

CONSTRUCTION PLANS FOR KILLIP ELEMENTARY SCHOOL FLAGSTAFF, ARIZONA

LOCATED IN NW QUARTER OF SECTION 11, TOWNSHIP 21
NORTH, RANGE 7 EAST, GILA AND SALT RIVER MERIDIAN,
COCONINO COUNTY, FLAGSTAFF, ARIZONA

CITY CONCEPT APPROVAL

THE CITY APPROVES THESE PLANS FOR CONCEPT ONLY.
ALL LIABILITY FOR ERRORS AND OMISSIONS IS THE
RESPONSIBILITY OF THE DESIGN ENGINEER.

CITY ENGINEER:

BY: _____ DATE: _____

CITY PUBLIC WORKS DIRECTOR

BY: _____ DATE: _____

CITY WATER SERVICES DIRECTOR

BY: _____ DATE: _____

AUTHORIZATION TO CONSTRUCT:

THE SIGNATURES ABOVE ARE REQUIRED BEFORE THE
CONTRACTOR CAN COMMENCE. UNSIGNED, THESE PLANS
HAVE NOT BEEN COMPLETED WITH RESPECT TO AGENCY
REVIEW AND APPROVAL.

LANDSCAPE APPROVAL

BY SIGNING THESE PLANS, THE DESIGNER OF THE
LANDSCAPING PLANS CONFIRMS THAT THESE GRADING PLANS
HAVE BEEN REVIEWED, IS AWARE OF THE SCOPE OF THE
PROJECT, AND HAS IDENTIFIED AND ADDRESSED ANY
POTENTIAL CONFLICTS BETWEEN THE GRADING AND
LANDSCAPING PLANS.

LANDSCAPE DESIGNER: _____ DATE: _____

UTILITY COMPANY APPROVAL

ARIZONA PUBLIC SERVICE

MEGAN MCCARTHY 03/25/2021
BY: _____ DATE: _____

UNISOURCE ENERGY SERVICES

MARTIN CONBOY 03/08/2021
BY: _____ DATE: _____

CENTURYLINK

MANUEL HERNANDEZ 03/19/2021
BY: _____ DATE: _____

ALTICE USA

SANFORD YAZZIE 03/08/2021
BY: _____ DATE: _____

UTILITY COMPANY CONTACTS

APS
CONTACT: MEGAN MCCARTHY
2200 E. HUNTINGTON
FLAGSTAFF, AZ 86004
MEGAN.MCCARTHY@APS.COM
PHONE: (928) 773-6446

UNISOURCE ENERGY SERVICES
CONTACT: MARTIN CONBOY
2901 W SHAMRELL BLVD #110
FLAGSTAFF, AZ 86001
MCONBOY@UESAZ.COM
PHONE: (928) 226-2269

CENTURYLINK
CONTACT: MANUEL HERNANDEZ
112 NORTH BEAVER STREET
FLAGSTAFF, AZ 86001
MANUEL.HERNANDEZ@CENTURYLINK.COM
PHONE: (928) 779-4935

ALTICE USA
CONTACT: SANFORD YAZZIE
1601 SOUTH PLAZA WAY
FLAGSTAFF, AZ 86001
SANFORD.YAZZIE@ALTICEUSA.COM
PHONE: (928) 266-0672

UTILITY CONFLICT

UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE AND WERE COMPILED FROM RECORD DRAWINGS,
SURVEY, AND CONSTRUCTION PLANS FURNISHED BY OTHERS. THE CONTRACTOR IS ULTIMATELY
RESPONSIBLE FOR DETERMINING THE ACTUAL LOCATIONS OF ALL UNDERGROUND LINES THAT MAY
AFFECT WORK PRIOR TO CONSTRUCTION.

THERE ARE NO APPARENT UTILITY CONFLICTS WITH APS, CENTURYLINK, UNISOURCE, OR ALTICE USA;
HOWEVER, THEY DO HAVE EXISTING FACILITIES IN THE AREA THAT WILL NEED TO BE PROTECTED
AND/OR RELOCATED.

RESOURCE PRESERVATION

THE PROJECT DOES NOT CURRENTLY FALL WITHIN THE CITY OF FLAGSTAFF RESOURCE PROTECTION
OVERLAY ZONE AND DOES NOT REQUIRE A RESOURCE PROTECTION PLAN.

FEMA DESIGNATION

THIS PROJECT IS LOCATED WITHIN AN AREA OF MINIMAL FLOOD HAZARD IN
ZONE X OF FEMA FIRM MAP #04005C6828G, EFFECTIVE SEPTEMBER 3,
2010. AREAS OF MINIMAL FLOOD HAZARD IN ZONE X ARE DESCRIBED AS
AREAS OUTSIDE OF THE 0.2% (500-YEAR) ANNUAL CHANCE FLOODPLAIN.

SOURCE OF PROJECT INFORMATION

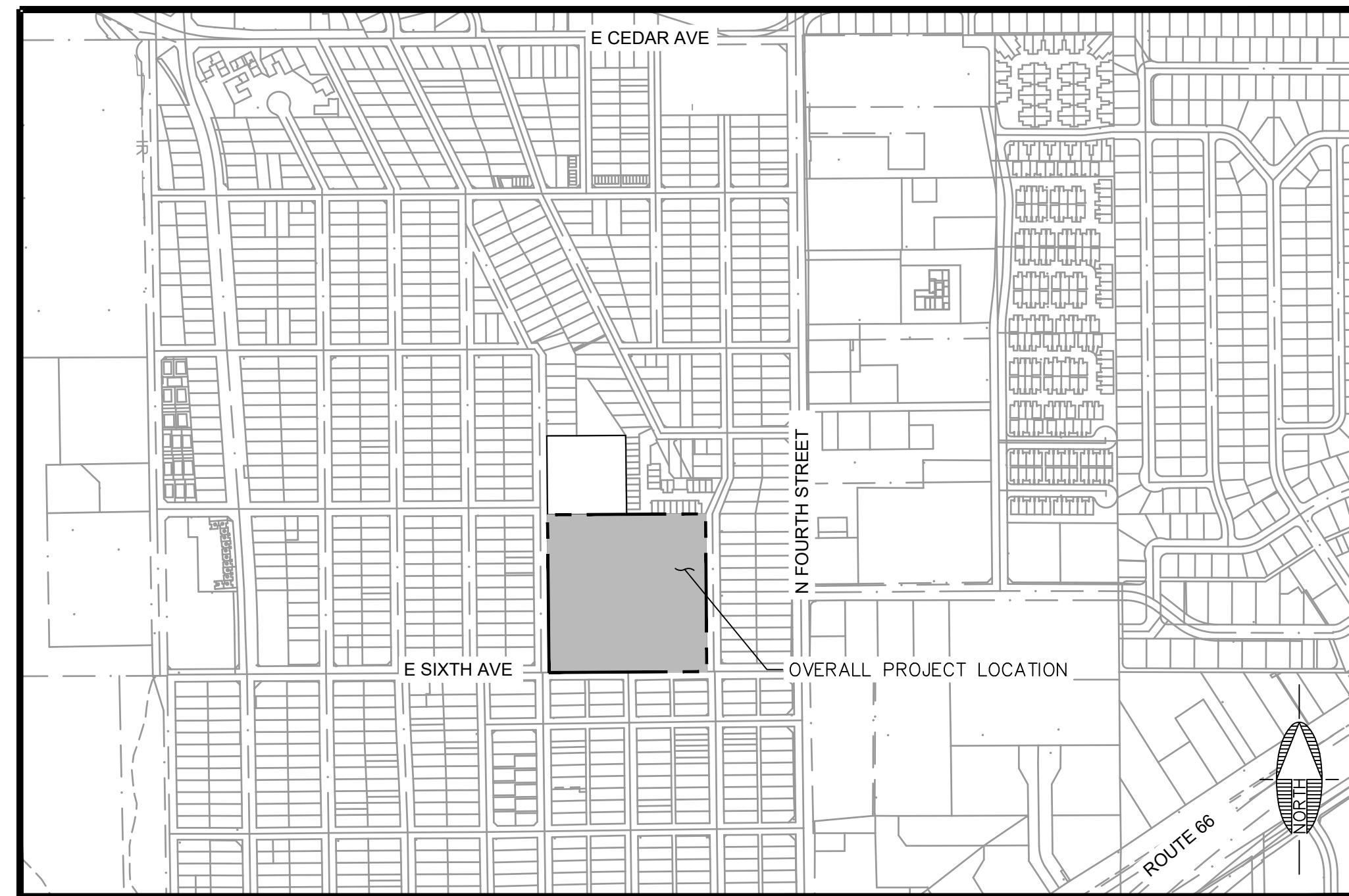
TOPOGRAPHIC DATA AND BOUNDARY INFORMATION WAS
PROVIDED BY SHEPHARD-WESNITZER, INC. ON JULY 6, 2020.

IMPERVIOUS AREA SUMMARY

PHASE 1 PRE-DEVELOPMENT IMPERVIOUS AREA = 117,064 SF
PHASE 1 POST-DEVELOPMENT IMPERVIOUS AREA = 127,368 SF

PHASE 2 PRE-DEVELOPMENT IMPERVIOUS AREA = 54,067 SF
PHASE 2 POST-DEVELOPMENT IMPERVIOUS AREA = 169,818 SF

TOTAL PRE-DEVELOPMENT IMPERVIOUS AREA = 171,131 SF
TOTAL POST-DEVELOPMENT IMPERVIOUS AREA = 297,186 SF



VICINITY MAP
N.T.S.

LEGEND

---	ROW	---	EX. LOT LINE
---	EASEMENT	---	EX. EASEMENT
---	GRAVITY SEWER LINE	---	EX. 100-YR FLOODPLAIN
---	PUBLIC WATER LINE	---	EX. INTERMEDIATE CONTOUR
---	STORM DRAIN PIPE	---	EX. INDEX CONTOUR
---	LOT BOUNDARY	---	EX. WATER LINE
---	FIRE HYDRANT	---	EX. SEWER LINE
---	WATER METER	---	EX. GAS
---	SEWER MANHOLE	---	EX. STORM DRAIN
---	STORM DRAIN MANHOLE	---	EX. UNDERGROUND UTIL.
---	STORM DRAIN GRATE	---	EX. OVERHEAD UTIL.
---	REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLY	---	SECTION LINE
---	GATE VALVE	---	EX. ROAD STRIPING
---	DRAINAGE ARROW	---	EX. WATER VALVE
---	PROPOSED SEWER SERVICE	---	EX. IRRIGATION
---	PROPOSED WATER SERVICE	---	EX. SIGNAGE
		---	EX. LIGHT POLE
		---	EX. ELECTRIC BOX
		---	EX. DRAINAGE ARROW

CIVIL SHEET INDEX		
SHEET NO.	DRAWING NO.	DESCRIPTION
1	C-CVR	COVER SHEET
2	C-GN01	NOTES AND DETAILS
3	C-DT01	DETAIL SHEET
4	C-DM01	DEMOLITION PLAN - PHASE 1
5	C-DM02	DEMOLITION PLAN - PHASE 2
6	C-GD01	GRADING & DRAINAGE PLAN
7	C-IP01	IMPROVEMENT PLAN
8	C-UT01	UTILITY PLAN
9	C-SD01	STORM DRAIN PLAN
10	C-HC01	HORIZONTAL CONTROL PLAN
11	C-EC01	EROSION CONTROL PLAN
12	C-EC02	EROSION CONTROL NOTES & DETAILS

LANDSCAPE & IRRIGATION SHEET INDEX		
SHEET NO.	DRAWING NO.	DESCRIPTION
13	L-001	HARDSCAPE NOTES AND SCHEDULES
14	L-002	LANDSCAPE NOTES AND SCHEDULES
15	L-100	HARDSCAPE PLAN
16	L-200	LANDSCAPE PLAN
17	L-301	HARDSCAPE DETAILS
18	L-302	HARDSCAPE DETAILS
19	L-303	HARDSCAPE DETAILS
20	L-304	HARDSCAPE DETAILS
21	L-305	HARDSCAPE DETAILS
22	L-306	PLAYGROUND DETAILS
23	L-400	LANDSCAPE DETAILS
24	L-500	IRRIGATION NOTES
25	L-501	IRRIGATION PLAN
26	L-601	IRRIGATION DETAILS
27	L-602	IRRIGATION DETAILS

SYNTHETIC TURF SHEET INDEX		
SHEET NO.	DRAWING NO.	DESCRIPTION
28	C0.0	COVER SHEET
29	C4.1	GRADING PLAN
30	C5.1	DRAINAGE PLAN
31	D1.1	SECTIONS AND DETAILS

COORDINATE SYSTEM DETAILS

LINEAR UNIT: INTERNATIONAL FEET
 GEODETIC DATUM: NAD 83 (CONUS)
 VERTICAL DATUM: NAVD 88, REFERENCED FROM NGS CONTROL POINT "AZFL"
 SYSTEM: CITY OF FLAGSTAFF LOW DISTORTION PROJECTION (2015)

PROJECTION:
 TRANSVERSE MERCATOR
 LATITUDE OF GRID ORIGIN: 35° 00' 00" N
 LONGITUDE OF CENTRAL MERIDIAN: 111° 37' 00" W
 NORTING AT GRID ORIGIN: 0 FT
 EASTING AT CENTRAL MERIDIAN: 70,000 FT
 CENTRAL MERIDIAN SCALE FACTOR: 1.000333 (EXACT)

ALL MEASURED DISTANCES AND BEARINGS SHOWN HEREON ARE GRID VALUES BASED ON THE
 PRECEDING PROJECTION DEFINITION. THE PROJECTION WAS DEFINED SUCH THAT GRID DISTANCES
 ARE EQUIVALENT TO "GROUND" DISTANCES IN THE PROJECT AREA.

THE BASIS OF BEARINGS IS TRUE GEODETIC NORTH; NOTE THAT THE MEASURED GRID BEARINGS
 SHOWN HEREON (OR IMPLIED BY GRID COORDINATES) DO NOT EQUAL GEODETIC BEARINGS DUE TO
 MERIDIAN CONVERGENCE.

ORTHOMETRIC HEIGHTS (ELEVATIONS) WERE TRANSFERRED TO THE SITE FROM NGS CONTROL POINT
 "AZFL" USING GPS WITH NGS GEOID MODEL "GEOID12A". ELEVATIONS SHOWN HEREON ARE
 REFERENCED TO THE PUBLISHED ELEVATION OF THIS STATION.

THE SURVEY WAS CONDUCTED USING GPS REFERENCED TO THE NATIONAL SPATIAL REFERENCE
 SYSTEM. A PARTIAL LIST OF POINT COORDINATES FOR THIS SURVEY IS GIVEN BELOW (ADDITIONAL
 COORDINATES ARE AVAILABLE UPON REQUEST). LOCAL NETWORK ESTIMATES ARE GIVEN AT THE
 95% CONFIDENCE LEVEL AND ARE BASED ON A LEAST-SQUARES ADJUSTMENT OF STATISTICALLY
 INDEPENDENT OBSERVATIONS.

POINT #1014 = 1.5" ALUMINUM CAP ON CENTERLINE OF FIRST ST. AND COLANTHE AVE.
 NORTHING = 77414.3840 FT
 EASTING = 69866.2610 FT
 ELEVATION = 6593.24 FT

POINT #1015 = 2" ALUMINUM CAP IN HANDHOLE ON CENTERLINE OF SIXTH AVE. AND FIRST ST.
 NORTHING = 76724.3130 FT
 EASTING = 69870.4630 FT
 ELEVATION = 6880.63 FT

POINT #1016 = 2" ALUMINUM CAP IN HANDHOLE ON CENTERLINE OF SIXTH AVE. AND THIRD ST.
 NORTHING = 76725.9080 FT
 EASTING = 70590.7100 FT
 ELEVATION = 6877.48 FT

C.O.F. GENERAL NOTES

- APPROVAL OF THESE PLANS BY THE CITY ENGINEER IS FOR A ONE (1) YEAR PERIOD, SUBSEQUENT TO THE DATE OF APPROVAL. IF CONSTRUCTION WORK IS NOT STARTED WITHIN THE ONE (1) YEAR PERIOD, OR HAS BEEN DISCONTINUED FOR ANY REASON FOR LONGER THAN ONE (1) YEAR, THE PLANS SHALL BE RESUBMITTED FOR REVIEW AND RE-APPROVAL.
- PLAN REVIEW BY THE CITY DOES NOT EXTEND TO MATERIAL QUANTITIES SHOWN ON THE PLANS.
- A PUBLIC WORKS PERMIT, ISSUED BY THE CITY, IS REQUIRED FOR ALL WORKS IN CITY RIGHTS-OF-WAY OR EASEMENTS AND FOR CONSTRUCTION OF ANY IMPROVEMENTS INTENDED TO BECOME PUBLIC PROPERTY.
- THE CITY SHALL BE NOTIFIED TWENTY-FOUR (24) HOURS PRIOR TO BEGINNING DIFFERENT PHASES OF CONSTRUCTION SO THAT CITY INSPECTORS MAY BE SCHEDULED.
- ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH TITLE 13, ENGINEERING DESIGN AND STANDARDS AND SPECIFICATIONS FOR NEW INFRASTRUCTURE, CURRENT "MAY UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION", THE CITY OF FLAGSTAFF FORMERLY REFERRED TO AS "MAY UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION", THE CITY OF FLAGSTAFF FORMERLY REFERRED TO AS "MAY UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION". ALL WORK AND MATERIALS, WHICH DO NOT CONFORM TO THE STANDARDS AND SPECIFICATIONS, ARE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING CHAPTER 13-21 OF THESE STANDARDS WHICH MAKES MINOR MODIFICATIONS TO CERTAIN MAG SPECIFICATIONS AND DETAILS.
- ANY WORK PERFORMED WITHOUT THE KNOWLEDGE AND APPROVAL OF THE CITY ENGINEER OR HIS AUTHORIZED REPRESENTATIVE IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
- THE CITY ENGINEER OR HIS AUTHORIZED REPRESENTATIVE MAY SUSPEND THE WORK BY WRITTEN NOTICE WHEN, IN HIS JUDGMENT, PROGRESS IS UNSATISFACTORY, WORK BEING DONE IS UNAUTHORIZED OR DEFECTIVE, WEATHER CONDITIONS ARE UNSUITABLE, OR THERE IS DANGER TO THE PUBLIC HEALTH OR SAFETY.
- THE CITY ENGINEER MAY ORDER ANY OR ALL MATERIALS USED IN THE WORK TO BE TESTED ACCORDING TO THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) AND THE AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) STANDARDS. THE CONTRACTOR SHALL, AT HIS EXPENSE, SUPPLY ALL SAMPLES REQUIRED FOR TESTING.
- ACCESS WHICH MEETS SECTION 13-13-004-000, FIRE ACCESS SHALL BE IN PLACE AND APPROVED BEFORE AND AT ALL TIMES DURING ON-SITE COMPLETION CONSTRUCTION AND/OR PRIOR TO ISSUANCE OF BUILDING PERMITS IN NEW SUBDIVISIONS. FIRE DEPARTMENT AND ENGINEERING SECTION APPROVAL IS REQUIRED FOR RESTRICTION OF ACCESS OR WATER SYSTEM SHUTDOWN.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE STREETS AND OF PARTIALLY COMPLETED PORTIONS OF THE WORK UNTIL FINAL ACCEPTANCE OF THE WORK. THE CONTRACTOR SHALL SUBMIT TO THE CITY ENGINEER FOR APPROVAL, A CONSTRUCTION SCHEDULE FOR ANY STREETS REQUIRED TO BE CLOSED OR PARTIALLY CLOSED FOR THE CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL REOPEN THE STREETS NO LATER THAN THE OPENING DATE SHOWN ON THE CONSTRUCTION SCHEDULE UPON ORDER OF THE CITY ENGINEER. THE REGULATION AND CONTROL OF CONSTRUCTION TRAFFIC SHALL BE AS DIRECTED BY THE CITY ENGINEER OR HIS AUTHORIZED REPRESENTATIVE.
- APPROVAL OF A PORTION OF THE WORK IN PROGRESS DOES NOT GUARANTEE ITS FINAL ACCEPTANCE. TESTING AND EVALUATION MAY CONTINUE UNTIL WRITTEN FINAL ACCEPTANCE OF A COMPLETE WORKABLE UNIT. ANY DEFECTS OF THE WORK WITHIN ONE (1) YEAR FROM THE DATE OF ACCEPTANCE AND WHICH ARE DUE TO IMPROPER WORKMANSHIP OR INFERIOR MATERIALS SUPPLIED SHALL BE CORRECTED BY OR AT THE EXPENSE OF THE OWNER/DEVELOPER OR THE CONTRACTOR.
- ACCEPTANCE OF COMPLETED PUBLIC IMPROVEMENTS WILL NOT BE GIVEN UNTIL DEFECTIVE OR UNAUTHORIZED WORK IS REMOVED, AND FINAL CLEAN-UP IS COMPLETE.
- LOCATION OF UNDERGROUND UTILITIES BEFORE WORK IS BEGUN IS TO BE ACCOMPLISHED IN ACCORDANCE WITH ARS 40-360.22.
- IF WORK IS DONE ON PRIVATE PROPERTY IN RELATION TO A PROJECT CONSTRUCTED UNDER THESE STANDARDS, THE CONTRACTOR WILL PROVIDE THE CITY WITH WRITTEN AUTHORIZATION FROM THE PROPERTY OWNER TO DO SO.
- THE ESTABLISHMENT AND USE OF TEMPORARY CONSTRUCTION YARDS SHALL CONFORM TO THE CURRENT CITY ZONING CODE STANDARDS FOR "TEMPORARY USES".
- ALL EXCAVATED MATERIAL SHALL BE DISPOSED OF IN ACCORDANCE WITH APPLICABLE CITY CODES AND REGULATIONS. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED CITY APPROVALS AND PERMITS, AS DEEMED NECESSARY BY THE CITY, TO DISPOSE OF EXCAVATED MATERIAL.
- ALL CONSTRUCTION STAKING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR/DEVELOPER AND PERFORMED UNDER THE DIRECT SUPERVISION OF A REGISTERED LAND SURVEYOR OR CIVIL ENGINEER.
- ALL TRAFFIC SIGN SHEETING SHALL BE TYPE VII AS DESIGNED BY ASTM D4956-07E1 STANDARD SPECIFICATIONS FOR RETRO REFLECTIVE SHEETING FOR TRAFFIC CONTROL, UNLESS SPECIFIED OTHERWISE ON THE CONSTRUCTION PLANS.
- WHEN THE CONSTRUCTION PLANS SPECIFY GRAFFITI CONTROL ON BRIDGES OR OTHER STRUCTURES, THE CONTRACTOR SHALL SEAL THE STRUCTURE FIRST USING MONOCHROM ADJASAL ME 12, AND THEN APPLY MONOCHROM PERMASHIELD, SACRIFICIAL GRAFFITI CONTROL SYSTEM (OR APPROVED EQUAL).
- ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE STABILIZED AND RESEDED IN ACCORDANCE WITH CHAPTER 13-17 OF THIS TITLE. IN THE EVENT THAT THE CONSTRUCTION ACTIVITY DISTURBS MORE THAN ONE (1) ACRE, A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE PREPARED IN ORDER TO OBTAIN A CONSTRUCTION GENERAL PERMIT FROM ADEQ. (ORD. 22017-22, REPERAEN, 07/05/2017)

C.O.F. WATER AND SEWER NOTES

- ALL DESIGN, CONSTRUCTION, TESTING AND INSPECTION SHALL CONFORM TO THE ADEQ REGULATIONS, WATER DISTRIBUTION IN ACCORDANCE WITH BULLETINS 10 AND 8, AND SEWER COLLECTION IN ACCORDANCE WITH MAG TITLE 15. IN THE EVENT THE ADEQ REQUIREMENTS CONFLICT WITH THESE STANDARDS, THE MORE RESTRICTIVE SHALL APPLY.
- ROUGH GRADING SHALL BE COMPLETED WITHIN ONE-TENTH (1/10) OF A FOOT OF PLAN GRADE AND APPROVED BY THE CITY ENGINEER'S AUTHORIZED REPRESENTATIVES PRIOR TO INSTALLATION OF UNDERGROUND UTILITIES.
 - NO TRENCH SHALL BE FILLED WITH BEDDING MATERIAL OR BACKFILL UNTIL THE EXCAVATION AND PIPE LAYING, RESPECTIVELY, HAS BEEN APPROVED BY THE CITY ENGINEER'S AUTHORIZED REPRESENTATIVE.
 - A WATER PRESSURE TEST IS REQUIRED OF ALL WATER LINES AND A HYDROSTATIC OR AIR TEST IS REQUIRED OF ALL SEWER LINES AND MANHOLES. TESTS ARE TO BE CONDUCTED AFTER BACKFILLING IS COMPLETE AND COMPACTED ON ALL PUBLIC AND/OR PRIVATE UNDERGROUND UTILITIES.
 - WATER AND SEWER SERVICE LINES ARE TO BE MARKED AS SHOWN ON THE STANDARD SERVICE DETAILS.
 - WATER LINE DISINFECTION IS TO BE ACCOMPLISHED AS OUTLINED IN ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY (ADEQ) BULLETIN NO. 8.

C.O.F. PAVING NOTES

- A. EXACT POINT OF MATCHING TERMINATION AND OVERLAY, IF NECESSARY, SHALL BE DETERMINED IN THE FIELD BY THE CITY ENGINEER OR HIS AUTHORIZED REPRESENTATIVE. WHEN A LONGITUDINAL JOINT ASSOCIATED WITH A TRENCH PATH PAVEMENT MATCHUP OR OTHER OCCURS ON A STREET THAT INCLUDES A BIKE LANE, THE JOINT SHALL BE LOCATED OUTSIDE THE BIKE LANE.
- B. NO JOB WILL BE CONSIDERED COMPLETE UNTIL:
- ALL CURBS, PAVEMENTS, SIDEWALKS, CATCH BASINS, STORM DRAINS, AND MANHOLES HAVE BEEN CLEANED OF ALL DIRT AND DEBRIS;
 - SURVEY MONUMENTS ARE INSTALLED AND STAMPED; AND
 - ALL FRAMES, COVERS, AND VALVE BOXES ARE ADJUSTED TO GRADE.
- C. NO PAVING CONSTRUCTION SHALL BE STARTED UNTIL ALL UTILITY LINES ARE COMPLETED AND APPROVED UNDER PROPOSED PAVED AREAS.
- D. BASE COURSE WILL NOT BE PLACED UNTIL SUBGRADE HAS BEEN APPROVED BY THE CITY ENGINEER OR HIS AUTHORIZED REPRESENTATIVE.
- E. THE LOCATION OF ALL WATER VALVES, FIRE HYDRANTS, AND MANHOLES MUST AT ALL TIMES DURING CONSTRUCTION BE REFERENCED AND MADE ACCESSIBLE TO THE CITY ENGINEER'S AUTHORIZED REPRESENTATIVE.
- F. UTILITY FACILITIES IN CONFLICT WITH THIS WORK WILL BE RELOCATED BY THE PERMITTEE OR THE UTILITY OWNER. THIS ACTIVITY SHALL BE COORDINATED WITH THE OWNER OF THE UTILITY TO PREVENT ANY UNNECESSARY INTERRUPTION OF SERVICE TO EXISTING CUSTOMERS.

- EXISTING STREET NAME SIGNS, TRAFFIC SIGNS AND DEVICES ASSOCIATED WITH THE PROJECT SHALL BE MAINTAINED DURING CONSTRUCTION AND RELOCATED BY THE CONTRACTOR AS SHOWN ON THE APPROVED PLANS.
- ANY CHANGES OR ADDITIONS TO PAVEMENT MARKINGS CAUSED BY PAVEMENT OVERLAY, GHP SEAL, OR INSTALLATION OF UNDERGROUND FACILITIES SHALL BE SHOWN ON THE APPROVED PLANS.
- ON PROJECTS WHERE THE CONTRACTOR CAUSES EXCESSIVE DAMAGE TO AN EXISTING PAVED STREET OR THERE ARE MULTIPLE STRIKE CUTS (MAXIMUM OF FOUR (4) IN FIVE HUNDRED (500) FEET) AN ASPHALT OVERLAY SHALL BE REQUIRED.
- A PRIME COAT IS NOT REQUIRED UNLESS SO SPECIFIED IN THE SOILS AND PAVEMENT REPORT AND/OR SHOWN ON THE PLANS.
- ALL CURBS AND OUTLET SIDEWALKS, DRIVEWAYS, AND SIDEWALK RAMPS SHALL BE CONSTRUCTED ON A MINIMUM THREE (3) INCHES OF AGGREGATE BASE COURSE (ABC). THE ABC SHALL BE CONSTRUCTED PER MAG SECTION 310, AND SHALL BE COMPACTED TO NINETY-FIVE (95%) RELATIVE DENSITY. PRECAST CURBS SHALL BE 100% CONCRETE OR 75% CONCRETE AND 25% GRANULAR FILL SHALL BE CONSTRUCTED ON A MINIMUM OF THREE (3) INCHES OF ABC.
- PERMANENT PAVEMENT MARKINGS.
 - LONGITUDINAL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 13-16-006-0001.
 - TRANSVERSE PAVEMENT MARKINGS SUCH AS STOP BARS, CROSSWALKS, ARROWS, AND LEGENDS SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 13-16-006-0002.
- TEMPORARY PAVEMENT MARKINGS.
 - TEMPORARY PAVEMENT MARKINGS, WHEN APPROVED, SHALL BE INSTALLED IN ACCORDANCE WITH SECTIONS 13-16-006-0001 AND 13-16-006-0002.

- C.O.F. GRADING AND DRAINAGE NOTE:**
- *ADEQUATE DRAINAGE, EROSION AND SEDIMENT CONTROL MEASURES, BEST MANAGEMENT PRACTICES, AND/OR OTHER STORM WATER MANAGEMENT FACILITIES SHALL BE PROVIDED AND MAINTAINED AT ALL TIMES DURING CONSTRUCTION. DAMAGES TO ADJACENT PROPERTY AND/OR THE CONSTRUCTION SITE CAUSED BY CONTRACTOR'S PROPERTY OR PROPERTY OWNER'S FAILURE TO PROVIDE AND MAINTAIN ADEQUATE DRAINAGE AND EROSION/SEDIMENT CONTROL FOR THE CONSTRUCTION AREA SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND/OR PROPERTY OWNER.

