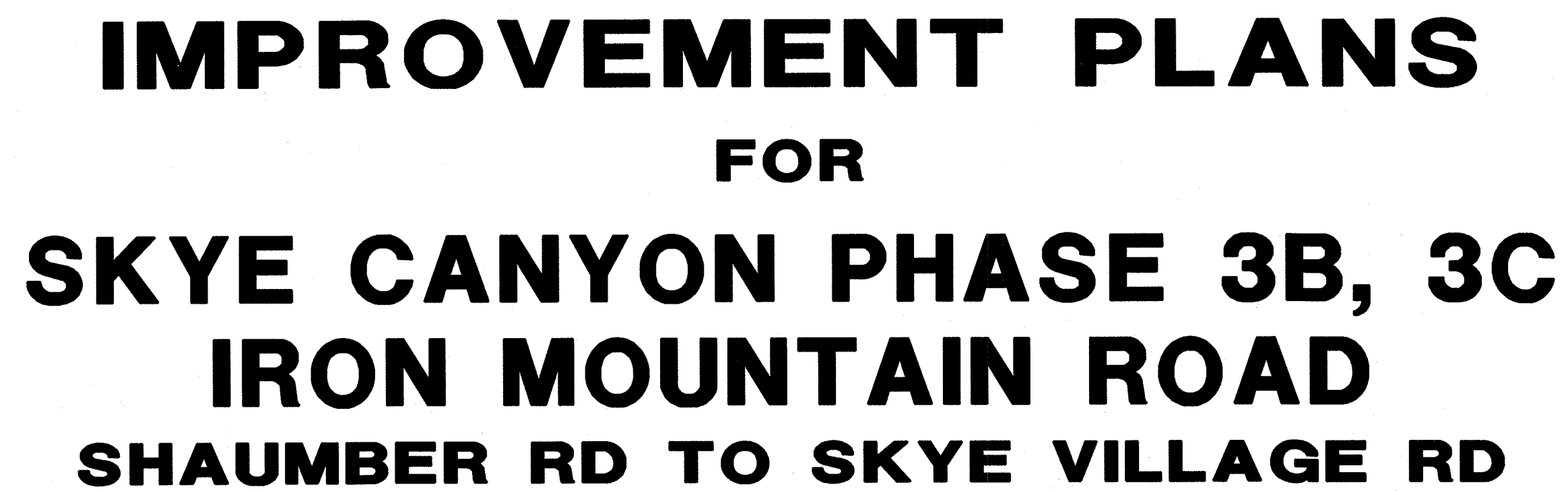




COX COMMUNICATIONS LAS VEGAS, INC. DATE

SHEET 1 OF 15

AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE DESIGN AND STANDARDS FOR WASTEWATER COLLECTION SYSTEMS AND THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, WHICH SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THE MANUAL.

THE CONTRACTOR'S RESPONSIBILITY TO PERFORM CONSTRUCTION AS PER PLANS, ANY ADDITIONS, AND CHANGES SHALL FIRST MEET WITH THE APPROVAL OF THE CITY ENGINEER.

IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.

SEWER PIPE SHALL MEET ASTM D-3034 SDR 35 SPECIFICATIONS, INSTALLED WITH SAND BEDDING OF TYPE II AGGREGATE BASE.

SEWER LINES IN STREETS (80") FOOT R/W AND LARGER MAINS SHALL HAVE CONCRETE COLLARS. AN EIGHTY (80") FOOT R/W SHALL REQUIRE RETROFIT IF PAVING DOES NOT CONFORM TO CITY SPECIFICATIONS.

SEWER LINES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO TWELVE INCH (12") TO FIFTEEN INCH (15") OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES. IN CURBS, SEWER LINES SHALL BE USED ON LINES TWELVE INCHES (12") OR ABOVE.

ALL BE PROTECTED IN ACCORDANCE WITH LVWD STANDARDS WHENEVER A SEWER MAIN IS EXCAVATED UNDER A WATER MAIN OR THE SEWER IS LESS THAN EIGHTEEN INCH (18") UNDER A WATER MAIN.

INSTALLING SEWER MAINS THAT WILL BE UNDER THE JURISDICTION OF THE CITY OF LAS VEGAS WILL NOT ACCEPT ANY SEWER MAINS WHICH HAVE A VERTICAL DEFLECTION OF MORE THAN ONE (1) INCH PER FOOT FROM THE APPROVED CONSTRUCTION PLANS AT ANY LOCATION. SEWER EXCEEDING THIS TOLERANCE WILL HAVE TO BE REPAIRED OR REMOVED OR REPLACED TO THE SATISFACTION OF THE CITY ENGINEER PRIOR TO ACCEPTANCE BY THE CITY OF LAS VEGAS.

CURVED SEWER REQUIRES THE USE OF C-900 PIPE WHICH ALLOWS FOR PIPE DEFLECTION AT

1. THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATED IN, THE PUBLIC RIGHTS-OF-WAY OR CLARK COUNTY AS A RESULT OF CONSTRUCTION ON AN EROSION CONTROL, STORMWATER DEVELOPMENT, OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORMWATER SYSTEM.
2. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARD IN THE USDSCA AND THE LAS VEGAS VALLEY CONSTRUCTION SITE EROSION CONTROL MANUAL.
3. TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THE PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR10000, SECTION III.A.5.
4. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT, AND LOCATIONS OF EROSION OR SEDIMENTATION. INSPECTIONS SHOULD BE CONDUCTED WEEKLY OR MORE. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS: (1) WHEN THE CONSTRUCTION ACTIVITY IS TEMPORARILY SUSPENDED, REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR 10000, SECTION III.A.12.
5. THE DEVELOPER SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL ALL PERMANENT SIGNS SHOWN ON THE PLANS. STREET NAME SIGNS SHALL CONFORM IN THEIR ENTIRETY TO CLARK COUNTY AREA STANDARDS. ALL OTHER SIGNS SHALL BE STANDARD SIZE UNLESS OTHERWISE SPECIFIED ON THE PLANS. ALL SIGN POSTS SHALL BE INSTALLED IN ACCORDANCE WITH CLARK COUNTY AREA STANDARDS. ALL SIGNS SHALL USE TYPE III SHEETING.

- NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN APPROVED FOR CONSTRUCTION BY THE LVVMD. FOLLOWING WATER PLAN APPROVAL, NOTICE SHALL BE GIVEN TO THE LVVMD COMMUNICATION SUPPORT CENTER (258-7171) TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. FOR FUTURE INSPECTIONS, NOTICE MUST BE GIVEN BY 2:00 P.M. THE BUSINESS DAY PRIOR TO THE REQUESTED LVVMD INSPECTION. **WHEN REQUESTING INSPECTIONS, PLEASE REFER TO THE PROJECT # IDENTIFIED ABOVE.**
- ALL WORK SHALL CONFORM TO LVVMD STANDARD PLANS, DRAWINGS, AND SPECIFICATIONS, AND TO THE 2010 EDITION OF THE LVVMD DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS). **THE LATEST EDITION OF UDACS SHALL SUPERSEDE ANY CONFLICTS CONTAINED IN THE APPROVED DRAWINGS AND/OR SPECIFICATIONS.**
- ALL WORK, EXCEPT AS MODIFIED BY THESE PLANS OR BY NOTE 2 ABOVE, SHALL BE DONE IN ACCORDANCE WITH THE MOST RECENT EDITION OR EDITION OF THE UNIFORM SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENT, CLARK COUNTY AREA.
- A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVVMD.
- ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING WITH LVVMD APPROVED SERVICE SADDLES.
- ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
- ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY AND CURB GUTTERS.
- ALL WATER AND STORM DRAIN OR SANITARY SEWER CROSSINGS SHALL CONFORM TO SECTION 2.22 OF THE 2010 EDITION OF THE UDACS
- ALL WATER FACILITIES SHALL BE FILLED, DISINFECTED, PRESSURE TESTED, FLUSHED, FILLED, AND AN ACCEPTABLE WATER SAMPLE OBTAINED, PRIOR TO CONNECTION TO THE LVVMD DISTRIBUTION SYSTEM.
- THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER FROM LVVMD CENTRAL STORES. TELEPHONE 258-3192 OR 258-3802, TWO (2) WORKING DAYS PRIOR TO METER PICKUP.
- ANY INTERRUPTION OF SERVICE MUST BE PERFORMED IN ACCORDANCE WITH UDACS SECTION 3.14.01, AND APPROVED BY THE LVVMD INSPECTION DIVISION PRIOR TO SHUTDOWN. PROPER WRITTEN NOTIFICATION MUST BE GIVEN TO ALL AFFECTED CUSTOMERS.
- ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST BE LISTED ON THE LVVMD PRE-APPROVED MATERIALS AND MANUFACTURER'S LISTING FOR NEW FACILITIES, LATEST REVISION, OR SPECIALLY APPROVED ON THESE PLANS.
- TELEPHONE "CALL BEFORE YOU DIG" AT "811" OR 1-800-227-2600.
- THE INSTALLATION OF LAS VEGAS VALLEY WATER DISTRICT (LVVMD) MUNICIPAL WATER FACILITIES WITHIN ALL STREETS IS ASSUMED TO BE IN COMPLIANCE WITH THE UNIFORM STANDARDS, INCLUDING THE PLACEMENT OF ASPHALT PAVING STREET SURFACES. ANY REPAIR WORK DONE BY THE LVVMD TO THE MUNICIPAL WATER FACILITIES WILL INCLUDE THE REPAIRING OF AND AT LEAST ONE (1) INCHES SIZED ASPHALT REPAIR PATCH ON THE STREET SURFACE. ANY DECORATIVE PAVING SURFACE WITHIN THE STREET IS THE RESPONSIBILITY OF THE OWNER'S ASSOCIATION, OR THE INDIVIDUAL PROPERTY OWNERS IF NO OWNER'S ASSOCIATION IS IN EXISTENCE, OR THE AGENCY HAVING JURISDICTION DECORATIVE SURFACE MATERIALS PLACED WITHIN THE TEN FOOT EASEMENT ABUTTING A PUBLIC OF PRIVATE STREET, IF DISTURBED BY THE CONSTRUCTION OF THE WATER FACILITY OPERATION. IF ITS FACILITIES WILL BE REPLACED BY LVVMD WITH AN APPROPRIATELY SIZED PLAIN FINISH CONCRETE PATCH, THE LVVMD WILL NOT RESTORE, AND WILL NOT BE RESPONSIBLE FOR THE RESTORATION OF ANY DECORATIVE PAVING SURFACE WITH THE STREET. THE LVVMD WILL NOT ATTEMPT TO MATCH COLOR OR FINISH OF ANY ADJACENT MATERIALS.
- NO LEAD COMPLIANCE NOTE:**
TO COMPLY WITH THE FEDERAL SAFE DRINKING WATER ACT, ALL WATER WORKS BRASS PRODUCTS PROPOSED TO BE RELOCATED OR INSTALLED AS NEW MUST BE INSTALLED WITH THE LEAD FREE APPROVED PRODUCT. THE OLD LEADED PRODUCT MAY NOT BE REUSED.

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
DATE _____ LVVWD PROJECT # XXXXX

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEWADA", LATEST EDITION; THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA NEWADA", LATEST REVISED EDITION; THE "SUMMERLIN IMPROVEMENT STANDARDS" FOR WORK IN THE SUMMERLIN AREA; AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY CONTROLLING AGENCIES. THE UNIFORM BUILDING CODES, AND ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE, EXCEPT AS NOTED ON THIS SHEET AT "DEVIATIONS FROM STANDARDS".
2. THE EXISTENCE AND LOCATION OF ANY OVERHEAD OR UNDERGROUND UTILITY LINES, PIPES, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A RESEARCH OF THE AVAILABLE RECORDS. EXISTING UTILITIES AS SHOWN FROM C.L.V PLANS LIBRARY ARE APPROXIMATE AND FOR RECORD PURPOSES. EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. EXISTING UTILITIES MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, LOCATE ALL UNDERGROUND AND OVERHEAD INTERFERENCES WHICH MAY AFFECT HIS OPERATION DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE. TO SAME. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD LINES AND SHALL BE RESPONSIBLE TO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COST AND LIABILITY IN CONNECTION THEREWITH.
3. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING UTILITY LINES, STRUCTURES AND STREET IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE, FROM DAMAGE, AND ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED SATISFACTORY TO THE CITY ENGINEER AND OWNING UTILITY.
4. ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS, ANY REVISIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.
5. TYPE V CEMENT SHALL BE USED IN ALL OFF-SITE CONCRETE WORK. CONCRETE TO BE 3000 P.S.I. MINIMUM @ 28 DAYS. MIX DESIGNS TO BE APPROVED BY THE CITY, PRIOR TO THE USE ON THE PROJECT.

PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.
7. EXPANSION JOINTS REQUIRED, MAXIMUM EVERY 300' IN EXTRUDED-TYPE CURB.
8. AC PAVEMENT TO BE ONE-HALF INCH (1/2") ABOVE LIP OF ALL CUTTERS AFTER COMPACTION, EXCEPT AT SIDEWALK RAMPS AND CROSS CUTTERS.
9. CURB AND GUTTER FOUND TO BE UNACCEPTABLE TO THE CITY OF LAS VEGAS SHALL BE REMOVED AND REPLACED PER STANDARD DRAWING 216.
10. SIDEWALK RAMPS TO BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER STANDARD DRAWING 235. EXACT LOCATION OF RAMPS MAY BE ADJUSTED IN THE FIELD BY A CITY INSPECTOR.
11. CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE, AND FOR INGRESS AND EGRESS TO NEW CONSTRUCTION. THE EXTENT OF THE TRANSITIONS TO BE AS SHOWN ON PLANS.
12. ALL GRADING WORK SHALL CONFORM TO THE SOILS REPORT AS PREPARED BY SOUTHWEST GEOTECHNICAL REPORT #175337, 8/25/17 APPROVED BY THE CITY ENGINEER, AND AS SHOWN ON THESE PLANS.
13. THE CONTRACTOR SHALL, ALL SAWCUT LINES MAY BE ADJUSTED OR DETERMINED IN THE FIELD BY A CITY OF LAS VEGAS ENGINEER IF LOCATION ON PLANS IS NOT CLEARLY SHOWN. ANY ADJUSTMENTS SHALL BE IN ACCORDANCE WITH CITY ENGINEER'S CONDITIONS FOR RELATIONS.
14. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEY MONUMENTS, ANY MONUMENTS NOT DISTURBED OR REPLACED SHALL BE ADJUSTED PER AVAILABLE RECORDS IN ACCORDANCE WITH N.E.S. STATUTE NO. 625.380 AND CITY OF LAS VEGAS TITLE 18, APPENDIX D.

- ALL WALLS, NEW OR EXISTING, ARE ONLY SHOWN ON CIVIL PLANS FOR THE PURPOSE OF REVIEWING GRADE RELATIONSHIPS, FLOOD CONTROL AND SIGHT DISTANCE AT INTERSECTIONS. NEW WALLS REQUIRE A SEPARATE PERMIT AND INSPECTION BY THE BUILDING DEPARTMENT.
17. ASPHALT MIX DESIGN MUST BE SUBMITTED AND APPROVED BY THE CITY ENGINEER PRIOR TO THE PLACEMENT OF ASPHALT WITHIN CITY RIGHT OF WAY.
18. CONTRACTOR SHALL ADJUST ALL NEW AND EXISTING INLETS, VALVE BOXES, MANHOLE RIMS, AND SEWER CLEAN OUTS, ETC. TO FINISH GRADE AS APPLICABLE WHETHER OR NOT THEY ARE SHOWN ON THE PLANS.
19. MATERIALS, HANDLING AND PLACEMENT OF PORTLAND CEMENT CONCRETE SHALL BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF MDT OR THE CLARK COUNTY AREA SPECIFICATIONS (AS APPLICABLE) AND THE PLANS AND DETAILS SHOWN HEREON.
20. WHEN INSTALLING UNDERGROUND FACILITIES THAT REQUIRE UNDERGROUND LOCATING DEVICES SUCH AS MARKER BAILS, LOCATING RIBBON, ETC., THE CONTRACTOR SHALL PROVIDE WRITING DOCUMENTATION TO OBTAIN INSPECTION AND TESTING CERTIFYING THAT ALL DEVICES HAVE BEEN PLACED AND VERIFIED TO BE IN CORRECT LOCATION PRIOR TO THE CONSTRUCTION OF ANY ROAD BASE.
21. SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S) SHALL BE PROVIDED TO THE CITY AND APPROVED PRIOR TO ACCEPTANCE OF FACILITY. THE CITY ENGINEER SHALL REVIEW THE HORIZONTAL AND VERTICAL (INVERT) LOCATION OF PUBLIC SEWER MANHOLES, STORM DRAIN MANHOLES AND TRANSITION STRUCTURES, STORM DRAIN LATERALS AT THE CONNECTION TO THE STORM DRAIN MAIN AND AT THE CONNECTION TO A DROP INLET, THE CONNECTION OF SEWER SERVICE LATERALS TO THE SEWER MAIN AND WHERE THE SEWER SERVICE LATERALS EXIT THE PUBLIC RIGHT-OF-WAY, AND STORM DRAIN MAIN ALIGNMENT, INCLUDING DEFLECTION POINTS. THE LOCATION SHALL BE DESCRIBED BY COORDINATES WHICH SHALL BE BASED ON THE OPTIMUM HORIZONTAL AND VERTICAL LOCATION NETWORKS OF THE CITY OF LAS VEGAS. FINAL LOCATION MAP(S) MUST BE SEALED AND CERTIFIED BY A NEVADA PROFESSIONAL LAND SURVEYOR TO HAVE POSITIONAL CERTANTIES OF ± 0.09 METERS (± 0.3 FEET) HORIZONTALLY AND VERTICALLY. A SEPARATE ELECTRONIC CDMA DELIMITED FILE FOR THE SANITARY SEWER AND STORM DRAIN COORDINATES SHALL ALSO ACCOMPANY THE SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S).
- OR
22. "SANITARY SEWER AND STORM DRAIN FACILITIES SHOWN ON THESE PLANS SHALL BE USED TO MEET THE REQUIREMENTS OF NRS 455-1-1 AND SHALL SHOW AT A MINIMUM THE HORIZONTAL AND VERTICAL (INVERT) LOCATION OF PUBLIC MANHOLES, STORM DRAIN MANHOLES, TRANSITION STRUCTURES, AND THE CONNECTION OF SEWER SERVICE LATERALS TO THE SEWER MAIN AND WHERE THE SEWER SERVICE LATERALS EXIT THE PUBLIC RIGHT-OF-WAY. ANY DEVIATIONS FROM THE INFORMATION SHOWN SHALL BE NOTED AND SUBMITTED AS A REVISION TO THE PLANS AND APPROVED PRIOR TO ACCEPTANCE OF FACILITY VIDEO INSPECTION."
23. CCTV VIDEO INSPECTION IS REQUIRED FOR ALL SEWER AND STORM DRAINS, THE CCTV VIDEO INSPECTIONS NEED TO BE PERFORMED PER THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS LATEST ADDITION.
24. A SEPARATE BORING PERMIT IS REQUIRED FOR ALL BORING ACTIVITIES.

