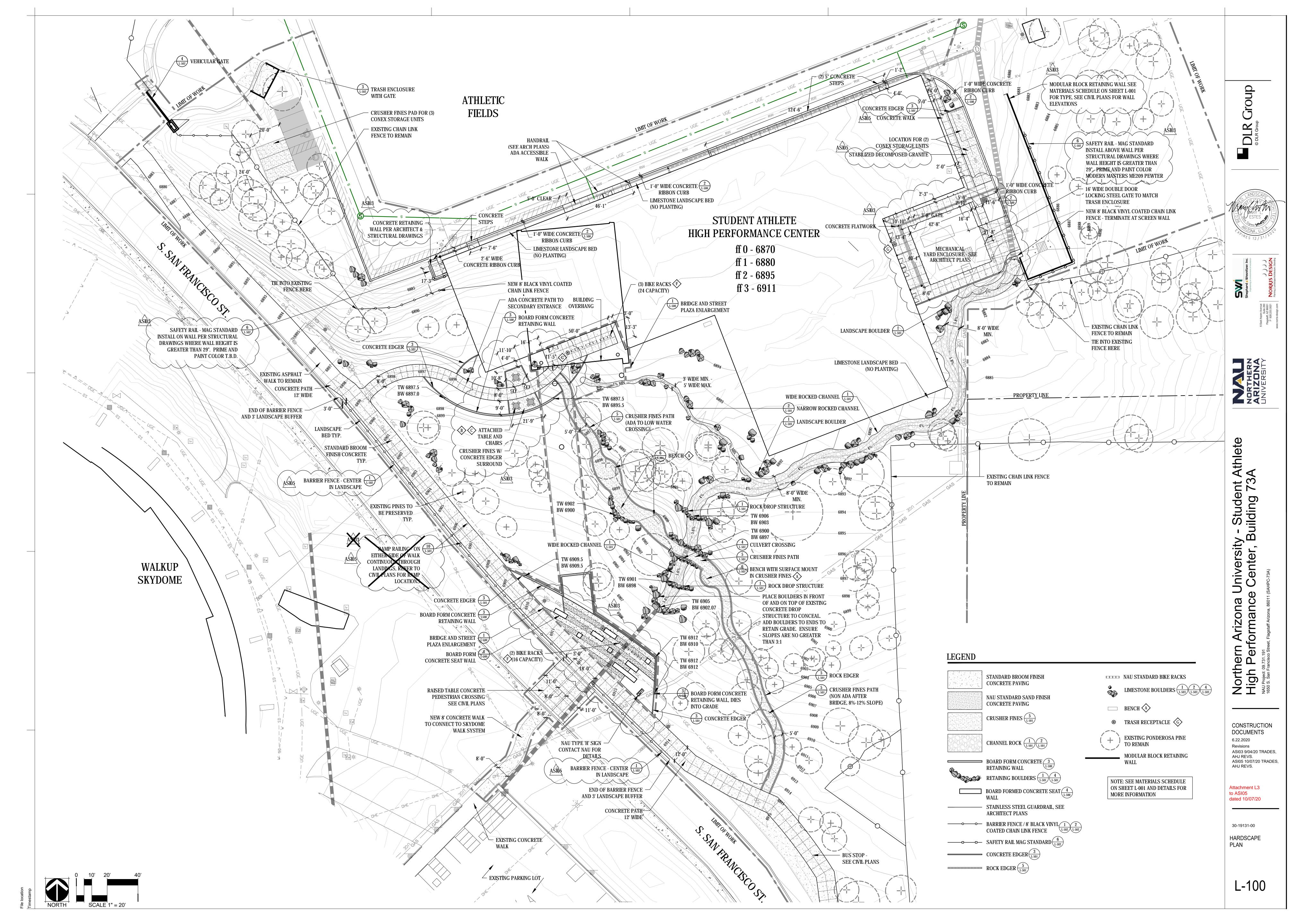
AT THE ROOTBALL AND 4" DEPTH OVER THE ENTIRE BED.