C.O.F. SEEDING NOTES

- TO BE APPLIED ON ALL CUT/FILL SLOPES.
- THE CONTRACTOR SHALL RESEED ALL DISTURBED AREA ACCORDING TO THE PROVISIONS OF THIS SECTION. THE WORK UNDER THIS SECTION SHALL CONSIST OF FURNISHING, HAULING, PLACING, AND APPLYING EROSION CONTROL (SEED, MULCH, AND EROSION CONTROL BLANKETS) TO ALL DISTURBED AREAS WITHIN THE PROJECT AREAS AS SHOWN ON THE PLANS. REFER TO THE CITY OF FLAGSTAFF ENGINEERING STANDARDS, TITLE 15, CHAPTER 17 FOR SEEDING REQUIREMENTS.

SHEPARD-WESNITZER GENERAL NOTES

- PROJECT SPECIFICATIONS
- ALL WORK SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING STANDARDS AND SPECIFICATIONS, AND ANY SPECIAL PROVISIONS PREPARED FOR THE PROJECT. THE TERM "CURRENT" MEANS THE DATE OF THE SPECIFICATIONS IN EFFECT AS OF THE DATE OF THE ENGINEERS SEAL ON THESE PLANS.
- MARICOPA ASSOCIATION OF GOVERNMENTS (M.A.G.) UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION
- CITY OF FLAGSTAFF ENGINEERING DESIGN AND CONSTRUCTION STANDARDS & SPECIFICATION
- AMERICAN WATER WORKS ASSOCIATION STANDARDS
- ARIZONA ADMINISTRATIVE CODE (AAC)
- INTERNATIONAL PLUMBING CODE (IPC)
- INTERNATIONAL BUILDING CODE (IBC)

THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS ARE REQUIRED TO OBTAIN COPIES OF THESE AS WELL AS ANY OTHER STANDARDS OR SPECIFICATIONS REQUIRED TO SUCCESSFULLY COMPLETE THE WORK AS DESCRIBED IN THESE PLANS AND/OR ANY SPECIAL PROVISIONS PREPARED FOR THE PROJECT. THIS REQUIREMENT EXTENDS TO ANY STANDARDS, DETAILS, OR SPECIFICATIONS REFERENCED BY THE CONSTRUCTION DOCUMENTS AND NOT INCLUDED IN THE LIST ABOVE.

QUANTITY ESTIMATE AND PAYMENT PROVISIONS

IF ANY MATERIAL QUANTITIES ARE SHOWN ON THESE PLANS, THEY ARE TO BE CONSIDERED AS APPROXIMATE ONLY AND ARE FURNISHED AS A CONVENIENCE TO THE CONTRACTOR IN EVALUATING THE MAGNITUDE OF THE PROJECT SCOPE. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE ACTUAL QUANTITIES OF WORK REQUIRED AND BASE HIS BID ON HIS OWN INDEPENDENT ESTIMATE OF THE WORK SCOPE AND QUANTITIES OF MATERIALS REQUIRED.

THE ESTIMATED QUANTITIES MAY NOT DIRECTLY CORRESPOND TO A BID SCHEDULE/SCHEDULE OF VALUES INCLUDED IN THE CONTRACT DOCUMENTS. PAYMENT FOR ANY WORK ACCOMPLISHED SHALL BE IN ACCORDANCE WITH THE PAYMENT PROVISIONS OWNED IN THE CONTRACT DOCUMENTS.

- UTILITY COORDINATION
- THE CONTRACTOR SHALL HAVE THE RESPONSIBILITY FOR COORDINATING ALL UTILITY RELOCATION, VALVE BOX/MANHOLE OR OTHER SURFACE APERTURE ADJUSTMENTS, RESOLUTION OF UTILITY CONFLICTS, OBTAINING NECESSARY PERMITS, SCHEDULING BLUE STAKE, CONDUCTING EXPLORATORY INVESTIGATIONS IN ADVANCE OF UTILITY INSTALLATIONS, AND GENERAL CONFORMANCE TO UTILITY AGENCY REQUIREMENTS AND SPECIFICATIONS FOR CONDUCTING THE WORK.
- THE CONTRACTOR IS SPECIFICALLY ADVISED TO EXAMINE THE SITE FOR EVIDENCE OF AND CONFLICTS WITH EXISTING UTILITIES PRIOR TO SUBMITTING HIS BID. EXISTING UTILITIES HAVE BEEN SHOWN ON THE PLANS IN THEIR APPROXIMATE LOCATIONS BASED ON FIELD OBSERVATIONS AND ANY FURNISHED RECORD INFORMATION, BUT THERE IS NO GUARANTEE THAT ALL UTILITY CONFLICTS HAVE BEEN IDENTIFIED. AT THE TIME OF CONSTRUCTION, THE EXACT SIZES, TYPES, AND LOCATIONS OF EXISTING UNDERGROUND IMPROVEMENTS SHALL BE DETERMINED BY THE CONTRACTOR AND HE SHALL FURNISH MATERIALS AS NECESSARY TO CONSTRUCT THE REQUIRED CONNECTIONS.
- THE CONTRACTOR SHALL PERFORM ALL NECESSARY POTHOLES AND UTILITY LOCATING AT LEAST TWO WEEKS IN ADVANCE OF ALL UNDERGROUND UTILITY WORK TO ENSURE EXPEDITED COMPLETION OF THE WORK IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. LOCATING EXISTING UTILITIES FOR THE PURPOSE OF IDENTIFYING CONFLICTS IN ADVANCE OF THE UTILITY RELOCATIONS IS AN IMPORTANT ELEMENT OF THE PROJECT. FAILURE OF THE CONTRACTOR TO LOCATE EXISTING UTILITIES AT LEAST TWO WEEKS IN ADVANCE OF THE CONSTRUCTION ACTIVITIES WILL DIMINISH HIS ABILITY TO MAKE A CLAIM FOR DELAYS FOR UTILITY RELOCATIONS.

ALL FRAMES, COVERS AND VALVE BOXES IN THE CONSTRUCTION AREA SHALL BE ADJUSTED TO FINAL FINISH GRADES, WHETHER INDICATED ON THE PLANS OR NOT. ANY NECESSARY ADJUSTMENTS WHICH ARE NOT SEPARATELY ITEMIZED IN THE BID SCHEDULE SHALL BE CONSIDERED INCIDENTAL TO THE WORK.

THE APPROPRIATE UTILITY COMPANIES SHALL BE NOTIFIED BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION. "BLUE STAKE" NUMBER IS 1-800-STAKE-IT. CONTRACTOR SHALL ALLOW TWO WORKING DAYS AFTER "BLUE STAKE" IS NOTIFIED, BEFORE COMMENCING ANY EXCAVATION WORK IN PROXIMITY OF BURIED UTILITIES.

AT LEAST TWO WORKING DAYS PRIOR NOTICE IS REQUIRED BEFORE DISRUPTING EXISTING UTILITY SERVICES TO THE CONNECTION. THE NOTICE MUST INCLUDE THE EXACT TIME OF THE DISRUPTION OF SERVICE AND THE EXPECTED DURATION OF THE LOSS OF SERVICE. THE NOTICE SHALL BE FURNISHED TO THE OWNER OR OTHERS AS SPECIFIED IN THE CONTRACT DOCUMENTS.

ALL WATER LINES SHALL BE PRESSURE AND LEAKAGE TESTED PER AWWA C605-13 OR MAG STANDARDS SECTION 811.

PERMITS

CITY OF FLAGSTAFF PERMITS

A PUBLIC IMPROVEMENTS PERMIT AND A GRADING PERMIT ARE REQUIRED FOR THIS PROJECT. CONTACT COMMUNITY DEVELOPMENT AT 928-213-2698 TO INITIATE THE PROCESS. CONTACT THE ENGINEERING INSPECTION DEPARTMENT AND STORM WATER DEPARTMENT AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF THE PROJECT TO COORDINATE INSPECTIONS. GRADING CERTIFICATION IS REQUIRED, WHICH SHALL BE SEALED BY THE SURVEYOR AND GEOTECHNICAL ENGINEER. SPREADSHEET INSPECTION CERTIFICATION FOR ANY BUILT IN PLACE STRUCTURES WILL ALSO BE REQUIRED. AS-BUILTS ARE REQUIRED WITH THE CERTIFICATION.

A PRE-CONSTRUCTION MEETING WITH THE CITY OF FLAGSTAFF IS REQUIRED PRIOR TO THE START OF ANY WORK. CONTACT THE CITY OF FLAGSTAFF PROJECT MANAGER TO SCHEDULE THE MEETING.

EARTHWORK SUMMARY

SITE GRADING:

UNADJUSTED CUT: **35,094 CY**

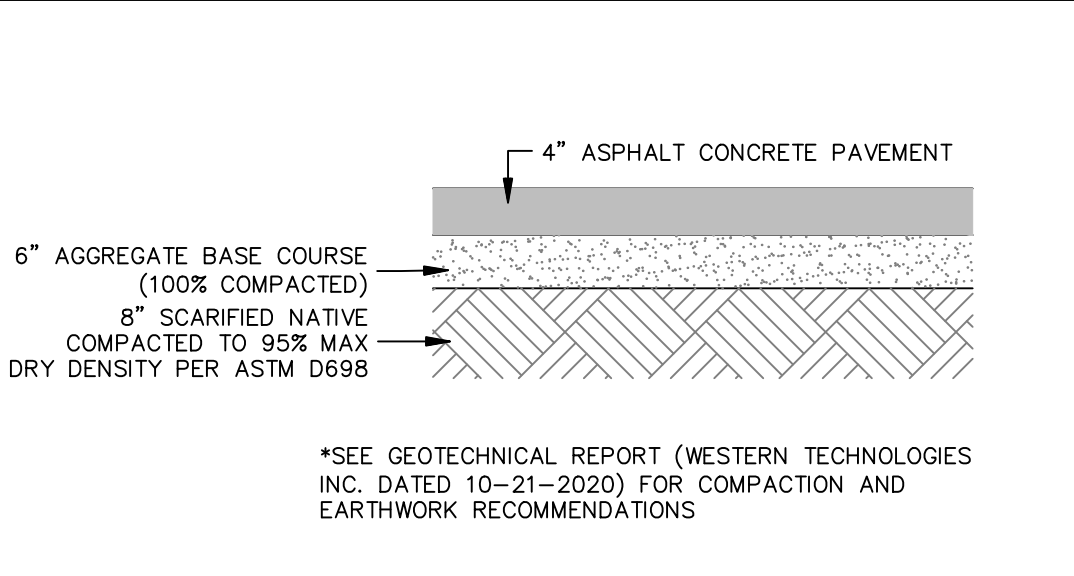
UNADJUSTED FILL: 12,486 CY

EARTHWORK VOLUMES SHOWN ABOVE ARE BASED ON IN-PLACE VOLUMES REQUIRED FOR SITE GRADING. QUANTITIES ARE NOT ADJUSTED FOR SHRINKAGE (SEE GEOTECH REPORT FOR ESTIMATED SHRINKAGE FACTORS). THESE RESULTS MAY NOT REFLECT THE FINAL CONSTRUCTED QUANTITIES. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN QUANTITY DETERMINATIONS. ADDITIONAL EARTHWORK QUANTITIES SHALL BE CONSIDERED INCIDENTAL TO BUILDING CONSTRUCTION. ANY WASTE MATERIAL SHALL BE INCIDENTAL TO CONSTRUCTION.

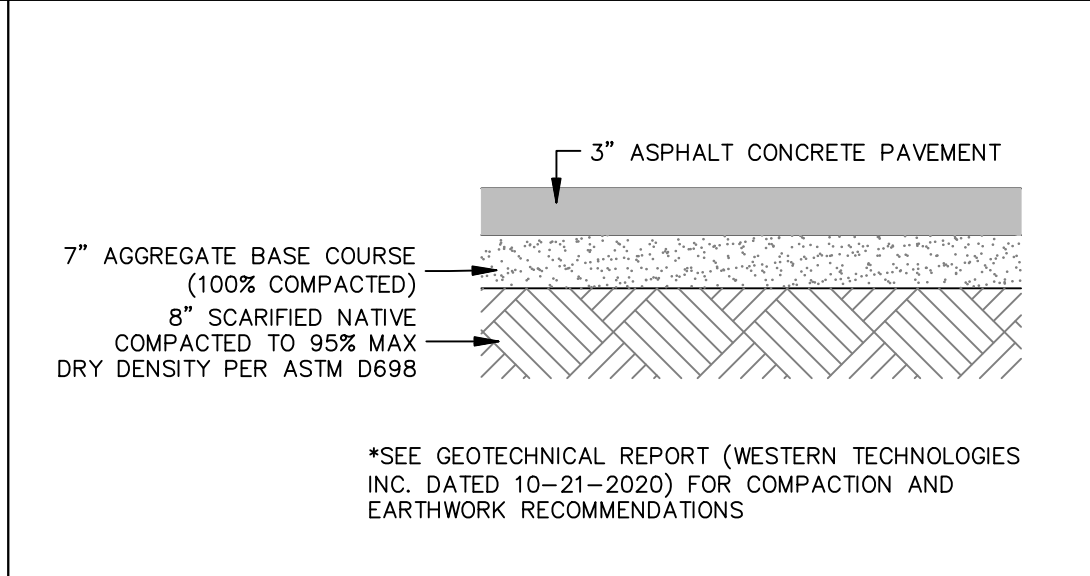
CLEAR VIEW ZONE CALCULATIONS										
ID #	MAJOR STREET	MANEUVER DIRECTION	DESIGN SPEED (VMAJOR) ¹	TIME GAP tg (unadjusted) ²	GRADE ± 3%	MULTIPLE LANE CROSSINGS	NO. OF LANES ³	TIME GAP tg (adjusted) ²	INTERSECTION SIGHT DISTANCE (ISD3)	STOPPING SIGHT DISTANCE (SSD)
D1	6th Avenue	Right	15	6.5	Yes	No	1	6.5	143	80
D2	3rd Street	Right	15	6.5	Yes	No	1	6.5	143	80
D3	3rd Street	Left	15	7.5	Yes	Yes	2	8.0	176	80
D4	3rd Street	Left	15	5.5	Yes	Yes	2	6.0	132	80

Notes:

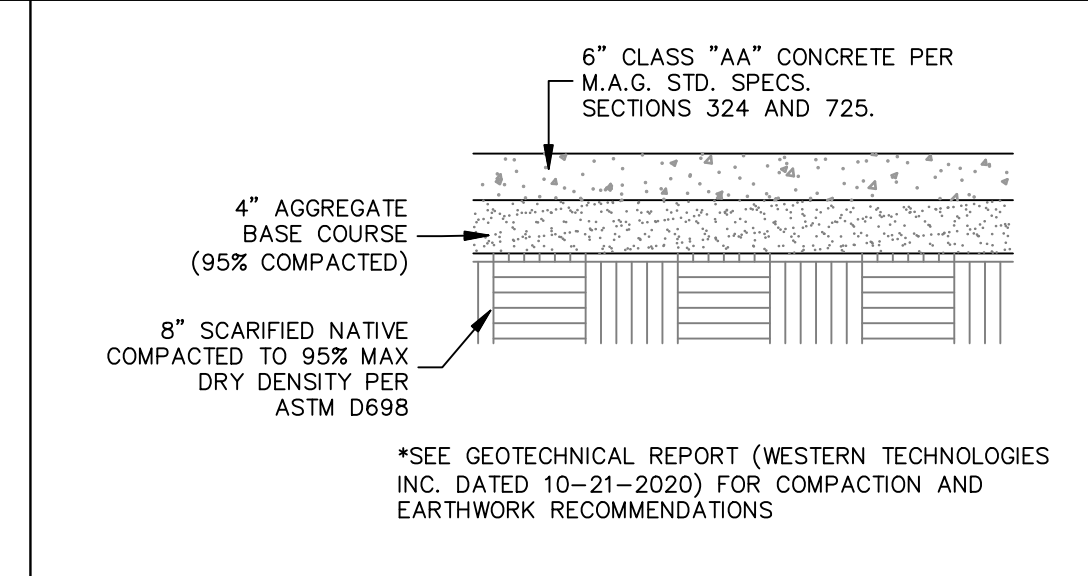
- The major road speed limits (VMAJOR in MPH) are based on existing conditions in the project vicinity.
- The time gap values, adjusted (tg (adjusted) in seconds) and unadjusted (tg (unadjusted) in seconds), are based on the current site plan and the AASHTO-Geometric Design of Highways and Streets Exhibits 9-54 and 9-57 for D1 and D2 and Exhibits 9-66 and 9-67 for M1. The first lane crossed does not warrant an adjustment to the time gap.
- The intersection sight distance (ISD in feet) calculations are based on Equation 9-1 in the AASHTO-Geometric Design of Highways and Streets. Equation 9-1: ISD=1.47*VMAJOR*tg
- The number of lanes crossed may include medians converted to equivalent lanes. The number of lanes provided in the table includes the first lane crossed.
- If the approach grade is greater than 3%, add 0.1 seconds for each percent grade.



A ASPHALTIC PAVEMENT
STRUCTURAL FOR HEAVY DUTY N.T.S.



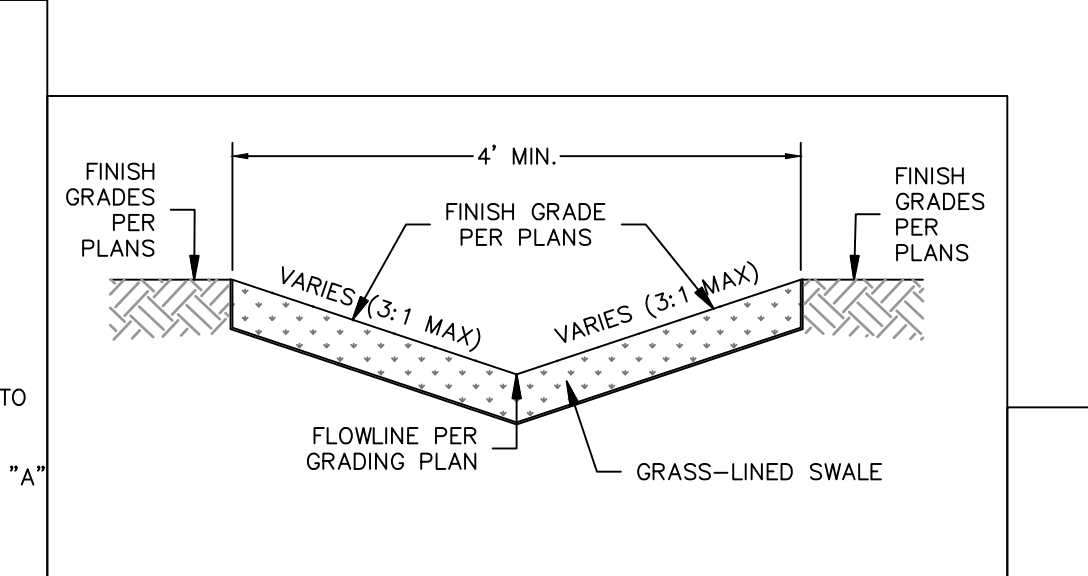
B ASPHALTIC PAVEMENT
STRUCTURAL FOR LIGHT DUTY N.T.S.



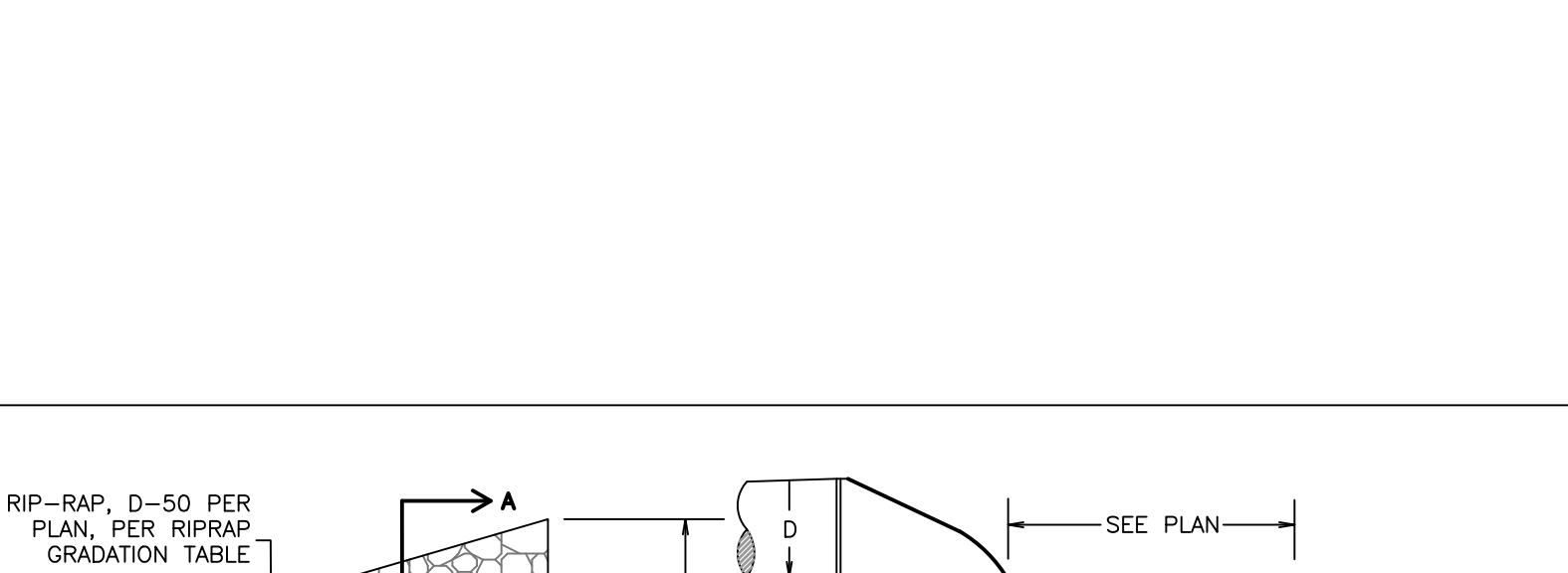
C CONCRETE PAVING
STRUCTURAL SECTION N.T.S.



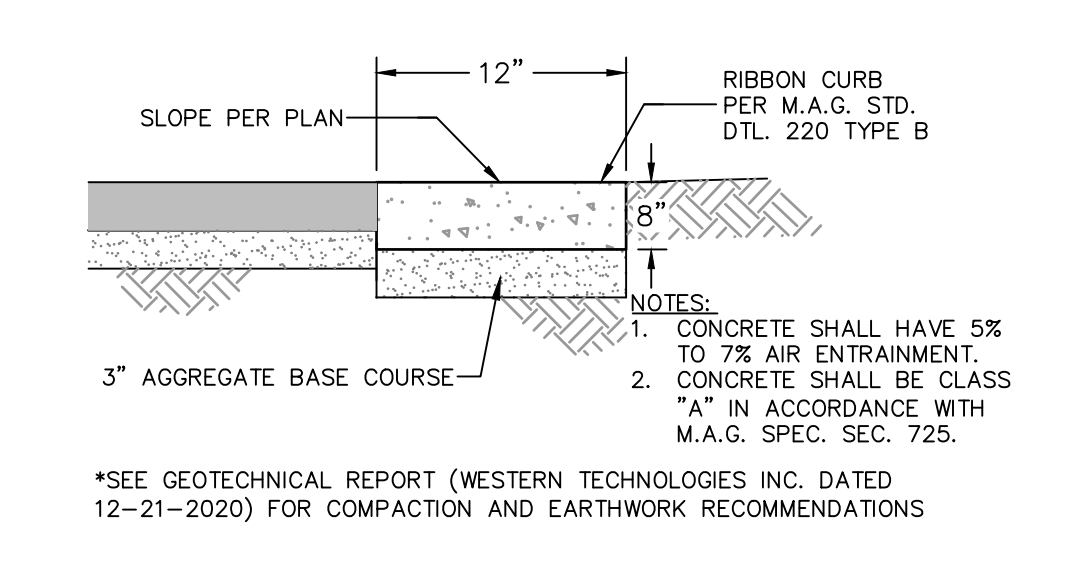
D CONCRETE SIDEWALK
STRUCTURAL SECTION N.T.S.



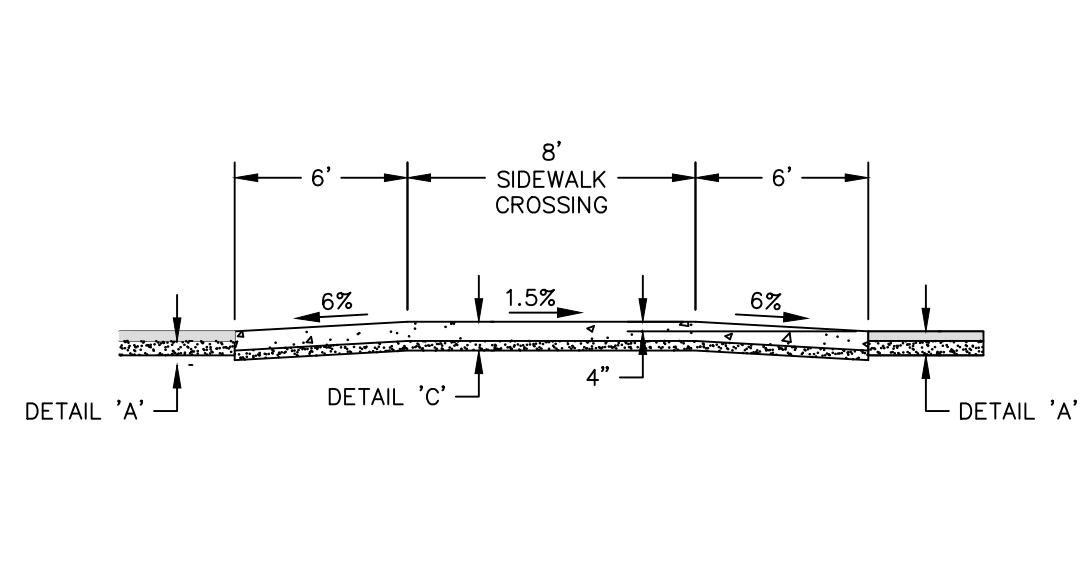
E LANDSCAPE SWALE
N.T.S.



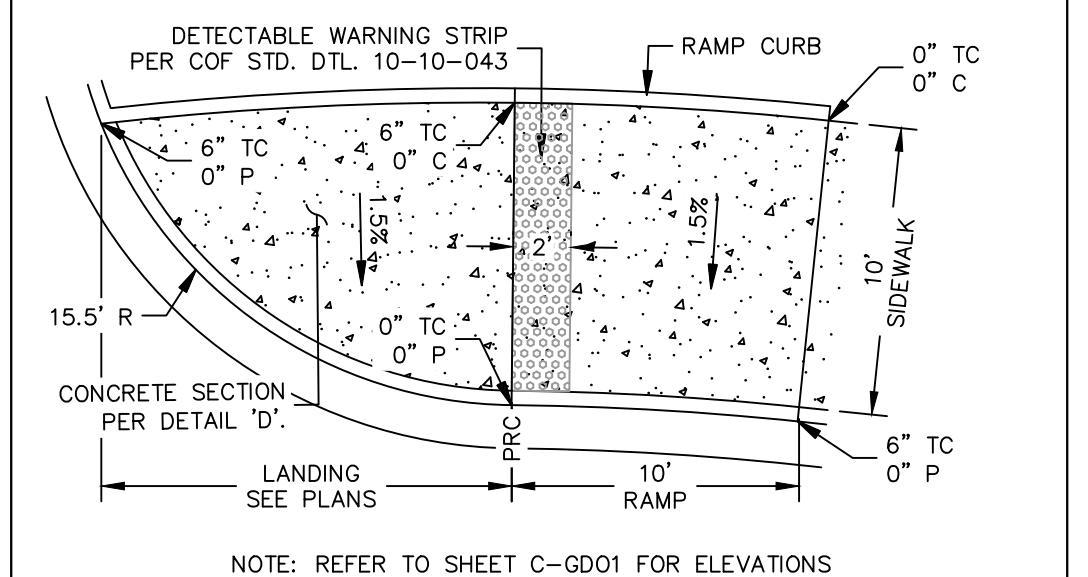
F RIPRAP INSTALLATION DETAIL
N.T.S.



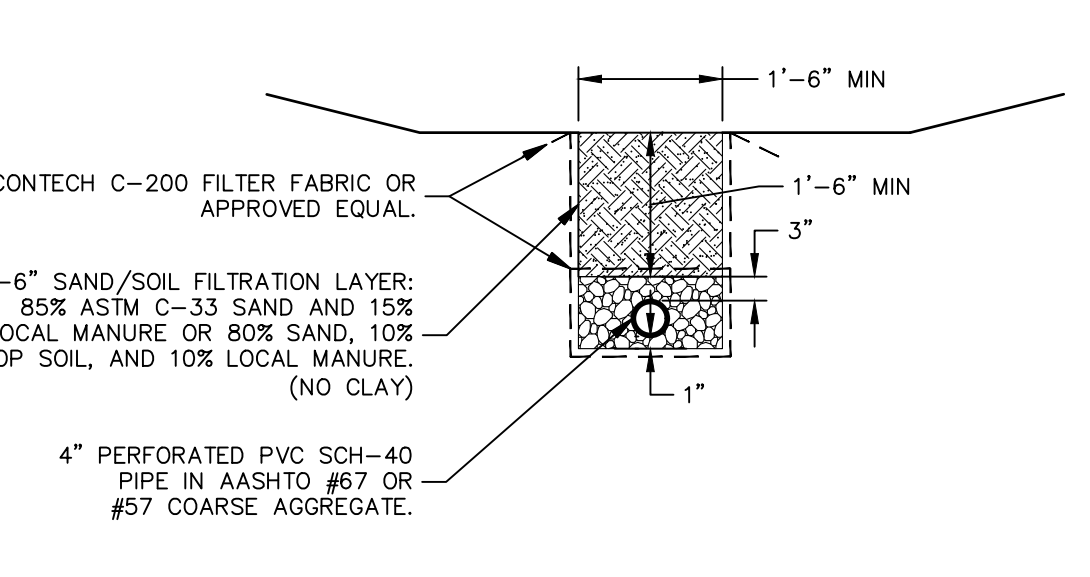
G RIBBON CURB
N.T.S.