1. ALL STREET LIGHTING INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE STREET LIGHTING PLANS, THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST REVISION; AND THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST REVISION, AND ANY ADOPTED SPECIAL AREA STANDARDS.
2. NO DEVIATION OF STREET LIGHT, PULL BOX, CONDUITS (ETC.) LOCATIONS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL OF TRAFFIC ENGINEERING AND THE CITY ENGINEER.
3. ALL EXISTING STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION.
4. ALL STREET LIGHTING CONDUITS SUB SHALL HAVE AT LEAST ONE GREEN #8 THW WIRE INSTALLED, AS TRACER WIRE. WHEN "EYE BOLT" CONDUIT IS INSTALLED FROM PG. 1 TO PG. 11, IT SHALL HAVE MINIMUM OF 2 #4 AND 1 #8 THW WIRE WITH THE ENDS TAPED OR "SAFE OFF" PRIOR TO FINAL INSPECTION.
5. ANY STRUCTURE SUCH AS BLOCK WALLS, CHAIN LINK FENCES, RETAINING WALLS, ETC., SHALL HAVE A MINIMUM CLEARANCE IN ACCORDANCE WITH THE USD NO. 320A.
6. AS-BUILT DRAWINGS SHALL BE SUPPLIED TO THE TEF0 PRIOR TO ANY PRE-PRIOR INSPECTION. THE AS-BUILT DRAWING NEEDS TO BE STAMPED AS-BUILT AND SIGNED BY THE PREPARER.
7. SERVICE POINT SHALL BE COORDINATED WITH ANY NEIGHBORING SERVICE POINTS AND WHEREVER POSSIBLE, BE LOCATED AT THE END OF THE CENTER OF SERVICE POINTS SHALL BE SHOWN ON THE CIVIL PLANS.
8. IT SHALL BE ASSUMED THAT IN THE ABSENCE OF AN EXISTING, WORKABLE CIRCUIT TO ATTACH TO, ALL INSTALLATIONS SHALL REQUIRE A NEW SERVICE FOR OPERATION OF THE CIRCUIT.
9. WHEREVER THERE IS AN OVERHEAD UTILITY THAT MAY CONFLICT WITH THE INSTALLATION OF STREET LIGHTING CIRCUITS AND/OR POLES, THESE CONFLICTS MUST BE RESOLVED BETWEEN THE DEVELOPER AND THE UTILITIES PRIOR TO ANY IMPROVEMENT TO THE CITY OF LAS VEGAS. ALL CONFLICT BASES ARE INSTALLED.
10. THE CONTRACTOR SHALL FURNISH COMPLETE SERVICE TO TRANSFORMERS AND CONTROL SYSTEMS IF REQUIRED ON PLANS.
11. THE DEVELOPER/OWNER WILL BE REQUIRED TO SUPPLY POWER TO ALL NEW PUBLIC STREET LIGHTS INSTALLED UNDER THIS DESIGN PRIOR TO BOND RELEASE OR PROJECT COMPLETION. THE DEVELOPER/OWNER WILL BE REQUIRED TO FURNISH POWER TO THE STREET LIGHTS DURING THE INSTALLATION, CONSTRUCTION, ENERGY, MAINTENANCE AND OPERATIONAL COST OF SAID STREET LIGHTS PRIOR TO PROJECT COMPLETION. REFER TO THE PLAN FOR ANY NEW SERVICE REQUIREMENTS. THE TRANSFER OF OWNERSHIP FROM THE DEVELOPER/OWNER TO THE CITY OF LAS VEGAS FOR ALL NEW PUBLIC STREET LIGHTS AND/OR SERVICE/S INSTALLED UNDER THIS PLAN DESIGN SHALL BE COMPLETED PRIOR TO PROJECT COMPLETION. COORDINATE ALL MAINTENANCE AND OPERATIONAL TRANSPORT WITH THE CITY OF LAS VEGAS TRAFFIC ENGINEERING DEPARTMENT (TEF0) AT (702) 229-6331.

ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE LAS VEGAS FIRE AND RESCUE ADOPTED FIRE CODE ORDINANCE # 6325 FOR HYDRANT SPECIFICATIONS AND HYDRANT INSTALLATION SPECIFICATIONS.

- ONLY FIRE HYDRANTS THAT ARE ON THE LAS VEGAS VALLEY WATER DISTRICT'S APPROVED PRODUCTS LIST ARE ALLOWED TO BE INSTALLED.
- A PERMIT IS REQUIRED FROM LAS VEGAS FIRE AND RESCUE FOR THE INSTALLATION OF ON-SITE WATER LINES AND FIRE HYDRANTS. THE PERMIT AND CONTRACTORS MATERIAL TEST CERTIFICATE FOR UNDERGROUND PIPING FORM SHALL BE OBTAINED FROM THE FIRE PROTECTION ENGINEER BEFORE COMMENCEMENT OF WORK. [IFC § 105.7.12]
- ON ANY RESIDENTIAL OR COMMERCIAL INSTALLATIONS, FIRE HYDRANTS SHALL BE INSTALLED AND FIRE APPARATUS ACCESS ROADS SHALL BE MAINTAINED BEFORE COMMENCEMENT OF ANY CONSTRUCTION. ALL FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER AND BE CAPABLE OF DELIVERING THE REQUIRED FIRE FLOW. [IFC § 3310, § 3312]
- TO IDENTIFY THE FIRE HYDRANT LOCATIONS, THE CONTRACTOR SHALL PLACE A BLUE REFLECTIVE MARKER AT THE CENTER LINE OF THE STREET ADJACENT TO THE FIRE HYDRANTS. [IFC § 507.5.7.3]
- ALL UNDERGROUND INSPECTIONS, PRESSURE AND FLUSH VERIFICATIONS OF ALL FIRE HYDRANTS AND FIRE LINES TO BE CONDUCTED BEFORE COVERING THE LINES. CENTER LOADING IS ACCEPTABLE FOR THE HYDRO TESTS WITH PRIOR FIRE PREVENTION APPROVAL. [IFC § 106.3]
- ALL ON-SITE UNDERGROUND WATER MAINS AND MATERIALS SHALL BE U.L. LISTED, A.W.W.A. APPROVED AND SHALL BE RATED FOR THE APPROPRIATE WORKING PRESSURE. [IFC § 507.2.1, NFPA 24]
- PAINTING OF CURBS, FIRE HYDRANTS, PADS, PROTECTION OF FIRE HYDRANTS FROM PHYSICAL DAMAGE, AND ALL OTHER WORK NECESSARY PER PLANS SHALL BE COMPLETED BEFORE APPROVAL BY LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION. [IFC § 507]
- PRIVATE HYDRANTS SHALL BE PAINTED RED. [IFC § 507.5.7.1]
- PRIOR TO THE FINAL OCCUPANCY, A FIRE FLOW TEST SHALL BE WITNESSED BY LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION TO VERIFY AVAILABILITY OF THE REQUIRED FIRE FLOW. [IFC § 507]
- FIRE HYDRANT SPACING SHALL BE AS FOLLOWS: [IFC § C102]
 - RESIDENTIAL - 500 FT UNSPRINKLERED; 400 FT SPRINKLERED.
 - COMMERCIAL - 300 FT UNSPRINKLERED; 400 FT SPRINKLERED.
- WHERE THE WATER MAINS ARE EXTENDED ALONG STREETS OR NEW STREETS ARE INSTALLED WHERE FIRE HYDRANTS ARE NOT NEEDED FOR PROTECTION OF THE STRUCTURES, FIRE HYDRANTS SHALL BE INSTALLED AT A 400 FT SPACING TO PROVIDE FOR TRANSPORTATION HAZARD AREAS. WHERE STREETS ARE PROVIDED WITH MEDIAN DIVIDERS OR HAVE FOUR (4) OR MORE TRAFFIC LANES AND HAVE A TRAFFIC COUNT OF MORE THAN 30,000 PER DAY, HYDRANTS ARE REQUIRED ON EACH SIDE OF THE STREET SPACED AT 500 FT ON AN ALTERNATING BASIS. [IFC § C102.8]
- NO FIRE HYDRANTS SHALL BE LOCATED WITHIN THE RADIUS OF A CUL-DE-SAC OR WITHIN 20 FT OF THE PERIMETER OF THE RADIUS OF THE CUL-DE-SAC.
- NO FIRE HYDRANTS SHALL BE LOCATED WITHIN 6 FT OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREETLIGHT OR ANY OTHER OBSTRUCTION. [IFC § C102.12]
- A MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A ONE-TWO FAMILY DWELLING SHALL NOT EXCEED 300 FT, AS MEASURED BY AN APPROVED ROUTE. [IFC § C102.4]
- THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A FIRE DEPARTMENT CONNECTION (FDC) SHALL NOT EXCEED 100 FT, AS MEASURED BY AN APPROVED ROUTE. [IFC § C102.7]
- THE MAXIMUM DISTANCE FROM A HYDRANT TO THE END OF A DEAD-END STREET SHALL NOT EXCEED 200 FT. [IFC § C102.6]
- TWO (2) SOURCES OF SUPPLY ARE REQUIRED WHENEVER THERE IS 4 OR MORE FIRE HYDRANTS/SPRINKLER HEAD-INS ARE INSTALLED ON A SINGLE SYSTEM. SECTIONAL CONTROL VALVES SHALL BE INSTALLED SO THAT NO MORE THAN 2 FIRE HYDRANTS CAN BE OUT OF SERVICE DUE TO A BREAK IN A WATER MAIN. [IFC § C104]
- ALL FIRE APPARATUS ACCESS ROADS SHALL BE PAVED TO PROVIDE ALL-WEATHER DRIVING CAPABILITIES, AND SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF THE FIRE APPARATUS. [IFC § 503.2.3]
- THE GRADIENT FOR THE FIRE APPARATUS ACCESS ROADS SHALL NOT EXCEED 12% ANGLES OF APPROX. 1 IN 8 AND ANGLE OF DEPARTURE SHALL NOT EXCEED 6% FOR 25 FT PRIOR TO OR AFTER THE GRADE CHANGE, ADJACENT TO THE STRUCTURES GRADIENT SHALL NOT EXCEED 6%. [IFC § 503.2.7, § 503.2.8]
- THE TURNING RADIUS OF THE FIRE APPARATUS ACCESS ROADS SHALL BE NO LESS THAN 52 FT OUTSIDE AND 28 FT INSIDE TURNING RADIUS. [IFC § 503.2.4]
- VERTICAL CLEARANCE OF ALL FIRE APPARATUS ACCESS ROADS SHALL NOT BE LESS THAN 13FT 6 INS. [IFC § 503.2.1]
- FIRE DEPARTMENT ACCESS ROADS SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF NOT LESS THAN 10 FT. PARKING SHALL BE ALLOWED WITH PARALLEL PARKING PERMITTED ON BOTH SIDES, NOT LESS THAN 32 FT WIDE, FLOW-LINE TO FLOW-LINE, WHERE PARKING IS PERMITTED ONLY ON ONE SIDE OF THE FIRE APPARATUS ACCESS ROAD, NOT LESS THAN 24 FT WIDE, FLOW-LINE TO FLOW-LINE, WHERE NO PARKING IS PERMITTED ON EITHER SIDE, FIRE LANES THOUGH PARKING LOTS SHALL BE NOT LESS THAN 24 FT. [IFC § 503.2.1.1]
- A FIRE APPARATUS ACCESS ROAD SHALL BE REQUIRED WHEN ANY PORTION OF AN EXTERIOR WALL OF THE FIRST STORY IS LOCATED MORE THAN 150 FT FROM A FIRE DEPARTMENT VEHICLE ACCESS. THIS DISTANCE COULD BE INCREASED TO 250 FT IF THE BUILDING IS SPRINKLERED. [IFC § 503.1.1]
- APPROVED SECONDARY FIRE APPARATUS ACCESS SHALL BE PROVIDED FOR 100 OR MORE DWELLING UNITS (500 SQ. FT. OR MORE) IN ALL AREAS OF ACCESS IN EXCESS OF 600 FT. COMMERCIAL AND INDUSTRIAL DEVELOPMENTS WHERE BUILDINGS EXCEED 2 STORIES OR 30 FEET IN HEIGHT, OR EXCEEDING 62,000 SQUARE FEET IN AREA. [IFC § 503.1.2]
- ALL DEAD-END FIRE APPARATUS ROADS AND/OR FIRE LANES, PUBLIC OR PRIVATE, IN EXCESS OF 150 FT IN LENGTH SHALL BE PROVIDED WITH AN APPROVED TURN AROUND HAVING A MINIMUM DIAMETER OF 81 FT. [IFC § 503.2.5]
- ALL FIRE APPARATUS ACCESS ROADS SHALL BE MARKED BY PLACING APPROVED SIGNS AT THE START OF THE DESIGNATED FIRE LANE, ONE SIGN AT THE END OF THE FIRE LANE AND WITH SIGNS AT INTERVALS OF 100 FT ALONG THE DESIGNATED FIRE LANES. SIGNS TO BE PLACED ON BOTH SIDES OF THE ROAD. IF THE ROAD IS WIDER THAN 60 FT, SIGNS SHALL BE PLACED ON BOTH SIDES OF THE ROAD. SIGNS SHALL BE INSTALLED NO HIGHER THAN 10 FT OR LESS THAN 6 FT FROM THE ROADWAY LEVEL. THE CURB ALONG OR ON THE PAVEMENT OR CEMENT (IF NO CURB IS PROVIDED) SHALL BE PAINTED WITH A RED WEATHER RESISTANT PAINT IN ADDITION TO THE SIGNS. [IFC § 503.3]
- ELECTRICALLY CONTROLLED ACCESS GATES SHALL BE PROVIDED WITH AN APPROVED EMERGENCY VEHICLE DETECTOR/RECEIVER SYSTEM. SAID SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE IFC § 503.6 AND IFC APPENDIX M.

REVISED 3/1/16.

ANY INFORMATION, CENTRAL TELEPHONE CO. DBA CENTURY LINK TELEPHONE, AND SOUTHWEST GAS SHOWN FOR INFORMATIONAL PURPOSES ONLY. REFERENCE NV ENERGY, CENTRAL TELEPHONE CO. DBA CENTURY LINK TELEPHONE, AND SOUTHWEST GAS TO OBTAIN ADDITIONAL INFORMATION AND CONSTRUCTION DETAILS. CONTRACTOR TO COORDINATE WITH UTILITIES FOR REMOVAL AND INSTALLATION OF FACILITIES.

ALL EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN IN THEIR EXISTING LOCATION. THE LOCATION OF UTILITIES SHOWN ON THESE PLANS VARIES FROM TIME TO TIME THROUGHOUT THE PROJECT AREA. THE CONTRACTOR SHALL EXERCISE EXTREME CARE WHERE EXCAVATING AND GRADING THE SUBBASE IN THE VICINITY OF UTILITIES TO AVOID DAMAGE TO THE LATTER.

ALL EXISTING UTILITIES SHALL BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.

1. IN THE EVENT THAT ANY UNFORESEEN CONDITIONS NOT COVERED BY THESE NOTES ARE ENCOUNTERED DURING GRADING OPERATIONS, THE OWNER/ENGINEER SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTION.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL NECESSARY CUTS AND FILLS WITHIN THE LIMITS OF THIS PROJECT AND THE RELATED OFF-SITE WORK, SO AS TO GENERATE THE DESIRED SUBGRADE, FINISH GRADES AND SLOPES SHOWN.
3. CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ALL EXCAVATION. ADEQUATE SHORING SHALL BE DESIGNED AND PROVIDED BY THE CONTRACTOR TO PREVENT UNDERMINING OF ANY ADJACENT FEATURES OR FACILITIES AND/OR CAVING OF THE EXCAVATION.
4. THE GRADING CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE OWNER TO PROVIDE FOR THE REQUIREMENTS OF THE PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND ASSOCIATED PERMIT.
5. CONTRACTOR SHALL GRADE TO THE LINES AND ELEVATIONS SHOWN ON THE PLANS WITHIN THE FOLLOWING HORIZONTAL AND VERTICAL TOLERANCES AND DEGREES OF COMPACTION, IN THE AREAS INDICATED:

	HORIZONTAL	VERTICAL
A. PAVEMENT AREA SUBGRADE	0.1"±	+0.0' TO -0.1'
B. ENGINEERED FILL	0.5"±	+0.1' TO -0.1'
6. COMPACTION TESTING WILL BE PERFORMED BY THE OWNER OR HIS REPRESENTATIVE. COMPACTION SHALL COMPLY WITH THE REQUIREMENTS OF THE ENGINEER.
7. ALL CUT AND FILL SLOPES SHALL BE PROTECTED UNTIL EFFECTIVE EROSION CONTROL HAS BEEN ESTABLISHED.
8. THE USE OF POTABLE WATER WITHOUT A SPECIAL PERMIT FOR BUILDING OR CONSTRUCTION PURPOSES INCLUDING CONSULTATION OF BACKFILL OR DUST CONTROL IS PROHIBITED. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR CONSTRUCTION WATER.
9. THE CONTRACTOR SHALL MAINTAIN THE STREETS, SIDEWALKS AND ALL OTHER PUBLIC RIGHT-OF-WAY IN A CLEAN, SAFE AND USABLE CONDITION. ALL SPILLS OF SOIL, ROCK OR CONSTRUCTION DEBRIS SHALL BE PROMPTLY REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC SHALL BE MAINTAINED IN A CLEAN, SAFE AND USABLE CONDITION.
10. IN THE EVENT THAT ANY TEMPORARY CONSTRUCTION ITEM IS REQUIRED THAT IS NOT SHOWN ON THESE DRAWINGS, SUCH ITEM SHALL BE PROVIDED, AS DIRECTED BY THE CITY ENGINEER, AT NO EXPENSE TO THE CITY OF LAS VEGAS. TEMPORARY CONSTRUCTION INCLUDES DITCHES, BERMS, ROAD SIGNS AND BARRICADES, ETC.