SP = Spring

> S = Summer F = Fall

√ W = Winter

E = Evergreen





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University - Student Athlete Center, Building 73A

CONSTRUCTION DOCUMENTS

6.22.2020 Revisions ASI03 9/04/20 TRADES, AHJ REVS. ASI05 10/07/20 TRADES, AHJ REVS.

Attachment L4 to ASI05 dated 10/07/20

30-19131-00 LANDSCAPE











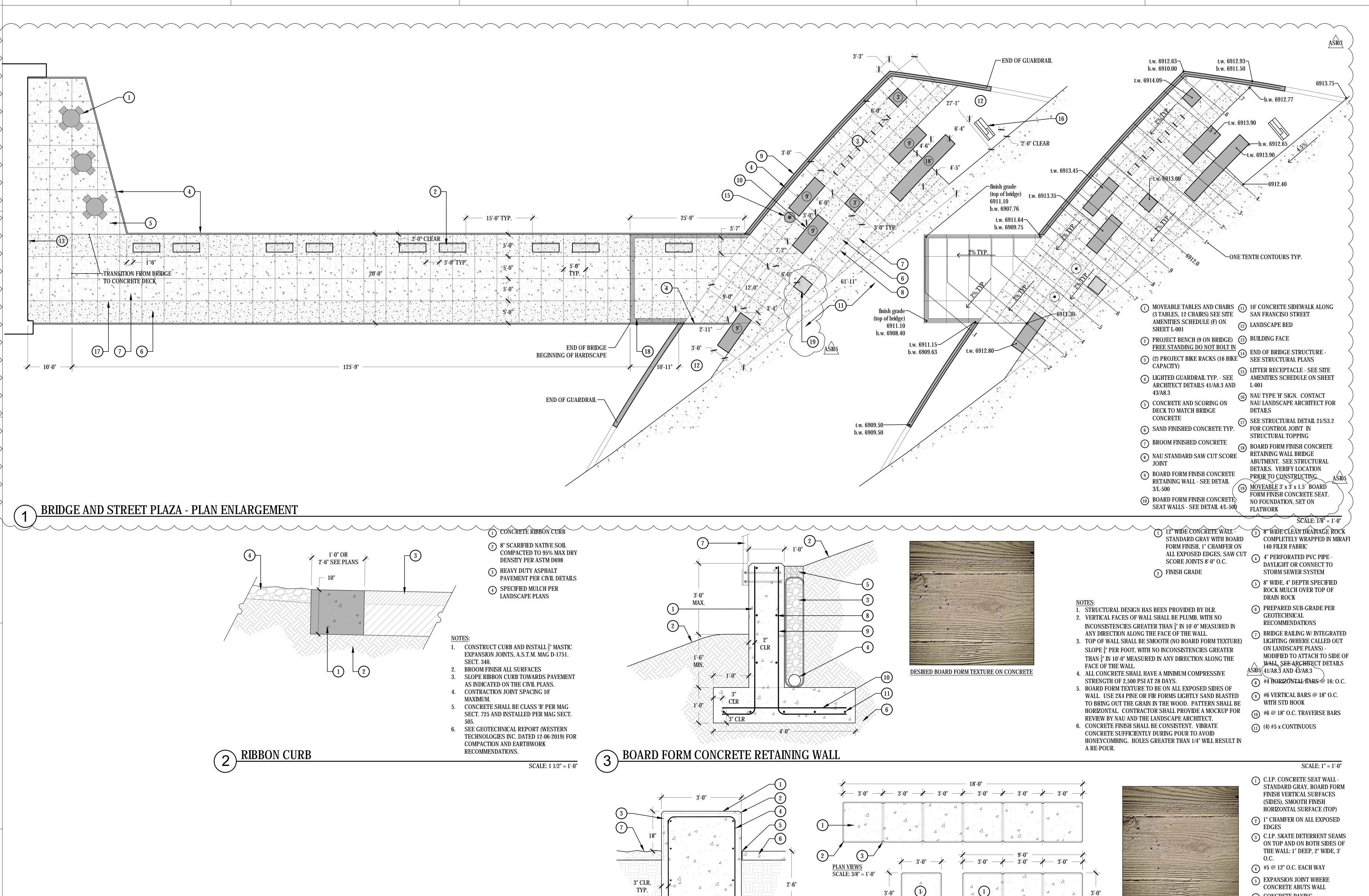




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CONSTRUCTION DOCUMENTS 6.22.2020 Revisions ASI03 9/04/20 TRADES, AHJ REVS

30-19131-00 OVERALL PLAN



SECTION VIEW

BOARD FORM CONCRETE SEAT WALL

' - Student Athlete 3uilding 73A University -e Center, Bu Northern Arizona | High Performance

ASI03 9/04/20 TRADES,

ASI05 10/07/20 TRADES,

AHJ REVS.

AHJ REVS.

Attachment L5

dated 10/07/20

30-19131-00