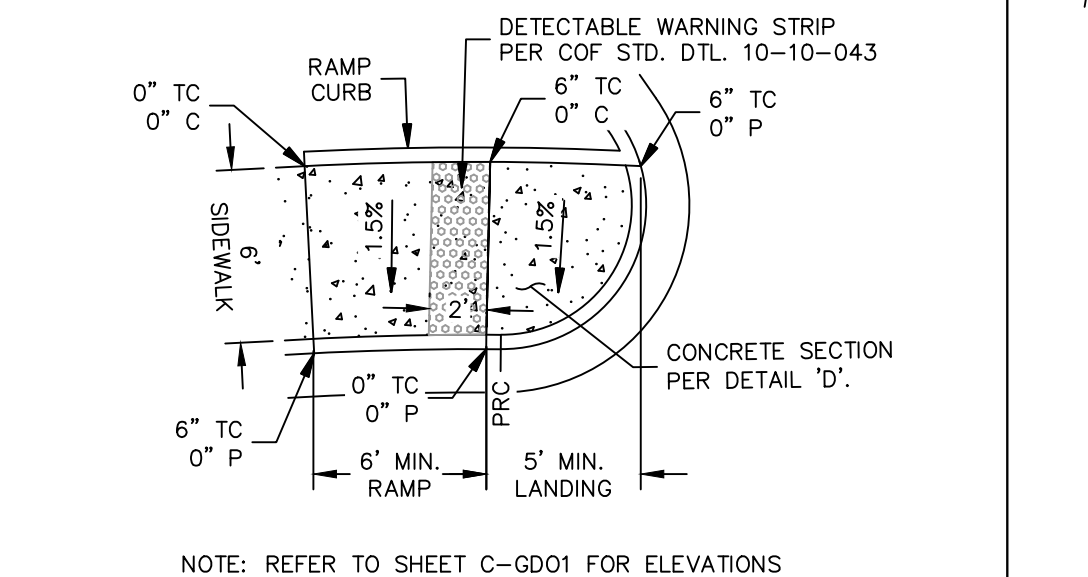
H SPEED TABLE (RAISED CROSSWALK)
N.T.S.



I SIDEWALK RAMP
N.T.S.



J BASIN TRENCH DRAIN
N.T.S.

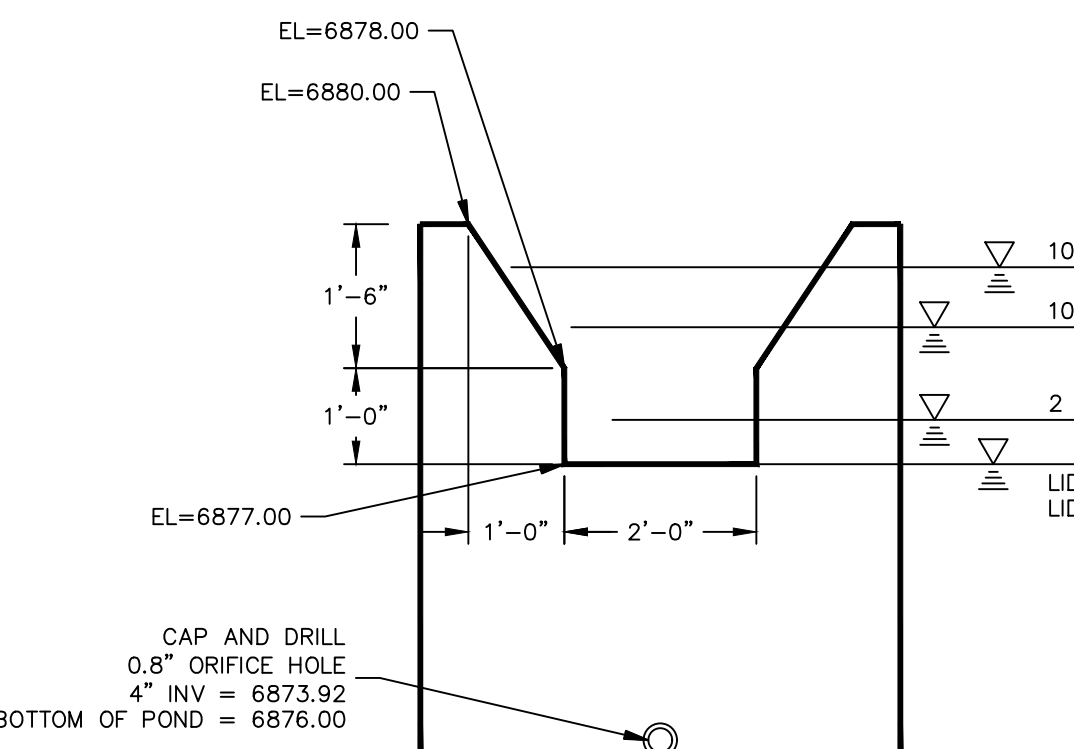


M SIDEWALK RAMP
N.T.S.

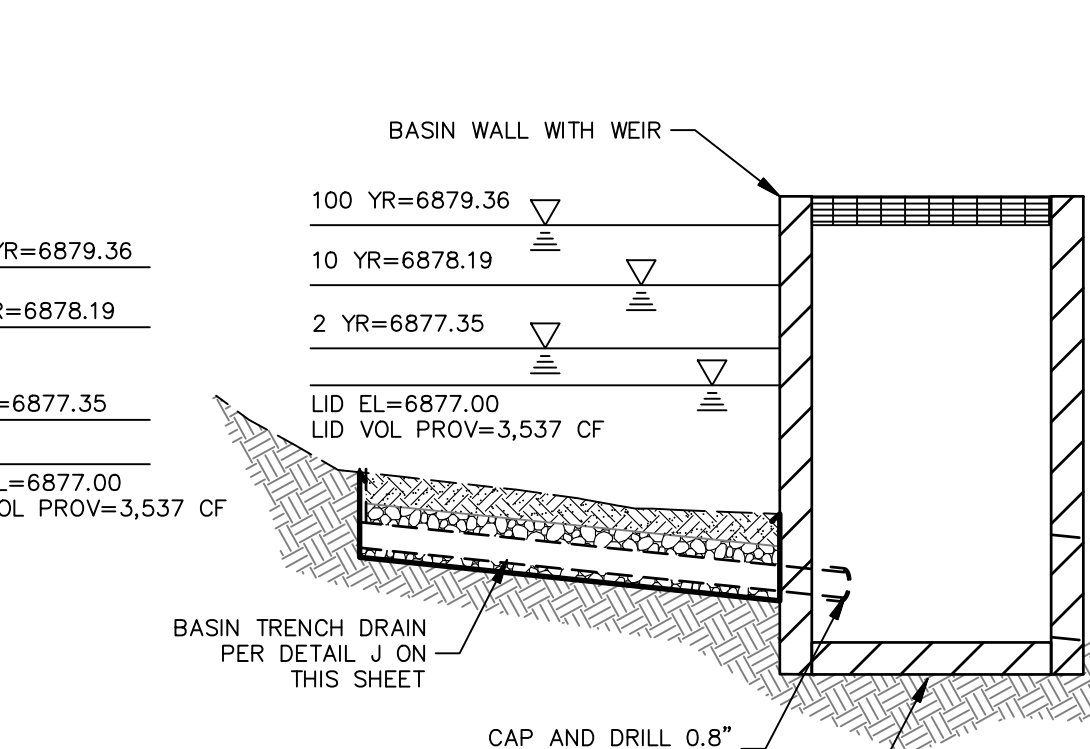
RIPRAP GRADATION TABLE

PERCENT PASSING	SIZE	6	1	9	12	18	24	36	48	72	60
100 to 90	2.0 D-50	12	18	24	36	48	72	60			
85 to 70	1.5 D-50	9	14	18	27	36	54	45			
50 to 30	1.0 D-50	6	9	12	18	24	36	30			
15 to 5	0.67 D-50	4	6	8	12	16	24	20			
5 to 0	0.33 D-50	2	3	4	6	8	12	10			

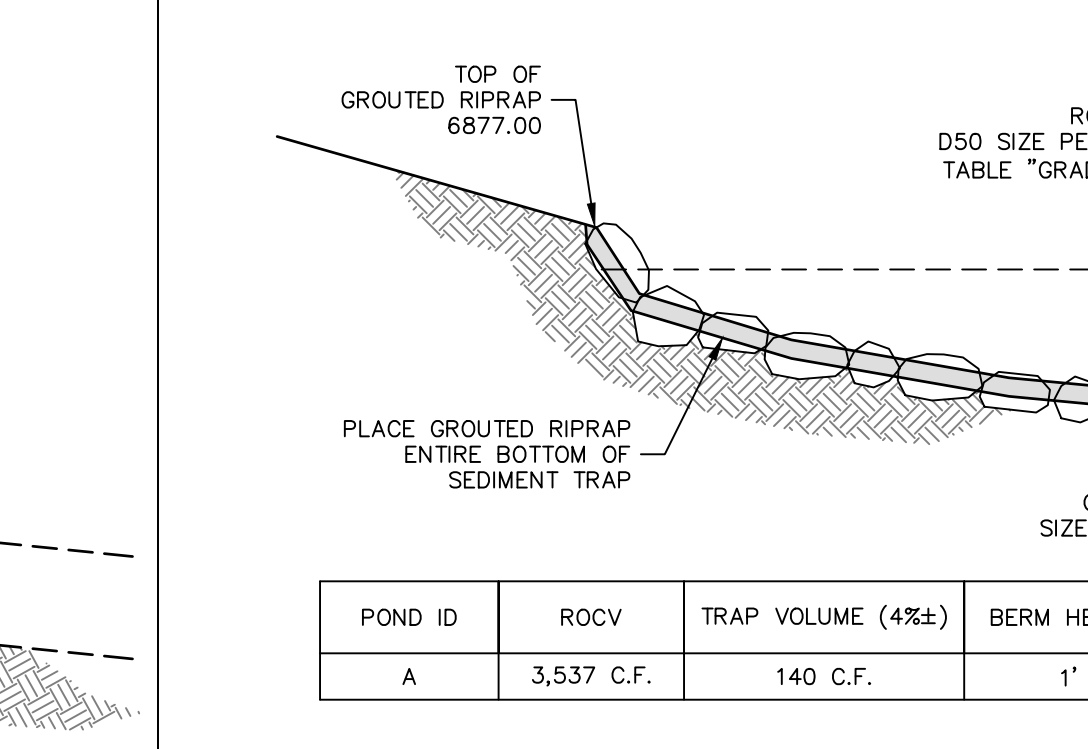
M SIDEWALK RAMP
N.T.S.



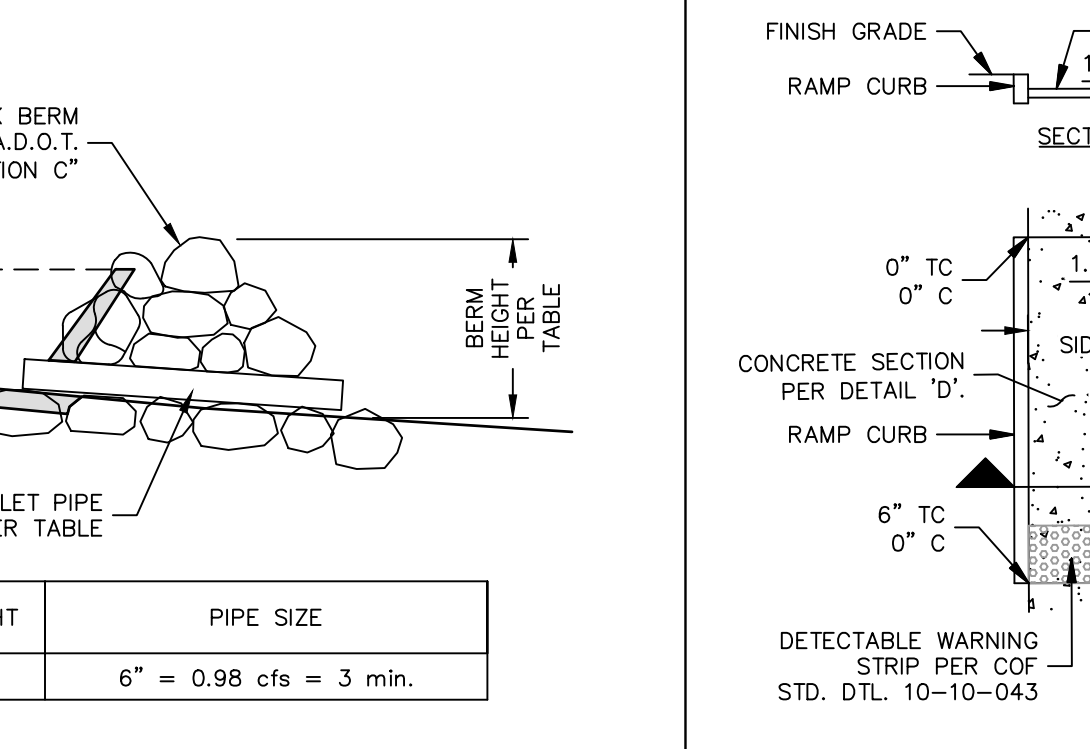
K CATCH BASIN POND OUTLET WEIR
N.T.S.



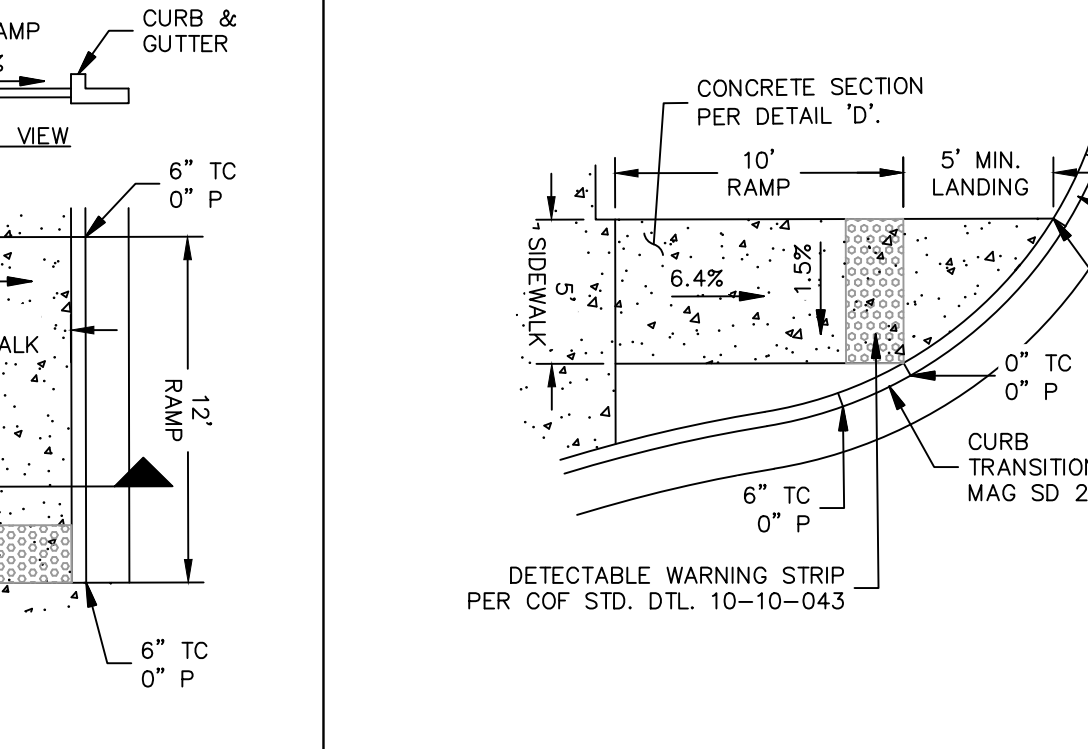
L BASIN SEDIMENT TRAP
N.T.S.



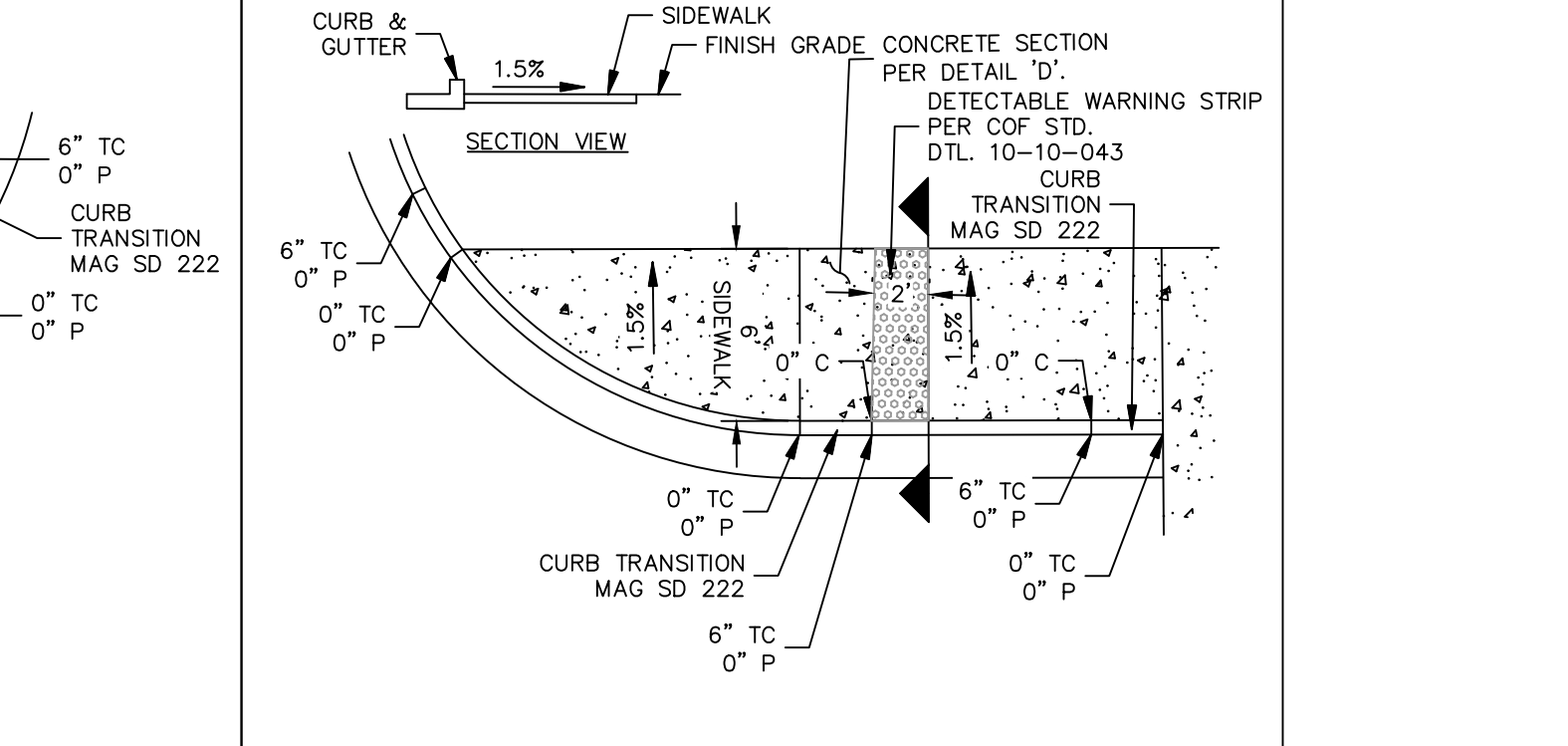
N SIDEWALK RAMP
N.T.S.



O SIDEWALK RAMP
N.T.S.



P SIDEWALK
N.T.S.



Q SIDEWALK
N.T.S.

DLR Group
©DLR Group

PRELIMINARY
NOT FOR CONSTRUCTION,
BIDDING OR RECORDING

SWI
Shephard Wesnitzer, Inc.

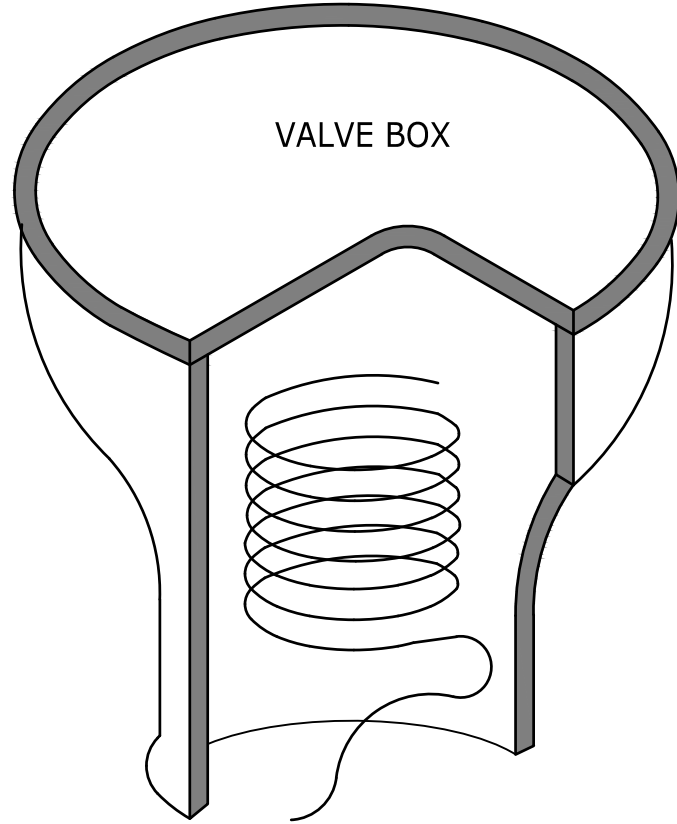
ARIZONA 801
Arizona Building & Construction
Call at least two full working days
before start of work
801-462-8888
Fax 801-462-8888

KILLIP ELEMENTARY SCHOOL
FLAGSTAFF UNIFIED SCHOOL DISTRICT
2300 E. 6th Ave., Flagstaff, AZ 86004

100% CONSTRUCTION DOCUMENTS
02.08.2021
REVISIONS
AS11 REGIONAL DET. BASIN
06/15/2021

30-20149-00
NOTES AND DETAILS

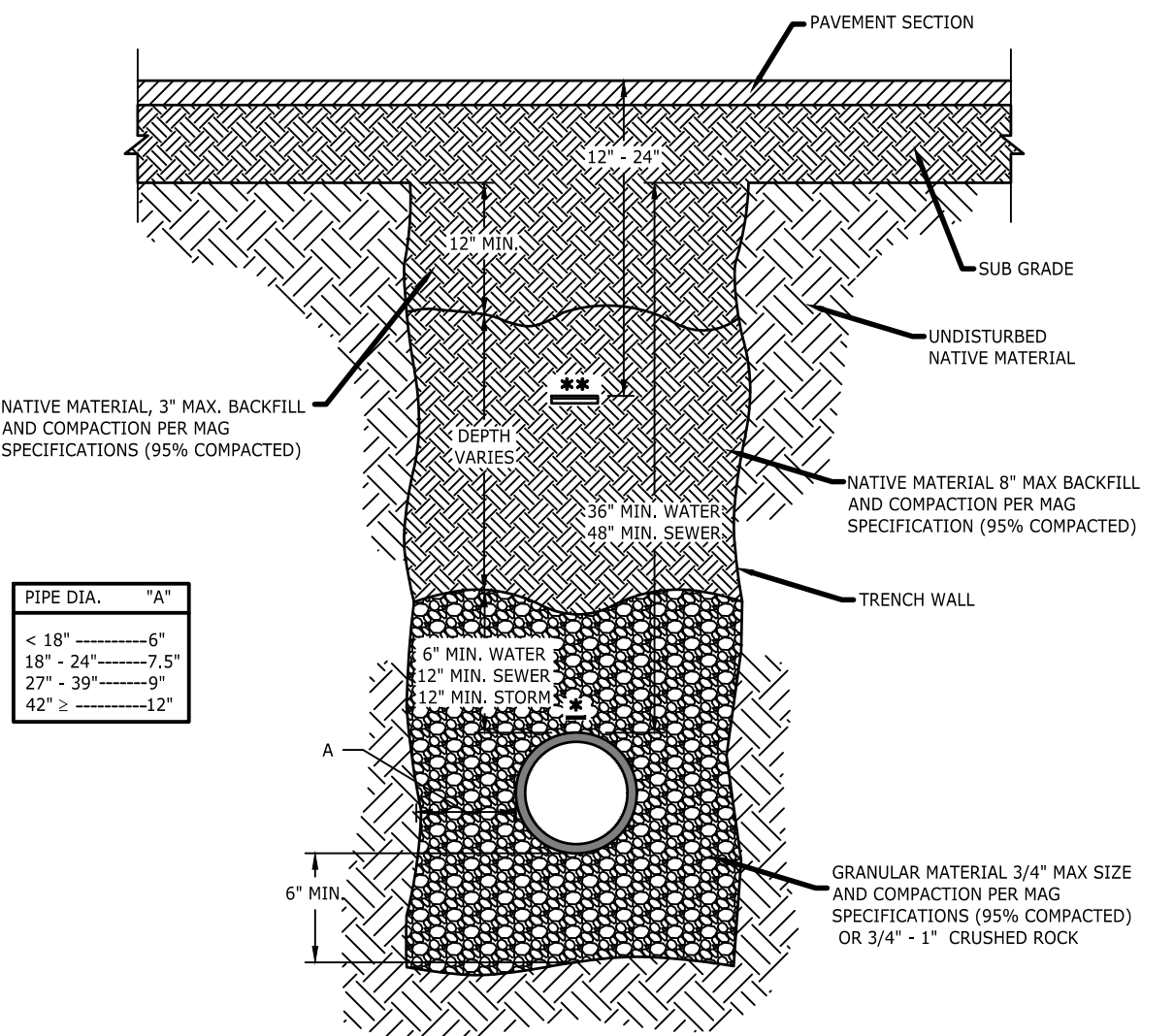
C-GN01
COF PZ-20-00157



NOTES:

- THE UP-600 TRACER WIRE SHALL BE A MINIMUM 8 FOOT OUTSIDE OF BOX WHEN EXTENDED, IN A CAST IRON VALVE BOX WITHOUT A VALVE.
- THE TRACER WIRE EXTENDS FROM THE MAIN ON THE FIRE HYDRANT OR METER SERVICE RUNS. THE END COIL MUST BE SET IN A SERVICE VALVE BOX.
- COVER SHALL BE LABELED WATER, SEWER OR RECLAIM WASTEWATER.
- LOCATE VALVE BOX 1 FOOT BEHIND SIDEWALK WITHIN RIGHT OF WAY.

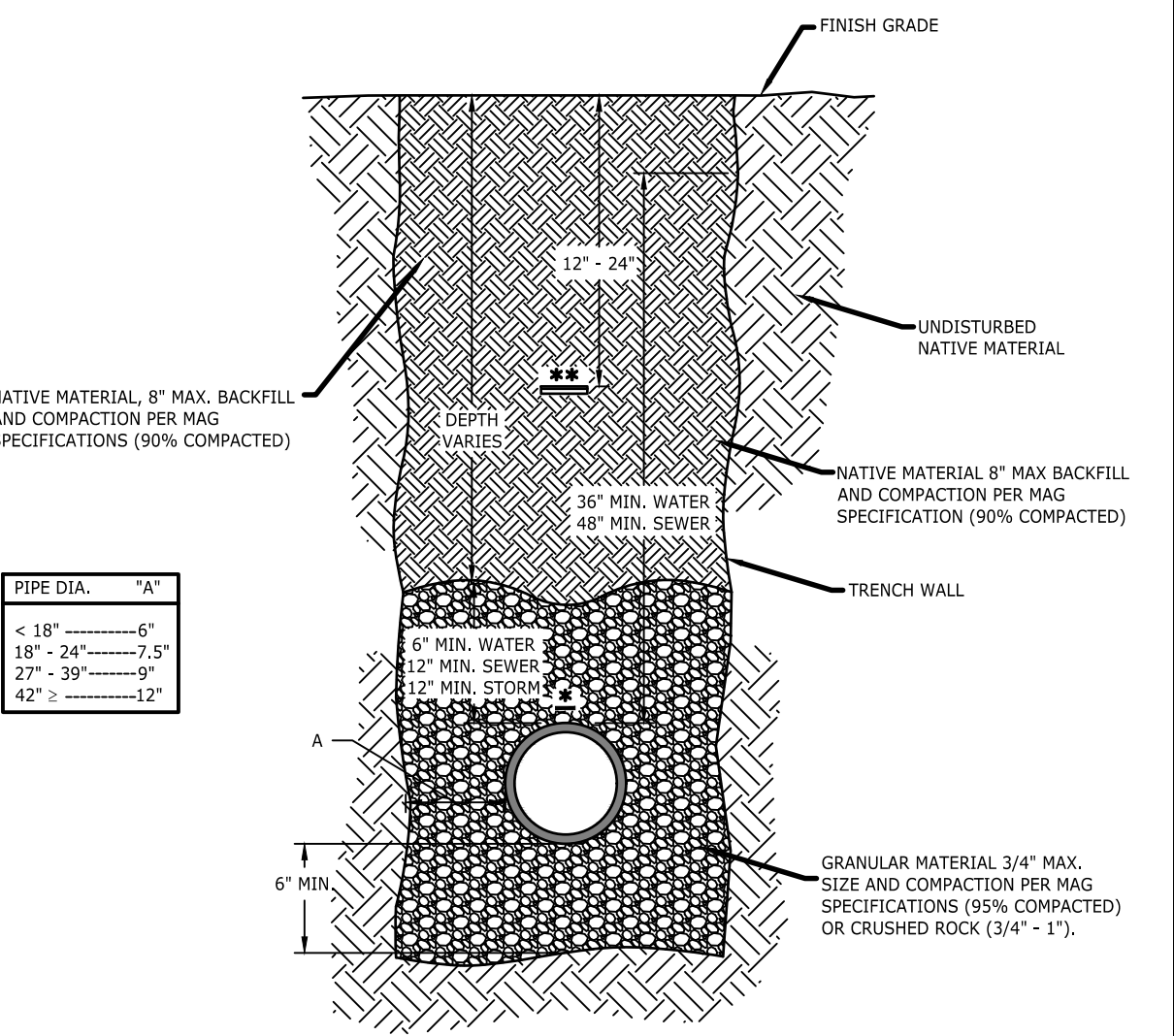
City of Flagstaff	TRACER WIRE	ENGINEERING DETAIL	DETAIL NO. 09-01-020	REVISION DATE: 12/30/2017	1	1
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NOTES:

- NATIVE BACKFILL SHALL BE PER MAG SPECS AND MAY BE SELECTED FROM THE EXCAVATION MATERIAL OR FROM A SOURCE SELECTED BY THE CONTRACTOR AND APPROVED BY THE CITY ENGINEER.
- IF THE UNPAVED STREET HAS A SURFACE MATERIAL (ABC, CINDERS, ETC) OTHER THAN NATIVE, THE SURFACE MATERIAL SHALL BE REPLACED TO ITS EXISTING DEPTH.
- NON-SHRINK BACKFILL IN ACCORDANCE WITH COF STD. 9-4-030 AND MAY BE USED FOR BACKFILL UP TO EXISTING SUBGRADE. THE NON-SHRINK BACKFILL SHALL BE PROPORTIONED AS FOLLOWS: 2000 LBS OF 3/8" MINUS AGGREGATE, 94 LBS CEMENT AND 11 GALLONS WATER.
- TRACER WIRE TAPES TO TOP CENTER OF MAIN WITH 10MIL PVC TAPE ON 4" CENTERS, SEE COF STD 9-01-020.