REVISED JULY 2008

NONE

1. ALL CONSTRUCTION SIGNING, BARRICADING, AND TRAFFIC DELINEATION SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION.
2. THE STREET SIGN CONTRACTOR SHALL OBTAIN STREET NAMES AND BLOCK NUMBERING FROM THE PLANNING DEPARTMENT PRIOR TO CONSTRUCTION.
3. BEFORE ANY WORK IS STARTED IN THE RIGHT-OF-WAY, THE CONTRACTOR SHALL INSTALL ALL ADVANCE WARNING SIGNS FOR THE CONSTRUCTION ZONE. THE CONTRACTOR SHALL INSTALL TEMPORARY STOP SIGNS AT ALL NEW STREET ENCROACHMENTS INTO EXISTING CITY STREETS WHERE WARRANTED IMMEDIATELY AFTER FIRST CONSTRUCTION IS ACCOMPLISHED, AND SHALL MAINTAIN SAID SIGNS UNTIL PERMANENT SIGNS ARE INSTALLED.
4. WHEN A DESIGNATED "SUGGESTED ROUTE TO SCHOOL" IS ENCOACHED UPON BY A CONSTRUCTION WORK ZONE AND PUBLIC WORKS STAFF IDENTIFIES A NEED FOR STUDENTS TO BE ASSISTED IN THE SAFE CROSSING THROUGH THAT WORK ZONE, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE A QUALIFIED "CROSSING GUARD". THE GUARD SHALL BE PRESENT FOR THE FULL DURATION OF TIME THAT CHILDREN ARE LIKELY TO BE PRESENT.
5. IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY OBSTRUCTION, TEMPORARY REMOVAL OF OR REPLACEMENT OF ANY EXISTING TRAFFIC PAVEMENT MARKING, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED WITH LIKE MATERIAL TO THE SATISFACTION OF THE CITY TRAFFIC ENGINEER.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL PERMANENT SIGNS SHOWN ON THE PLANS. ALL NEW TRAFFIC SIGNS SHALL BE FABRICATED WITH DIAMOND GRADE VIP CLASS 6 REFLECTIVE SHEETING OR APPROVED EQUAL. ALL NEW TRAFFIC SIGNS, EXCEPT STREET NAME AND SCHOOL SPEED LIMIT SIGNS, SHALL HAVE 3/4" SERIES 1160 OR APPROVED EQUIVALENT ANTI-GRAFFITI PROTECTIVE OVERLAY. SCHOOL ZONE SIGNS SHALL HAVE 3/4" SERIES 1150 ANTI-GRAFFITI PROTECTIVE OVERLAY PLATE. STREET NAME SIGNS SHALL CONFORM IN THEIR ENTIRETY TO CURRENT CITY STANDARDS. ALL OTHER SIGNS SHALL BE STANDARD SIZE UNLESS OTHERWISE SPECIFIED ON THE PLANS. ALL SIGN POSTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT CITY STANDARDS.
7. WHEN A PROPOSED STREET LIGHT STANDARD IS LOCATED WITHIN FIVE (5') FEET OF ANY PROPOSED SIGN SHOWN ON THE PLANS TO BE MOUNTED ON A SIGNPOST, THE SIGN SHALL BE MOUNTED ON THE STREET LIGHT STANDARD AND THE SIGNPOST SHALL BE ELIMINATED.
8. ALL PERMANENT TRAFFIC CONTROL DEVICES CALLED FOR HEREON SHALL BE IN PLACE AND IN FINAL POSITION PRIOR TO ALLOWING ANY PUBLIC TRAFFIC ONTO THE PORTIONS OF THE ROAD(S) BEING IMPROVED HERE UNDER, REGARDLESS OF THE STATUS OF COMPLETION OF PAVING OR OTHER OFF-SITE IMPROVEMENTS CALLED FOR BY THESE PLANS.
9. STREET SIGNS AND STOP SIGNS SHALL BE INSTALLED PER CITY STANDARD SPECIFICATIONS FOR PLACEMENT OF STREET NAME SIGNS.
10. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAFFIC CONTROL DEVICES AND FLAGGERS TO INSURE THE SAFETY OF THE PUBLIC IN OR AROUND THE WORK AREA. THE CONTRACTOR SHALL HAVE A CERTIFIED ATSSA TRAFFIC CONTROL TECHNICIAN OR IMSA WORK ZONE SAFETY SPECIALIST SET UP, MAINTAIN AND/OR REMOVE ALL TRAFFIC CONTROL DEVICES IN THE CITY OF LAS VEGAS RIGHT OF WAY.
11. WORK IN PUBLIC STREETS, ONCE BEGUN, SHALL BE EXPEDITED TO COMPLETION SO AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND TO THE TRAVELING PUBLIC.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING CITIZENS AREA TRANSIT (C.A.T.) IF THE CONSTRUCTION INTERRUPTS OR RELOCATES A BUS STOP OR HAS AN ADVERSE EFFECT ON BUS SERVICE OF THAT STREET TO ARRANGE FOR TEMPORARY RELOCATION OF STOP.
13. GUARDS SHALL BE OBTAINED BY CONTACTING THE METROPOLITAN POLICE DEPARTMENT SPECIAL EVENTS UNIT (PHONE # 828-3442) WHO WILL PROVIDE OFFICERS PROPERLY TRAINED IN TRAFFIC CONTROL. FEES TO THE CITY OF LAS VEGAS FOR THESE OFFICERS SHALL BE SET BY METRO AND WILL BE PAID BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR ALL ARRANGEMENTS WITH METRO.
14. ANY WORK WITHIN 300' OF A SIGNALIZED INTERSECTION WILL BE NIGHT WORK, UNLESS DIRECTED BY THE CITY OF LAS VEGAS TRAFFIC ENGINEER.
15. THE CONTRACTOR SHALL CONTACT THE TRAFFIC ENGINEERING DIVISION (TRANSPORTATION SECTION) THROUGH THE CITY OF LAS VEGAS OFFICE OF THE CITY MANAGER PRIOR TO INITIATING ANY PERMANENT OR TEMPORARY MODIFICATIONS TO THE APPROVED DRAWINGS REGARDING FINAL PAVEMENT TRANSITIONS, MARKINGS AND SIGNING THAT ARE REQUIRED TO MATCH ADJACENT ROADWAY SEGMENTS. THE CONTRACTOR SHALL PROVIDE A DRAWING FOR APPROVAL BY THE TRAFFIC ENGINEERING DIVISION DEPICTING ALL SUCH CHANGES AND INSTRUMENTS. THE FINAL PAVEMENT MARKINGS AND SIGNAGE, WHICH MAY INCLUDE OMITTING, ADDING OR MODIFYING PAVEMENT MARKINGS AND TRAFFIC CONTROL SIGNS SUCH THAT ADEQUATE TRANSITIONS AND LANE TERMINATIONS BETWEEN ADJACENT ROADWAY SEGMENTS ARE CONSTRUCTED.

REVISED 05/05/08

[illegible]

NINETY-FIVE MANAGEMENT LLC

**SKYE CANYON PHASE 3BC
IRON MOUNTAIN ROAD
GENERAL NOTES**

SHEET 2 OF 15

	STREET CENTERLINE
	EASEMENT LINE
	AEP
	PROPOSED SIGN
	CONCRETE SURFACE
	PLANTMIX BITUMINOUS SURFACE
	FLOWLINE
	SAWCUT LINE
	CONTOUR LINE
	ELEVATION
	FUTURE ELEVATION
	STORM DRAIN MANHOLE
	SANITARY SEWER MANHOLE
	100 WATT STREET LIGHT
	250 WATT STREET LIGHT
	FAST ITS CONDUIT
	FAST P30 PULLBOX
	FAST TYPE 200 SPLICE VAULT

[illegible]

ABUT	ABUTMENT	AC	ALUMINUM CAP/ASPHALTIC CONCRETE	AC	ALUMINUM CAP	AD	AUTOMATION	AE	ALUMINUM CAP/ASPHALTIC CONCRETE	AP	ANGLE POINT	APN	ASSESSOR'S PARCEL NUMBER	AV	AVENUE	BC	BEGIN CURVE/BRASS CAP/BACK OF CURB	BCR	BEGIN CURVE RETURN	BLVD	BOULEVARD	BN	BENCHMARK	BT	BOTTOM	BRG	BEARING	BV	BEGIN SIDEWALK	BVCE	BEGIN VERTICAL CURVE ELEVATION	BVCS	BEGIN VERTICAL CURVE STATION	CATV	UNDERGROUND CABLE TV	CG	CURB AND GUTTER	CCSD	DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS	CKT	CIRCUIT	CLM	CLEAR/CLEARANCE	CLRB	CITY OF LAS VEGAS BENCHMARK	CLV	CITY OF LAS VEGAS	CMU	CONCRETE MASONRY UNIT	CONC	CONCRETE	C/C/L	CENTERLINE	COL	COLUMN	COL	COLUMN	CONST	CONSTRUCT/CONSTRUCTION	COORD	COORDINATE	COR	CORNER	CB	CUBIC YARD(S)	DD	DEAD	DB	DIRECT BURY	DBL	DOUBLE	DI	DIP/ INLET	DIAM	DIAMETER	DIST	DISTANCE	DW	DRIVE	DW	DRIVEWAY	DWG	DRAWING	ENDC	END CURB RETURN	EAS	EASEMENT	EA	EACH	ESMT	EASEMENT	EOR	END CURB RETURN	ELEC	ELECTRICAL	ELEV/EL	ELEVATION	EP/EOP	EDGE OF PAVEMENT	EQ	EQUAL	EST	ESTIMATED	EVC	END VERTICAL CURVE	EX/EXIST	EXISTING	EXP	EXPANSION JOINT	EW	EACH WAY	FC	FACE OF CURB	FG	FINISH GRADE	FH	FIRE HYDRANT	FL	FLOW LINE	FO	FINISH OPTIC	FS	FINISH SURFACE	FT	FOOT/FEET	FTG	FOOTING	FW	FACE OF WALL	FYA	FLASHING YELLOW ARROW	G	GAS	GA	GALVANIZED	GB	GRADE BREAK	GND	GROUND	AC	ALUMINUM CAP/ASPHALTIC CONCRETE	AE	ALUMINUM CAP	AD	AUTOMATION	AE	ALUMINUM CAP/ASPHALTIC CONCRETE	AP	ANGLE POINT	APN	ASSESSOR'S PARCEL NUMBER	AV	AVENUE	BC	BEGIN CURVE/BRASS CAP/BACK OF CURB	BCR	BEGIN CURVE RETURN	BLVD	BOULEVARD	BN	BENCHMARK	BT	BOTTOM	BRG	BEARING	BV	BEGIN SIDEWALK	BVCE	BEGIN VERTICAL CURVE ELEVATION	BVCS	BEGIN VERTICAL CURVE STATION	CATV	UNDERGROUND CABLE TV	CG	CURB AND GUTTER	CCSD	DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS	CKT	CIRCUIT	CLM	CLEAR/CLEARANCE	CLRB	CITY OF LAS VEGAS BENCHMARK	CLV	CITY OF LAS VEGAS	CMU	CONCRETE MASONRY UNIT	CONC	CONCRETE	C/C/L	CENTERLINE	COL	COLUMN	COL	COLUMN	CONST	CONSTRUCT/CONSTRUCTION	COORD	COORDINATE	COR	CORNER	CB	CUBIC YARD(S)	DD	DEAD	DB	DIRECT BURY	DBL	DOUBLE	DI	DIP/ INLET	DIAM	DIAMETER	DIST	DISTANCE	DW	DRIVE	DW	DRIVEWAY	DWG	DRAWING	ENDC	END CURB RETURN	EAS	EASEMENT	EA	EACH	ESMT	EASEMENT	EOR	END CURB RETURN	ELEC	ELECTRICAL	ELEV/EL	ELEVATION	EP/EOP	EDGE OF PAVEMENT	EQ	EQUAL	EST	ESTIMATED	EVC	END VERTICAL CURVE	EX/EXIST	EXISTING	EXP	EXPANSION JOINT	EW	EACH WAY	FC	FACE OF CURB	FG	FINISH GRADE	FH	FIRE HYDRANT	FL	FLOW LINE	FO	FINISH OPTIC	FS	FINISH SURFACE	FT	FOOT/FEET	FTG	FOOTING	FW	FACE OF WALL	FYA	FLASHING YELLOW ARROW	G	GAS	GA	GALVANIZED	GB	GRADE BREAK	GND	GROUND	AC	ALUMINUM CAP/ASPHALTIC CONCRETE	AE	ALUMINUM CAP	AD	AUTOMATION	AE	ALUMINUM CAP/ASPHALTIC CONCRETE	AP	ANGLE POINT	APN	ASSESSOR'S PARCEL NUMBER	AV	AVENUE	BC	BEGIN CURVE/BRASS CAP/BACK OF CURB	BCR	BEGIN CURVE RETURN	BLVD	BOULEVARD	BN	BENCHMARK	BT	BOTTOM	BRG	BEARING	BV	BEGIN SIDEWALK	BVCE	BEGIN VERTICAL CURVE ELEVATION	BVCS	BEGIN VERTICAL CURVE STATION	CATV	UNDERGROUND CABLE TV	CG	CURB AND GUTTER	CCSD	DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS	CKT	CIRCUIT	CLM	CLEAR/CLEARANCE	CLRB	CITY OF LAS VEGAS BENCHMARK	CLV	CITY OF LAS VEGAS	CMU	CONCRETE MASONRY UNIT	CONC	CONCRETE	C/C/L	CENTERLINE	COL	COLUMN	COL	COLUMN	CONST	CONSTRUCT/CONSTRUCTION	COORD	COORDINATE	COR	CORNER	CB	CUBIC YARD(S)	DD	DEAD	DB	DIRECT BURY	DBL	DOUBLE	DI	DIP/ INLET	DIAM	DIAMETER	DIST	DISTANCE	DW	DRIVE	DW	DRIVEWAY	DWG	DRAWING	ENDC	END CURB RETURN	EAS	EASEMENT	EA	EACH	ESMT	EASEMENT	EOR	END CURB RETURN	ELEC	ELECTRICAL	ELEV/EL	ELEVATION	EP/EOP	EDGE OF PAVEMENT	EQ	EQUAL	EST	ESTIMATED	EVC	END VERTICAL CURVE	EX/EXIST	EXISTING	EXP	EXPANSION JOINT	EW	EACH WAY	FC	FACE OF CURB	FG	FINISH GRADE	FH	FIRE HYDRANT	FL	FLOW LINE	FO	FINISH OPTIC	FS	FINISH SURFACE	FT	FOOT/FEET	FTG	FOOTING	FW	FACE OF WALL	FYA	FLASHING YELLOW ARROW	G	GAS	GA	GALVANIZED	GB	GRADE BREAK	GND	GROUND	AC	ALUMINUM CAP/ASPHALTIC CONCRETE	AE	ALUMINUM CAP	AD	AUTOMATION	AE	ALUMINUM CAP/ASPHALTIC CONCRETE	AP	ANGLE POINT	APN	ASSESSOR'S PARCEL NUMBER	AV	AVENUE	BC	BEGIN CURVE/BRASS CAP/BACK OF CURB	BCR	BEGIN CURVE RETURN	BLVD	BOULEVARD	BN	BENCHMARK	BT	BOTTOM	BRG	BEARING	BV	BEGIN SIDEWALK	BVCE	BEGIN VERTICAL CURVE ELEVATION	BVCS	BEGIN VERTICAL CURVE STATION	CATV	UNDERGROUND CABLE TV	CG	CURB AND GUTTER	CCSD	DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS	CKT	CIRCUIT	CLM	CLEAR/CLEARANCE	CLRB	CITY OF LAS VEGAS BENCHMARK	CLV	CITY OF LAS VEGAS	CMU	CONCRETE MASONRY UNIT	CONC	CONCRETE	C/C/L	CENTERLINE	COL	COLUMN	COL	COLUMN	CONST	CONSTRUCT/CONSTRUCTION	COORD	COORDINATE	COR	CORNER	CB	CUBIC YARD(S)	DD	DEAD	DB	DIRECT BURY	DBL	DOUBLE	DI	DIP/ INLET	DIAM	DIAMETER	DIST	DISTANCE	DW	DRIVE	DW	DRIVEWAY	DWG	DRAWING	ENDC	END CURB RETURN	EAS	EASEMENT	EA	EACH	ESMT	EASEMENT	EOR	END CURB RETURN	ELEC	ELECTRICAL	ELEV/EL	ELEVATION	EP/EOP	EDGE OF PAVEMENT	EQ	EQUAL	EST	ESTIMATED	EVC	END VERTICAL CURVE	EX/EXIST	EXISTING	EXP	EXPANSION JOINT	EW	EACH WAY	FC	FACE OF CURB	FG	FINISH GRADE	FH	FIRE HYDRANT	
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"ECD"	EGAN CREST DRIVE (SKYE CANYON PARK DRIVE TO EAGLE CANYON DRIVE)
"IMR"	IRON MOUNTAIN ROAD (SKYE VILLAGE ROAD TO SHAUMBER ROAD)
"SCP"	SKYE CANYON PARK DRIVE (SKYE VILLAGE ROAD TO SHAUMBER ROAD)
"SR"	SHAUMBER ROAD (SKYE CANYON PARK DRIVE TO IRON MOUNTAIN ROAD)
"SVR"	SKYE VILLAGE ROAD

S-I-G
SLATER
HANIFAN
GROUP
CONSULTING ENGINEERS & PLANNERS

5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5300
FAX (702) 284-5399

[illegible]

NINETY-FIVE MANAGEMENT LLC

SKYE CANYON PHASE 3BC
IRON MOUNTAIN ROAD
ABBREVIATIONS: KEY MAP, LEGEND, AND QUANTITIES

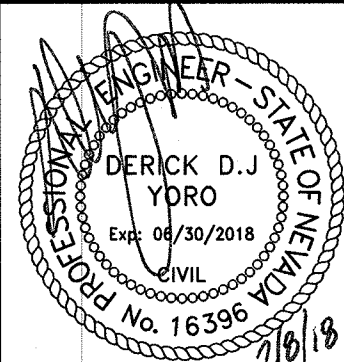
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DESIGNER: HF

CHECKED: DY

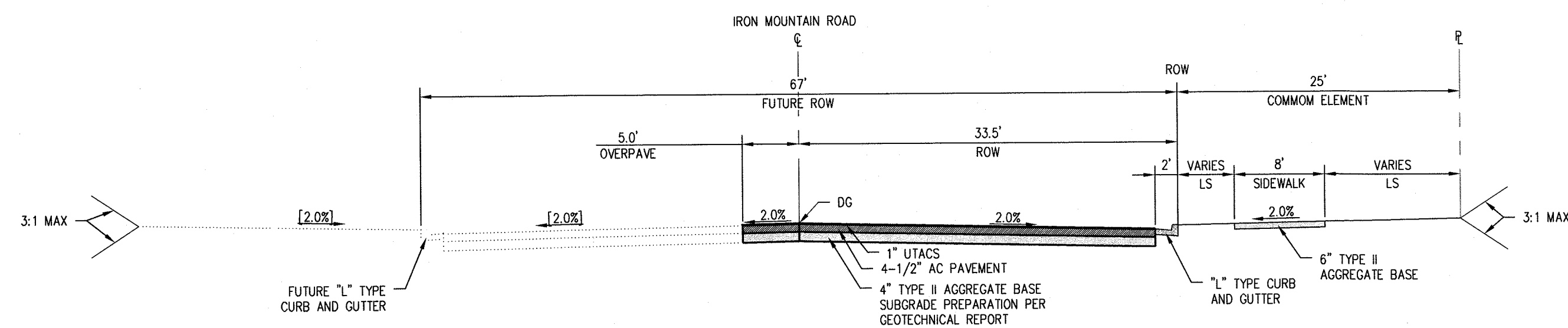
PROJECT NO.
OLY1609-000



G-03

SHEET 3 OF 15

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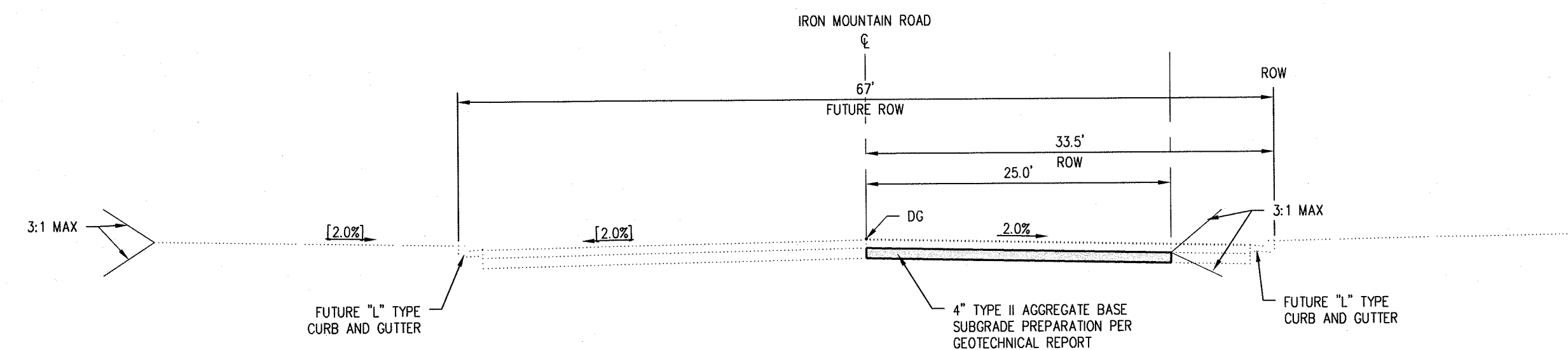


NOTE:
FINAL PAVEMENT SURFACE SHALL BE 1/2" ABOVE LIP OF GUTTER.
PAVEMENT SHALL BE FLUSH WITH LIP OF GUTTER AT SIDEWALK RAMPS.