LANDSCAPE

DETAILS

to ASI05

CONSTRUCTION DOCUMENTS 6.22.2020 Revisions

6 CONCRETE PAVING

7 ADJACENT LANDSCAPE BED - SEE LANDSCAPE PLANS

8 PREPARED SUB-GRADE PER GEOTECH RECOMMENDATIONS

3. HORIZONTAL FACE SHALL BE SMOOTH (NO BOARD FORM TEXTURE) SLOPE  $\frac{1}{4}$ " PER FOOT, WITH NO INCONSISTENCIES GREATER THAN  $\frac{1}{4}$ " IN 10'-0" MEASURED IN ANY DIRECTION ALONG THE FACE OF THE WALL. 4. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI AT 28 DAYS.

5. BOARD FORM TEXTURE TO BE ON ALL SIDES OF WALL. USE 2X4 PINE OR FIR FORMS LIGHTLY SAND BLASTED TO BRING OUT THE GRAIN IN THE WOOD. PATTERN SHALL BE HORIZONTAL. CONTRACTOR SHALL PROVIDE A MOCKUP FOR REVIEW BY NAU AND THE LANDSCAPE ARCHITECT. 6. CONCRETE FINISH SHALL BE CONSISTENT. VIBRATE CONCRETE SUFFICIENTLY DURING POUR TO AVOID