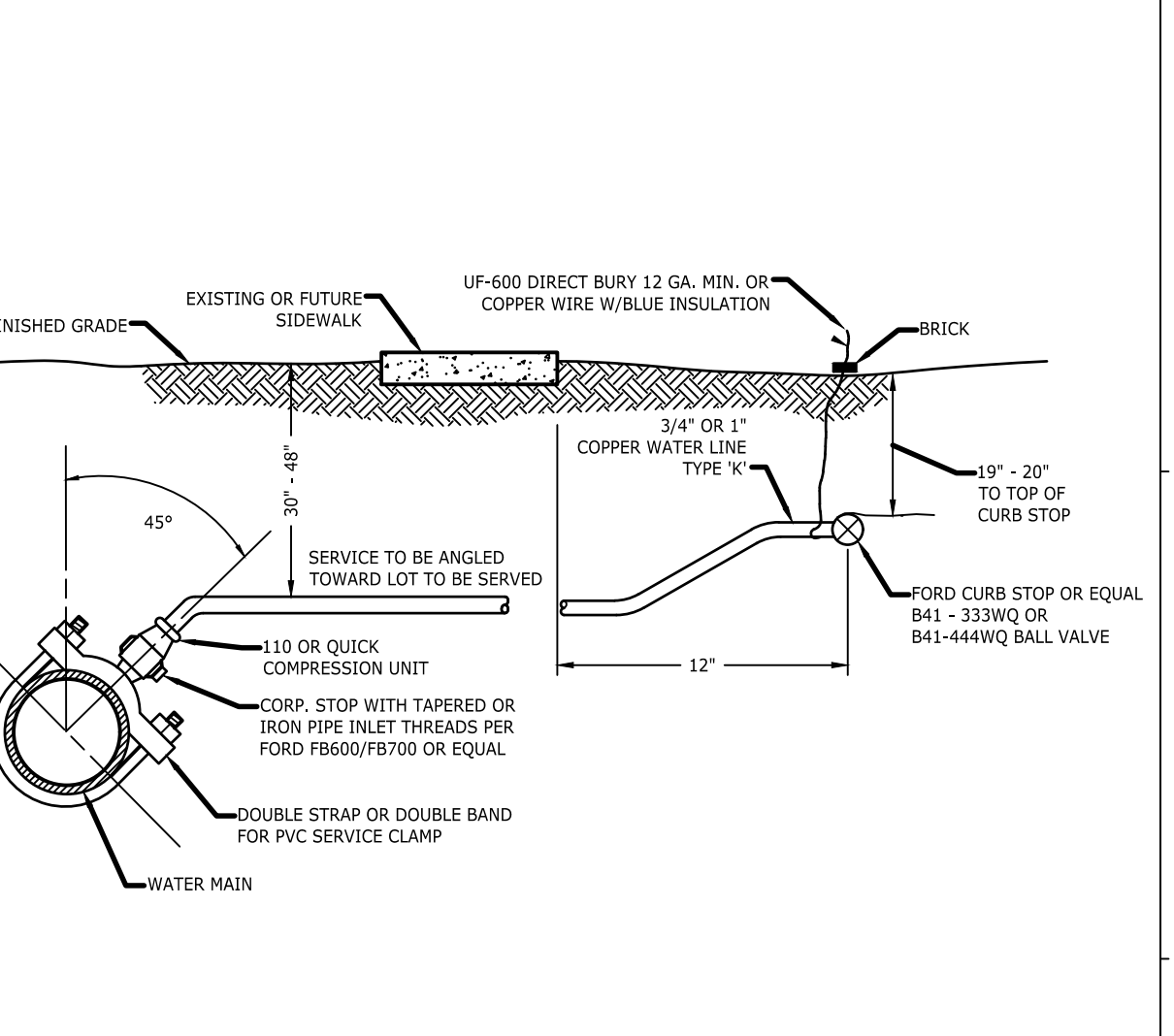
City of Flagstaff	TRENCHING & BACKFILL EXISTING PAVED STREET	ENGINEERING DETAIL	DETAIL NO. 09-01-030	REVISION DATE: 12/30/2017	1	1
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NOTES:

- NATIVE BACKFILL SHALL BE PER MAG SPECS AND MAY BE SELECTED FROM THE EXCAVATION MATERIAL OR FROM A SOURCE SELECTED BY THE CONTRACTOR AND APPROVED BY THE CITY ENGINEER.
- IF THE UNPAVED STREET HAS A SURFACE MATERIAL (ABC, CINDERS, ETC) OTHER THAN NATIVE, THE SURFACE MATERIAL SHALL BE REPLACED TO ITS EXISTING DEPTH.
- NON-SHRINK BACKFILL IN ACCORDANCE WITH COF STD. 9-4-030 AND MAY BE USED FOR BACKFILL UP TO 6" BELOW FINISH GRADE. THE FINAL 6" SHALL BE NATIVE MATERIAL. IF MAX. THE NON-SHRINK BACKFILL SHALL BE PROPORTIONED AS FOLLOWS: 2000 LBS OF 3/8" MINUS AGGREGATE, 94 LBS CEMENT AND 11 GALLONS WATER.
- TRACER WIRE TAPES TO TOP CENTER OF MAIN WITH 10MIL PVC TAPE ON 4" CENTERS, SEE COF STD 9-01-020.

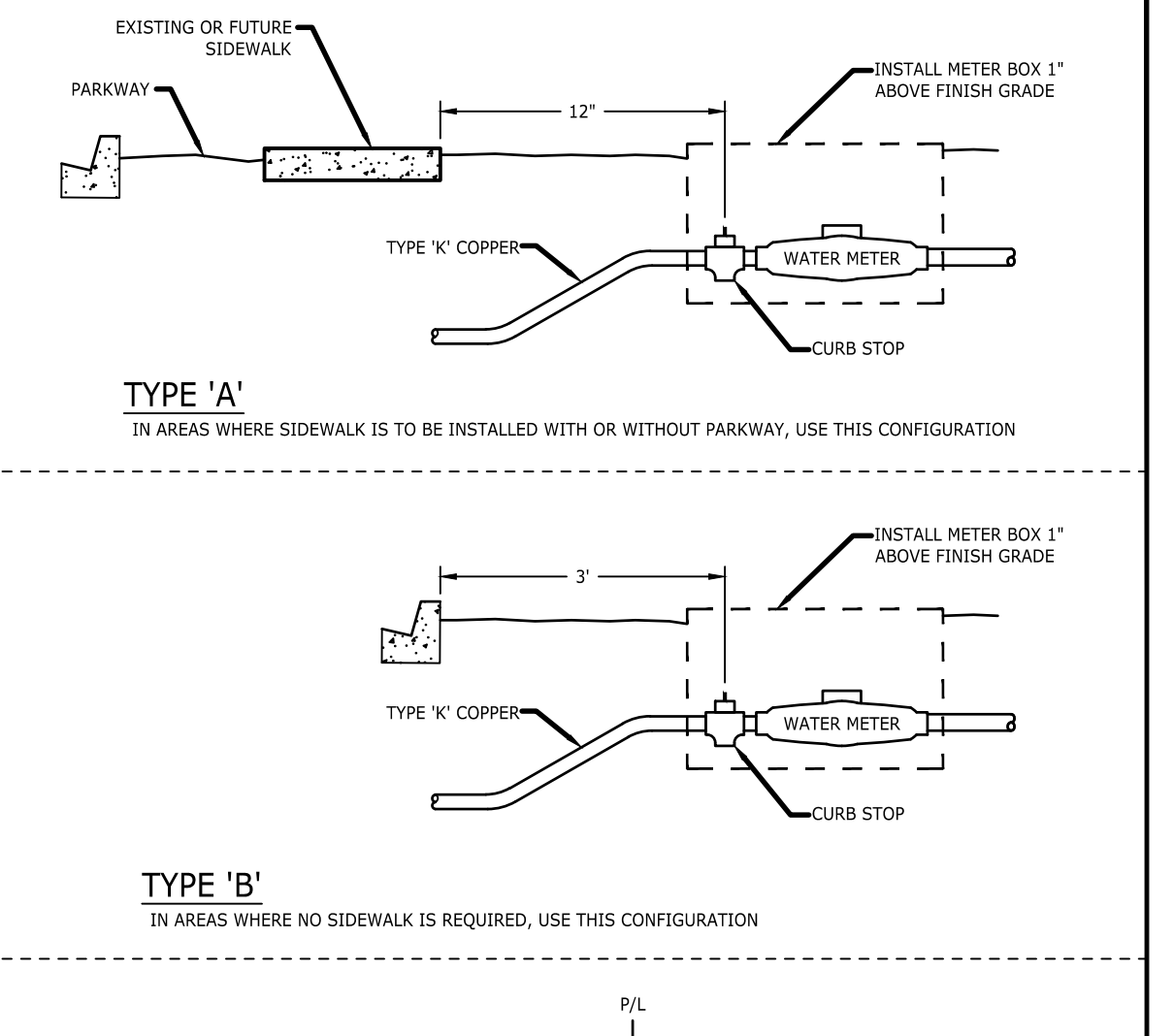
City of Flagstaff	TRENCHING AND BACKFILL UNPAVED EASEMENT OR STREET	ENGINEERING DETAIL	DETAIL NO. 09-01-032	REVISION DATE: 12/30/2017	1	1
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NOTES:

- A CORRECT REDUCED PRESSURE BACKFLOW ASSEMBLY (RPA) INSTALLATION IS SHOWN ABOVE. THERE MUST NOT BE ANY CONNECTIONS ON THE SERVICE LINE BETWEEN THE RPA AND THE WATER METER.
- PROTECTIVE CASING IS OPTIONAL, AND WHEN INSTALLED MUST MEET CLEARANCE REQUIREMENTS IN ADDITION TO PROVIDING SIDE AND TOP ACCESS.
- CASES MUST NOT STAY IN WATER.
- THE ASSEMBLY MUST BE ACCESSIBLE AT ALL TIMES.
- THE RPA MUST BE INSTALLED ABOVE GROUND AND AS CLOSE TO THE WATER METER AS POSSIBLE.
- THE ASSEMBLY MUST BE PROTECTED FROM FREEZING.
- DISTANCE FROM THE BOTTOM OF PRESSURE HELPFUL VALVE TO THE DRAIN OPENING MUST BE A MINIMUM OF TWICE THE DIAMETER OF THE ASSEMBLY PIPING.
- INSTALLATION MUST MEET UNIFORM PLUMBING CODES IN ADDITION TO FLAGSTAFF WATER STANDARDS DETAILS.
- INSTALLATION MUST BE LEFT EXPOSED UNTIL INSPECTED AND APPROVED BY FLAGSTAFF CITY UTILITIES.
- IN CASES WHERE WATER SUPPLY MAY NOT BE INTERRUPTED DURING NORMAL WORKING HOURS, TWO ASSEMBLIES INSTALLED IN PARALLEL ARE REQUIRED.
- THE ASSEMBLY MUST BE APPROVED BY THE CITY UTILITIES PRIOR TO INSTALLATION.
- FOR AN UPDATED LIST OF APPROVED ASSEMBLIES OR ADDITIONAL QUESTIONS CONTACT THE CITY UTILITIES DEPARTMENT AT (909) 213-3117.
- THREE SETS OF PLANS SHALL BE SUBMITTED TO CITY UTILITIES DEPARTMENT FOR APPROVAL BY SIGNATURE PRIOR TO INSTALLATION.

City of Flagstaff	WATER SERVICE CONNECTION 3/4" AND 1"	ENGINEERING DETAIL	DETAIL NO. 09-03-070	REVISION DATE: 12/30/2017	1	2
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NOTES:

- METER BOX SHALL BE SET ON FRONT PROPERTY LINE.
- 3/4" AND 1" CURB STOP SHALL BE 24" OUTSIDE PROPERTY LINE.
- 1 1/2" AND 2" CURB STOP SHALL BE 36" OUTSIDE PROPERTY LINE.
- CURB STOP SHALL BE 2" FROM INSIDE OF BOX TO ALLOW FOR EASY ACCESS TO BOTH COUPLINGS.

City of Flagstaff	WATER SERVICE CONNECTION 1 1/2" AND 2"	ENGINEERING DETAIL	DETAIL NO. 09-03-070	REVISION DATE: 12/30/2017	2	2
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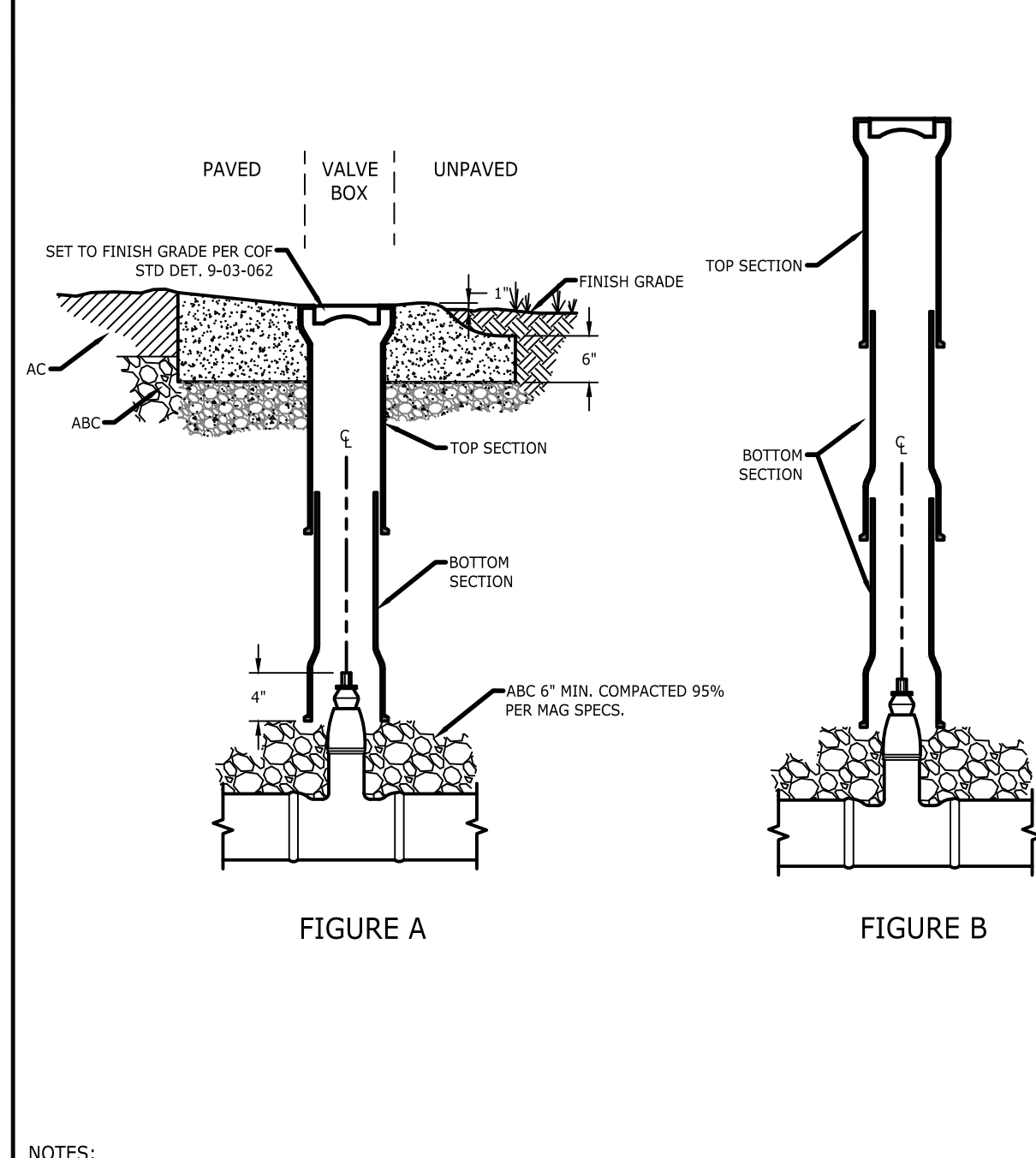


FIGURE A

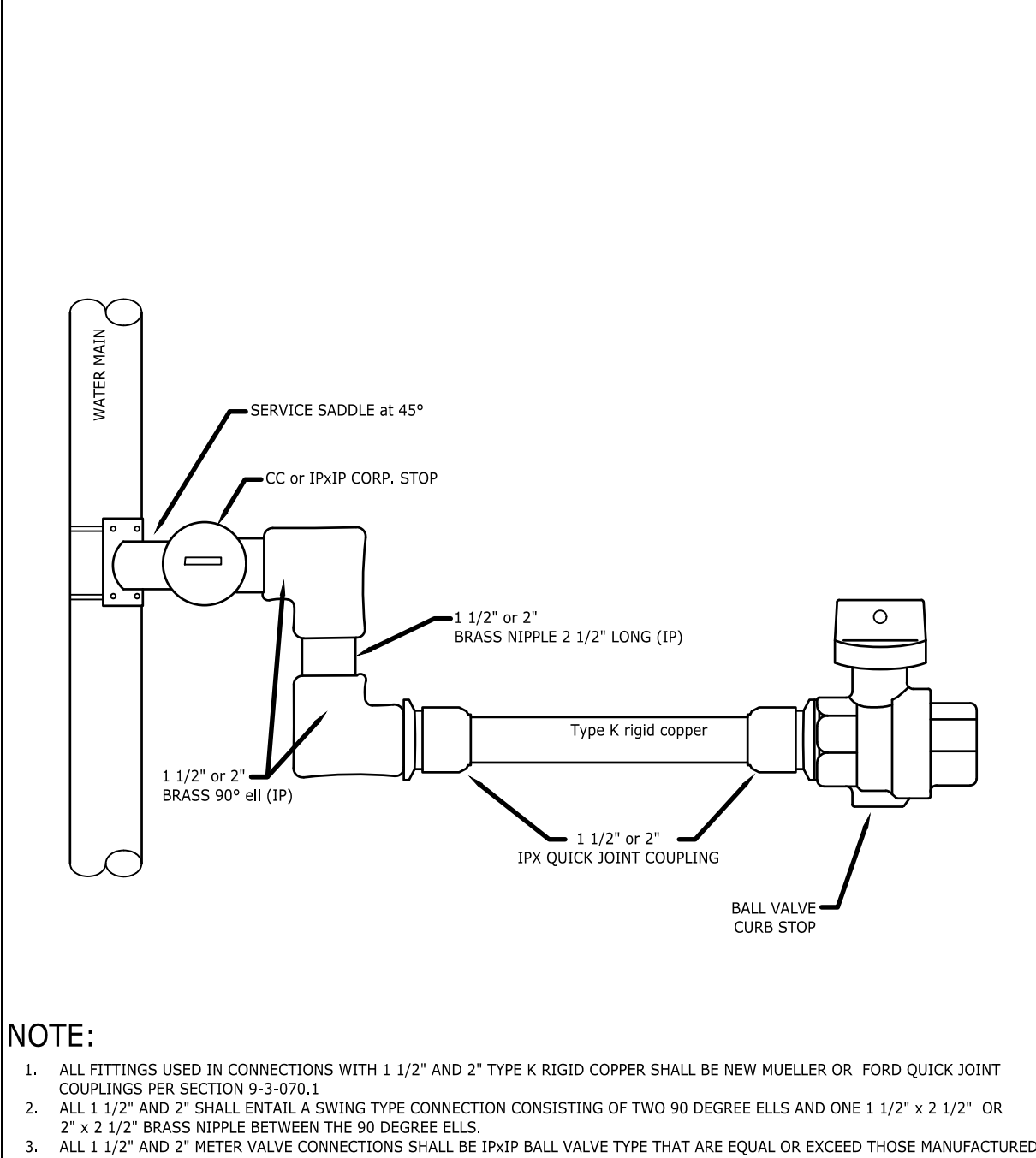


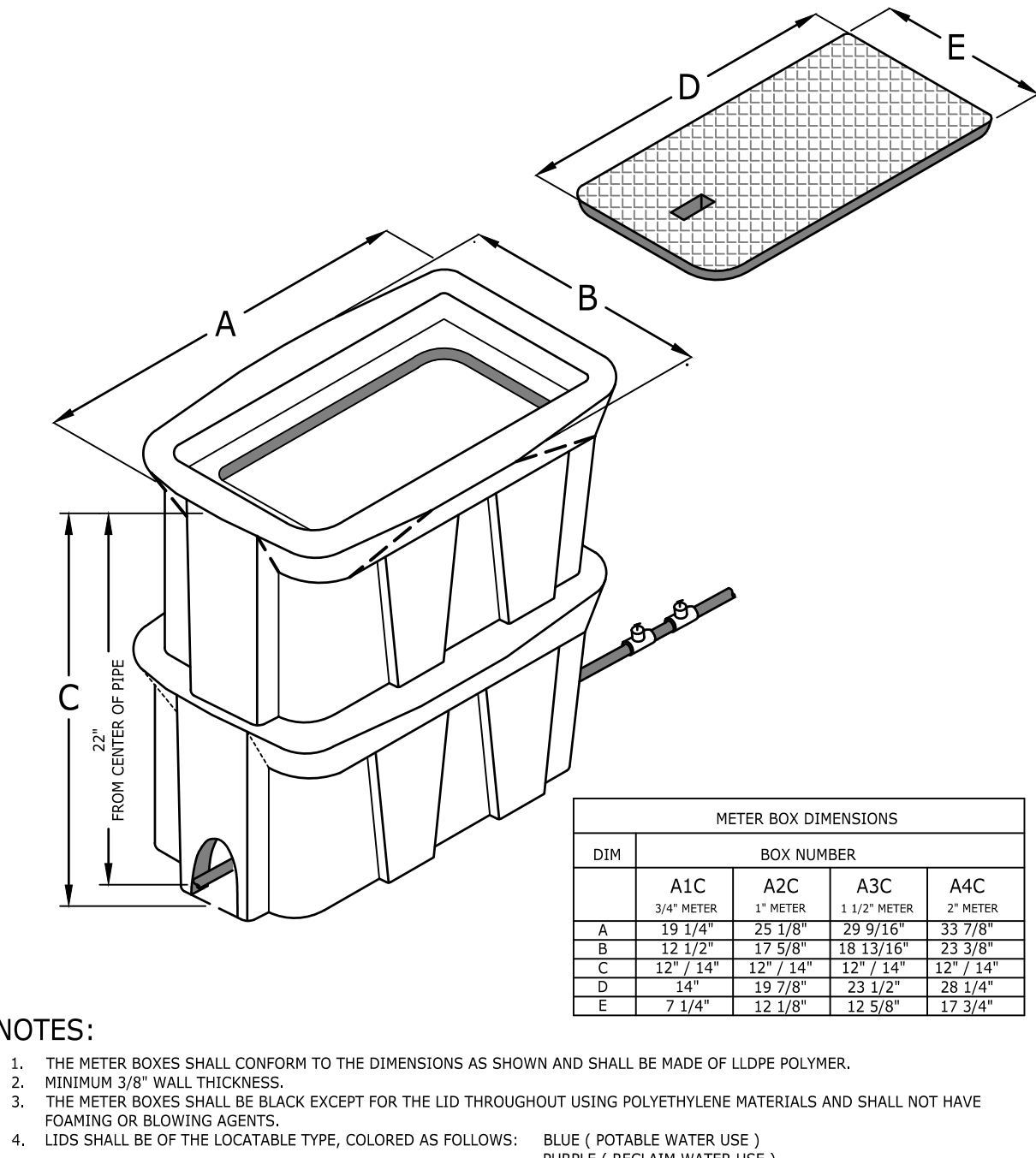
FIGURE B

NOTE:

- ALL FITTINGS USED IN CONNECTIONS WITH 1 1/2" AND 2" TYPE K RIGID COPPER SHALL BE NEW MUELLER OR FORD QUICK JOINT COUPLINGS PER SECTION 9-03-073.
- ALL 1 1/2" AND 2" SHALL INSTALL A SWING TYPE CONNECTION CONSISTING OF TWO 90 DEGREE ELLS AND ONE 1 1/2" x 2 1/2" OR 2" x 2 1/2" BRASS WIPER BETWEEN THE 90 DEGREE ELLS.
- ALL 1 1/2" AND 2" METER VALVE CONNECTIONS SHALL BE IPWP BALL VALVE TYPE THAT ARE EQUAL OR EXCEED THOSE MANUFACTURED FORD, B1-660, OR JONES J-3000.
- THE CURB STOP SHALL BE INSTALLED 19-20" BELOW FINISH GRADE.

City of Flagstaff	VALVE BOX ADJUSTMENT	ENGINEERING DETAIL	DETAIL NO. 09-03-060	REVISION DATE: 12/30/2017	1	1
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City of Flagstaff	WATER SERVICE CONNECTION 1 1/2" AND 2"	ENGINEERING DETAIL	DETAIL NO. 09-03-071	REVISION DATE: 12/30/2017	1	1
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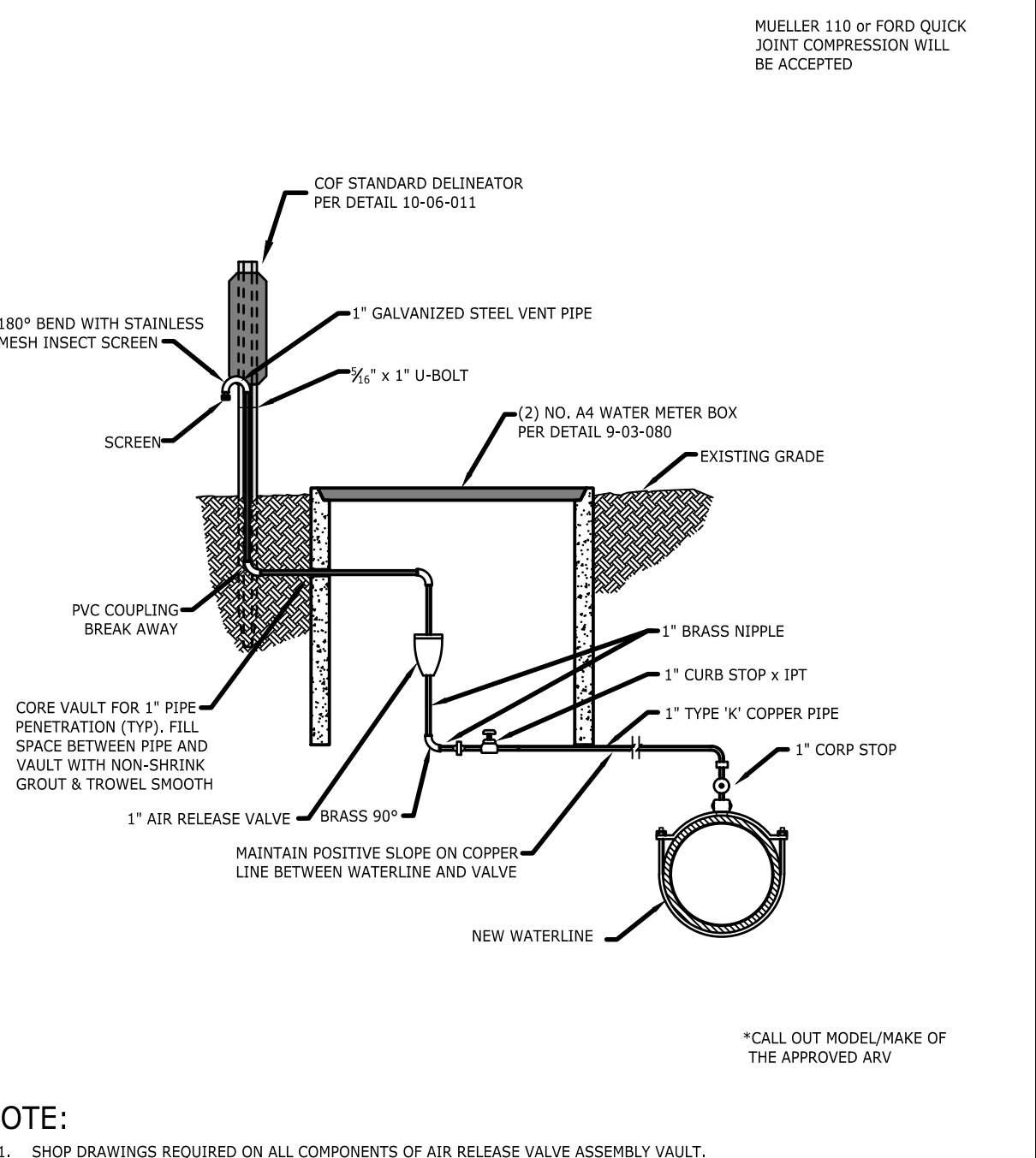


NOTES:

- THE METER BOXES SHALL CONFORM TO THE DIMENSIONS AS SHOWN AND SHALL BE MADE OF LDPE POLYMER.
- METER BOX WALL THICKNESS:
- THE METER BOXES SHALL BE BLACK EXCEPT FOR THE LID THROUGHOUT USING POLYETHYLENE MATERIALS AND SHALL NOT HAVE PAINTING OR BLOWING AGENTS.
- LIDS SHALL BE OF THE LOCATABLE TYPE, COLORED AS FOLLOWS: BLUE (PORTABLE WATER USE) PURPLE (RECLAIM WATER USE)
- BOXES & LIDS SHALL BE MADE IN THE U.S.A. BY DFW OR APPROVED EQUIVALENT.