IRON MOUNTAIN ROAD (SKYE VILLAGE TO SHAUMBER ROAD)

NOT TO SCALE

B



NOTE:
FINAL PAVEMENT SURFACE SHALL BE 1/2" ABOVE LIP OF GUTTER.
PAVEMENT SHALL BE FLUSH WITH LIP OF GUTTER AT SIDEWALK RAMPS.

IRON MOUNTAIN ROAD (SHAUMBER ROAD TO SHEEP MOUNTAIN PKWY)

NOT TO SCALE

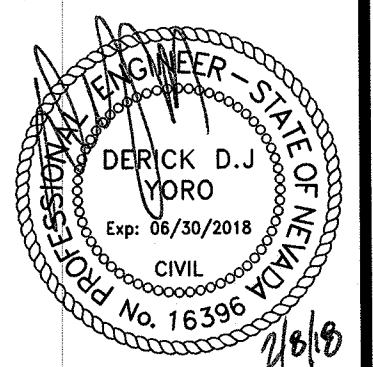
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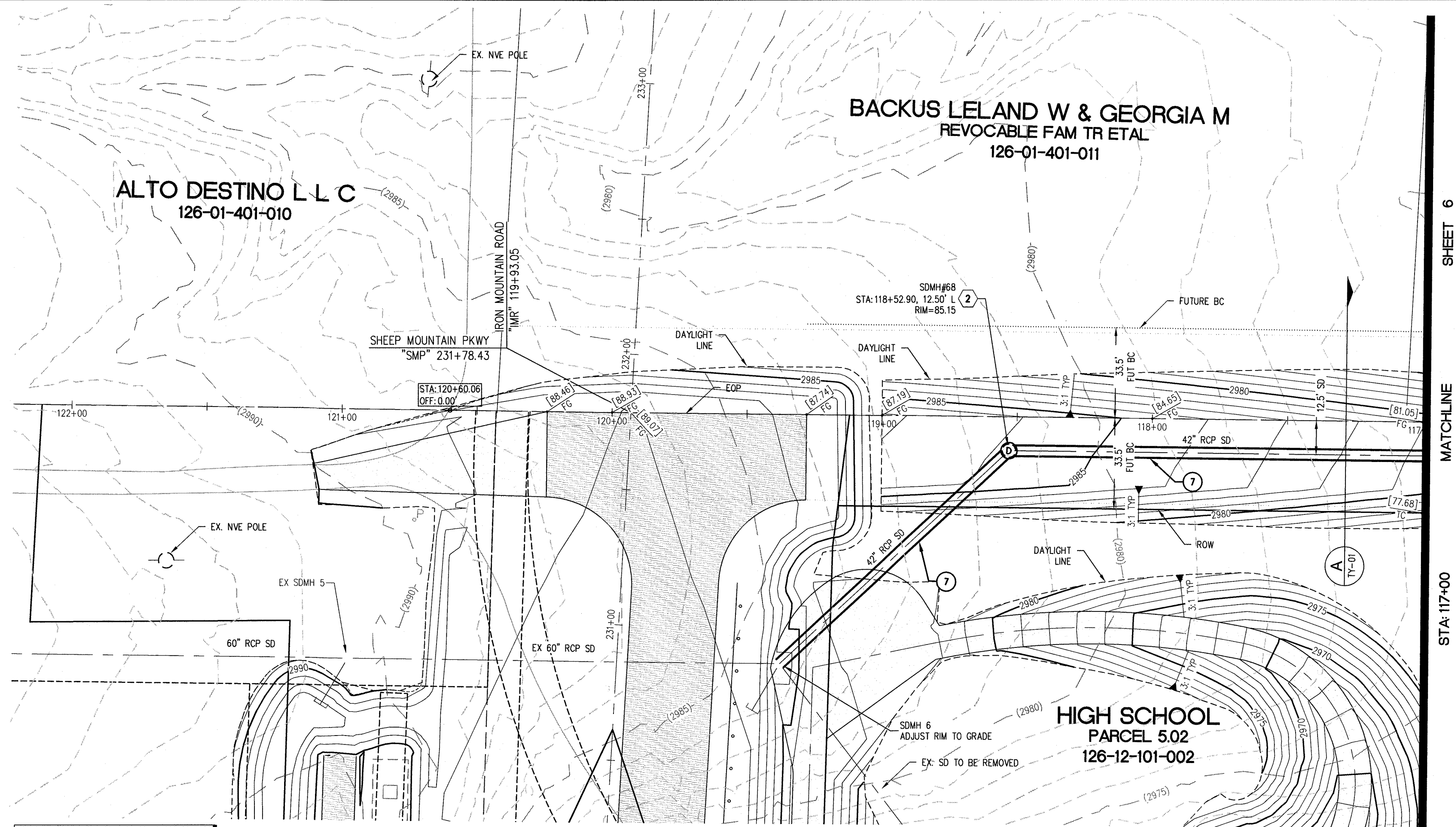
NINETY-FIVE MANAGEMENT LLC
SKYE CANYON PHASE 3BC
IRON MOUNTAIN ROAD
ROADWAY SECTIONS

DATE: 2/8/18
DRAFTER: HF
DESIGNER: HF
CHECKED: DY

PROJECT NO.
OLY1609-000



TY-01
SHEET 4 OF 15



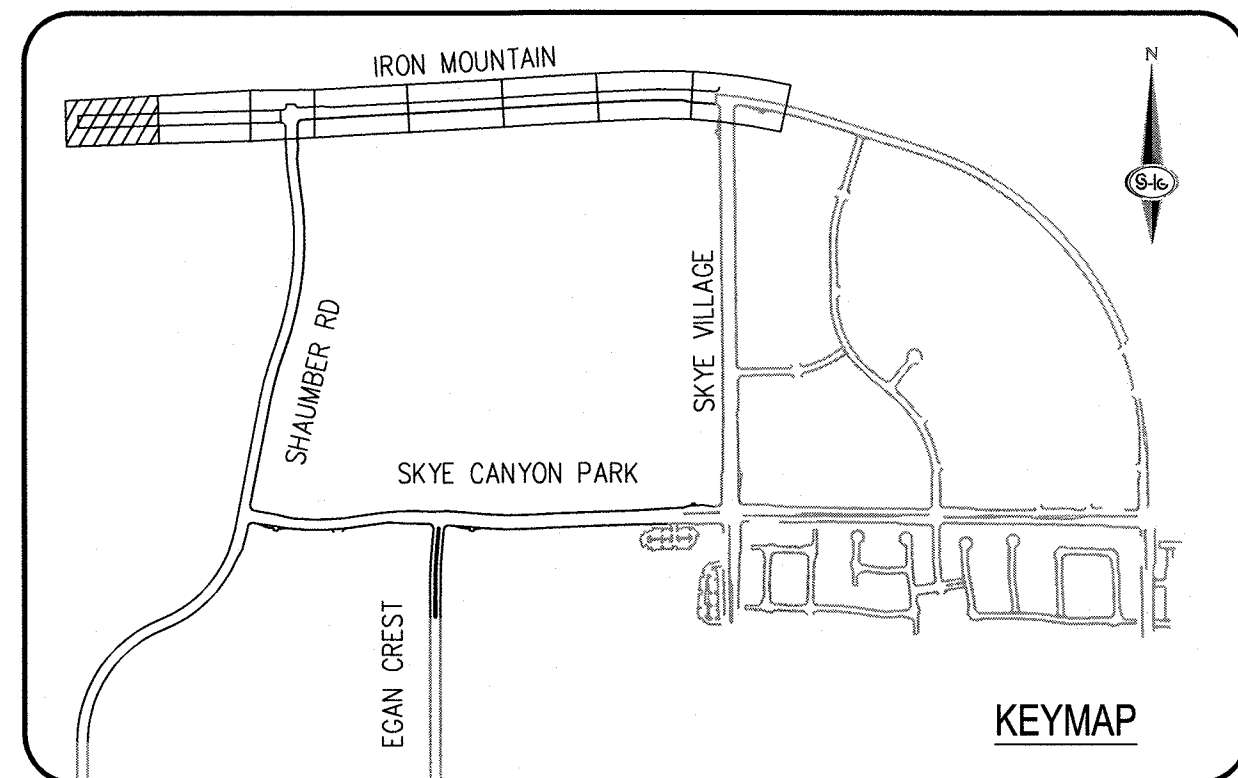
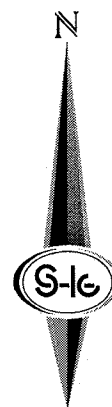
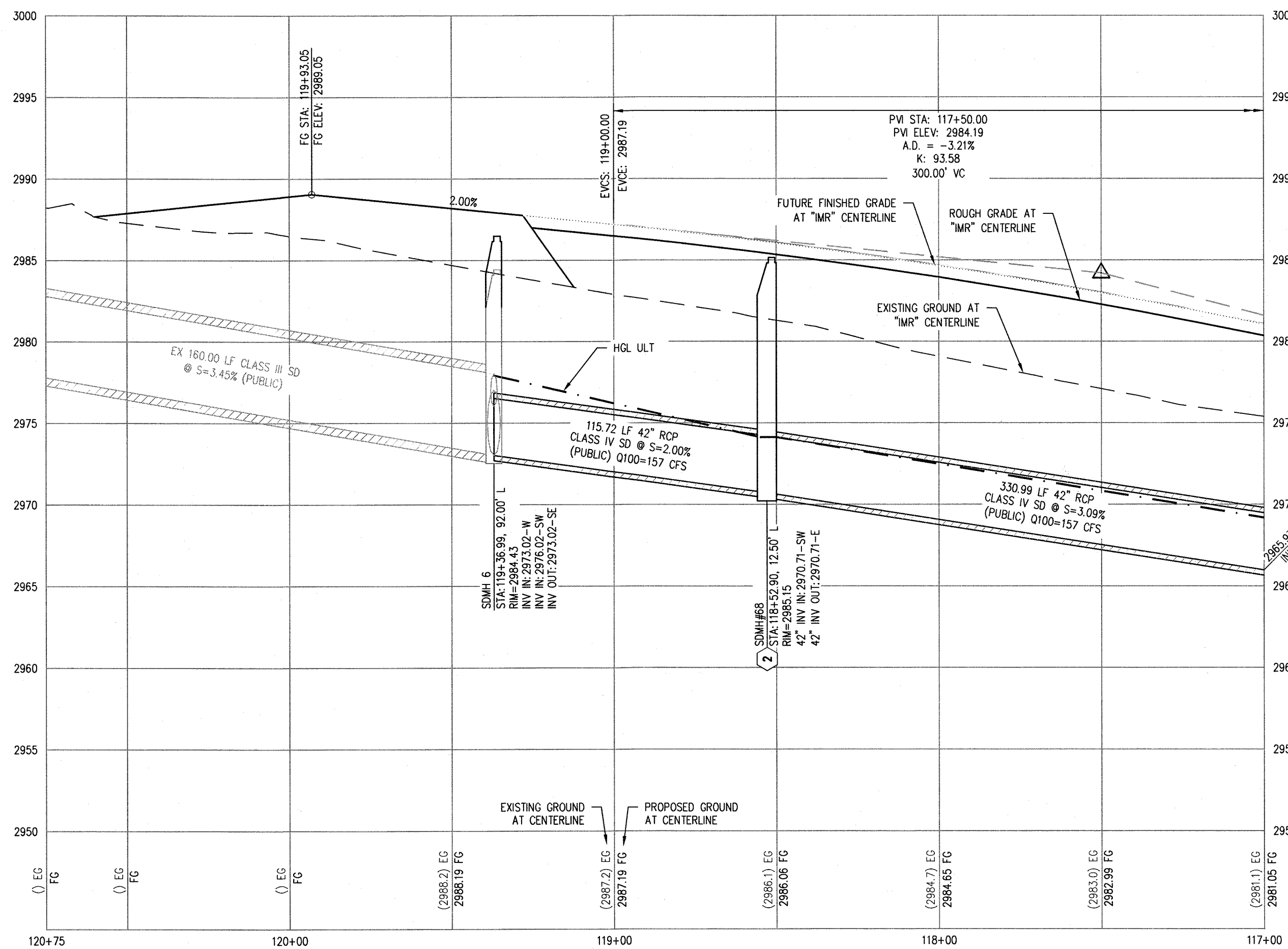
FOR STORM DRAIN IMPROVEMENT REFER TO "SKY CANYON DETENTION BASIN 2" (CLV) FOR CONTINUATION

SEE SHEEP MOUNTAIN PARKWAY FOR IMPROVEMENT (CLV) FOR CONTINUATION

IRON MOUNTAIN RD - PROFILE VIEW

HORIZ: 1" = 30'
VERT: 1" = 6'

0 30' 60'
SCALE: 1"=30 FEET



CONSTRUCTION NOTES

- CONSTRUCT 1" UTACS OVER 4.5" PBS OVER 4" TYPE II AGGREGATE BASE (SEE TY SHEETS)
- CONSTRUCT 1" UTACS OVER 5.5" PBS OVER 6" TYPE II AGGREGATE BASE (SEE TY SHEETS)
- CONSTRUCT "A" TYPE ISLAND CURB (USDCCA STD. DWG. NO. 219)
- CONSTRUCT "L" TYPE CURB AND GUTTER (USDCCA STD. DWG. NO. 216)
- CONSTRUCT SIDEWALK RAMP (CASE II) WITH TACTILE WARNING PANEL (USDCCA STD. DWG. NO. 235 AND DETAIL XX, SHEET XX)
- CONSTRUCT BUS TURN-OUT (USDCCA STD. DWG. NO. 234.1)
- CONSTRUCT CONCRETE SIDEWALK (USDCCA STD. DWG. 234)

STORM DRAIN NOTES

- CONSTRUCT 48" TYPE II-SD MANHOLE (USDCCA STD. DWG. NO. 405.2)
- CONSTRUCT 60" TYPE III MANHOLE (USDCCA STD. DWG. NO. 406.1)
- INSTALL 18" RCP (USDCCA STD. DWG. NO. 503.2)
- INSTALL 24" RCP (USDCCA STD. DWG. NO. 503.2)
- INSTALL 30" RCP (USDCCA STD. DWG. NO. 503.2)
- INSTALL 36" RCP (USDCCA STD. DWG. NO. 503.2)
- INSTALL 42" RCP (USDCCA STD. DWG. NO. 503.2)
- INSTALL 54" RCP (USDCCA STD. DWG. NO. 503.2)
- INSTALL 60" RCP (USDCCA STD. DWG. NO. 503.2)
- INSTALL 72" RCP (USDCCA STD. DWG. NO. 503.2)
- INSTALL 30" RCP END SECTION (NDOT STD. PLAN R-2.3.1)
- INSTALL 36" RCP END SECTION (NDOT STD. PLAN R-2.3.1)
- INSTALL 42" RCP END SECTION (NDOT STD. PLAN R-2.3.1)
- INSTALL 54" RCP END SECTION (NDOT STD. PLAN R-2.3.1)
- CONSTRUCT TYPE "CM2" DROP INLET. SIZE PER PLAN (USDCCA STD. DWG. NO. 412.1 & 421)
- CONSTRUCT TYPE 4 MANHOLE (NDOT STD. PLAN R-4.3.2)
- CONSTRUCT CONCRETE COLLAR (SEE DETAIL 1, DRAWING D-25)
- CONSTRUCT INTERIM BRICK AND MORTAR PLUG PER DETAIL ON DTL-01
- INSTALL 24" RCP END SECTION (NDOT STD. PLAN R-2.3.1)
- INSTALL 54" RCP END SECTION (NDOT STD. PLAN R-2.3.1)
- INSTALL 66" RCP END SECTION (NDOT STD. PLAN R-2.3.1)
- INSTALL INTERIM RCP TEE OUTLET WITH NEENAH FOUNDRY BEEHIVE R-4350 E (SEE DETAILS SHEETS)

NOTES

- ALL RCP SHALL BE CLASS III UNLESS OTHERWISE SHOWN.
- ALL PIPE LENGTHS ARE MEASURED ALONG PIPE CENTERLINE TO CENTER OF MANHOLE OR INSIDE EDGE OF DI OR RCP/ICA.
- ALL DROP INLETS SHALL INCLUDE STORM WATER MANAGEMENT STAMP AND DETAIL PER USDCCA STD. DWG. NO. 421.
- SEE STRUCTURAL PLANS FOR ADDITIONAL STRUCTURAL DETAILS AND CONNECTIONS.
- ALL PIPES ARE PUBLICLY MAINTAINED.
- ADD SPECIAL INSPECTION REQUIRED FOR PIPE SEGMENTS WITH SACRIFICIAL CONCRETE.
- DIMENSIONS ARE TO BE BACK OF CURB, FACE OF CURB, OR FACE OF MEDIAN UNLESS OTHERWISE NOTED.
- SEE TY-SHEETS FOR TYPICAL SECTIONS.
- SEE UT-SHEETS FOR WATER AND SEWER PLAN AND PROFILES.

DROP INLET NOTE

WHERE 10 FEET PARALLEL SEPARATION IS NOT PRACTICABLE:
CAST-IN-PLACE MONOLITHIC POUR WITH WATERSTOP BETWEEN SLAB AND WALLS. BASE, WALLS AND TOP TO BE CONSTRUCTED WITH WATERSTOPS, CENTER BULB, OR FLAT STRIP (VINYLEX, GREENSTREAK PLASTIC PRODUCTS OR APPROVED EQUAL).

LEGEND



STORM DRAIN LATERAL # (SEE LAT SHEETS)

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED TECHNICAL DRAINAGE STUDY DS-XXXX ON FILE AT THE CITY OF LAS VEGAS FOR THE SUBJECT PROJECT
DERICK YORO, P.E. 16396
DATE 2/6/18

FLOOD ZONE

THE PROJECT SITE IS LOCATED WITHIN A FEMA DESIGNATED ZONE "X" (OUTSIDE THE 500-YEAR FLOOD PLAIN) ON THE FLOOD INSURANCE RATE MAP (FIRM) PANEL: 32003C1750E, DATED SEPTEMBER 27, 2002

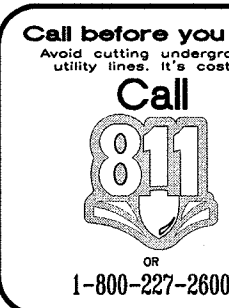
NOTE:

PROPERTY OWNER IS RESPONSIBLE TO MAINTAIN THE BEST MANAGEMENT PRACTICES, SUCH AS BUT NOT LIMITED TO, THE REMOVAL OF ACCUMULATED SEDIMENT AND DEBRIS AND CARE OF VEGETATION.