DESIRED BOARD FORM TEXTURE ON

**CONCRETE** 

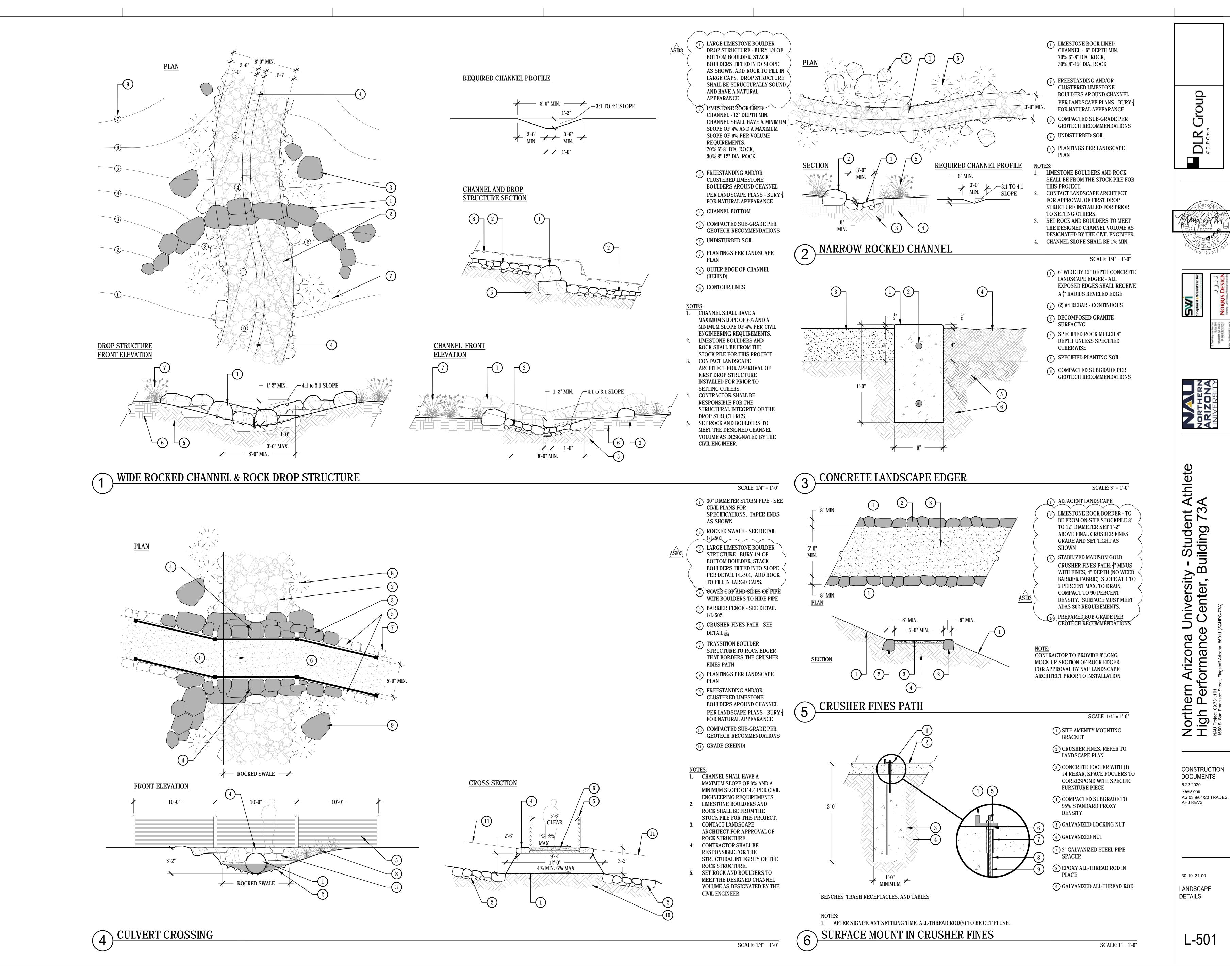
GREATER THAN  $\frac{1}{4}$ " IN 10'-0" MEASURED IN ANY DIRECTION ALONG THE FACE OF THE WALL.