BOX NUMBER	A1C	A2C	A3C	A4C	7" METR.
A	18 1/4"	23 1/8"	29 3/8"	33 7/8"	33 7/8"
B	12 1/2"	17 5/8"	18 13/16"	23 3/8"	23 3/8"
C	14 1/4"	17 1/4"	18 1/4"	23 1/4"	23 1/4"
D	14"	19 7/8"	23 1/2"	28 1/4"	28 1/4"
E	7 1/4"	12 1/8"	12 5/8"	17 3/4"	17 3/4"

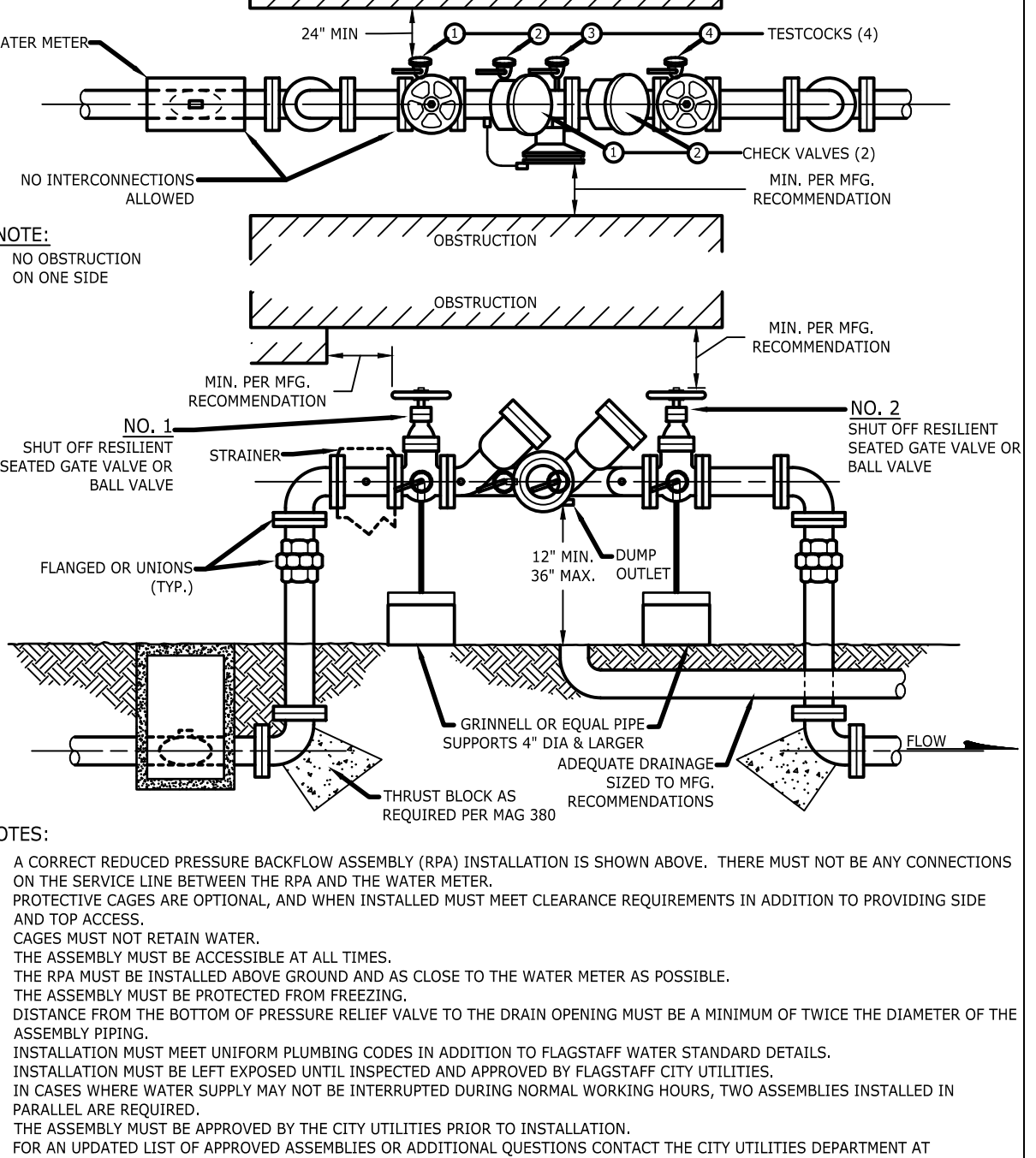
City of Flagstaff	POLYMER WATER METER BOX	ENGINEERING DETAIL	DETAIL NO. 09-03-080	REVISION DATE: 12/30/2017	1	1
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NOTE:

- SHOP DRAWINGS REQUIRED ON ALL COMPONENTS OF AIR RELEASE VALVE ASSEMBLY VAULT.
- SERVICE SADDLE AND CORP STOP PER COF STANDARD DETAIL 9-03-079-1

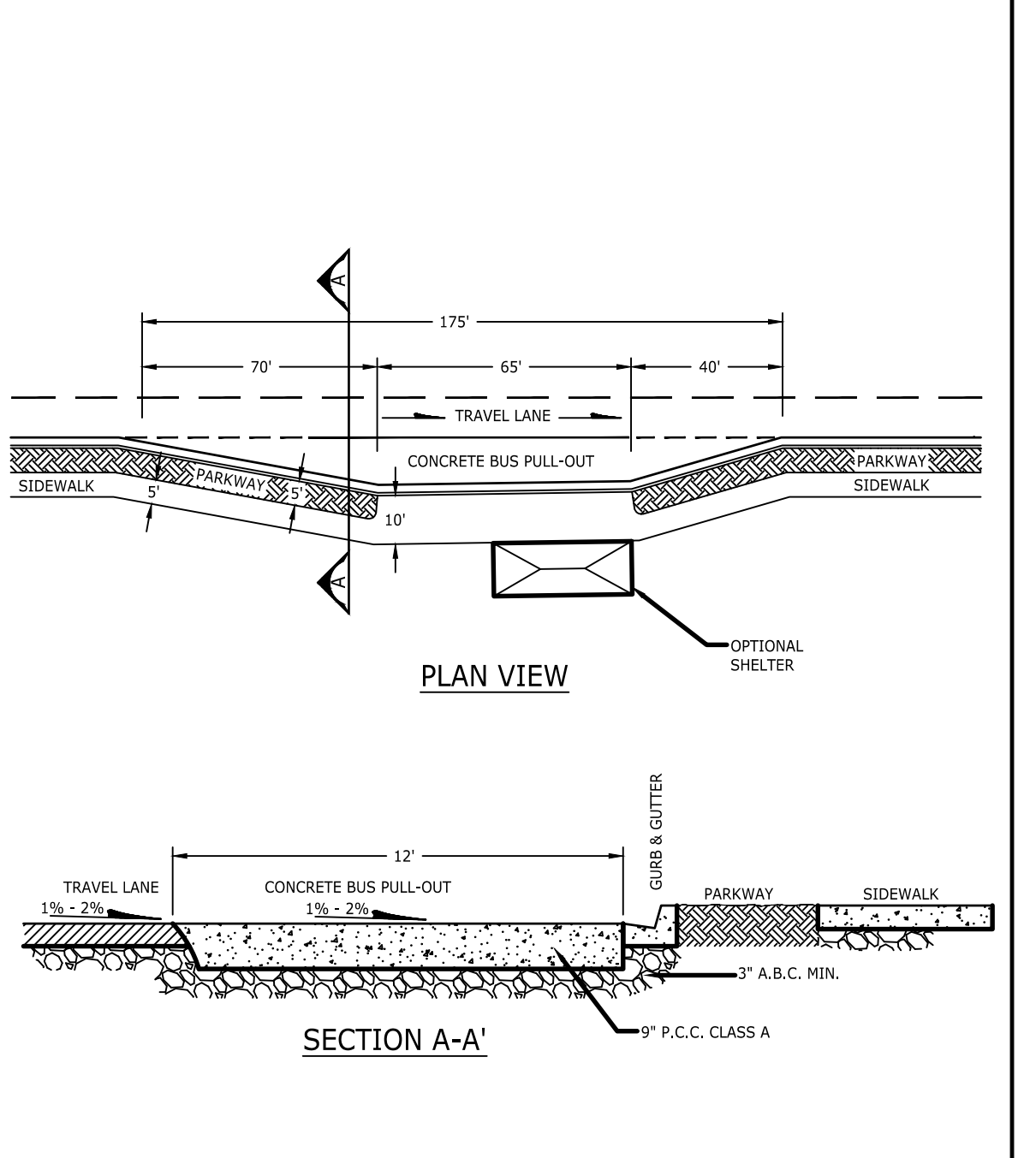
City of Flagstaff	AIR RELEASE VALVE 1"	ENGINEERING DETAIL	DETAIL NO. 09-03-101	REVISION DATE: 12/30/2017	1	1
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NOTES:

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- CASES MUST NOT STAY IN WATER.
- THE ASSEMBLY MUST BE ACCESSIBLE AT ALL TIMES.
- THE RPA MUST BE INSTALLED ABOVE GROUND AND AS CLOSE TO THE WATER METER AS POSSIBLE.
- THE ASSEMBLY MUST BE PROTECTED FROM FREEZING.
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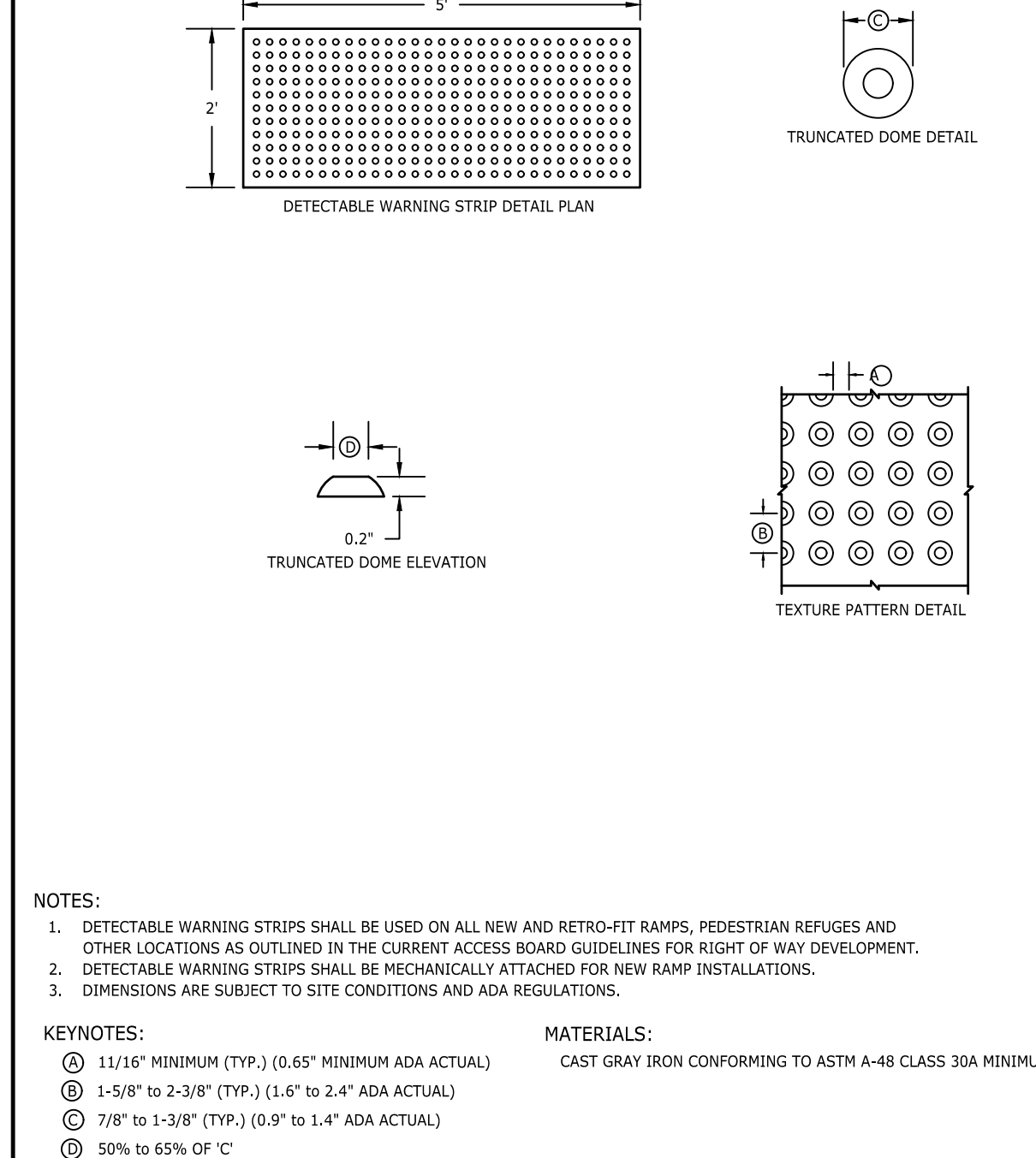
City of Flagstaff	REDUCED PRESSURE ASSEMBLY (RPA) INSTALLATION	ENGINEERING DETAIL	DETAIL NO. 09-09-072	REVISION DATE: 12/30/2017	1	1
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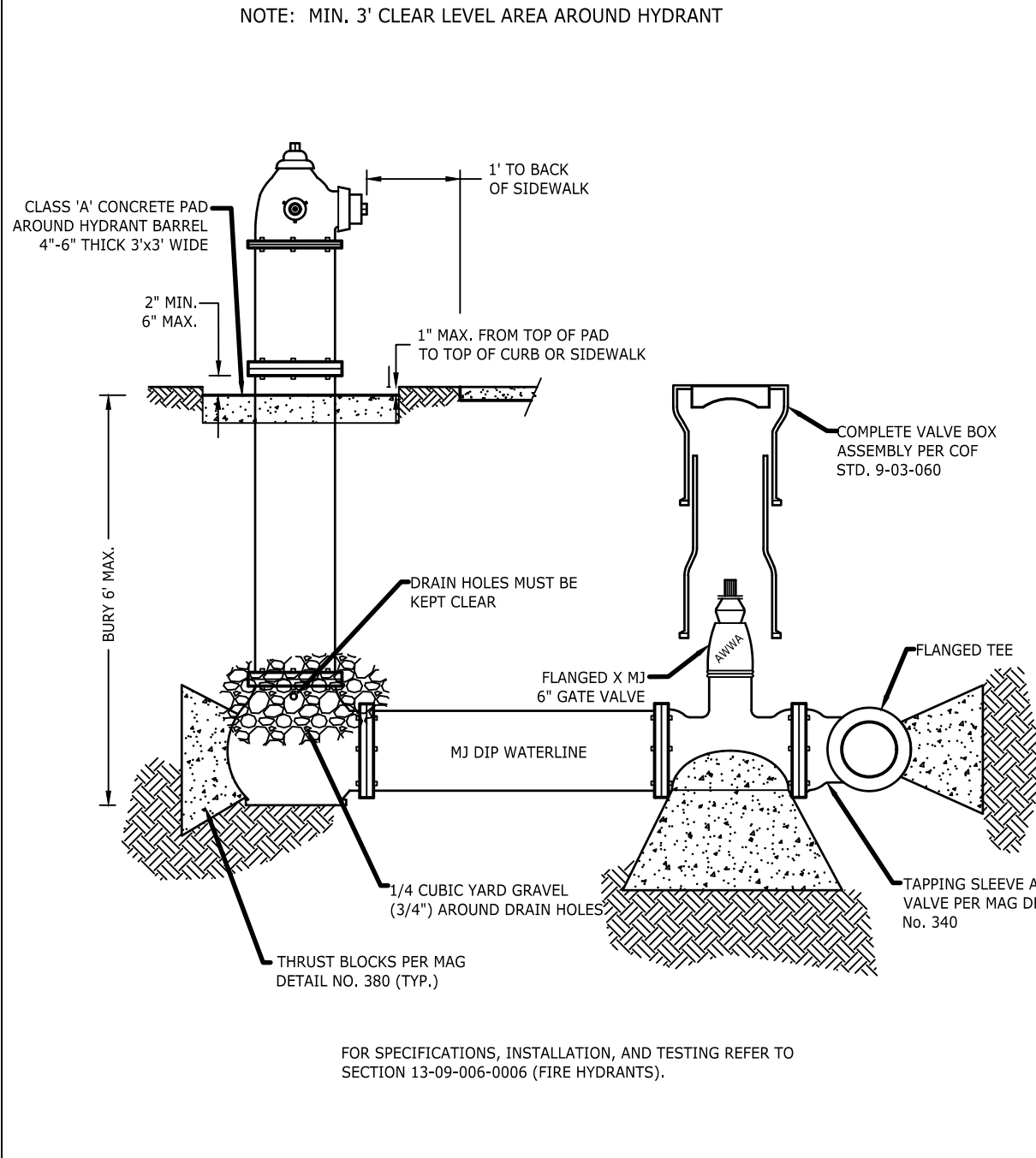
NOTES:

- DETECTABLE WARNING STRIPS SHALL BE USED ON ALL NEW AND RETRO-FIT RAMPS, PEDESTRIAN REFUGES AND OTHER LOCATIONS AS OUTLINED IN THE CURRENT ACCESS BOARD GUIDELINES FOR RIGHT OF WAY DEVELOPMENT.
- DETECTABLE WARNING STRIPS SHALL BE MECHANICALLY ATTACHED FOR NEW RAMP INSTALLATIONS.
- DIMENSIONS ARE SUBJECT TO SITE CONDITIONS AND ADA REGULATIONS.

City of Flagstaff	BUS PULLOUT	ENGINEERING DETAIL	DETAIL NO. 10-10-019	REVISION DATE: 12/30/2017	1	1
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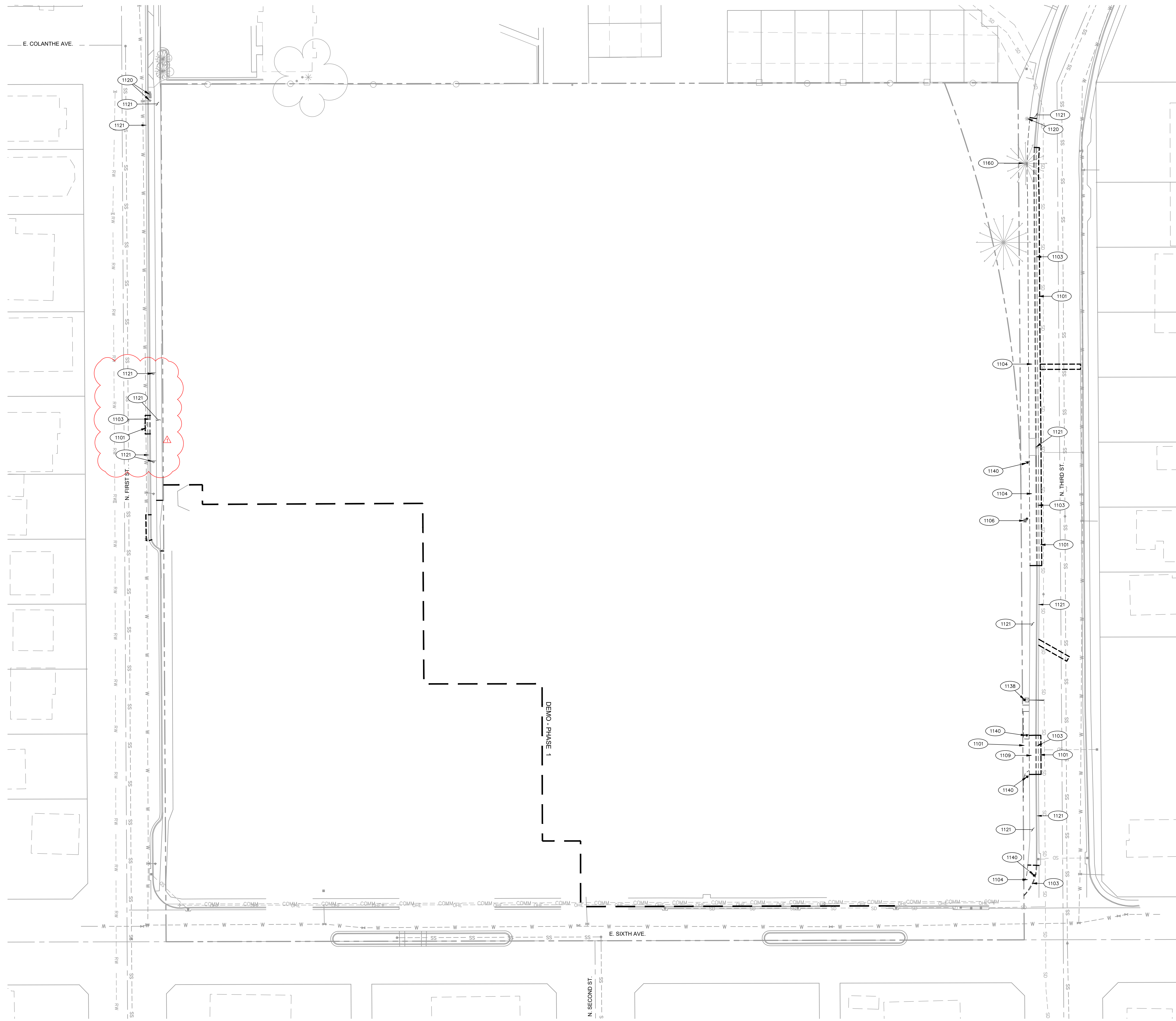
DETECTABLE WARNING STRIP DETAIL PLAN



FIRE HYDRANT ASSEMBLY

City of Flagstaff	DETECTABLE WARNING STRIP	ENGINEERING DETAIL	DETAIL NO. 10-10-043	REVISION DATE: 12/30/2017	1	1
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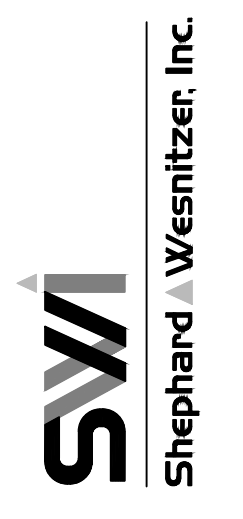
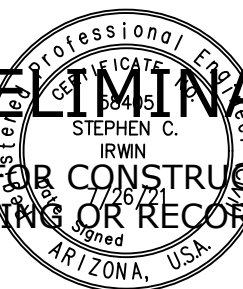
City of Flagstaff	FIRE HYDRANT ASSEMBLY	ENGINEERING DETAIL	DETAIL NO. 13-03-011	REVISION DATE: 12/30/2017	1	1
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PUBLIC DEMOLITION NOTES

- 1101 123 SY REMOVE AND DISPOSE OF EXISTING AC PAVEMENT PER M.A.G. SPECS. 336 & 350.
- 1103 392 LF REMOVE AND DISPOSE OF EXISTING CONCRETE CURB AND GUTTER PER M.A.G. SPECS. 336 & 350.
- 1104 1,887 SF REMOVE AND DISPOSE OF EXISTING CONCRETE SIDEWALK PER M.A.G. SPECS. 336 & 350. SIDEWALK SHALL BE REMOVED TO NEAREST JOINT.
- 1106 1 EA REMOVE AND SALVAGE EXISTING LIGHT POLE PER M.A.G. SPECS. 336 & 350. SALVAGE EXISTING MAST ARM AND LUMINAIRE TO OWNER, CONTRACTOR TO COORDINATE RELOCATION WITH THE CITY OF FLAGSTAFF.
- 1109 148 SF REMOVE AND DISPOSE OF EXISTING CONCRETE DRIVEWAY PER M.A.G. SPECS. 336 & 350.
- 1119 NPI WARNING! OVERHEAD UTILITY. CONTRACTOR TO MAINTAIN SAFE VERTICAL DISTANCE FROM EXISTING OVERHEAD UTILITY.
- 1120 NPI PROTECT EXISTING UTILITY IN PLACE
- 1121 NPI PROTECT EXISTING IMPROVEMENT IN PLACE
- 1138 1 EA REMOVE AND DISPOSE OF EXISTING CATCH BASIN PER M.A.G. SPECS. 336 & 350.
- 1140 5 EA REMOVE EXISTING SIGN AND POST AT LOCATIONS SHOWN.
- 1160 1 LS INSTALL TREE PROTECTION FENCING PER C.O.F. ENGINEERING STANDARDS SECTIONS 10-50.90.090 AND 13-18-006-0001.

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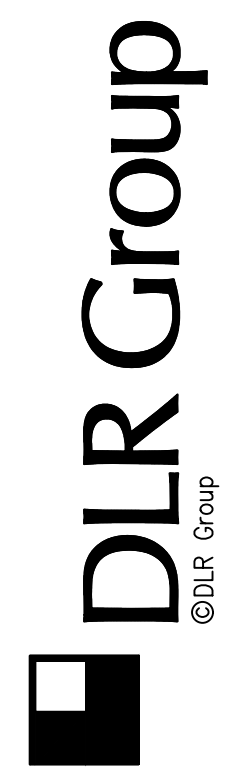