APPROVED FOR CONSTRUCTION

LVWD ENGINEERING SERVICES MANAGER
PROJECT NO. XXXXX

DATE



SLATER HANIFAN GROUP
CONSULTING ENGINEERS & PLANNERS
5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5300 FAX (702) 284-5399

NINETY-FIVE MANAGEMENT LLC

SKYE CANYON PHASE 3BC
IRON MOUNTAIN ROAD
CONSTRUCTION PLAN - "IM" 117+00 TO "IM" 120+75

DATE: 2/8/18

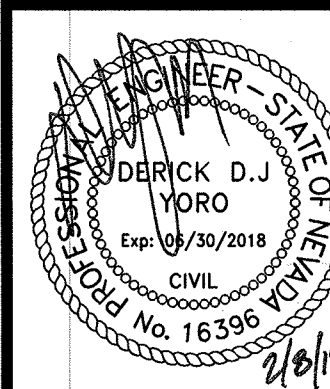
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DESIGNER: HF

CHECKED: DY

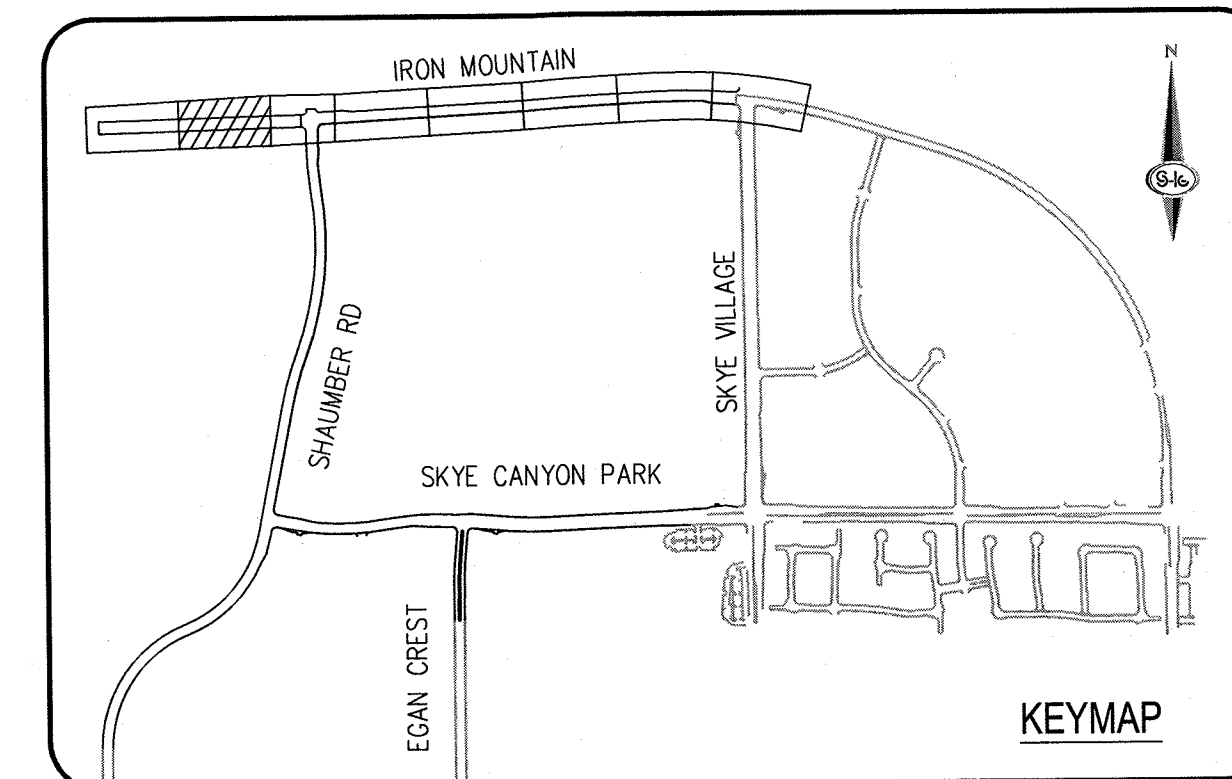
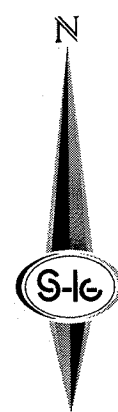
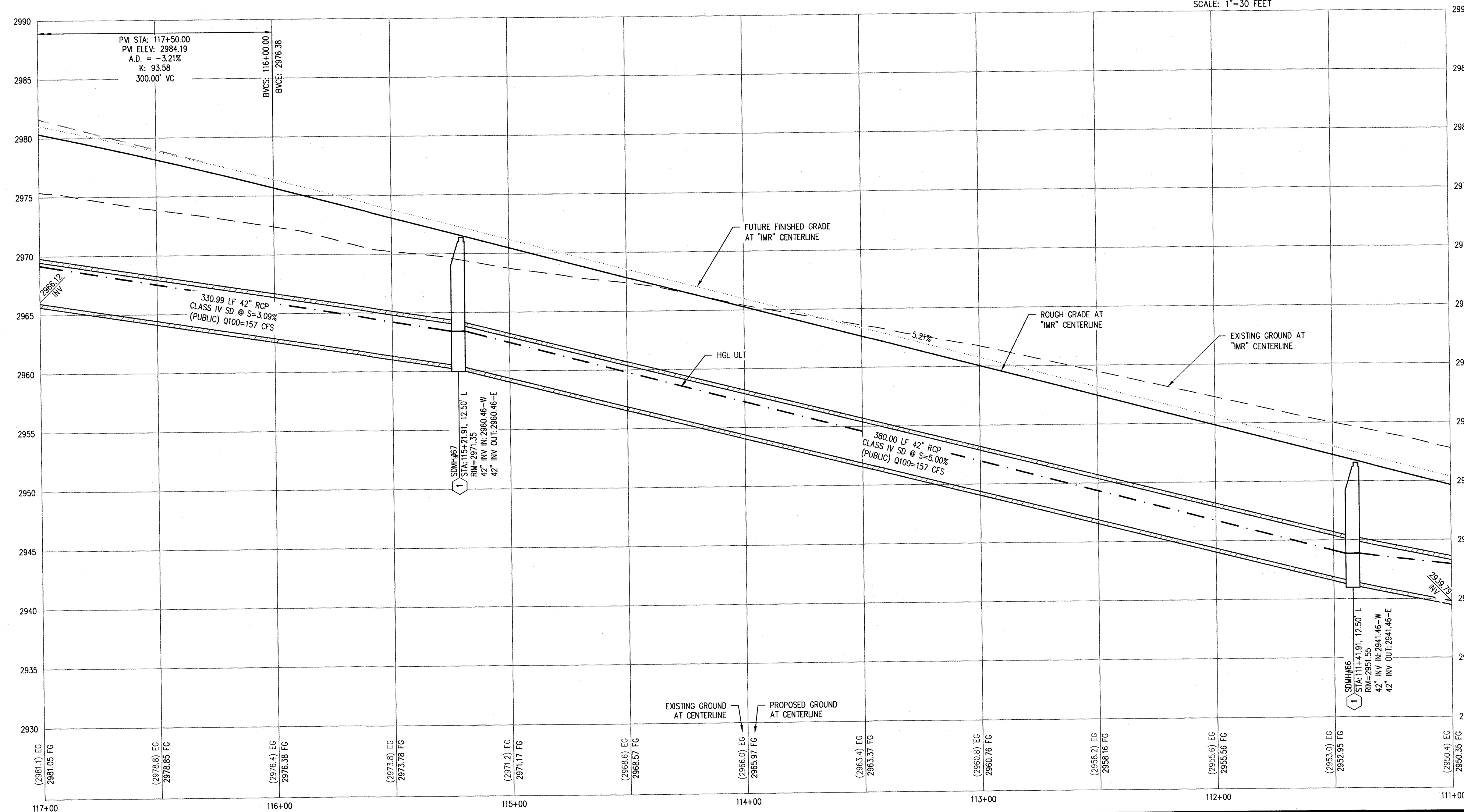
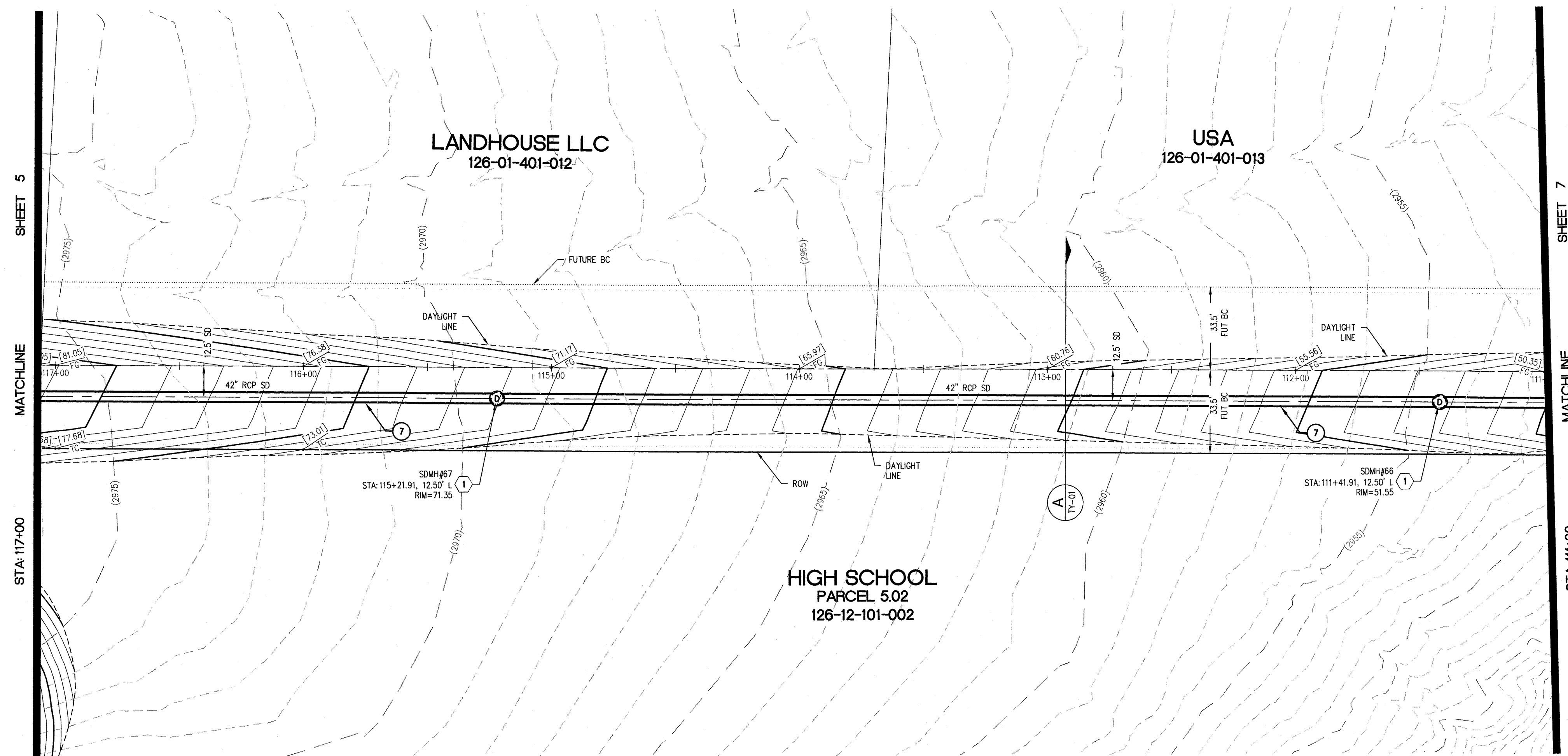
PROJECT NO.

OLY1609-000



PP-01

SHEET 5 OF 15



CONSTRUCTION NOTES

- 1 CONSTRUCT 1" UTACS OVER 4.5" PBS OVER 4" TYPE II AGGREGATE BASE (SEE TY SHEETS)
- 2 CONSTRUCT 1" UTACS OVER 5.5" PBS OVER 6" TYPE II AGGREGATE BASE (SEE TY SHEETS)
- 3 CONSTRUCT "A" TYPE ISLAND CURB (USDCCA STD. DWG. NO. 219)
- 4 CONSTRUCT "L" TYPE CURB AND GUTTER (USDCCA STD. DWG. NO. 216)
- 5 CONSTRUCT SIDEWALK RAMP (CASE II) WITH TACTILE WARNING PANEL (USDCCA STD. DWG. NO. 235 AND DETAIL XX, SHEET XX)
- 6 CONSTRUCT BUS TURN-OUT (USDCCA STD. DWG. NO. 234.1)
- 7 CONSTRUCT CONCRETE SIDEWALK (USDCCA STD. DWG. 234)

STORM DRAIN NOTES

- | | |
|----|--|
| 1 | CONSTRUCT 48" TYPE II-SD MANHOLE (USDOCCA STD. DWG. NO. 405.2) |
| 2 | CONSTRUCT 60" TYPE III MANHOLE (USDOCCA STD. DWG. NO. 406.1) |
| 3 | INSTALL 18" RCP (USDOCCA STD. DWG. NO. 503.2) |
| 4 | INSTALL 24" RCP (USDOCCA STD. DWG. NO. 503.2) |
| 5 | INSTALL 30" RCP (USDOCCA STD. DWG. NO. 503.2) |
| 6 | INSTALL 36" RCP (USDOCCA STD. DWG. NO. 503.2) |
| 7 | INSTALL 42" RCP (USDOCCA STD. DWG. NO. 503.2) |
| 8 | INSTALL 54" RCP (USDOCCA STD. DWG. NO. 503.2) |
| 9 | INSTALL 60" RCP (USDOCCA STD. DWG. NO. 503.2) |
| 10 | INSTALL 72" RCP (USDOCCA STD. DWG. NO. 503.2) |
| 11 | INSTALL 30" RCP END SECTION (NDOT STD. PLAN R-2.3.1) |
| 12 | INSTALL 36" RCP END SECTION (NDOT STD. PLAN R-2.3.1) |
| 13 | INSTALL 42" RCP END SECTION (NDOT STD. PLAN R-2.3.1) |
| 14 | INSTALL 72" RCP END SECTION (NDOT STD. PLAN R-2.3.1) |
| 15 | CONSTRUCT TYPE "CM2" DROP INLET, SIZE PER PLAN (USDOCCA STD. DWG. NO. 412.1 & 421) |
| 16 | CONSTRUCT TYPE 4 MANHOLE (NDOT STD. PLAN R-4.3.2) |
| 17 | CONSTRUCT CONCRETE COLLAR (SEE DETAIL 1, DRAWING D-25) |
| 18 | CONSTRUCT INTERIM BRICK AND MORTAR PLUG PER DETAIL ON DTL-01 |
| 19 | INSTALL 24" RCP END SECTION (NDOT STD. PLAN R-2.3.1) |
| 20 | INSTALL 54" RCP END SECTION (NDOT STD. PLAN R-2.3.1) |
| 21 | INSTALL 66" RCP END SECTION (NDOT STD. PLAN R-2.3.1) |
| 22 | INSTALL INTERIM RCP TEE OUTLET WITH NEEHAN FOUNDRY BEEHIVE R-4350 E (SEE DETAILS SHEETS) |

NOTES

1. ALL RCP SHALL BE CLASS III UNLESS OTHERWISE SHOWN.
2. ALL PIPE LENGTHS ARE MEASURED ALONG PIPE CENTERLINE TO CENTER OF MANHOLE OR INSIDE EDGE OF DIT OR RCB/RCA.
3. ALL PIPE INLETS SHALL INCLUDE STORM WATER MANAGEMENT STAMP AND DETAIL PER USDOCA STD. DWG. NO. 421.
4. SEE STRUCTURAL PLANS FOR ADDITIONAL STRUCTURAL DETAILS AND CONNECTIONS.
5. ALL PIPE ARE PUBLICLY MAINTAINED.
6. AND SPECIAL INSPECTION REQUIRED FOR PIPE SEGMENTS WITH SACRIFICIAL CONCRETE.
7. DIMENSIONS ARE TO BE BACK OF CURB, FACE OF CURB, OR FACE OF MEDIAN UNLESS OTHERWISE NOTED.
8. SEE T-SHEETS FOR TYPICAL SECTIONS.
9. SEE UT-SHEETS FOR WATER AND SEWER PLAN AND PROFILES.

DROP INLET NOTE

WHERE 10 FEET PARALLEL SEPARATION IS NOT PRACTICABLE:

CAST-IN-PLACE MONOLITHIC POUR WITH WATERSTOP BETWEEN SLAB AND WALLS. BASE, WALLS AND TOP TO BE CONSTRUCTED WITH WATERSTOPS, CENTER BULB,
OR FLAT STRIP (VINYLEX, GREENSTREAK PLASTIC PRODUCTS OR APPROVED EQUAL).

LEGEND



STORM DRAIN LATERAL # (SEE LAT SHEETS)

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED TECHNICAL DRAINAGE STUDY DS-XXXX ON FILE AT THE CITY OF LAS VEGAS FOR THE SUBJECT PROJECT

 2/8/14

DERICK YORK, P.E. 16396 DATE

FLOOD ZONE

THE PROJECT SITE IS LOCATED WITHIN A FEMA DESIGNATED ZONE 'X' (OUTSIDE THE 500-YEAR FLOOD PLAIN) ON THE FLOOD INSURANCE RATE MAP (FIRM) PANEL: 32003C1750E, DATED SEPTEMBER 27, 2002

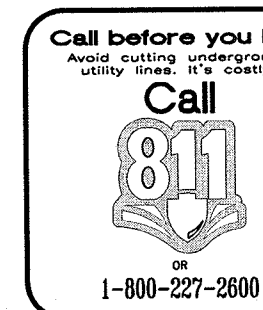
NOTE:

PROPERTY OWNER IS RESPONSIBLE TO MAINTAIN THE BEST MANAGEMENT PRACTICES, SUCH AS BUT NOT LIMITED TO THE REMOVAL OF ACCUMULATED SEDIMENT AND DEBRIS AND CARE OF VEGETATION.

APPROVED FOR CONSTRUCTION

LVVWD ENGINEERING SERVICES MANAGER
PROJECT NO. XXXXX

DATE _____



S-I-G
SLATER HANIFAN GROUP
CONSULTING ENGINEERS & PLANNERS
57540 S. ARVILLE STREET #716, LAS VEGAS, NV 89118
PHONE (702) 284-5300
FAX (702) 284-5399

NINETY-FIVE MANAGEMENT LLC

SKYE CANYON PHASE 3BC
IRON MOUNTAIN ROAD
CONSTRUCTION PLAN - "IM" 111+00 TO "IM" 117+00

DATE: 2/8/18

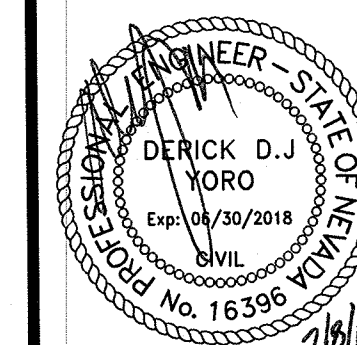
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DESIGNER: HF

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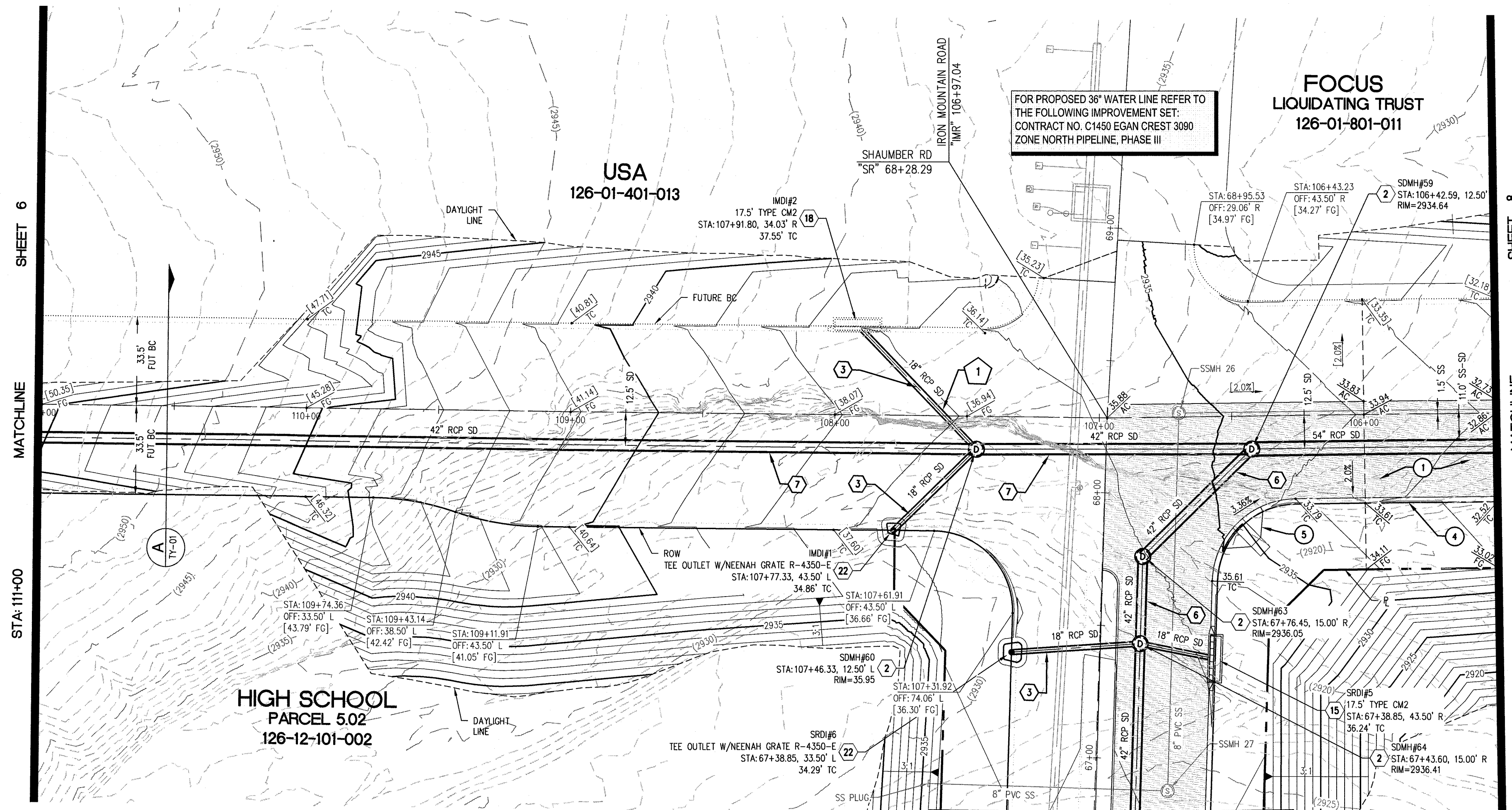
PROJECT NO.