2. VERTICAL FACES OF WALL SHALL BE PLUMB, WITH NO INCONSISTENCIES

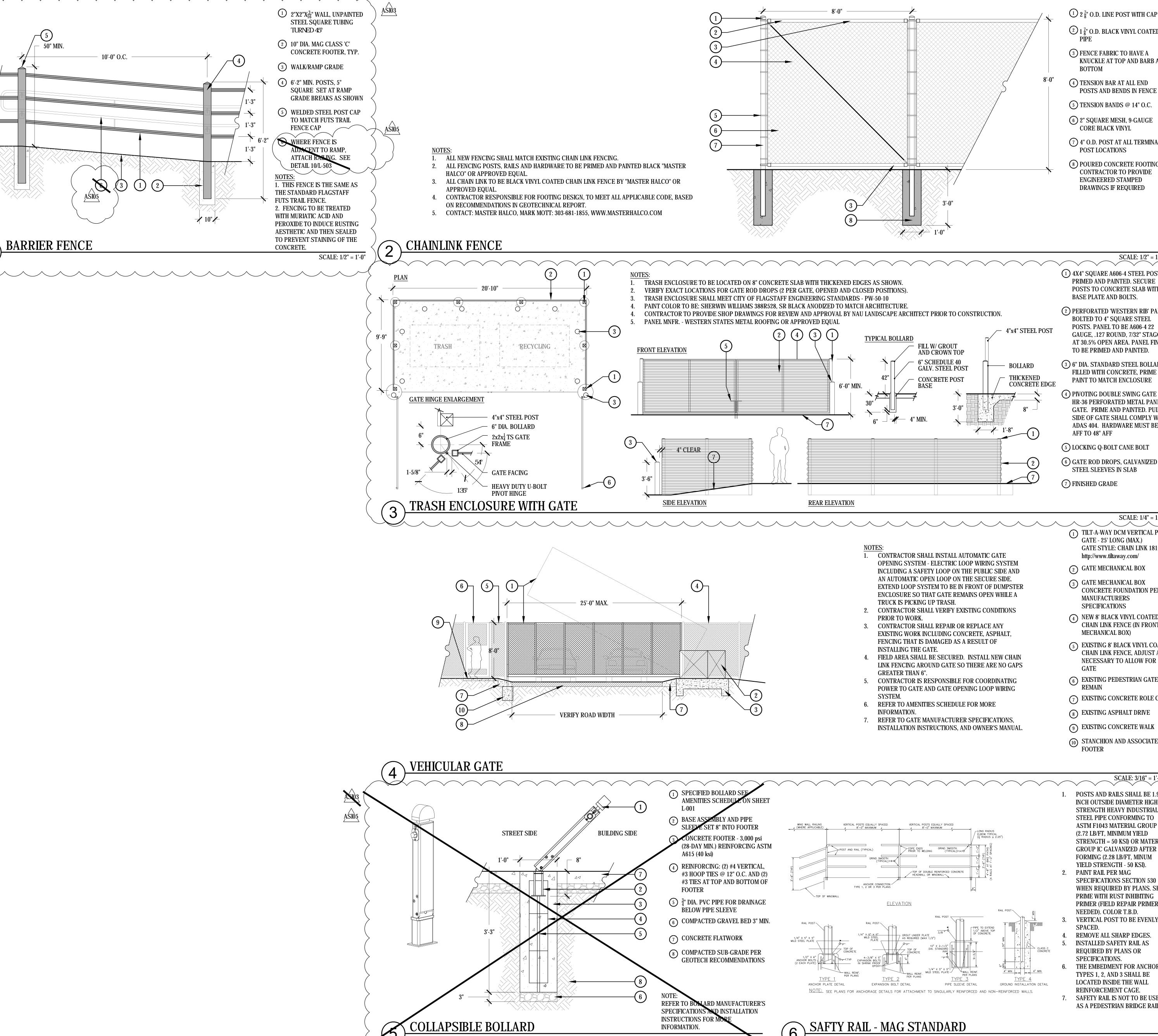
1. STRUCTURAL DESIGN HAS BEEN PROVIDED BY DLR.

HONEYCOMBING. HOLES GREATER THAN 1/4" WILL RESULT IN A RE-POUR.

SCALE: 3/4" = 1'-0"



le location imestamp



1 2  $\frac{7}{8}$  O.D. LINE POST WITH CAP

2 1  $\frac{7}{8}$ " O.D. BLACK VINYL COATED

(3) FENCE FABRIC TO HAVE A KNUCKLE AT TOP AND BARB AT

**BOTTOM** 

(4) TENSION BAR AT ALL END POSTS AND BENDS IN FENCE

(5) TENSION BANDS @ 14" O.C. 6 2" SQUARE MESH, 9-GAUGE

CORE BLACK VINYL (7) 4" O.D. POST AT ALL TERMINAL

POST LOCATIONS (8) POURED CONCRETE FOOTING, CONTRACTOR TO PROVIDE

PRIMED AND PAINTED. SECURE

BASE PLATE AND BOLTS.