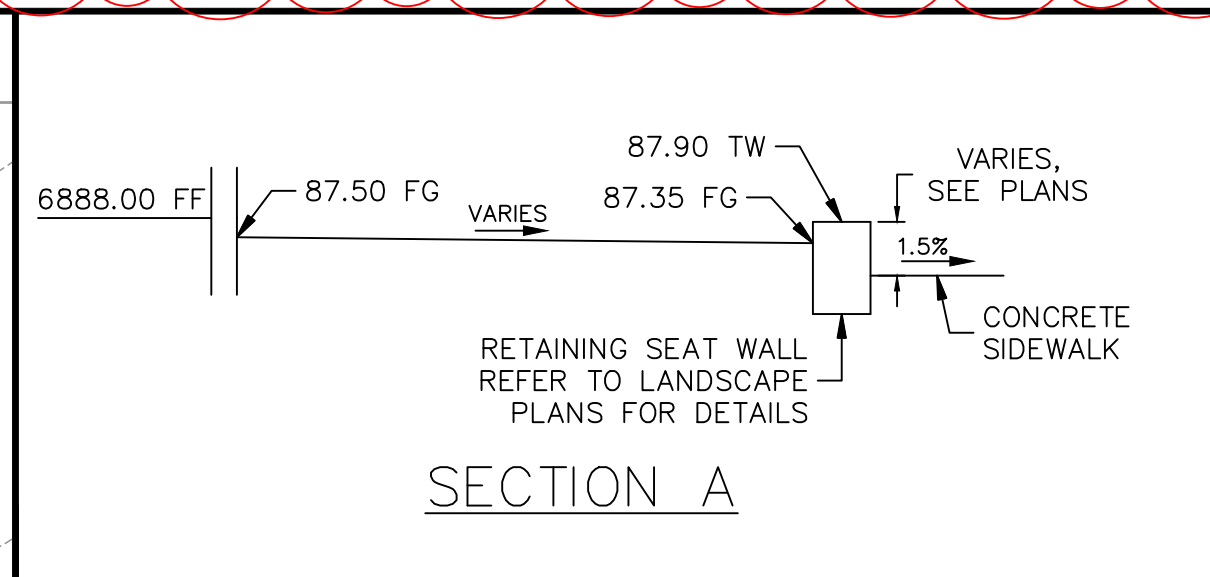
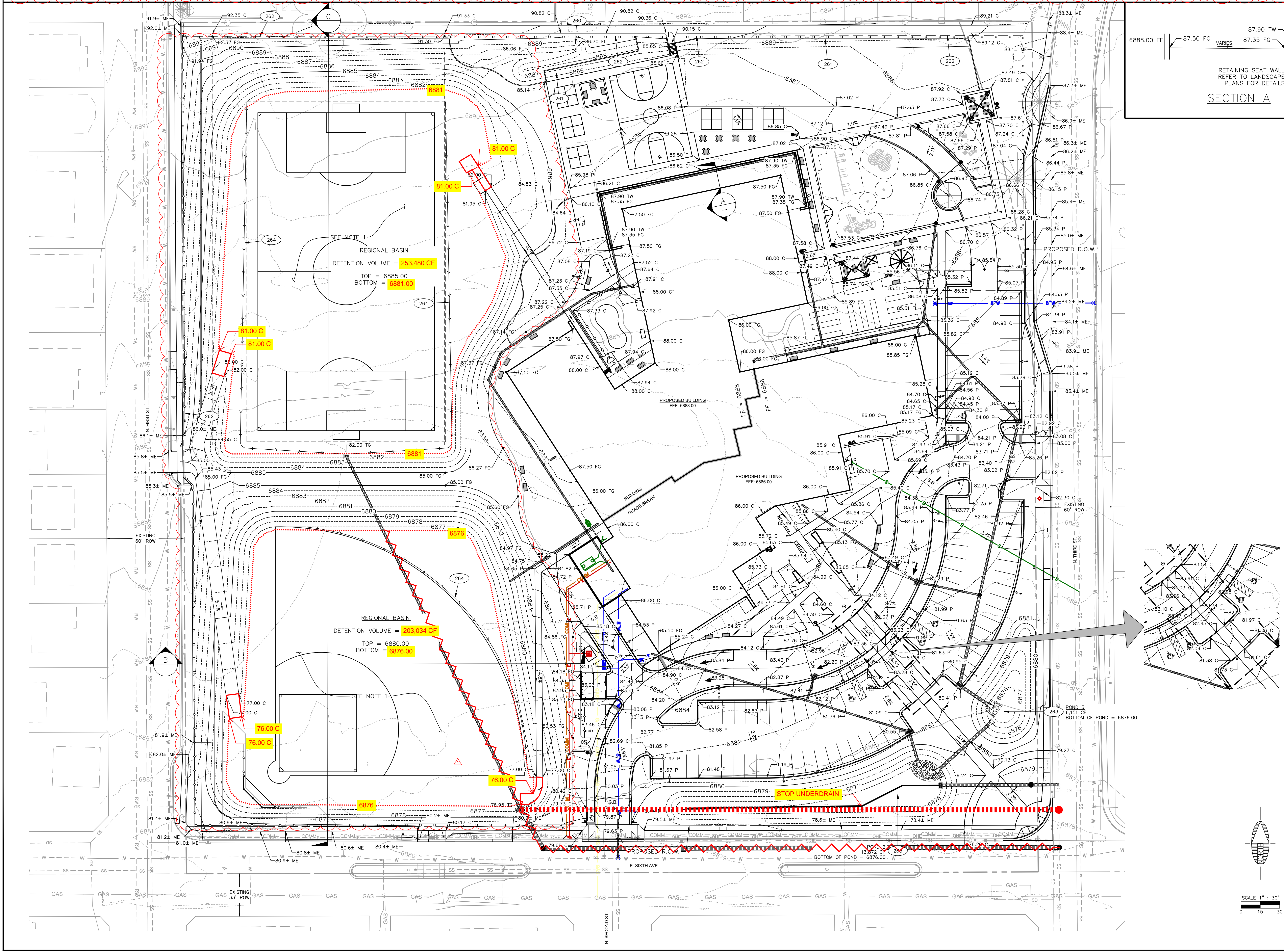
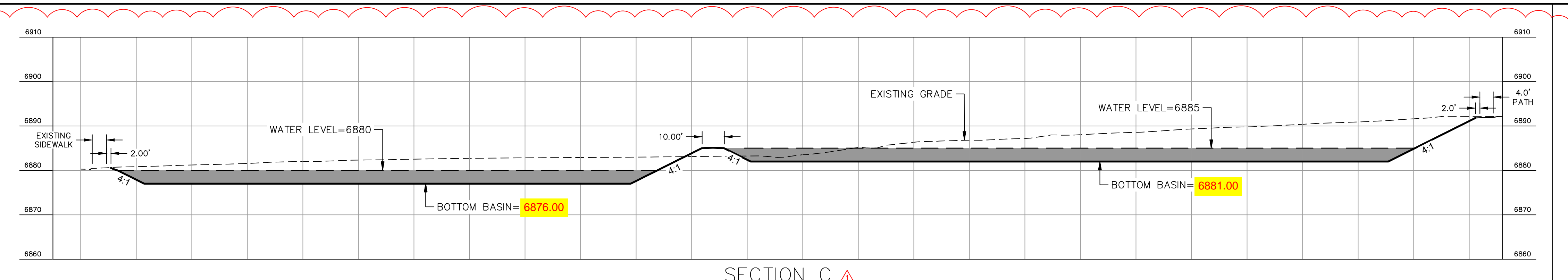
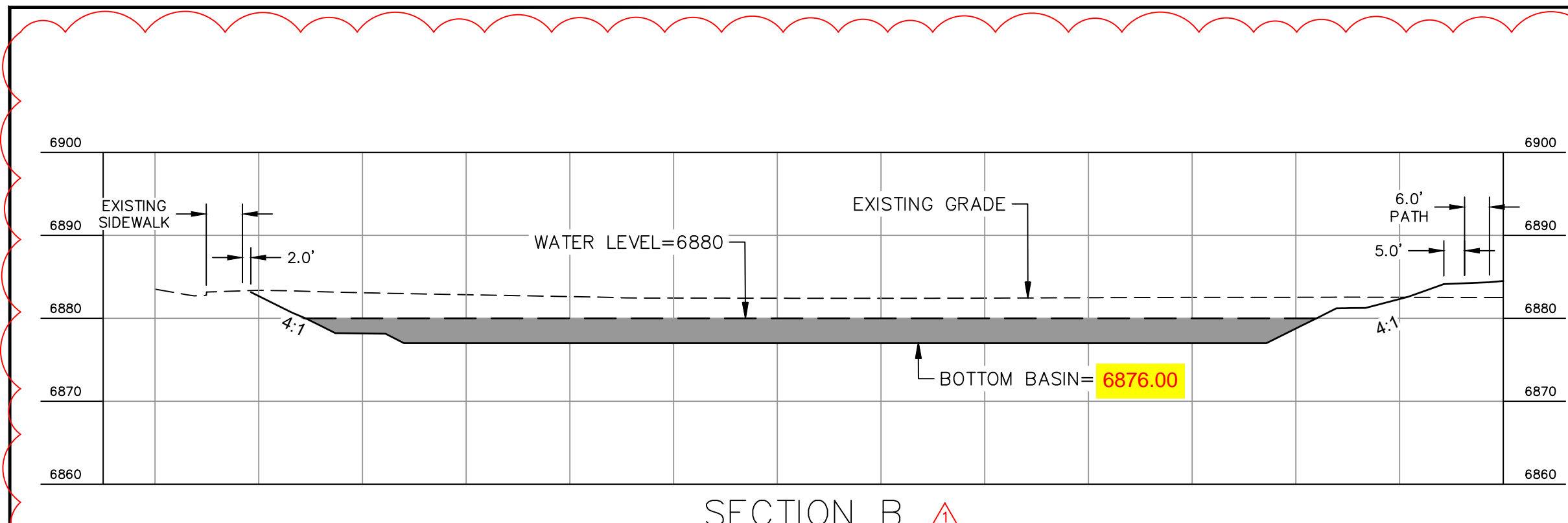
KILLIP ELEMENTARY SCHOOL
FLAGSTAFF UNIFIED SCHOOL DISTRICT
2300 E 6th Ave., Flagstaff, AZ 86004

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CONSTRUCTION
DOCUMENTS
02.08.2021
REVISIONS
AS11 REGIONAL DET. BASIN
06/15/2021

30-20149-00
DEMOLITION
PLAN - PHASE 1

C-DM01
COF PZ-20-00157



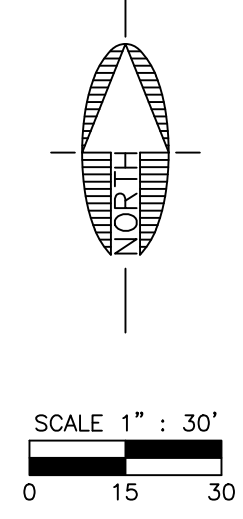
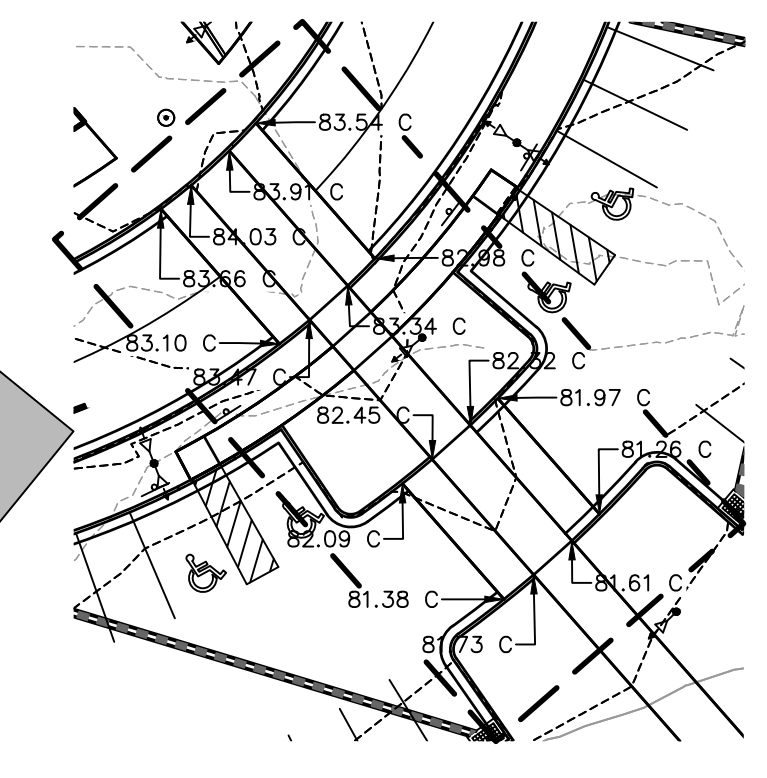


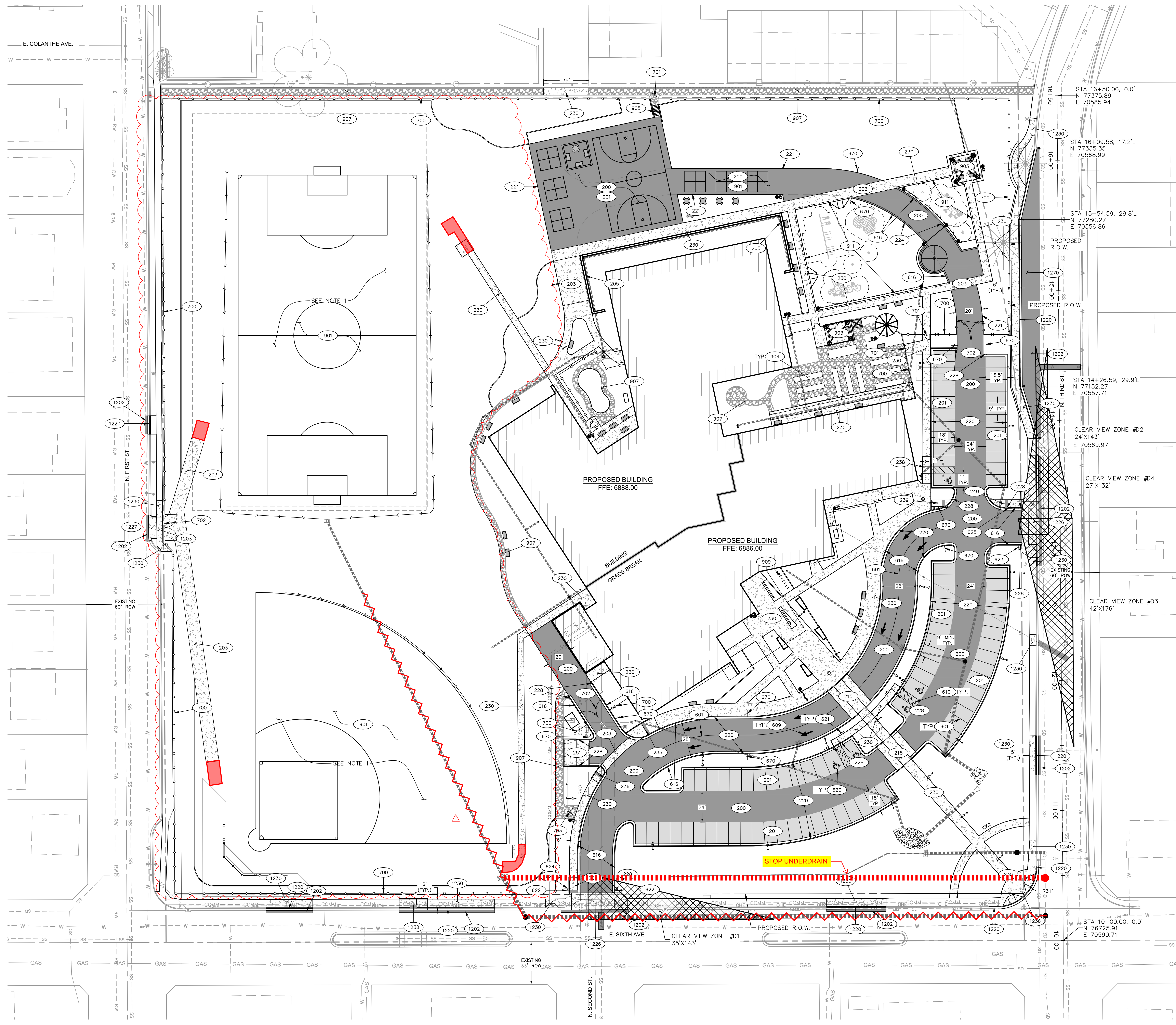
PRIVATE GRADING / DRAINAGE NOTES

- 260 1 LS CONSTRUCT CUT/FILL SLOPE (3' HORIZONTAL TO 1' VERTICAL) TO DAYLIGHT.
- 261 1 LS CONSTRUCT CUT/FILL SLOPE (4' HORIZONTAL TO 1' VERTICAL) TO DAYLIGHT.
- 262 1 LS MAINTAIN 2' SHOULDER PRIOR TO CONSTRUCTING SLOPE
- 263 1 LS CONSTRUCT RETENTION/LID BASIN AS SHOWN ON PLANS. SLOPE SHALL BE 4' HORIZONTAL TO 1' VERTICAL.
- 264 1 LS CONSTRUCT SWALE FLOWLINE AS SHOWN ON PLANS. SEE PLANS FOR SIDE SLOPES.

NOTE:
1. REFER TO SYNTHETIC TURF FIELD CONSTRUCTION PLANS PROVIDED BY HELIX CONSTRUCTION INC.

ABBREVIATIONS
 C CONCRETE ELEVATION
 FG FINISH GRADE ELEVATION
 FL FLOW LINE ELEVATION
 ME MATCH EXISTING ELEVATION
 P PAVEMENT ELEVATION
 TG TOP OF GRATE ELEVATION





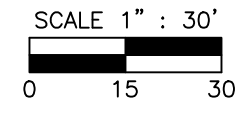
PRIVATE IMPROVEMENT NOTES

- 200 4,566 SY CONSTRUCT HEAVY DUTY ASPHALT PAVEMENT PER DETAIL 'A' ON SHEET C-GN01.
- 201 1,489 SY CONSTRUCT LIGHT DUTY ASPHALT PAVEMENT PER DETAIL 'B' ON SHEET C-GN01.
- 203 6,063 SF CONSTRUCT CONCRETE STRUCTURAL SECTION PER DETAIL 'C' ON SHEET C-GN01.
- 205 255 LF CONSTRUCT MODULAR BLOCK RETAINING WALL. REFER TO LANDSCAPE PLANS FOR WALL MODEL & COLOR. EXTEND BLOCK TO 30" BELOW SIDEWALK GRADE.
- 208 2,668 SF UNPAVED MAINTENANCE/ACCESS ROAD. REFER LANDSCAPE PLANS FOR DETAILS.
- 215 2 EA RAISED SIDEWALK (SPEED TABLE) PER DETAIL 'H' ON SHEET C-GN01.
- 220 2,272 LF CONSTRUCT VERTICAL CURB AND GUTTER PER MAG STD. DTL. 220, TYPE 'A'.
- 221 601 LF CONSTRUCT ASPHALT THICKENED EDGE PER MAG STD. DTL. 201, TYPE 'A'.
- 224 290 LF CONSTRUCT RIBBON CURB PER DETAIL 'G' ON SHEET C-GN01.
- 228 16 EA CONSTRUCT CURB TRANSITION PER MAG STD DTL 222.
- 230 23,139 SF CONSTRUCT CONCRETE SIDEWALK PER DETAIL 'D' ON SHEET C-GN01, SIDEWALK WIDTH PER PLAN.
- 235 1 EA CONSTRUCT CONCRETE SIDEWALK RAMP PER DETAIL 'M' ON SHEET C-GN01.
- 236 1 EA CONSTRUCT CONCRETE SIDEWALK RAMP PER DETAIL 'M' ON SHEET C-GN01.
- 237 1 EA CONSTRUCT CONCRETE SIDEWALK RAMP PER DETAIL 'M' ON SHEET C-GN01.
- 238 1 EA CONSTRUCT CONCRETE SIDEWALK RAMP PER MAG STD. DTL. 238-3.
- 239 1 EA CONSTRUCT CONCRETE SIDEWALK RAMP PER DETAIL 'D' ON SHEET C-GN01.
- 240 1 EA CONSTRUCT CONCRETE SIDEWALK PER DETAIL 'M' ON SHEET C-GN01.
- 250 1 EA CONSTRUCT STAIRS PER DETAILS ON LANDSCAPE PLANS.
- 251 1 EA CONSTRUCT DOUBLE TRASH ENCLOSURE. REFER TO LANDSCAPE PLANS FOR DETAILS.
- 252 1 EA CONSTRUCT CONCRETE STEPS AS SHOWN ON PLANS. SEE SHEET G001 FOR ELEVATIONS.
- 601 1,797 LF PAINT 4" WHITE PARKING STRIPING.
- 609 8 EA INSTALL 8" WHITE THRU LANE ARROW, PERFORMED PAVEMENT MARKING TYPE I PER ADOT DWGS. M-10 AND M-11. HORIZONTAL PLACEMENT AS SHOWN PLANS.
- 610 300 SF PAINT NO PARKING AREA, 4" YELLOW DIAGONAL PAVEMENT MARKINGS, SPACED 2' APART.
- 616 1,071 LF CURB SHALL BE PAINTED RED AT LOCATIONS SHOWN, TO INDICATE NO PARKING/FIRE LANE.
- 620 5 EA PAINT UNIVERSAL "HANDICAPPED PARKING ONLY" SYMBOL IN ACCORDANCE WITH ADA STANDARDS.
- 621 5 EA INSTALL HANDICAP PARKING SIGN (R7-B&Z) ON "U" CHANNEL POST PER MUTCD AND MAG STD DTL 131, TYPE "A".
- 622 2 EA INSTALL "DO NOT ENTER" SIGN ON "U" CHANNEL POST PER MUTCD AND MAG STD DTL 131, TYPE "A".
- 623 2 EA INSTALL STOP SIGN (R1-1) ON "U" CHANNEL POST PER MUTCD.
- 624 1 EA INSTALL NO LEFT TURN (R3-2) ON SAME POST WITH STOP SIGN AS SHOWN ON PLANS AND PER MUTCD.
- 625 1 EA INSTALL CUSTOM (RED, SPLIT) 18"x12" SIGN, "NO PARKING - NO PICK-UP OR DROP-OFF", ON "U" CHANNEL POST. LOCATION AS SHOWN ON PLANS.
- 670 10 EA INSTALL "NO PARKING FIRE LANE" SIGN PER IFC SECTION D103.6, TYPE "D".
- 700 1,898 LF INSTALL CHAINLINK FENCE. REFER TO LANDSCAPE PLANS FOR DETAILS.
- 701 6 EA INSTALL 4" WIDE GATE (CHAINLINK FENCE). REFER TO LANDSCAPE PLANS FOR DETAILS.
- 702 2 EA INSTALL DOUBLE GATE (20' TOTAL OPENING). REFER TO LANDSCAPE PLANS FOR DETAILS.
- 703 1 EA INSTALL DOUBLE GATE (10' TOTAL OPENING). REFER TO LANDSCAPE PLANS FOR DETAILS.
- 901 NPI PLAY AREAS, REFER TO LANDSCAPE ARCHITECT PLANS FOR DETAILS.
- 903 NPI FUTURE RAMADA, BY OTHERS, REFER TO LANDSCAPE ARCHITECT PLANS FOR DETAILS.
- 904 NPI FUTURE RAISED GARDEN BED, BY OTHERS, REFER TO LANDSCAPE PLANS FOR DETAILS.
- 905 NPI CONCRETE STAIRWAY, REFER TO LANDSCAPE PLANS FOR DETAILS.
- 907 NPI DECOMPOSED GRANITE PATHWAY, REFER TO LANDSCAPE PLANS FOR DETAILS.
- 909 NPI BIKE RACK, REFER TO LANDSCAPE PLANS FOR DETAILS.
- 910 NPI LOW WATER CROSSING, REFER TO LANDSCAPE PLANS FOR DETAILS.
- 911 NPI PLAYGROUND CURB, REFER TO LANDSCAPE PLANS FOR DETAILS.
- 913 NPI EXISTING BUILDING TO BE REMAIN IN PLACE. REFER TO ARCHITECT PLANS FOR DETAILS.

PUBLIC IMPROVEMENT NOTES

- 1202 393 SY CONSTRUCT PAVEMENT PATCH TO MATCH EXISTING SECTION OR PER DETAIL 'A' ON SHEET C-GN01, WHICHEVER IS GREATER.
- 1203 1,187 SF CONSTRUCT CONCRETE STRUCTURAL SECTION PER DETAIL 'C' ON SHEET C-GN01.
- 1220 621 LF CONSTRUCT VERTICAL CURB AND GUTTER PER MAG STD. DTL. 220, TYPE 'A'.
- 1226 2 EA CONSTRUCT CONCRETE DRIVEWAY PER MAG STD DTL 250-1.
- 1227 1 EA CONSTRUCT CONCRETE DRIVEWAY PER MAG STD DTL 251.
- 1230 3,488 SF CONSTRUCT CONCRETE SIDEWALK PER DETAIL 'D' ON SHEET C-GN01, SIDEWALK WIDTH PER PLAN.
- 1236 2 EA CONSTRUCT CONCRETE SIDEWALK RAMP PER MAG STD. DTL. 236.
- 1238 1 EA CONSTRUCT CONCRETE SIDEWALK RAMP PER MAG STD. DTL. 238-3.
- 1270 1 LS CONSTRUCT BUS PULL-OUT PER C.O.F. STD. DTL. 10-10-019 ON SHEET C-DT01.

NOTE:
1. REFER TO SYNTHETIC TURF FIELD CONSTRUCTION PLANS PROVIDED BY HELLAS CONSTRUCTION INC.



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ILLINOIS PROFESSIONAL ENGINEERING SEAL
No. 0777074
D. J. WEAVER, P.E.

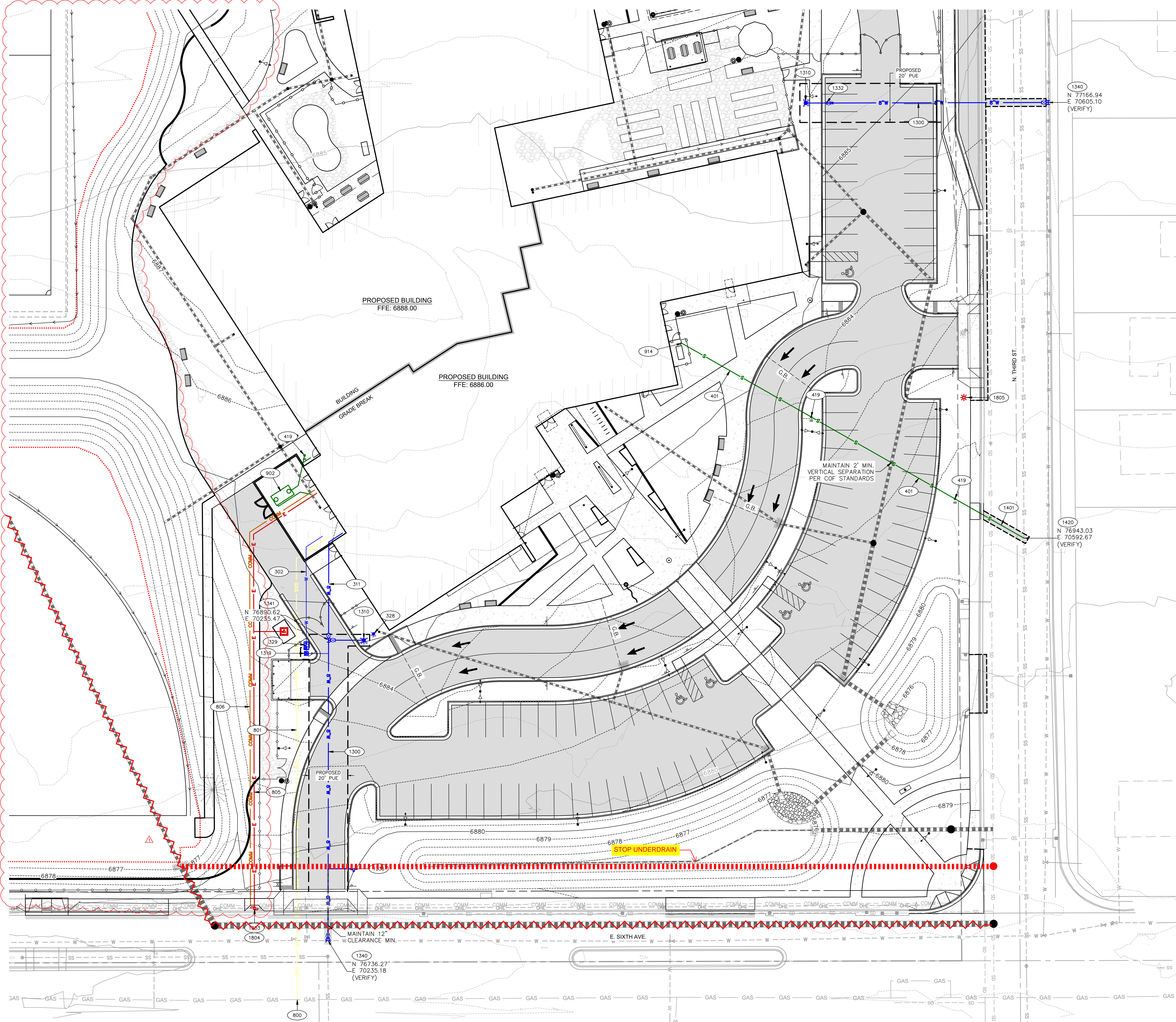
SWI
Shepherd & Wesnitzer, Inc.

ARIZONA 801
Arizona State Seal
Call at least two full working days
before start of work.
1-800-526-4644
Fax 8-1-1-800-526-4644

KILLIP ELEMENTARY SCHOOL
FLAGSTAFF UNIFIED SCHOOL DISTRICT
2300 E 6th Ave., Flagstaff, AZ 86004

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PLAN
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COF PZ-20-00157



PRIVATE WATER & SEWER NOTES

- 302 76 LF INSTALL NEW 2" WATER SERVICE LINE PER C.O.F. STD. DTL. 9-03-070 ON SHEET C-DT01. INSTALL TRACER WIRE ALONG WATER SERVICE PER C.O.F. STD. DTL. 9-01-020 ON SHEET C-DT01. AND C.O.F. SECTION 13-09-001-0002. INSTALL SALVAGED WATER METER AND NEW RPA AT LOCATION SHOWN ON PLANS PER COF STANDARD SPECIFICATIONS.
- 311 59 LF INSTALL 8" FIRE LINE (C-900/CL 305 PVC) PER M.A.G. SPEC. SECTION 610. TRENCH, EXCAVATION, BACKFILLING AND COMPACTION PER C.O.F. STD. DTLS. 09-01-030, 09-01-031 AND 09-01-032 ON SHEET C-DT01.
- 328 1 EA INSTALL REMOTE FIRE DEPARTMENT CONNECTION PER COF FIRE DEPARTMENT REQUIREMENTS AND NEPA 13. CONTRACTOR TO COORDINATE WITH BUILDING PLUMBING PLANS FOR LOCATION OF WATER LINE. STUB FDC SHALL BE FITTED WITH APPROVED KNOX LOCKING FDC CAPS. FDC SHALL HAVE A MIN. OF 3' CLEARANCE. CONTRACTOR TO COORDINATE WITH FIRE INSPECTOR FOR SPECIFICATIONS ON FDC SIGNAGE. SEE FIRE PROTECTION PLANS FOR CONTINUATION INTO BUILDING.
- 329 1 EA INSTALL 2" REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLY (RPA) PER C.O.F. STD. DTL. 9-06-072 ON SHEET C-DT01. CONTRACTOR TO INSTALL RPA IN A HEATED (OR APPROVED EQUAL) ENCLOSURE. CONTRACTOR TO COORDINATE SIZE OF ENCLOSURE WITH MANUFACTURER.
- 401 162 LF INSTALL 6" SEWER LINE. TRENCH EXCAVATION, BACKFILLING, AND COMPACTION PER COF STD DTL. 9-01-030, 9-01-031, AND 9-01-032 ON SHEET C-DT01
- 419 2 EA INSTALL SEWER CLEAN OUT PER MAG STD DTL. 441. REFER TO PLUMBING PLANS FOR CONTINUATION OF SEWER SERVICE INTO BUILDING.
- 800 1 EA CONNECT NEW GAS SERVICE TO EXISTING GAS. CONTRACTOR SHALL COORDINATE CONNECTION WITH UTILITY OWNER.
- 801 246 LF INSTALL NEW GAS SERVICE LINE PER UTILITY OWNER SPECIFICATIONS.
- 805 231 LF INSTALL NEW UNDERGROUND ELECTRIC LINE PER UTILITY OWNER SPECIFICATIONS.
- 806 232 LF INSTALL NEW UNDERGROUND COMMUNICATION LINE PER UTILITY OWNER SPECIFICATIONS.
- 902 NPI GREASE INTERCEPTOR AND SEWER SYSTEM. REFER TO ARCHITECT AND PLUMBING PLANS FOR DETAILS.
- 914 NPI REFER TO PLUMBING PLANS, FOR CONTINUATION OF SERVICE SERVICE INTO BUILDING.