OLY1609-000



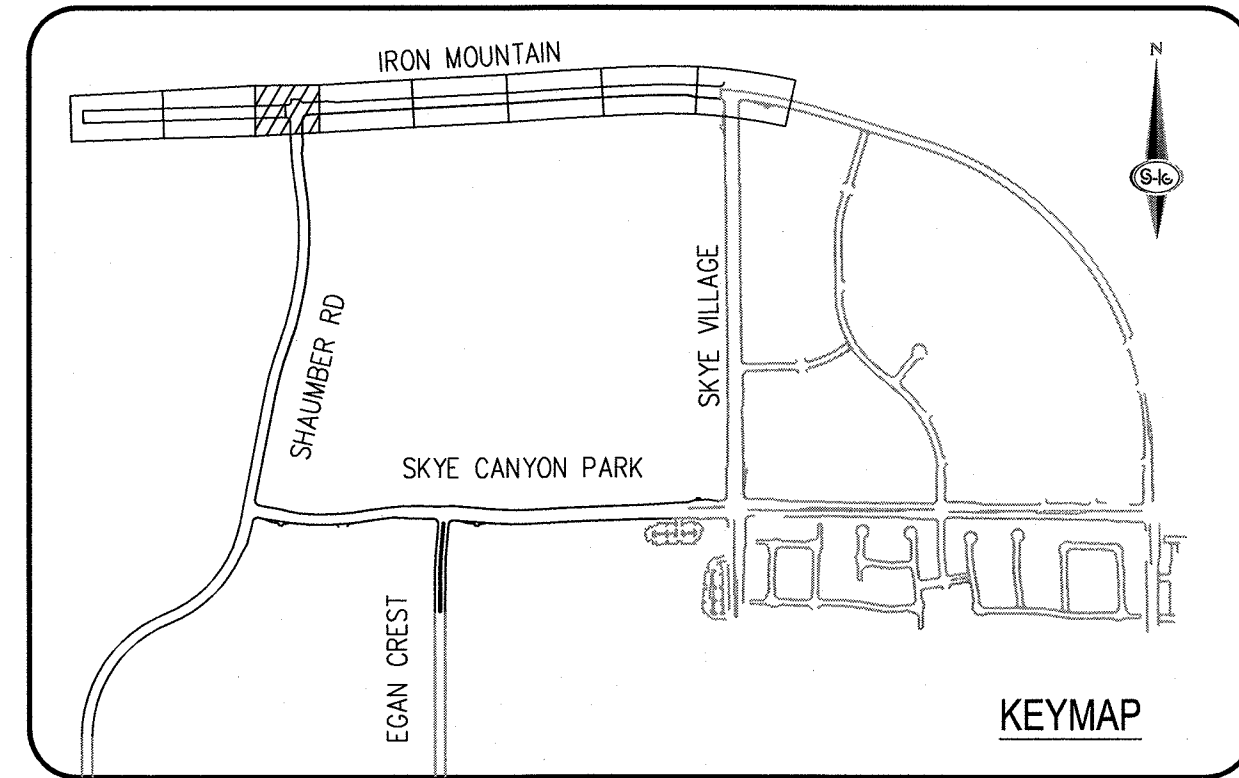
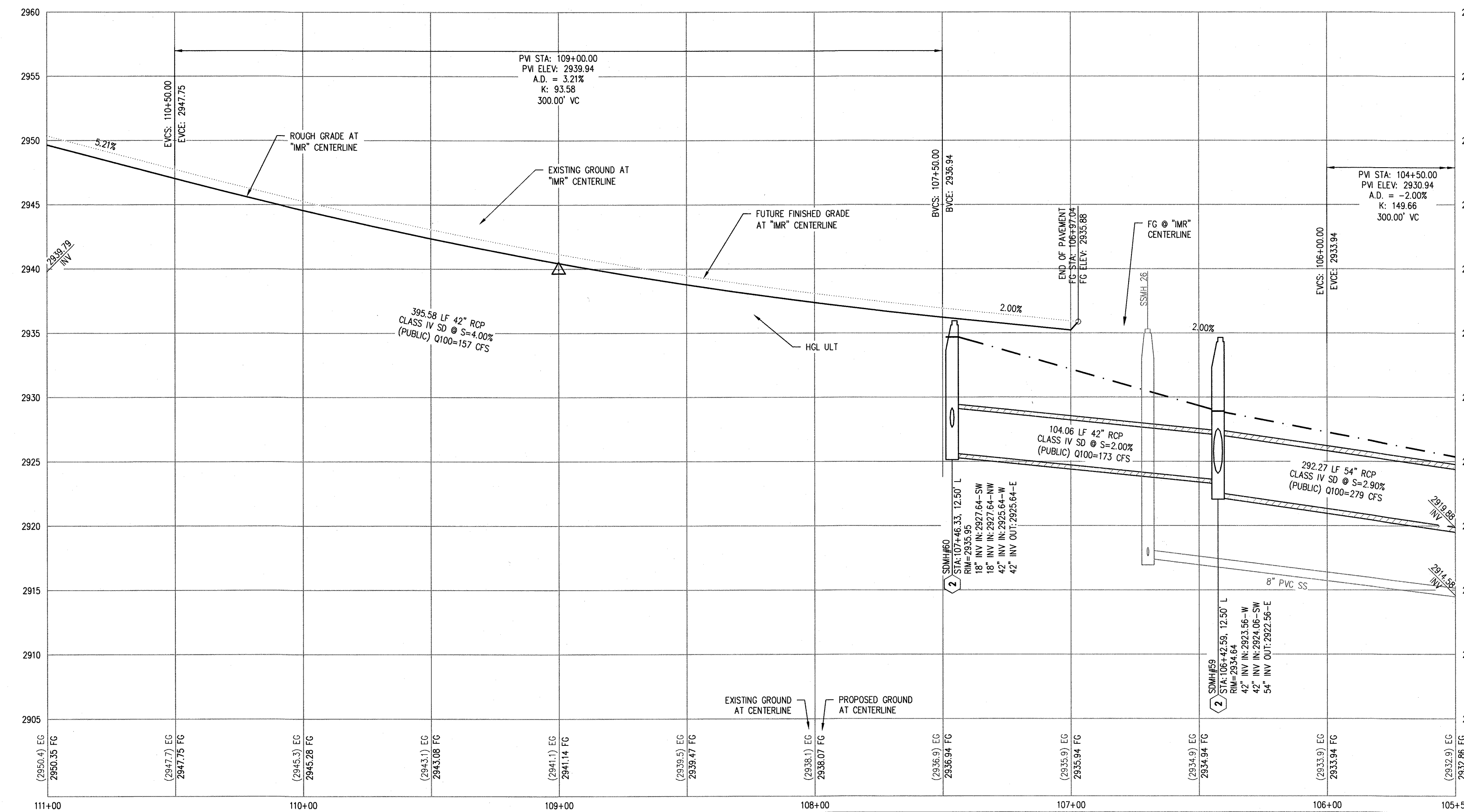
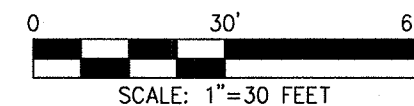
PP-02

SHEET 6 OF 15



IRON MOUNTAIN RD - PROFILE VIEW

HORIZ: 1" = 30'
VERT: 1" = 6'



CONSTRUCTION NOTES

1. CONSTRUCT 1" UTACS OVER 4.5" PBS OVER 4" TYPE II AGGREGATE BASE (SEE TY SHEETS)
2. CONSTRUCT 1" UTACS OVER 5.5" PBS OVER 6" TYPE II AGGREGATE BASE (SEE TY SHEETS)
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5. CONSTRUCT SIDEWALK RAMP (CASE II) WITH TACTILE WARNING PANEL (USDCCA STD. DWG. NO. 235 AND DETAIL XX, SHEET XX)
6. CONSTRUCT BUS TURN-OUT (USDCCA STD. DWG. NO. 234.1)
7. CONSTRUCT CONCRETE SIDEWALK (USDCCA STD. DWG. 234)

STORM DRAIN NOTES

1. CONSTRUCT 48" TYPE II-SD MANHOLE (USDCCA STD. DWG. NO. 405.2)
2. CONSTRUCT 60" TYPE III MANHOLE (USDCCA STD. DWG. NO. 406.1)
3. INSTALL 18" RCP (USDCCA STD. DWG. NO. 503.2)
4. INSTALL 24" RCP (USDCCA STD. DWG. NO. 503.2)
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15. CONSTRUCT TYPE "CM2" DROP INLET. SIZE PER PLAN (USDCCA STD. DWG. NO. 412.1 & 421)
16. CONSTRUCT TYPE 4 MANHOLE (NDOT STD. PLAN R-4.3.2)
17. CONSTRUCT CONCRETE COLLAR (SEE DETAIL 1, DRAWING D-25)
18. CONSTRUCT INTERM BRICK AND MORTAR PLUG PER DETAIL ON DTL-01
19. INSTALL 24" RCP END SECTION (NDOT STD. PLAN R-2.3.1)
20. INSTALL 54" RCP END SECTION (NDOT STD. PLAN R-2.3.1)
21. INSTALL 66" RCP END SECTION (NDOT STD. PLAN R-2.3.1)
22. INSTALL INTERM RCP TEE OUTLET WITH NEENAH FOUNDRY BEEHIVE R-4350 E (SEE DETAILS SHEETS)

NOTES

1. ALL RCP SHALL BE CLASS III UNLESS OTHERWISE SHOWN.
2. ALL PIPE LENGTHS ARE MEASURED ALONG PIPE CENTERLINE TO CENTER OF MANHOLE OR INSIDE EDGE OF DI OR RCB/RCA.
3. ALL DROP INLETS SHALL INCLUDE STORM WATER MANAGEMENT STAMP AND DETAIL PER USDCCA STD. DWG. NO. 421.
4. SEE STRUCTURAL PLANS FOR ADDITIONAL STRUCTURAL DETAILS AND CONNECTIONS.
5. ALL PIPES ARE PUBLICLY MAINTAINED.
6. ADD SPECIAL INSPECTION REQUIRED FOR PIPE SEGMENTS WITH SACRIFICIAL CONCRETE.
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8. SEE TY-SHEETS FOR TYPICAL SECTIONS.
9. SEE UT-SHEETS FOR WATER AND SEWER PLAN AND PROFILES.

DROP INLET NOTE

WHERE 10 FEET PARALLEL SEPARATION IS NOT PRACTICABLE, CAST-IN-PLACE MONOLITHIC POUR WITH WATERSTOP BETWEEN SLAB AND WALLS, BASE, WALLS AND TOP TO BE CONSTRUCTED WITH WATERSTOPS, CENTER BULB, OR FLAT STRIP (VINYLEX, GREENSTREAK PLASTIC PRODUCTS OR APPROVED EQUAL).

LEGEND

X STORM DRAIN LATERAL # (SEE LAT SHEETS)

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED TECHNICAL DRAINAGE STUDY DS-XXXX ON FILE AT THE CITY OF LAS VEGAS FOR THE SUBJECT PROJECT.

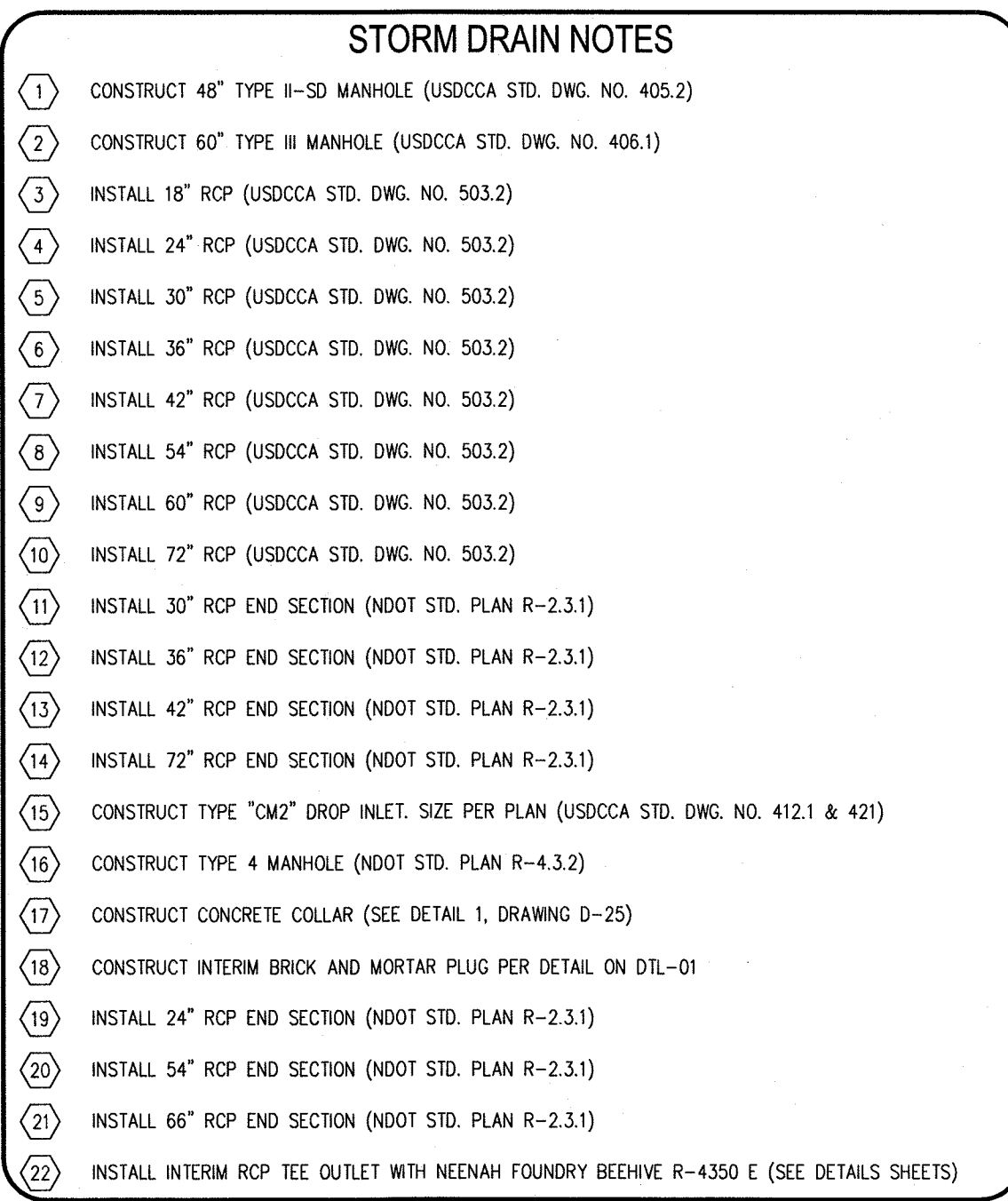
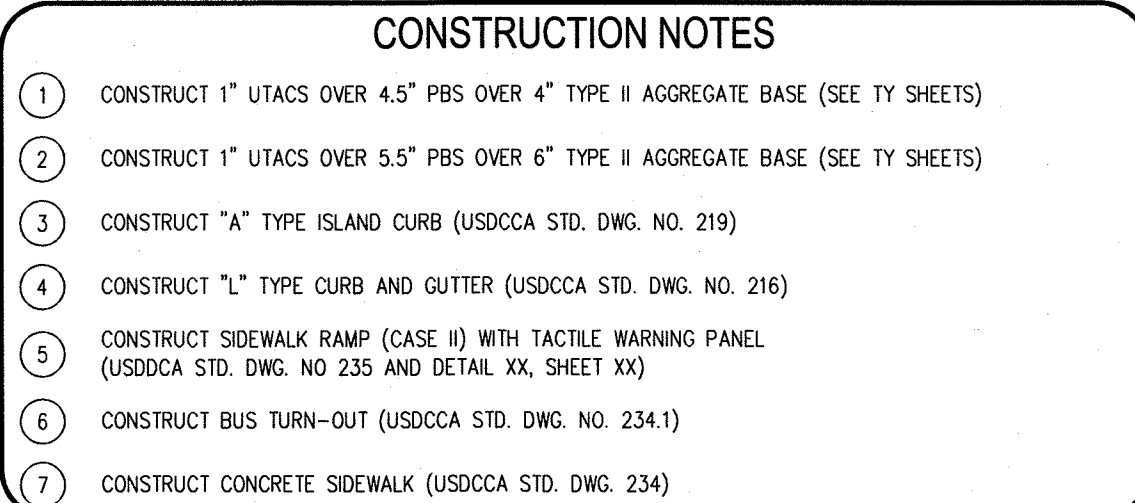
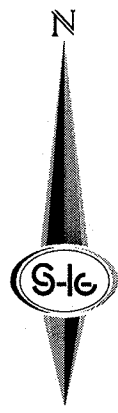
NOTE: PROPERTY OWNER IS RESPONSIBLE TO MAINTAIN THE BEST MANAGEMENT PRACTICES, SUCH AS BUT NOT LIMITED TO, THE REMOVAL OF ACCUMULATED SEDIMENT AND DEBRIS AND CARE OF VEGETATION.

APPROVED FOR CONSTRUCTION

LIVVMD ENGINEERING SERVICES MANAGER
PROJECT NO. XXXXX

DATE





NOTES

1. ALL RCP SHALL BE CLASS III UNLESS OTHERWISE SHOWN.
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OR FLAT STRIP (VINYLEX, GREENSTREAK PLASTIC PRODUCTS OR APPROVED EQUAL).