POSTS TO CONCRETE SLAB WITH

(2) PERFORATED 'WESTERN RIB' PANEL

BOLTED TO 4" SQUARE STEEL

POSTS. PANEL TO BE A606-4 22

TO BE PRIMED AND PAINTED.

(3) 6" DIA. STANDARD STEEL BOLLARD

PAINT TO MATCH ENCLOSURE

(4) PIVOTING DOUBLE SWING GATE -

STEEL SLEEVES IN SLAB

AFF TO 48" AFF

HR-36 PERFORATED METAL PANEL GATE. PRIME AND PAINTED. PULL

SIDE OF GATE SHALL COMPLY WITH ADAS 404. HARDWARE MUST BE 34"

GAUGE, .127 ROUND, 7/32" STAGGER

AT 30.5% OPEN AREA. PANEL FINISH `

FILLED WITH CONCRETE, PRIME AND

ENGINEERED STAMPED DRAWINGS IF REQUIRED

SCALE: 1/2" = 1'-0" 1) 4X4" SQUARE A606-4 STEEL POST

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- Student / 3uilding 73/

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CONSTRUCTION

ASI03 9/04/20 TRADES,

ASI05 10/07/20 TRADES,

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Revisions

AHJ REVS.

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Attachment L6

to ASI05 dated 10/07/20

1 TILT-A-WAY DCM VERTICAL PIVOT GATE - 25' LONG (MAX.) GATE STYLE: CHAIN LINK 1810 http://www.tiltaway.com/

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

(2) GATE MECHANICAL BOX

(3) GATE MECHANICAL BOX CONCRETE FOUNDATION PER MANUFACTURERS **SPECIFICATIONS** 

(4) NEW 8' BLACK VINYL COATED CHAIN LINK FENCE (IN FRONT OF MECHANICAL BOX)