PUBLIC WATER & SEWER NOTES

- 1300 266 LF INSTALL 8" WATERLINE (C-900/CL 305 PVC/DR14) INCLUDING ALL APPURTENANCES PER M.A.G. SPEC. SECTION 601 AND 610 AND AS MODIFIED IN THE C.O.F. REVISIONS TO M.A.G. SECTION 13-21-001-0601. INSTALL TRACER WIRE ALONG WATERLINE PER C.O.F. STD. DTL. 9-01-020 ON SHEET C-DT01 AND C.O.F. SECTION 13-09-001-0002. TRENCH EXCAVATION, BACKFILLING AND COMPACTION PER C.O.F. STD. DTLS. 9-01-030, 9-01-031, AND 9-01-032 ON SHEET C-DT01.
- 1310 2 EA INSTALL NEW FIRE HYDRANT ASSEMBLY IN ACCORDANCE WITH C.O.F. STD. DTL. 13-03-011 ON SHEET C-DT01. SET NEW VALVE, BOX, & COVER TO FINISH GRADE PER C.O.F. STD. DTL. 9-03-060 ON SHEET C-DT01.
- 1319 1 EA INSTALL NEW 2" WATER METER ASSEMBLY PER COF STD DTL 9-03-071. INSTALL IN NEW POLYMER WATER METER BOX PER COF STD. DTL. 09-03-080 ON SHEET C-DT01.
- 1332 1 EA INSTALL 8"x8" REDUCER DIP CLASS 250, WITH JOINT RESTRAINTS PER M.A.G. STD. DTL. 303 AND AS MODIFIED BY C.O.F. REVISIONS TO M.A.G. SECTION 13-21-002-0380.
- 1336 1 EA INSTALL 1" AIR RELEASE VALVE PER COF STD DTL 9-03-101 ON SHEET C-DT01.
- 1340 2 EA INSTALL 8"x8" COF APPROVED STAINLESS STEEL TAPPING SLEEVE AND VALVE PER MAG STD DTL 340. CLASS 250 EPOXY COATED RESILIENT SEAT VALVE, THRUST BLOCK PER M.A.G. STD. DTL. 380 AND COF REVISION TO ENGINEERING STANDARDS SECTION 13-21-002-0380.
- 1341 1 EA INSTALL 8"x8"x6" TEE DIP CLASS 250, WITH JOINT RESTRAINTS PER M.A.G. STD. DTL. 303 AND AS MODIFIED BY C.O.F. REVISIONS TO M.A.G. SECTION 13-21-002-0380. INSTALL 8" GATE VALVE DIP CLASS 250, EPOXY-COATED RESILIENT SEAT (INCLUDING VALVE BOX AND COVER) PER M.A.G. STD. DTL. 340 AND M.A.G. SPEC 610. ADJUST BOX TO FINISH GRADE PER C.O.F. STD. DTLS. 9-03-060 AND 9-03-062 ON SHEET C-DT01. THRUST BLOCK PER M.A.G. STD. DTL. 301 AND AS MODIFIED BY C.O.F. REVISIONS TO M.A.G. SECTION 13-21-002-0380.
- 1401 41 LF INSTALL 6" SEWER LINE. TRENCH EXCAVATION, BACKFILLING, AND COMPACTION PER COF STD DTL 9-01-030, 9-01-031, AND 9-01-032 ON SHEET C-DT01
- 1420 1 EA CONNECT NEW 6" SEWER TO EXISTING SEWER MAIN. CONTRACTOR TO VERIFY LOCATION, DEPTH AND MATERIAL PRIOR TO CONSTRUCTION.
- 1803 1 EA INSTALL NEW UTILITY POLE AT LOCATION SHOWN ON PLANS. CONTRACTOR SHALL COORDINATE INSTALLATION AND RECONNECTION OF OVERHEAD UTILITY WITH UTILITY OWNER.
- 1804 1 EA CONNECT NEW UNDERGROUND ELECTRIC LINE AT LOCATION SHOWN PER UTILITY OWNER SPECIFICATIONS.
- 1805 1 EA INSTALL SALVAGED LIGHT POLE LOCATION SHOWN ON PLANS. CONTRACTOR TO COORDINATE RELOCATION WITH THE CITY OF FLAGSTAFF.

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KILLIP ELEMENTARY SCHOOL
FLAGSTAFF UNIFIED SCHOOL DISTRICT

2300 E 6th Ave., Flagstaff, AZ 86004

100% CONSTRUCTION DOCUMENTS
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REVISIONS
AS11 REGIONAL DET. BASIN
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30-20149-00
UTILITY PLAN
C-UT01
COF PZ-20-00157

D.L.R. Group
D.L.R. Group
S.W.I. Shephard Weasitzer, Inc.
ARIZONA 801
Call or Email: Two full working days prior to construction start date
Arizona State Board of Registration for Professional Engineers and Architects
Professional Engineer License No. 1-800-524-4646
Exp. 12/31/2024



STRUCTURE NAME	DETAILS	COORDINATES	LOCATION
FES02A	INV IN (18") = 6876.00 N RIM = 6877.72	N 76809.66 E 70468.18	
FES02B	INV IN (24") = 6876.00 NE RIM = 6877.72	N 76804.65 E 70468.18	
FES02C	INV OUT (24") = 6876.00 E RIM = 6879.66	N 76792.97 E 70485.67	
FES03	INV IN (24") = 6876.00 NW RIM = 6878.24	N 76854.43 E 70523.66	
FES03A	INV OUT (24") = 6876.00 SW RIM = 6878.75	N 78841.65 E 70524.06	
SDMH01	INV OUT (12") = 6885.25 S RIM = 6887.89	N 77238.33 E 70378.08	
SDMH02	INV OUT (12") = 6883.25 N RIM = 6885.99	N 77120.69 E 70340.45	
SDMH03	INV OUT (12") = 6883.33 N RIM = 6885.87	N 77141.21 E 70468.44	
SDMH04	INV OUT (12") = 6883.33 NE RIM = 6885.17	N 77083.62 E 70468.33	
SDMH05	INV OUT (12") = 6881.33 SE RIM = 6885.13	N 77010.37 E 70377.83	
SDMH06	INV OUT (12") = 6881.25 E RIM = 6885.71	N 76894.91 E 70261.47	
SDMH07	INV OUT (12") = 6881.12 SW RIM = 6885.92	N 76995.75 E 70219.38	
SDMH07A	INV OUT (12") = 6881.76 NW RIM = 6885.96	N 76956.71 E 70231.15	
SDMH08	INV OUT (12") = 6881.86 SW RIM = 6887.34	N 77047.74 E 70186.72	
SDMH09	INV OUT (12") = 6885.33 NW RIM = 6887.98	N 77131.18 E 70221.47	
SDMH10	INV IN (12") = 6885.25 W RIM = 6887.89	N 77180.80 E 70247.23	
SDMH11	INV IN (12") = 6883.24 S RIM = 6885.99	N 77122.09 E 70340.15	
SDMH13	INV IN (12") = 6881.84 W RIM = 6885.96	N 77148.54 E 70466.91	
SDMH14	INV OUT (12") = 6882.51 S RIM = 6887.15	N 77228.83 E 70461.31	
SDMH20	INV IN (12") = 6883.35 SE RIM = 6887.40	N 77174.07 E 70214.54	
SDMH52	INV IN (12") = 6880.91 NE RIM = 6882.55	N 76990.04 E 70210.65	
SDMH53	INV IN (12") = 6885.30 S RIM = 6887.30	N 77282.57 E 70371.76	
SDMH54	INV IN (12") = 6884.32 E RIM = 6887.75	N 77250.69 E 70221.77	
SDMH55	INV IN (12") = 6884.73 E RIM = 6886.87	N 77178.70 E 70237.08	
SDMH57	INV OUT (12") = 6885.70 N RIM = 6886.87	N 77243.45 E 70230.07	
SDMH58	INV IN (12") = 6883.92 N RIM = 6887.36	N 77211.57 E 70230.09	
SDMH66	INV IN (12") = 6878.05 W RIM = 6881.79	N 76940.48 E 70515.32	
SDMH71	INV IN (12") = 6882.74 NE RIM = 6887.25	N 77128.40 E 70144.21	
SDMH72	INV IN (12") = 6881.53 NW RIM = 6886.82	N 77041.71 E 70177.10	
TEE-1	INV IN (12") = 6882.59 W RIM = 6883.76	N 77133.27 E 70393.74	
TEE-2	INV IN (12") = 6883.14 NE RIM = 6884.31	N 77162.83 E 70197.23	
TEE-3	INV IN (12") = 6878.74 W RIM = 6879.91	N 76898.65 E 70381.51	

NAME	SIZE	LENGTH	SLOPE	DEPTH	DATE	MATERIAL
P1	18"	138.03'	1.00%	HP	STORM	PP
P3	24"	71.73'	1.00%	N12	HDPE	
P4	12"	19.68'	1.00%	N12	HDPE	
P5	12"	49.33'	1.01%	N12	HDPE	
P6	24"	26.59'	0.85%	N12	HDPE	
P7	24"	50.72'	1.00%	N12	HDPE	
P9	18"	23.94'	2.49%	N12	HDPE	
P11	24"	69.55'	6.00%	N12	HDPE	
P12	12"	125.40'	2.00%	N12	HDPE	
P12 (2)	12"	82.61'	2.00%	N12	HDPE	
P13	12"	107.43'	2.50%	N12	HDPE	
P14	12"	54.74'	1.00%	N12	HDPE	
P15	12"	74.74'	1.00%	N12	HDPE	
P15 (1)	12"	6.34'	1.58%	N12	HDPE	
P16	18"	50.07'	1.50%	N12	HDPE	
P17	12"	40.09'	5.63%	N12	HDPE	
P18	12"	7.49'	5.00%	N12	HDPE	
P19	12"	76.66'	3.47%	N12	HDPE	
P20	12"	10.39'	5.00%	N12	HDPE	
P20 (1)	12"	23.01'	1.00%	N12	HDPE	
P21	12"	20.64'	1.00%	N12	HDPE	
P22	12"	63.22'	0.63%	N12	HDPE	
P23	12"	59.20'	3.69%	N12	HDPE	
P24	12"	11.36'	2.00%	N12	HDPE	
P25	12"	10.43'	2.00%	N12	HDPE	
P25 (1)	12"	71.23'	1.00%	N12	HDPE	
P26	12"	57.13'	1.00%	N12	HDPE	
P27	12"	1.43'	1.00%	N12	HDPE	
P31	12"	76.63'	1.00%	N12	HDPE	
P37	12"	37.44'	2.00%	N12	HDPE	
P38	12"	153.33'	0.77%	N12	HDPE	
P39	12"	39.99'	1.00%	N12	HDPE	
P41	12"	39.99'	0.50%	N12	HDPE	
P50	36"	35.32'	1.00%	N12	HDPE	
P51	36"	400.00'	0.50%	N12	HDPE	
P53	18"	305.25'	0.50%	N12	HDPE	
P54	12"	78.15'	1.00%	N12	HDPE	
P55	12"	61.61'	1.00%	N12	HDPE	

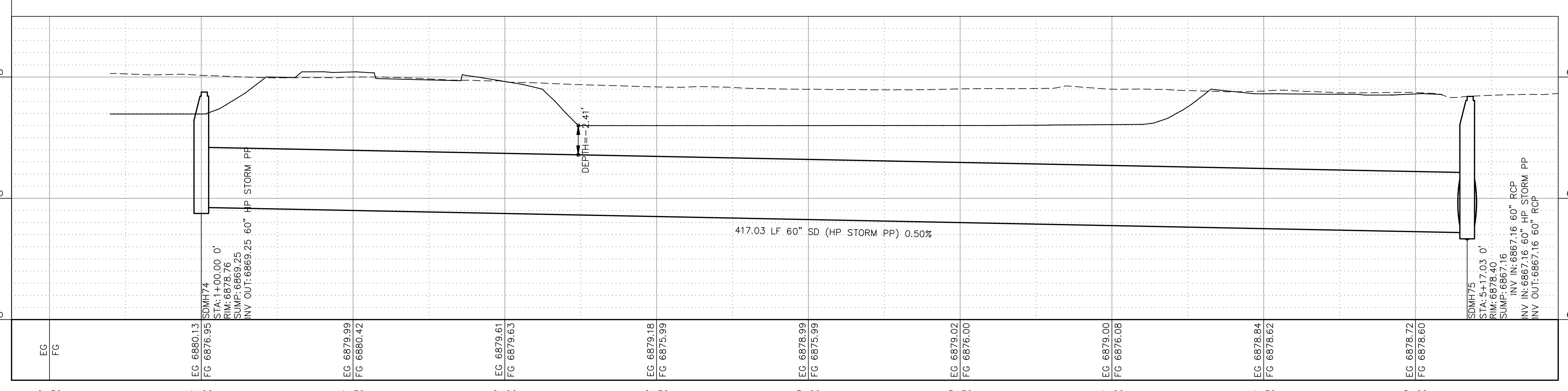
PRIVATE STORM DRAIN NOTES

- 505 1199 LF INSTALL 12" 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 C.O.F. STD. DTL. 9-01-30, 9-01-31, AND 9-01-32 ON SHEET C-DT01.
- 506 138 LF INSTALL 18" ADS HP STORM DUAL WALL PP PIPE OR APPROVED EQUAL PER M.A.G. SPEC. SECTION 738. TRENCH, EXCAVATION, BACKFILLING, AND COMPACTION PER M.A.G. SPEC. SECTION 603 AND C.O.F. STD. DTL. 9-01-30, 9-01-31, AND 9-01-32 ON SHEET C-DT01.
- 507 142 LF INSTALL 18" 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 C.O.F. STD. DTL. 9-01-30, 9-01-31, AND 9-01-32 ON SHEET C-DT01.
- 508 204 LF INSTALL 24" 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 C.O.F. STD. DTL. 9-01-30, 9-01-31, AND 9-01-32 ON SHEET C-DT01.
- 510 15 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 C.O.F. STD. DTL. 9-01-30, 9-01-31, AND 9-01-32 ON SHEET C-DT01.
- 521 12 EA INSTALL 12" NYLOPLAST DRAIN BASIN WITH SOLID COVER OR APPROVED EQUAL. SEE STRUCTURAL PLANS FOR ROOF DRAIN CONNECTION.
- 524 5 EA INSTALL 18" NYLOPLAST DRAIN BASIN WITH SOLID COVER OR APPROVED EQUAL.
- 525 1 EA INSTALL 24" NYLOPLAST DRAIN BASIN WITH 2" DOME GRATE COVER OR APPROVED EQUAL.
- 526 6 EA INSTALL 24" NYLOPLAST DRAIN BASIN WITH SOLID COVER OR APPROVED EQUAL.
- 528 1 EA INSTALL 36" NYLOPLAST DRAIN BASIN WITH SOLID COVER OR APPROVED EQUAL.
- 529 1 EA INSTALL 48" DIA. STORM DRAIN MANHOLE PER M.A.G. STD. DTL. 520 AND MANHOLE SHAFT PER M.A.G. STD. DTL. 522.
- 531 234 LF INSTALL ACO KLASSIC DRAIN K3000 OR APPROVED EQUAL. CONTRACTOR TO INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND DETAILS.
- 532 1 EA INSTALL 18" ADS FLARED END SECTION OR APPROVED EQUAL. INSTALL D50=6" RIPRAP EROSION PROTECTION PLACED MIN. 12" THICK OVER MIRAFI 140N FILTER FABRIC PER RIPRAP INSTALLATION DETAIL "M" ON SHEET C-GN01.
- 533 3 EA INSTALL 24" ADS FLARED END SECTION OR APPROVED EQUAL. INSTALL D50=6" RIPRAP EROSION PROTECTION PLACED MIN. 12" THICK OVER MIRAFI 140N FILTER FABRIC PER RIPRAP INSTALLATION DETAIL "M" ON SHEET C-GN01.
- 534 3 EA CONSTRUCT TYPE "E" CATCH BASIN PER MAG STD DTL 534.
- 535 5 EA CONSTRUCT TYPE "F" CATCH BASIN PER MAG STD DTL 535.
- 536 1 EA CONSTRUCT DOUBLE TYPE "G" CATCH BASIN PER MAG STD DTL 537 WITH MODIFIED WIER BASIN WALL PER DETAIL "K" ON SHEET C-GN01.
- 539 3 EA INSTALL 12"x12"x12" INSERTA TEE PER MANUFACTURER'S SPECIFICATIONS.
- 540 1 EA CONSTRUCT BASIN TRENCH DRAIN PER DETAIL "J" ON SHEET C-GN01. INSTALL CLEANOUTS AT ALL ENDS, BENDS AND JUNCTIONS.
- 550 1 EA CONSTRUCT BASIN SEDIMENT TRAP PER DETAIL "L" ON SHEET C-GN01.
- 908 NPI ROCK WALL AT CULVERT CROSSING PER DETAILS ON LANDSCAPE PLANS.
- 912 NPI PLAYGROUND DRAINAGE SYSTEM. REFER TO LANDSCAPE PLANS FOR DETAILS.

PUBLIC STORM DRAIN NOTES

- 1508 17 LF INSTALL 24" 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 C.O.F. STD. DTL. 9-01-30, 9-01-31, AND 9-01-32 ON SHEET C-DT01.
- 1510 417 LF INSTALL 60" 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 C.O.F. STD. DTL. 9-01-30, 9-01-31, AND 9-01-32 ON SHEET C-DT01.
- 1530 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.
- 1545 1 EA INSTALL 60"x60"x12" INSERTA TEE PER MANUFACTURER'S SPECIFICATIONS.

NOTE:
1. REFER TO SYNTHETIC TURF FIELD CONSTRUCTION PLANS PROVIDED BY HELIAS CONSTRUCTION INC.



DLR Group
CONSULTING ENGINEERS

PRELIMINARY
NOT FOR CONSTRUCTION,
BIDDING OR RECORDING

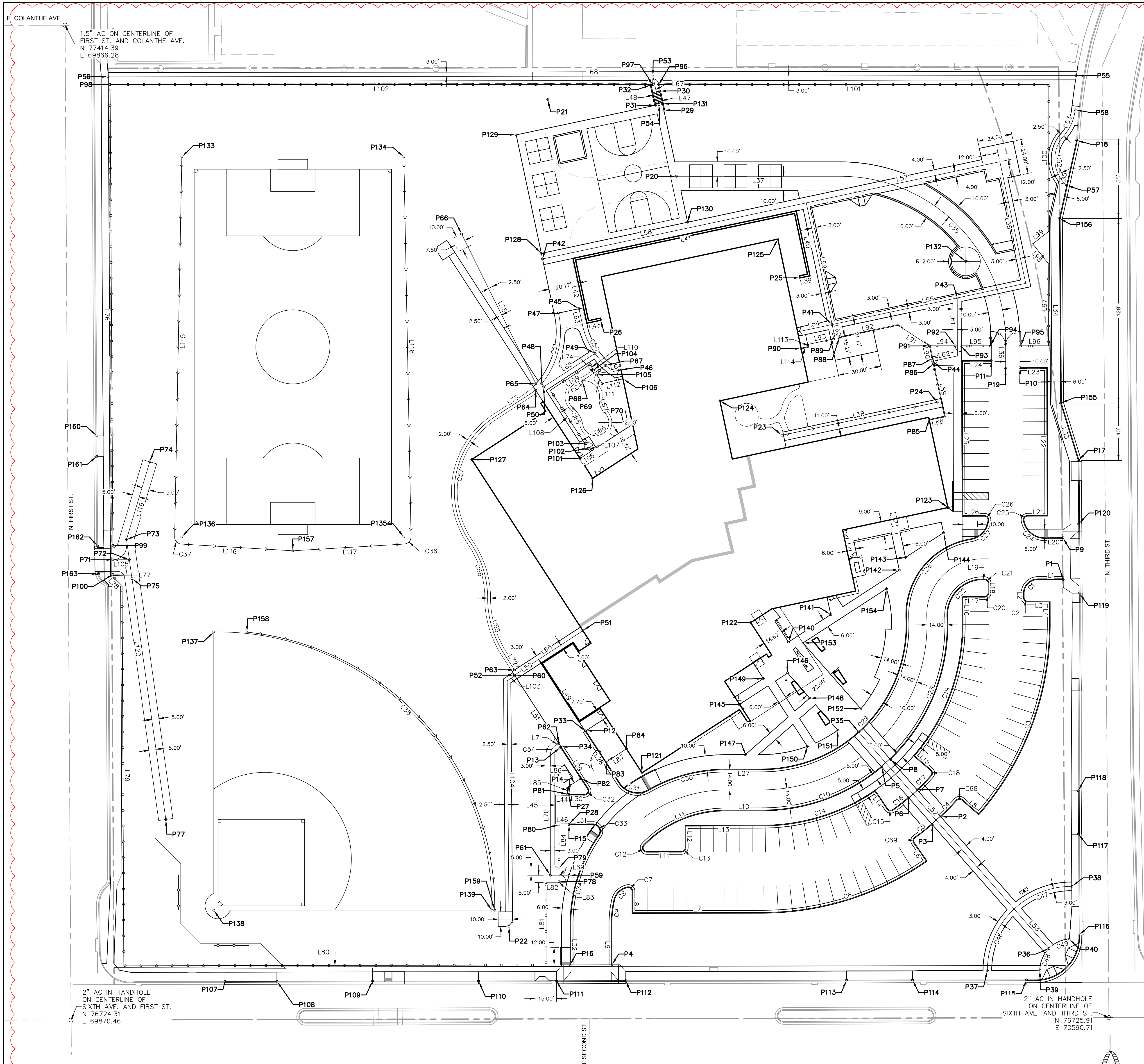
SWI
Shepherd Wesnitzer, Inc.

ARIZONA 801
Arizona Drain Shave, Inc.
Call at least two full working days
before start of work.
1-800-524-5488
Fax 8-1-1-800-524-5488

KILLIP ELEMENTARY SCHOOL
FLAGSTAFF UNIFIED SCHOOL DISTRICT
2300 E 6th Ave., Flagstaff, AZ 86004

100% CONSTRUCTION DOCUMENTS
02.08.2021
REVISIONS
AS11 REGIONAL DET. BASIN
06/15/2021

30-20149-00
STORM DRAIN PLAN
C-SD01
COP PZ-20-00157



LINE TABLE			LINE TABLE			LINE TABLE			LINE TABLE		
LINE #	LENGTH	DIRECTION	LINE #	LENGTH	DIRECTION	LINE #	LENGTH	DIRECTION	LINE #	LENGTH	DIRECTION
L1	17.64	N 89°52'23" E	L32	27.56	S 0°07'37" E	L63	11.56	N 12°00'00" W	L94	17.87	N 90°00'00" E
L2	3.00	N 0°07'37" W	L33	41.76	N 17°04'46" W	L64	5.35	N 78°00'00" E	L95	20.47	N 90°00'00" E
L3	15.50	S 89°52'23" W	L34	128.13	N 0°22'49" W	L65	42.49	S 57°00'00" W	L96	19.36	N 90°00'00" E
L4	16.00	N 0°07'37" W	L35	55.51	N 12°25'22" E	L66	56.67	N 57°00'00" E	L97	56.68	N 0°03'11" E
L5	15.52	S 48°55'35" E	L36	18.85	N 0°07'37" W	L67	20.15	N 12°00'00" W	L98	17.86	N 38°15'10" W
L6	15.52	N 34°49'06" E	L37	113.74	N 90°00'00" W	L68	671.84	N 89°55'36" E	L99	14.09	N 51°44'50" E
L7	90.62	N 89°52'23" E	L38	110.14	N 78°00'00" W	L69	13.02	N 78°00'00" W	L100	101.83	N 0°02'47" E
L8	15.50	S 0°07'37" E	L39	7.00	S 78°00'00" W	L70	83.39	S 0°00'00" E	L101	270.86	N 89°59'45" W
L9	27.54	N 0°07'37" W	L40	45.99	S 12°00'00" E	L71	2.59	S 57°00'00" W	L102	376.63	N 89°59'45" W
L10	25.62	N 89°52'23" E	L41	158.33	N 89°52'23" E	L72	12.94	S 33°00'00" E	L103	6.37	S 56°58'57" W
L11	24.18	S 89°52'23" W	L42	45.99	N 12°00'00" W	L73	33.64	N 57°00'00" E	L104	170.31	S 0°24'46" E
L12	15.50	S 0°07'37" E	L43	10.00	S 78°00'00" W	L74	19.59	N 57°00'00" E	L105	11.38	S 89°39'10" W
L13	53.62	S 89°52'23" W	L44	9.33	N 90°00'00" W	L75	116.04	S 26°23'19" E	L106	8.39	S 57°00'00" W
L14	15.47	N 34°10'30" W	L45	20.00	S 0°00'00" E	L76	319.73	N 0°20'50" W	L107	2.85	N 33°00'00" W
L15	15.47	S 49°23'43" E	L46	9.33	N 90°00'00" E	L77	1.71	S 0°20'50" E	L108	44.09	N 33°00'00" W
L16	19.35	S 0°07'37" E	L47	13.55	S 12°00'00" E	L78	8.80	N 45°33'00" W	L109	32.86	N 57°00'00" E
L17	15.50	S 89°52'23" W	L48	14.50	S 12°00'00" E	L79	263.69	S 0°15'24" E	L110	4.55	S 33°00'00" W
L18	6.65	S 0°07'37" E	L49	56.36	S 33°00'13" E	L80	293.01	S 89°53'42" W	L111	7.19	S 33°00'00" E
L19	1.14	N 89°52'23" E	L50	20.00	N 57°00'00" E	L81	56.80	N 0°00'00" E	L112	14.66	N 77°15'49" E
L20	12.65	S 89°52'23" W	L51	56.36	S 33°00'00" W	L82	9.00	N 90°00'00" E	L113	2.06	N 12°00'00" W
L21	14.00	N 89°52'23" E	L52	163.58	S 41°18'46" E	L83	1.00	S 0°00'00" E	L114	5.53	S 78°00'00" W
L22	103.00	N 0°07'37" W	L53	36.48	S 41°18'46" E	L84	29.89	S 0°00'00" E	L115	263.57	S 1°05'12" W
L23	19.00	S 89°52'23" W	L54	24.50	N 78°00'00" E	L85	4.93	S 0°00'00" E	L116	77.45	S 86°33'39" E
L24	20.50	S 89°52'23" W	L55	137.35	N 78°00'00" E	L86	10.85	S 57°00'00" W	L117	77.17	S 86°33'18" W
L25	108.00	S 0°07'37" E	L56	86.27	N 12°00'00" W	L87	16.79	S 57°00'00" W	L118	263.57	S 1°05'12" E
L26	15.50	N 89°52'23" E	L57	137.35	S 78°00'00" W	L88	10.83	S 78°00'00" W	L119	56.30	S 16°37'59" W
L27	25.62	S 89°52'23" W	L58	187.11	S 78°00'00" W	L89	36.98	S 12°00'00" W	L120	196.09	N 75°9'28" W
L28	42.91	N 33°00'00" W	L59	86.27	S 12°00'00" E	L90	8.90	N 12°00'00" W			
L29	34.35	S 33°00'00" W	L60	10.00	S 12°00'00" E	L91	26.09	N 56°49'03" W			
L30	10.64	N 90°00'00" W	L61	40.28	N 0°07'37" W	L92	41.65	S 78°00'00" W			
L31	16.85	N 90°00'00" E	L62	17.48	N 78°00'00" E	L93	17.93	S 78°00'00" W			