LEGEND

 STORM DRAIN LATERAL # (SEE LAT SHEETS)

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED TECHNICAL DRAWING(S) 05-XXXX FILED AT THE CITY OF LOS ANGELES FOR THE SUBJECT PROJECT.

1/8/18

FLOOD ZONE

THE PROJECT SITE IS LOCATED WITHIN A FEMA DESIGNATED ZONE "X" (OUTSIDE THE 500-YEAR FLOOD PLAIN) ON THE FLOOD INSURANCE RATE MAP (FIRM) PANEL: 3200C31750E, DATED SEPTEMBER 27, 2002

NOTE:
PROPERTY OWNER IS RESPONSIBLE TO MAINTAIN THE BEST MANAGEMENT PRACTICES, SUCH AS BUT NOT LIMITED TO, THE REMOVAL OF ACCUMULATED SEDIMENT AND DEBRIS AND CARE OF VEGETATION.

APPROVED FOR CONSTRUCTION

LYVMD ENGINEERING SERVICES MANAGER _____ DATE _____

PROJECT NO. XXXXXX

FAST



**Call before you dig
UnderGround.**

1-702-227-2929

FREEDAY AND AFTERNOON
SERVICE OF RECONSTRUCTION

Call before you Dig
We'll find the lines so you can
dig safely. It's easy.

Call

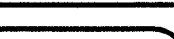


OR

1-800-227-2600

AVOID HITTING OVERHEAD
POWER LINES. IT'S DANGEROUS.

**CALL BEFORE
YOU DO
OVERHEAD**



S-I-G **SLATER HANIFAN GROUP**
CONSULTING ENGINEERS & PLANNERS
5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 264-5300 FAX (702) 264-5399

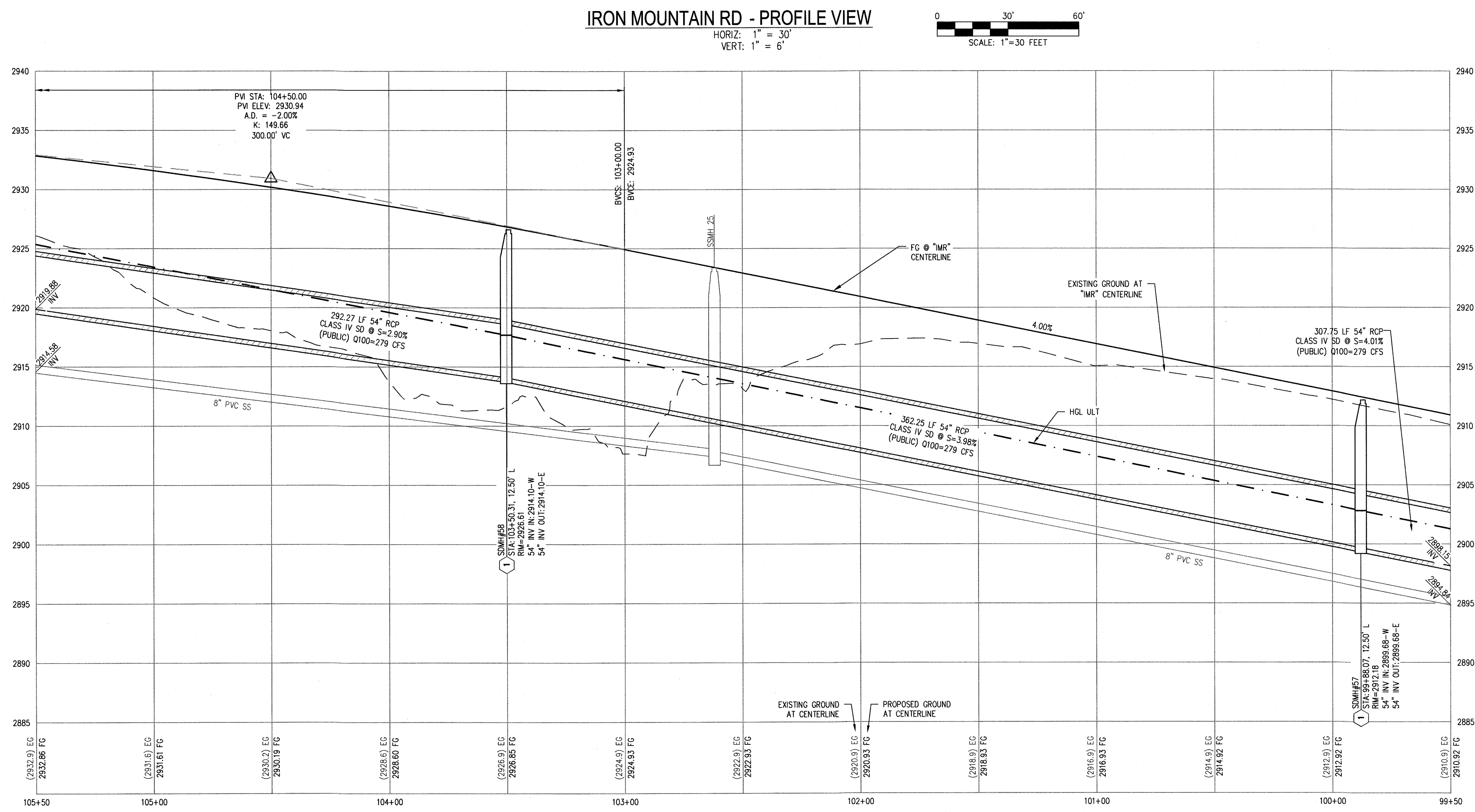
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NINETY-FIVE MANAGEMENT LLC

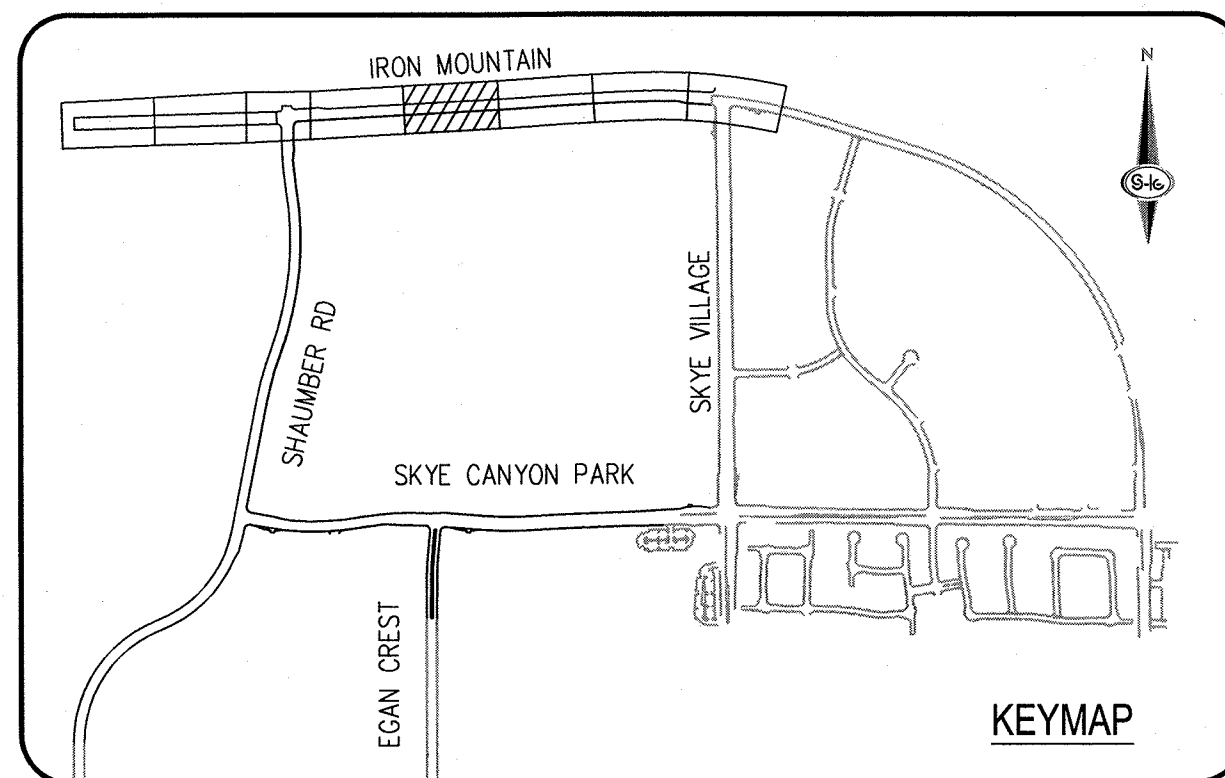
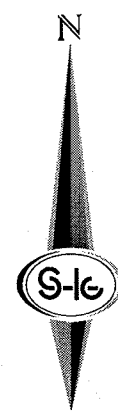
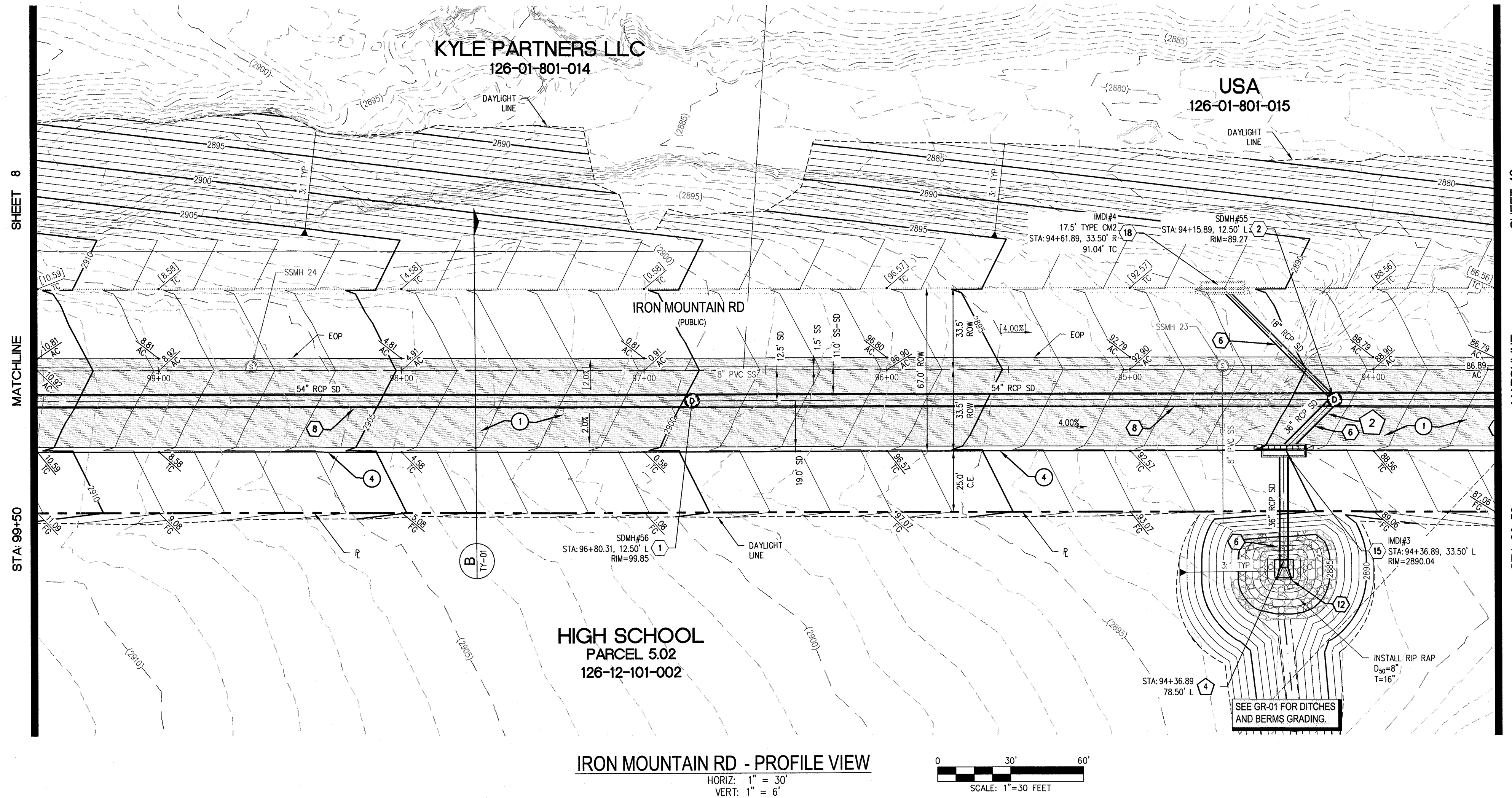
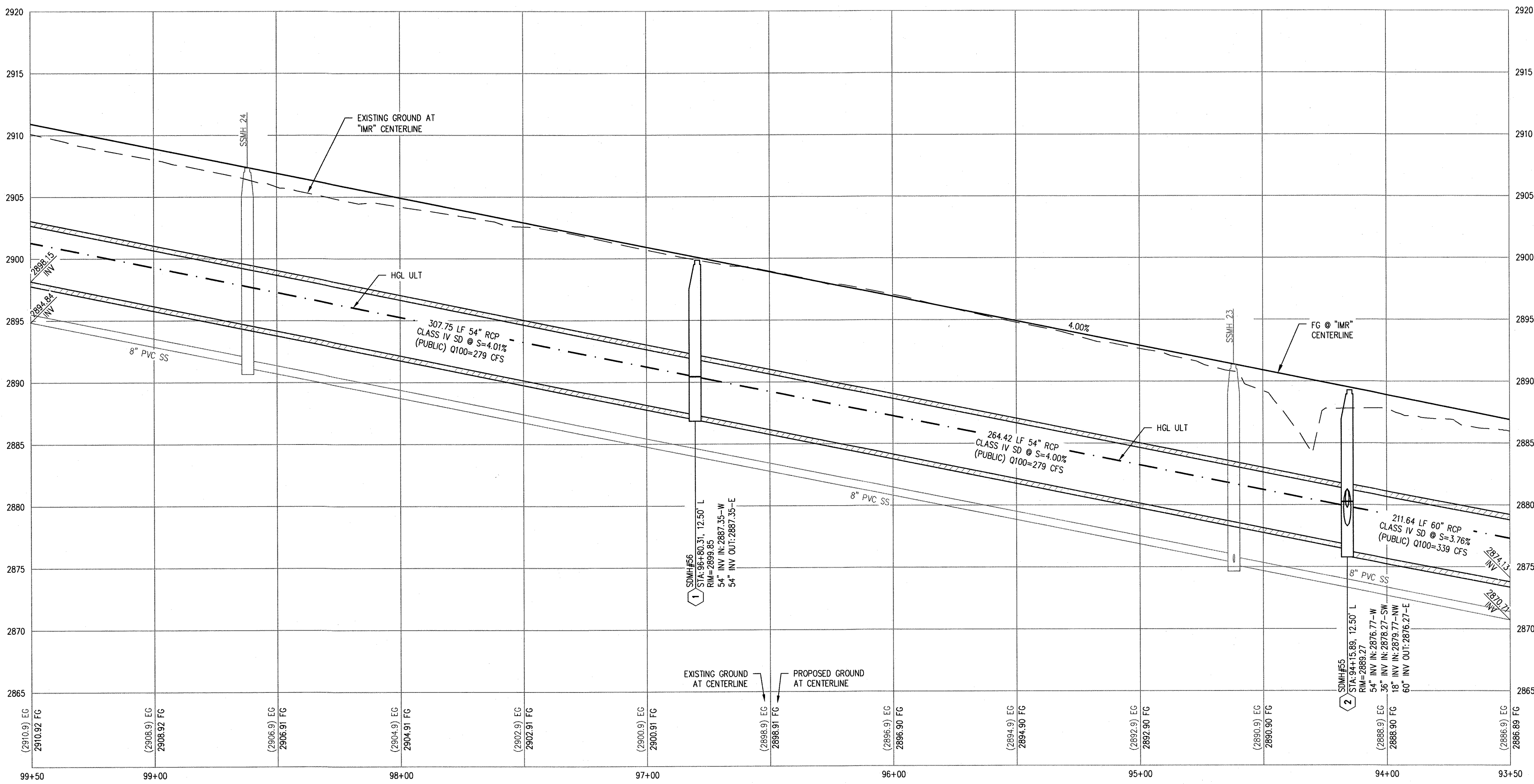
**SKYE CANYON PHASE 3BC
IRON MOUNTAIN ROAD
CONSTRUCTION PLAN - "IM" 99+50 TO "IM" 105+50**

DATE: 2/8/18
DRAFTER: HF
DESIGNER: HF
CHECKED: DY
PROJECT NO.
OLY1609-000


PP-04
SHEET 8 OF 15



J:\10-1609-000-SKYE CANYON PHASE 3B-3\DWG\MISC\3B-C\10-1609-000-PP-IM-NG-278.DWG, 2/8/2018 11:18 AM, User: Cady



- ### CONSTRUCTION NOTES
- CONSTRUCT 1" UTACS OVER 4.5" PBS OVER 4" TYPE II AGGREGATE BASE (SEE TY SHEETS)
 - CONSTRUCT 1" UTACS OVER 5.5" PBS OVER 6" TYPE II AGGREGATE BASE (SEE TY SHEETS)
 - CONSTRUCT "A" TYPE ISLAND CURB (USDCCA STD. DWG. NO. 219)
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- ### STORM DRAIN NOTES
- CONSTRUCT 48" TYPE II-SD MANHOLE (USDCCA STD. DWG. NO. 405.2)
 - CONSTRUCT 60" TYPE III MANHOLE (USDCCA STD. DWG. NO. 406.1)
 - INSTALL 18" RCP (USDCCA STD. DWG. NO. 503.2)
 - INSTALL 24" RCP (USDCCA STD. DWG. NO. 503.2)
 - INSTALL 30" RCP (USDCCA STD. DWG. NO. 503.2)
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 - INSTALL 42" RCP (USDCCA STD. DWG. NO. 503.2)
 - INSTALL 54" RCP (USDCCA STD. DWG. NO. 503.2)
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 - INSTALL 72" RCP END SECTION (NDOT STD. PLAN R-2.3.1)
 - CONSTRUCT TYPE "CM2" DROP INLET. SIZE PER PLAN (USDCCA STD. DWG. NO. 412.1 & 421)
 - CONSTRUCT TYPE 4 MANHOLE (NDOT STD. PLAN R-4.3.2)
 - CONSTRUCT CONCRETE COLLAR (SEE DETAIL 1, DRAWING D-25)
 - CONSTRUCT INTERIM BRICK AND MORTAR PLUG PER DETAIL ON DTL-01
 - INSTALL 24" RCP END SECTION (NDOT STD. PLAN R-2.3.1)
 - INSTALL 54" RCP END SECTION (NDOT STD. PLAN R-2.3.1)
 - INSTALL 66" RCP END SECTION (NDOT STD. PLAN R-2.3.1)
 - INSTALL INTERIM RCP TEE OUTLET WITH NEENAH FOUNDRY BEEHIVE R-4350 E (SEE DETAILS SHEETS)

- ### NOTES
- ALL RCP SHALL BE CLASS III UNLESS OTHERWISE SHOWN.
 - ALL PIPE LENGTHS ARE MEASURED ALONG PIPE CENTERLINE TO CENTER OF MANHOLE OR INSIDE EDGE OF DI OR RCP/RCA.
 - ALL DROP INLETS SHALL INCLUDE STORM WATER MANAGEMENT STAMP AND DETAIL PER USDCCA STD. DWG. NO. 421.
 - SEE STRUCTURAL PLANS FOR ADDITIONAL STRUCTURAL DETAILS AND CONNECTIONS.
 - ALL PIPES ARE PUBLICLY MAINTAINED.
 - ADD SPECIAL INSPECTION REQUIRED FOR PIPE SEGMENTS WITH SACRIFICIAL CONCRETE.
 - DIMENSIONS ARE TO BE BACK OF CURB, FACE OF CURB, OR FACE OF MEDIAN UNLESS OTHERWISE NOTED.
 - SEE TY-SHEETS FOR TYPICAL SECTIONS.
 - SEE UT-SHEETS FOR WATER AND SEWER PLAN AND PROFILES.