EXISTING 8' BLACK VINYL COATED CHAIN LINK FENCE, ADJUST AS NECESSARY TO ALLOW FOR

**GATE** (6) EXISTING PEDESTRIAN GATE TO

7 EXISTING CONCRETE ROLE CURB

(8) EXISTING ASPHALT DRIVE

EXISTING CONCRETE WALK

(10) STANCHION AND ASSOCIATED

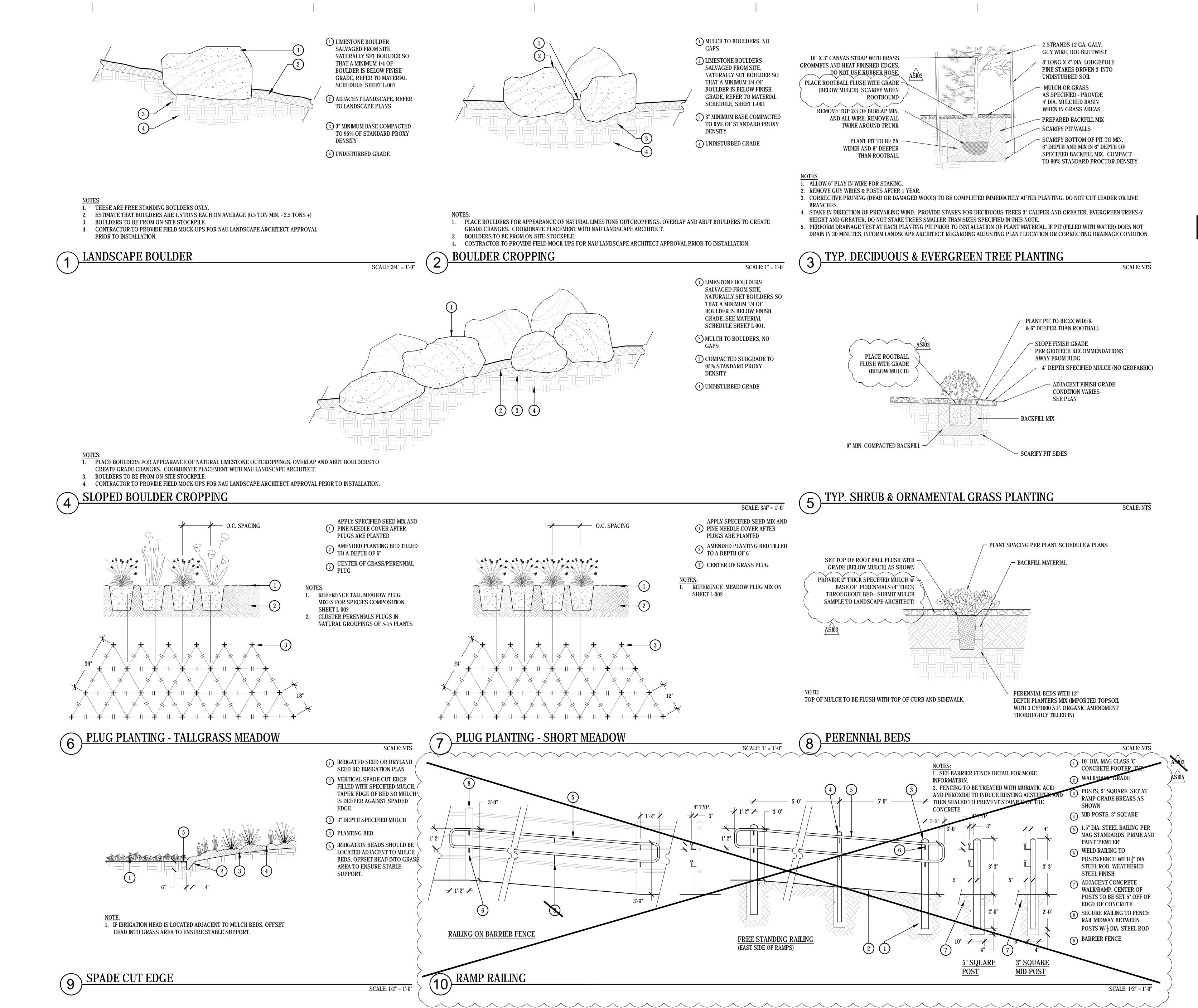
SCALE: 3/16" = 1'-0"

POSTS AND RAILS SHALL BE 1.90 INCH OUTSIDE DIAMETER HIGH STRENGTH HEAVY INDUSTRIAL STEEL PIPE CONFORMING TO ASTM F1043 MATERIAL GROUP IA-2 (2.72 LB/FT, MINIMUM YIELD STRENGTH = 50 KSI) OR MATERIAL GROUP IC GALVANIZED AFTER FORMING (2.28 LB/FT, MINUM YIELD STRENGTH - 50 KSI). 2. PAINT RAIL PER MAG SPECIFICATIONS SECTION 530 WHEN REQUIRED BY PLANS. SHOP PRIME WITH RUST INHIBITING PRIMER (FIELD REPAIR PRIMER AS NEEDED). COLOR T.B.D. VERTICAL POST TO BE EVENLY SPACED. REMOVE ALL SHARP EDGES.

INSTALLED SAFETY RAIL AS REQUIRED BY PLANS OR SPECIFICATIONS. THE EMBEDMENT FOR ANCHOR TYPES 1, 2, AND 3 SHALL BE LOCATED INSIDE THE WALL REINFORCEMENT CAGE.

30-19131-00 LANDSCAPE **DETAILS** SAFETY RAIL IS NOT TO BE USED AS A PEDESTRIAN BRIDGE RAIL.

N.T.S.



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S NOR Z

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CONSTRUCTION DOCUMENTS 6.22.2020 Revisions ASI03 9/04/20 TRADES, AHJ REVS. ASI05 10/07/20 TRADES,

AHJ REVS.

Attachment L7 to ASI05 dated 10/07/20

30-19131-00 LANDSCAPE **DETAILS**