POINT TABLE				POINT TABLE				POINT TABLE			
POINT #	NORTHING	EASTING	DESCRIPTION	POINT #	NORTHING	EASTING	DESCRIPTION	POINT #	NORTHING	EASTING	DESCRIPTION
1	77029.84	70559.01	Back Curb	57	77303.22	70561.41	SW-CL	115	76752.10	70533.57	Back Curb
2	76865.24	70474.03	Back Curb	58	77355.69	70567.30	SW-CL	116	76783.15	70569.91	Back Curb
3	76859.91	70468.06	Back Curb	59	76824.71	70216.09	SW-CL	117	76853.16	70569.54	Back Curb
4	76762.60	70245.84	Back Curb	60	76963.08	70178.46	SW-CL	118	76883.31	70569.43	Back Curb
5	76899.73	70433.06	Back Curb	61	76824.71	70203.07	SW-CL	119	77020.36	70570.09	Back Curb
6	76878.69	70451.55	Back Curb	62	76916.23	70208.89	SW-CL	120	77068.36	70569.71	Back Curb
7	76884.02	70457.51	Back Curb	63	76967.10	70178.23	SW-CL	121	76895.72	70266.67	BLDG
8	76905.07	70439.02	Back Curb	64	77161.11	70192.89	SW-CL	122	76999.94	70342.07	BLDG
9	77058.84	70558.78	Back Curb	65	77165.62	70193.04	SW-CL	123	77079.75	70478.93	BLDG
10	77176.77	70529.04	Back Curb	66	77269.57	70141.47	SW-CL	124	77153.82	70320.75	BLDG
11	77181.73	70509.03	Back Curb	67	77178.36	70241.57	SW-CL	125	77265.97	70360.97	BLDG
12	76924.88	70227.72	Back Curb	68	77167.68	70225.14	SW-CL	126	77100.09	70232.52	BLDG
13	76913.44	70210.10	Back Curb	69	77148.28	70219.30	SW-CL	127	77113.12	70148.54	BLDG
14	76880.77	70216.07	Back Curb	70	77145.38	70240.87	SW-CL	128	77256.12	70196.83	Court
15	76859.77	70216.07	Back Curb	71	77043.52	69899.53	ROAD-CL	129	77338.29	70179.36	Court
16	76762.52	70216.84	Back Curb	72	77043.59	69910.91	ROAD-CL	130	77277.70	70298.34	Court
17	77112.27	70569.48	Back Curb	73	77057.56	69908.94	ROAD-CL	131	77359.86	70280.88	Court
18	77334.53	70568.30	Back Curb	74	77111.51	69925.06	ROAD-CL	132	77250.54	70491.44	Pavement
19	77176.25	70519.04	CL	75	77030.44	69912.75	ROAD-CL	133	77323.03	69947.35	Field
20	77309.56	70290.55	CL	76	76863.37	69936.20	ROAD-CL	134	77323.03	70101.41	Field
21	77362.80	70201.23	FL	77	76820.21	70209.07	Fence	135	77059.41	70101.41	Field
22	76789.30	70174.35	FL	78	76829.71	70209.07	Fence	136	77059.41	69947.35	Field
23	77129.92	70363.84	FL	79	76859.60	70209.07	Fence	137	76993.44	69969.50	Field
24	77152.82	70471.58	FL	80	76880.94	70215.07	Fence	138	76800.47	69969.50	Field
25	77239.09	70376.40	Wall	81	76880.94	70215.07	Fence	139	76800.47	70162.47	Field
26	77209.71	70238.15	Wall	82	76889.77	70224.17	Fence	140	76986.47	70368.31	Sidewalk
27	76880.27	70216.07	Wall	83	76903.21	70241.79	Fence	141	77005.53	70397.65	Sidewalk
28	76860.27	70216.07	Wall	84	76912.35	70255.87	Fence	142	77036.26	70445.23	Sidewalk
29	77355.41	70281.82	Wall	85	77140.89	70465.94	Fence	143	77045.16	70449.50	Sidewalk
30	77368.67	70279.01	Wall	86	77179.32	70468.85	Fence	144	77062.33	70475.94	Sidewalk
31	77358.82	70275.99	Wall	87	77183.23	70468.02	Fence	145	76943.26	70334.36	Sidewalk
32	77373.01	70272.97	Wall	88	77197.56	70403.59	Fence	146	76964.94	70367.75	Sidewalk
33	76924.60	70227.30	Pavement	89	77196.73	70399.67	Fence	147	76908.35	70338.44	Sidewalk
34	76913.71	70210.52	Pavement	90	77189.83	70377.16	Fence	148	76947.55	70383.04	Sidewalk
35	76924.14	70416.93	SW-CL	91	77191.94	70466.16	Fence	149	76961.14	70350.87	Sidewalk
36	76773.86	70549.01	SW-CL	92	77191.94	70484.04	Fence	150	76914.07	70381.44	Sidewalk
37	76758.57	70506.34	SW-CL	93	77191.94	70488.04	Fence	151	76925.35	70402.55	Sidewalk
38	76816.97	70564.95	SW-CL	94	77191.94	70508.51	Fence	152	76940.13	70418.55	Sidewalk
39	76758.80	70542.79	SW-CL	95	77191.94	70529.51	Fence	153	76985.85	70378.37	Sidewalk
40	76780.47	70563.15	SW-CL	96	77373.22	70278.16	Fence	154	77023.51	70436.36	Sidewalk
41	77206.73	70398.61	SW-CL	97	77373.22	70274.16	Fence	155	77152.19	70557.21	Back Curb
42	77252.18	70197.66	SW-CL	98	77373.25	69897.53	Fence	156	77280.32	70556.36	Back Curb
43	77225.18	70485.43	SW-CL	99	77053.52	69899.47	Fence	157	77049.78	70024.38	FL
44	77181.27	70468.43	SW-CL	100	77033.43	69899.59	Fence	158	76993.34	69992.45	FL
45	77217.72	70222.97	SW-CL	101	77113.84	70223.73	Fence	159	76800.43	70164.47	FL
46	77175.27	70252.12	SW-CL	102	77120.80	70229.21	Fence				
47	77214.74	70208.69	SW-CL	103	77124.15	70227.03	Fence				
48	77165.68	70197.08	SW-CL	104	77175.27	70233.05	Fence				
49	77186.68	70234.11	SW-CL	105	77171.85	70235.23	Fence				
50	77163.54	70198.47	SW-CL	106	77169.06	70253.44	Fence				
51	76994.37	70225.72	SW-CL	107	76751.09	69977.27	Back Curb				
52	76963.50	70178.19	SW-CL	108	76751.10	70013.33	Back Curb				
53	77379.05	70274.24	SW-CL	109	76751.30	70079.73	Back Curb				
54	77359.34	70278.43	SW-CL	110	76751.33	70153.25	Back Curb				
55	77379.43	70568.05	SW-CL	111	76751.49	70207.37	Back Curb				
56	77378.57	69896.22	SW-CL	112	76751.63	70255.37	Back Curb				
				113	76751.93	70408.68	Back Curb				
				114	76752.03	70454.38	Back Curb				

CURVE TABLE				CURVE TABLE				CURVE TABLE				CURVE TABLE				CURVE TABLE				CURVE TABLE											
CURVE #	LENGTH	RADIUS	DELTA	CURVE #	LENGTH	RADIUS	DELTA	CURVE #	LENGTH	RADIUS	DELTA	CURVE #	LENGTH	RADIUS	DELTA	CURVE #	LENGTH	RADIUS	DELTA	CURVE #	LENGTH	RADIUS	DELTA	CURVE #	LENGTH	RADIUS	DELTA	CURVE #	LENGTH	RADIUS	DELTA
C1	14.92	9.50	90°00'00"	C11	62.91	79.00	45°37'31"	C21	3.93	2.50	90°00'00"	C31	22.72	15.00	86°47'36"	C41	52.24	56.67	52°49'28"	C51	11.08	10.97	57°52'02"	C61	11.08	10.97	57°52'02"	C71	3.89	2.50	89°04'06"
C2	3.93	2.50	90°00'00"	C12																											

E. COLANTHE AVE.








N. FIRST ST.

N. SECOND ST.

E. SIXTH AVE.

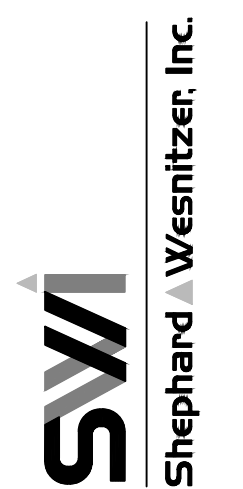
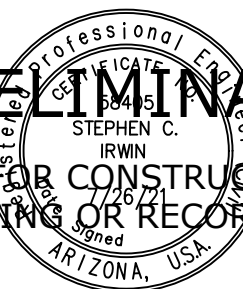
N. THIRD ST.

LEGEND

-  DISTURBED AREA
-  DRAINAGE FLOW DIRECTION
-  "STRAW ROLLS" PER DETAIL ON SHEET EC02.
-  "CURB INLET SEDIMENT BARRIER" ULTRATECH UTURA-CURB GUARD PLUS, OR APPROVED EQUAL.
-  "DROP INLET SEDIMENT BARRIER" PER DETAIL ON SHEET EC02.
-  "TEMPORARY CONSTRUCTION ENTRANCE" PER DETAIL ON SHEET EC02.
-  "CONCRETE WASHOUT" PER DETAIL ON SHEET EC02.



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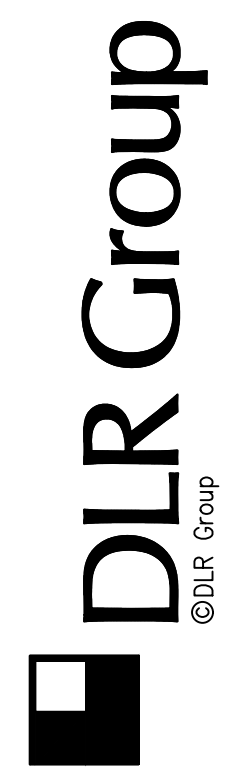


KILLIP ELEMENTARY SCHOOL
 FLAGSTAFF UNIFIED SCHOOL DISTRICT
 2300 E. 6th Ave., Flagstaff, AZ 86004

100%
 CONSTRUCTION
 DOCUMENTS
 02.08.2021
 REVISIONS
 AS11 REGIONAL DET. BASIN
 06/15/2021

30-20149-00
 EROSION
 CONTROL PLAN

C-EC01
 COF PZ-20-00157



MANAGEMENT STRATEGIES

- CONSTRUCTION WILL BE SEQUENCED SO THAT GRADING OPERATIONS CAN BEGIN AND END AS QUICKLY AS POSSIBLE.
- 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 WATER IS UNAVAILABLE.
- INSTALL PERIMETER CONTROLS AS SHOWN TO INCLUDE DIVERSION DIKES AND SILT FENCE. SEDIMENT TRAPPING MEASURES SHALL BE INSTALLED AS A FIRST STEP IN GRADING.
- GRADING OPERATIONS MAY COMMENCE ONCE PERIMETER CONTROLS, DIVERSIONS AND TRAPPING MEASURES ARE INSTALLED.
- 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 HILL SLOPES BY INSTALLING EARTH BERMS AND DIRECT THE RUN-OFF TO STABILIZED OUTLET OR SEDIMENT BASIN AND TRAPPING DEVICES.
- TEMPORARY SEEDING, SODDING OR OTHER STABILIZATION METHODS WILL FOLLOW IMMEDIATELY AFTER GRADING.
- 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.
- 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.
- AFTER ACHIEVING FINAL STABILIZATION, THE TEMPORARY EROSION & SILTATION CONTROLS WILL BE CLEANED UP AND REMOVED FROM THE SITE.

GENERAL LAND CONSERVATION NOTES

- VEGETATED STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRECIPITATION OR IRRIGATION IS AVAILABLE.
- 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.
- DURING CONSTRUCTION, ALL STORM SEWER INLETS WILL BE PROTECTED BY INLET PROTECTION

- ANY 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.
- 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 PARTICULAR:
 - 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 EXCEEDS ONE HALF WAY TO THE TOP OF THE BARRIER.
 - SEEDING 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.
- 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.

EROSION & SEDIMENT CONTROL STANDARD NOTES

- 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.
- 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 PERFORMING ROUTINE INSPECTIONS.
- THE CONTRACTOR'S REPRESENTATIVE IS RESPONSIBLE FOR THE INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION.

- 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.
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- TOP SOILING (STOCKPILE) TOPSOIL WILL BE STRIPPED FROM AREAS TO BE GRADED AND STOCKPILED FOR LATER USE. STOCKPILE LOCATIONS ARE TO BE TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING WILL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER.
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EROSION CONTROL MEASURES

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

STRUCTURAL PRACTICES

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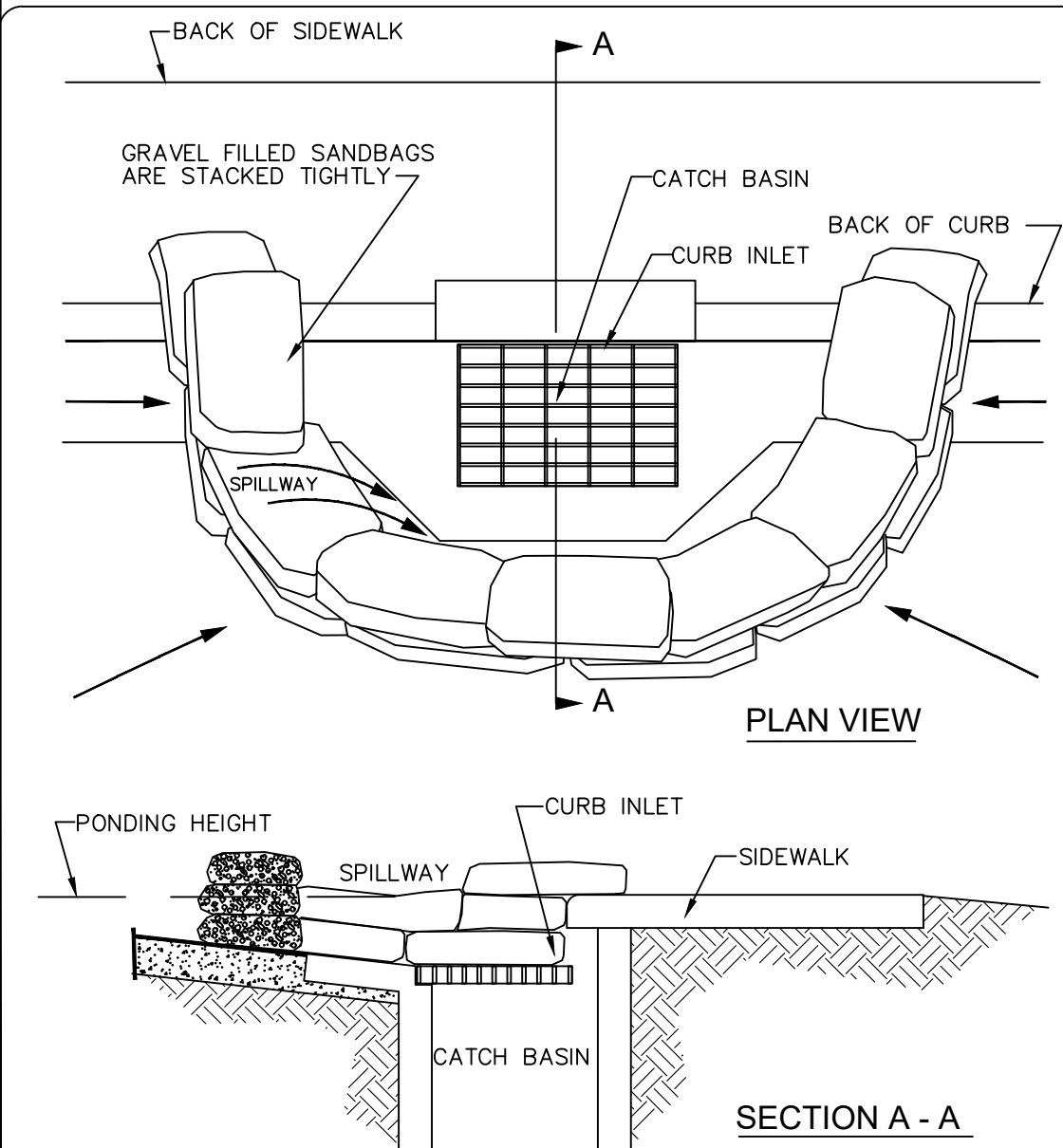
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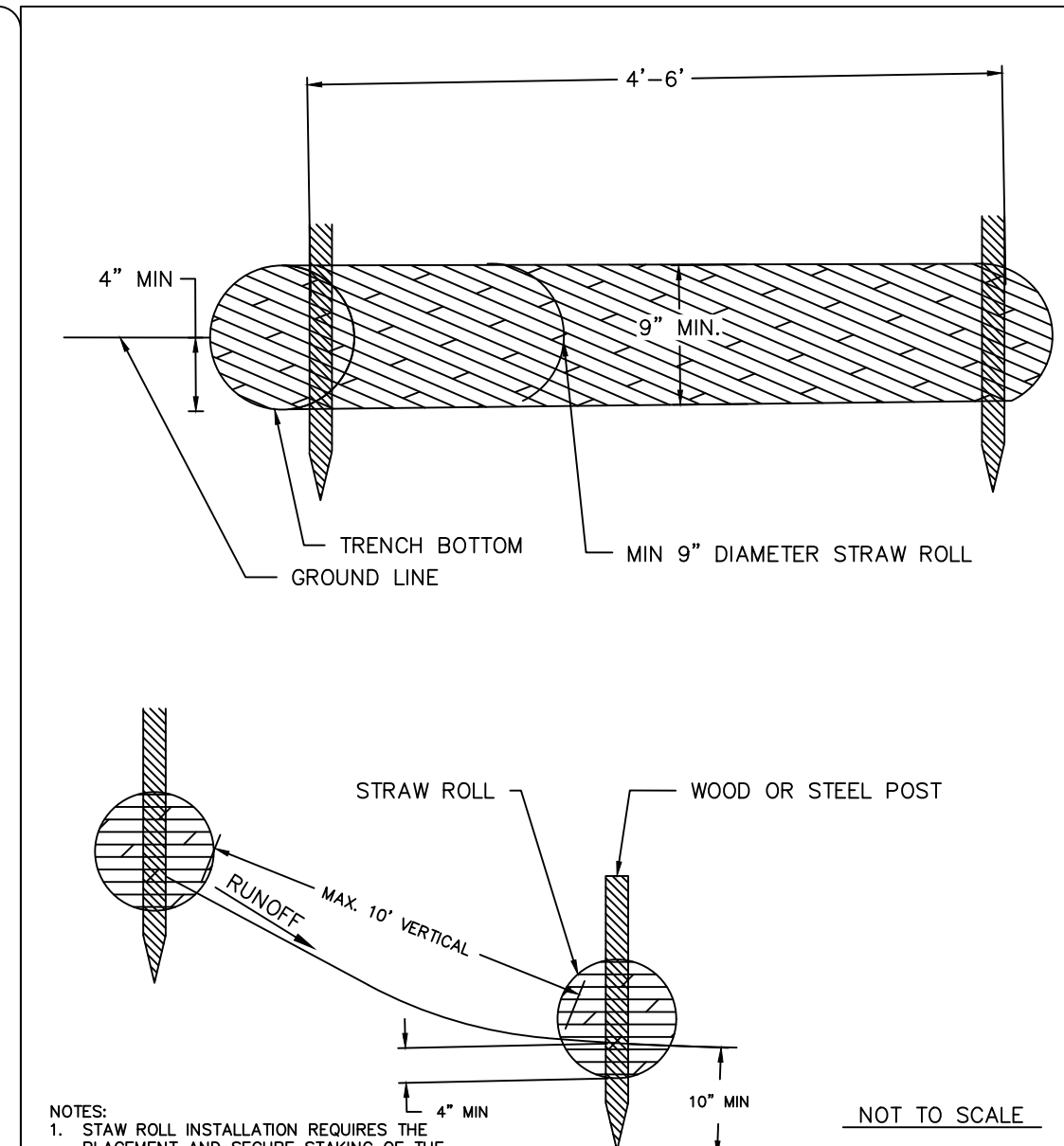
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- GRASS AREAS THAT ARE DISTURBED DURING CONSTRUCTION SHALL BE REPLACED WITH SOG BY THE CONTRACTOR. THE SOG GRASS TYPE SHALL MATCH THE EXISTING AND SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL THE SOG IS STABILIZED.
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GENERAL NOTES FOR EROSION CONTROL

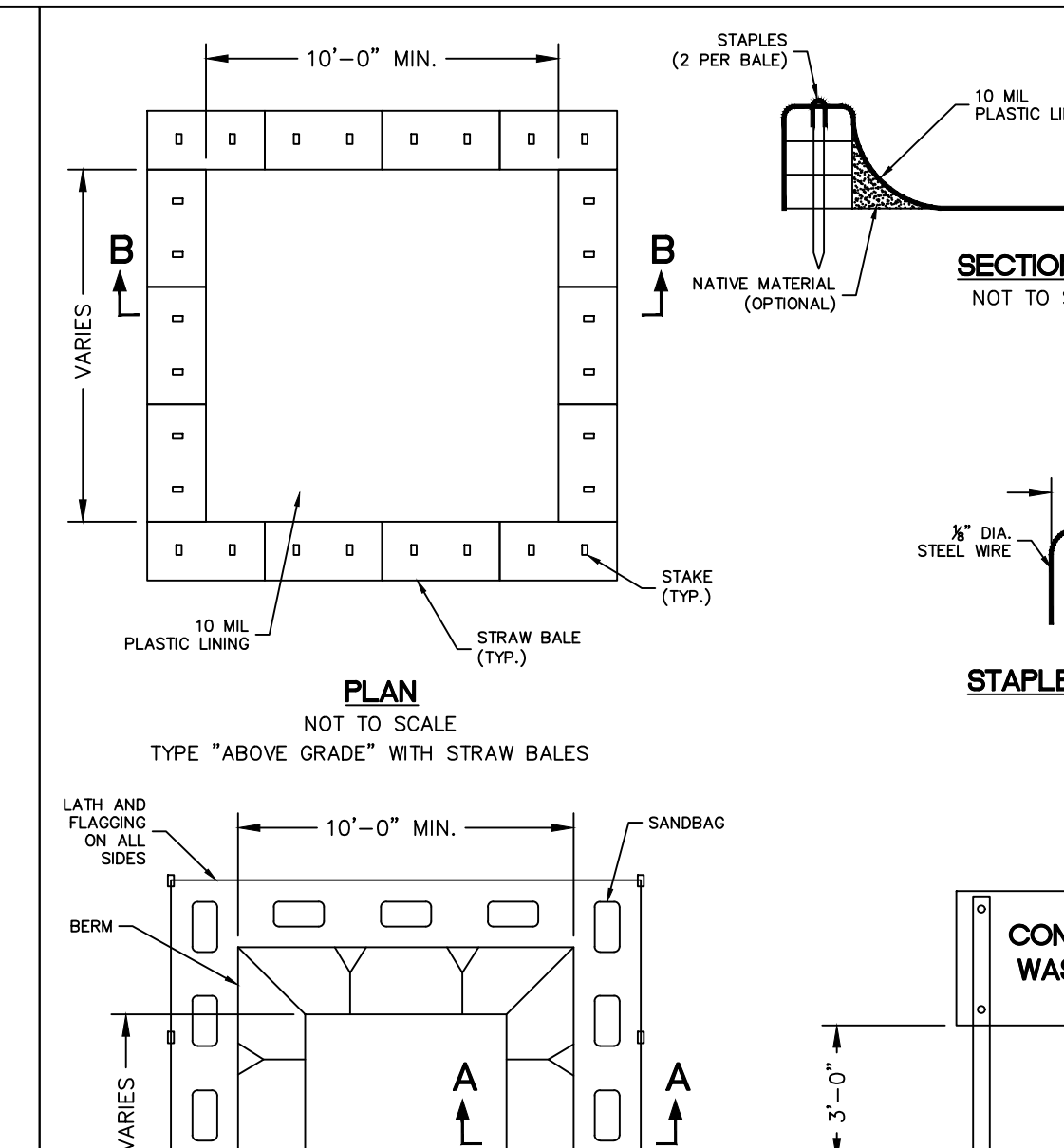
- A STANDBY CREW FOR EMERGENCY WORK SHALL BE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. NECESSARY MATERIALS SHALL BE AVAILABLE ON SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES OR TO REPAIR ANY DAMAGED EROSION CONTROL MEASURES, ESPECIALLY WHEN RAIN IS IMMINENT.
- DEVICES SHALL NOT BE MOVED OR MODIFIED WITHOUT APPROVAL OF THE INSPECTOR.
- ALL PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH DAY.
- AFTER A RAIN STORM, ALL SILT AND DEBRIS SHALL BE REMOVED FROM CHECK BERMS AND DESILTING BASINS. ANY GRADED SLOPE



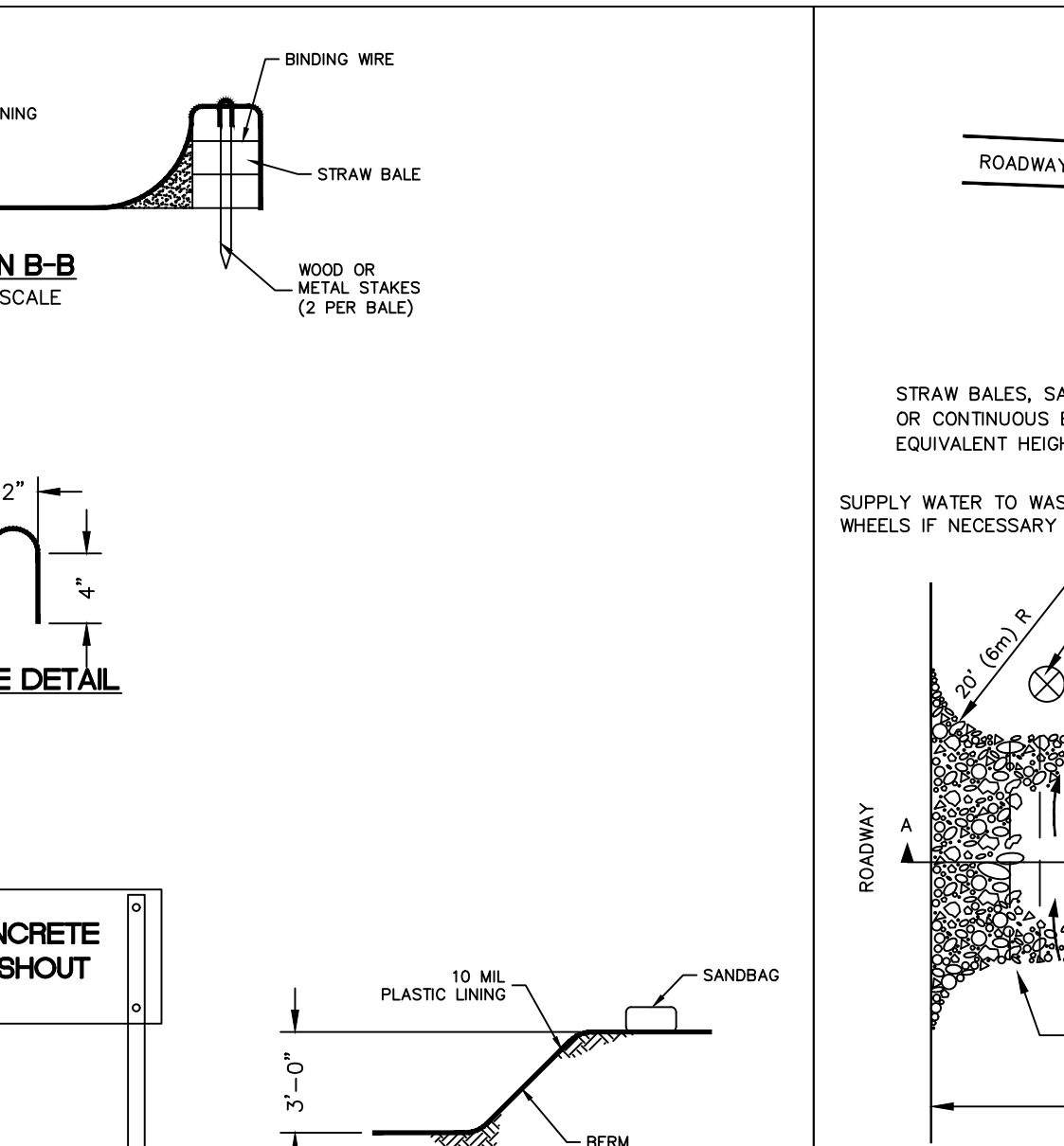
CURB INLET SEDIMENT BARRIER (SANDBAGS)



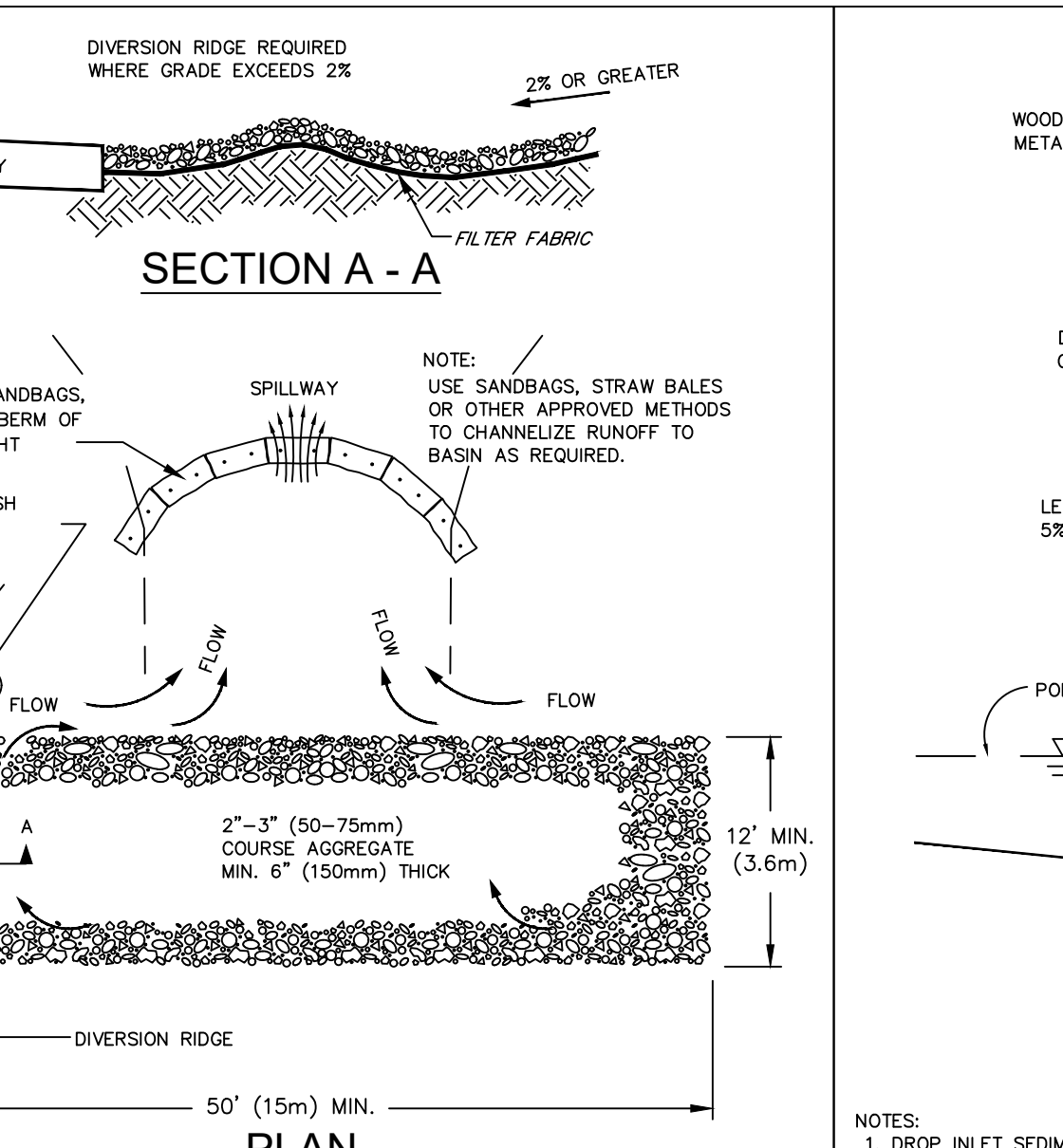
STRAW ROLL STAKED IN TRENCH



CONCRETE WASHOUT DETAILS



TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT



STRAW BALE/GRAVEL DROP INLET SEDIMENT BARRIER

- NOTES:
- PLACE CURB TYPE SEDIMENT BARRIERS ON GENTLY SLOPING STREET SEGMENTS WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
 - SANDBAGS, OF EITHER BURLAP OR WOVEN GEOTEXTILE FABRIC, ARE FILLED WITH GRAVEL, LAYERED AND PACKED TIGHTLY.
 - LEAVE ONE SANDBAG GAP IN THE TOP ROW TO PROVIDE A SPILLWAY FOR OVERFLOW.
 - INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT. SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.

- NOTES:
- STRAW ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH 2'-0\"/>

- NOTES:
- CONCRETE WASHOUT AREAS SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THEY MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT.
 - WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
 - WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT GRABS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

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