DROP INLET NOTE

WHERE 10 FEET PARALLEL SEPARATION IS NOT PRACTICABLE, CAST-IN-PLACE MONOLITHIC POUR WITH WATERSTOP BETWEEN SLAB AND WALLS. BASE, WALLS AND TOP TO BE CONSTRUCTED WITH WATERSTOPS, CENTER BULB, OR FLAT STRIP (VINYLEX, GREENSTREAK PLASTIC PRODUCTS OR APPROVED EQUAL).

LEGEND

5 STORM DRAIN LATERAL # (SEE LAT SHEETS)

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED TECHNICAL DRAINAGE STUDY DS-XXXX ON FILE AT THE CITY OF LAS VEGAS FOR THE SUBJECT PROJECT.

DERICK YORO, P.E. 16396 DATE 2/8/18

FLOOD ZONE

THE PROJECT SITE IS LOCATED WITHIN A FEMA DESIGNATED ZONE "X" (OUTSIDE THE 500-YEAR FLOOD PLAIN) ON THE FLOOD INSURANCE RATE MAP (FIRM) PANEL: 32003C1750E, DATED SEPTEMBER 27, 2002.

NOTE: PROPERTY OWNER IS RESPONSIBLE TO MAINTAIN THE BEST MANAGEMENT PRACTICES, SUCH AS BUT NOT LIMITED TO, THE REMOVAL OF ACCUMULATED SEDIMENT AND DEBRIS AND CARE OF VEGETATION.

APPROVED FOR CONSTRUCTION

LVVMD ENGINEERING SERVICES MANAGER DATE
PROJECT NO. XXXXX

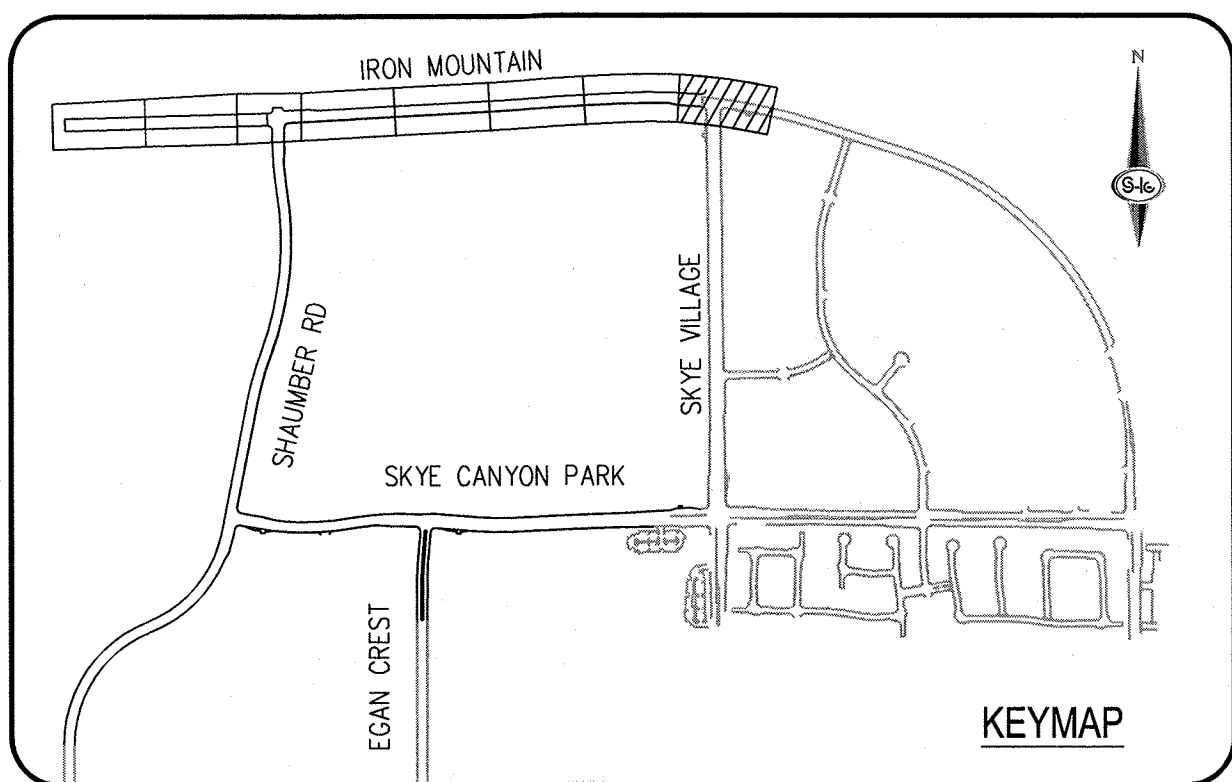


SLATER HANIFAN GROUP
CONSULTING ENGINEERS & PLANNERS
5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5300 FAX (702) 284-5399

**SKYE CANYON PHASE 3B
IRON MOUNTAIN ROAD
CONSTRUCTION PLAN - "IM" 93+50 TO "IM" 99+50**

DATE: 2/8/18
DRAFTER: HF
DESIGNER: HF
CHECKED: DY
PROJECT NO.
OLY1609-000

PP-05
SHEET 9 OF 15



- 1 CONSTRUCT 1" UTACS OVER 4.5" PBS OVER 4" TYPE II AGGREGATE BASE (SEE TY SHEETS)
- 2 CONSTRUCT 1" UTACS OVER 5.5" PBS OVER 6" TYPE II AGGREGATE BASE (SEE TY SHEETS)
- 3 CONSTRUCT "A" TYPE ISLAND CURB (USDOCA STD. DWG. NO. 219)
- 4 CONSTRUCT "L" TYPE CURB AND GUTTER (USDOCA STD. DWG. NO. 216)
- 5 CONSTRUCT SIDEWALK RAMP (CASE II) WITH TACTILE WARNING PANEL (USDOCA STD. DWG. NO. 235 AND DETAIL XX, SHEET XX)
- 6 CONSTRUCT BUS TURN-OUT (USDOCA STD. DWG. NO. 234.1)
- 7 CONSTRUCT CONCRETE SIDEWALK (USDOCA STD. DWG. 234)

1	CONSTRUCT 48" TYPE II-SD MANHOLE (USDOCCA STD. DWG. NO. 405.2)
2	CONSTRUCT 60" TYPE III MANHOLE (USDOCCA STD. DWG. NO. 406.1)
3	INSTALL 18" RCP (USDOCCA STD. DWG. NO. 503.2)
4	INSTALL 24" RCP (USDOCCA STD. DWG. NO. 503.2)
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9	INSTALL 60" RCP (USDOCCA STD. DWG. NO. 503.2)
10	INSTALL 72" RCP (USDOCCA STD. DWG. NO. 503.2)
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12	INSTALL 36" RCP END SECTION (NDOT STD. PLAN R-2.3.1)
13	INSTALL 42" RCP END SECTION (NDOT STD. PLAN R-2.3.1)
14	INSTALL 72" RCP END SECTION (NDOT STD. PLAN R-2.3.1)
15	CONSTRUCT TYPE "CMZ" DROP INLET. SIZE PER PLAN (USDOCCA STD. DWG. NO. 412.1 & 421)
16	CONSTRUCT TYPE 4 MANHOLE (NDOT STD. PLAN R-4.3.2)
17	CONSTRUCT CONCRETE COLLAR (SEE DETAIL 1, DRAWING D-25)
18	CONSTRUCT INTERIM BRICK AND MORTAR PLUG PER DETAIL ON DTL-01
19	INSTALL 24" RCP END SECTION (NDOT STD. PLAN R-2.3.1)
20	INSTALL 54" RCP END SECTION (NDOT STD. PLAN R-2.3.1)
21	INSTALL 60" RCP END SECTION (NDOT STD. PLAN R-2.3.1)
22	INSTALL INTERIM RCP TEE OUTLET WITH NEEHAH FOUNDRY BEEHIVE R-4350 E (SEE DETAILS

1. ALL ROP SHALL BE CLASS III UNLESS OTHERWISE SHOWN.
2. ALL PIPE LENGTHS ARE MEASURED ALONG PIPE CENTERLINE TO CENTER OF MANHOLE OR INSIDE EDGE OF DI OR RCB/RCA.
3. ALL DROP INLETS SHALL INCLUDE STORM WATER MANAGEMENT STAMP AND DETAIL PER USDOCA STD. DWG. NO. 421.
4. SEE STRUCTURAL PLANS FOR ADDITIONAL STRUCTURAL DETAILS AND CONNECTIONS.
5. ALL PIPES ARE PUBLICLY MAINTAINED.
6. ADD SPECIAL INSPECTION REQUIRED FOR PIPE SEGMENTS WITH SACRIFICIAL CONCRETE.
7. DIMENSIONS ARE TO BE BACK OF CURB, FACE OF CURB, OR FACE OF MEDIAN UNLESS OTHERWISE NOTED.
8. SEE T-Y-SHEETS FOR TYPICAL SECTIONS.
9. SEE U-T-SHEETS FOR WATER AND SEWER PLAN AND PROFILES.

WHERE 10 FEET PARALLEL SEPARATION IS NOT PRACTICABLE:
CAST-IN-PLACE MONOLITHIC POUR WITH WATERSTOP BETWEEN SLAB AND WALLS. BASE, WALLS AND TOP
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OR FLAT STRIP (VINYLEX, GREENSTREAK, PLASTIC PRODUCTS OR APPROVED EQUAL).

 STORM DRAIN LATERAL # (SEE LAT SHEETS)

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED TECHNICAL DRAINAGE STUDY DS-XXXX ON FILE AT THE CITY OF LAS VEGAS FOR THE SUBJECT PROJECT

[Signature] 2/8/19

OFFICE OF THE CITY ENGINEER 16396 DISTRICT

THE PROJECT SITE IS LOCATED WITHIN A FEMA DESIGNATED ZONE 'X' (OUTSIDE THE 500-YEAR FLOOD PLAIN) ON THE FLOOD INSURANCE RATE MAP (FIRM) PANEL: 32003C1750E, DATED SEPTEMBER 27, 2002

LVVWD ENGINEERING SERVICES MANAGER
PROJECT NO. XXXXX



FAST
Call before you UnderGround.
1-702-432-5300
FREEWAY AND ARTERIAL
SYSTEM OF TRANSPORTATION

Call before you
Avoid cutting underground
utility lines. It's cost
Call

OR
1-800-227-2600

S-I-G **SLATER**
HANIFAN
GROUP
CONSULTING ENGINEERS & PLANNERS
5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5300 FAX (702) 284-5399

[illegible]

NINETY-FIVE MANAGEMENT LLC
SKYE CANYON PHASE 3BC
IRON MOUNTAIN ROAD
CONSTRUCTION PLAN - "IM" 75+50 TO "IN"

DATE: 2/8/18

DRAFT. THE

DESIGNER: HF

CHECKED: D

PROJECT N°

OLY1609-000

[Signature]

ENGINEER -

STAN

DERICK D.J

YORO

Exp: 06/30/2018

PROV. CIVIL 986

No. 16390

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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DD-08

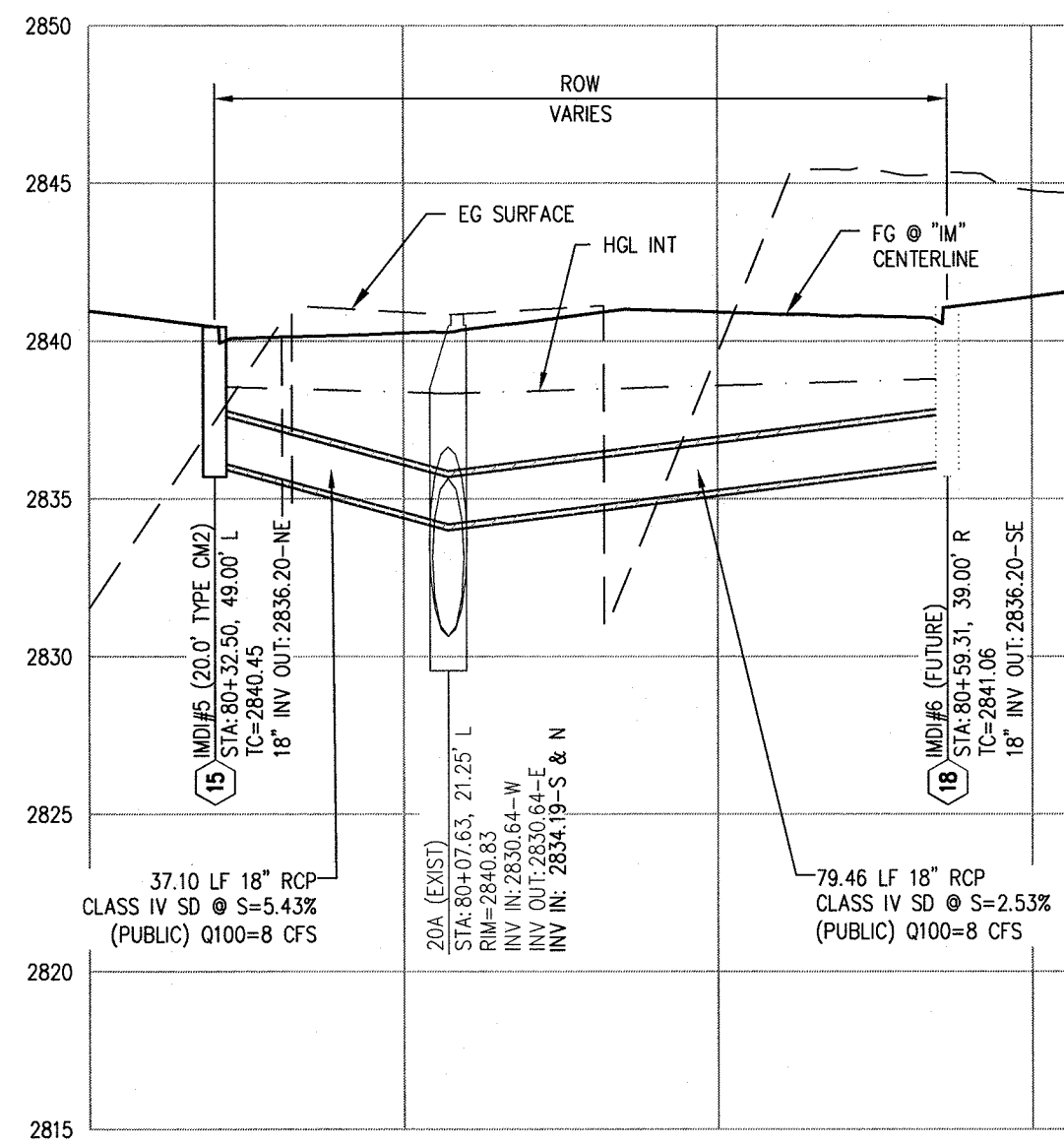
PP-08

SHEET 12 OF 15

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\\01Y1609-000\Skye Canyon Phase 3A_TR_3C\DWG\IMPROV\TR-C\W\CI\Y1609-000-PNP-IM DWG 2/8/2018 11:17 AM Jone Crettv

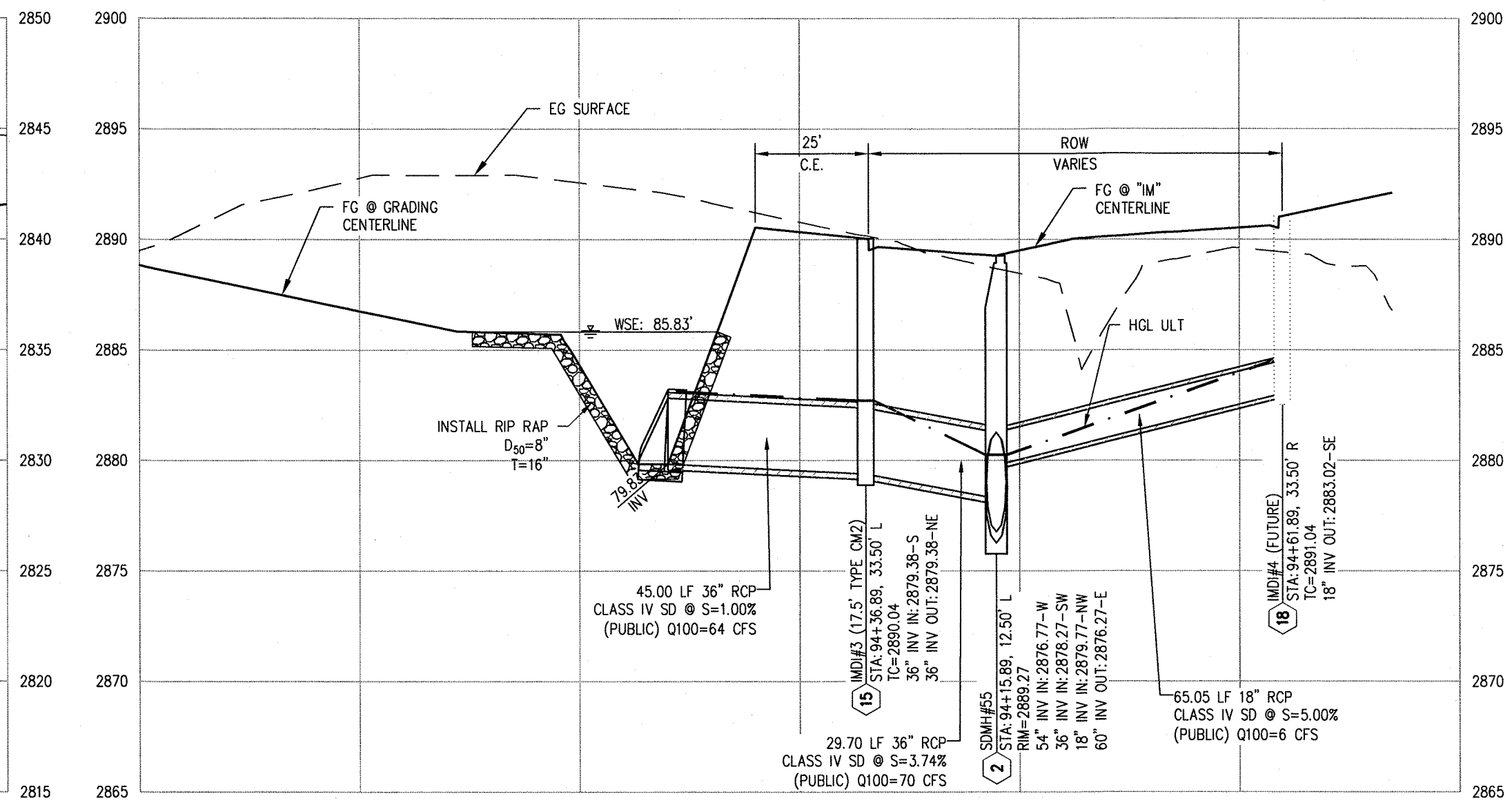
J:\OLY1609-000 SKYE CANYON PHASE 3B\3D\DWG\PP03-000-LAT-DMG 2/8/2018 11:17 AM Jone Crilly



IRON MOUNTAIN RD
STORM DRAIN @ 80+07.63

SCALE: HORIZ. 1"=30' VERT. 1"=6'
SEE SHEET: PP-08

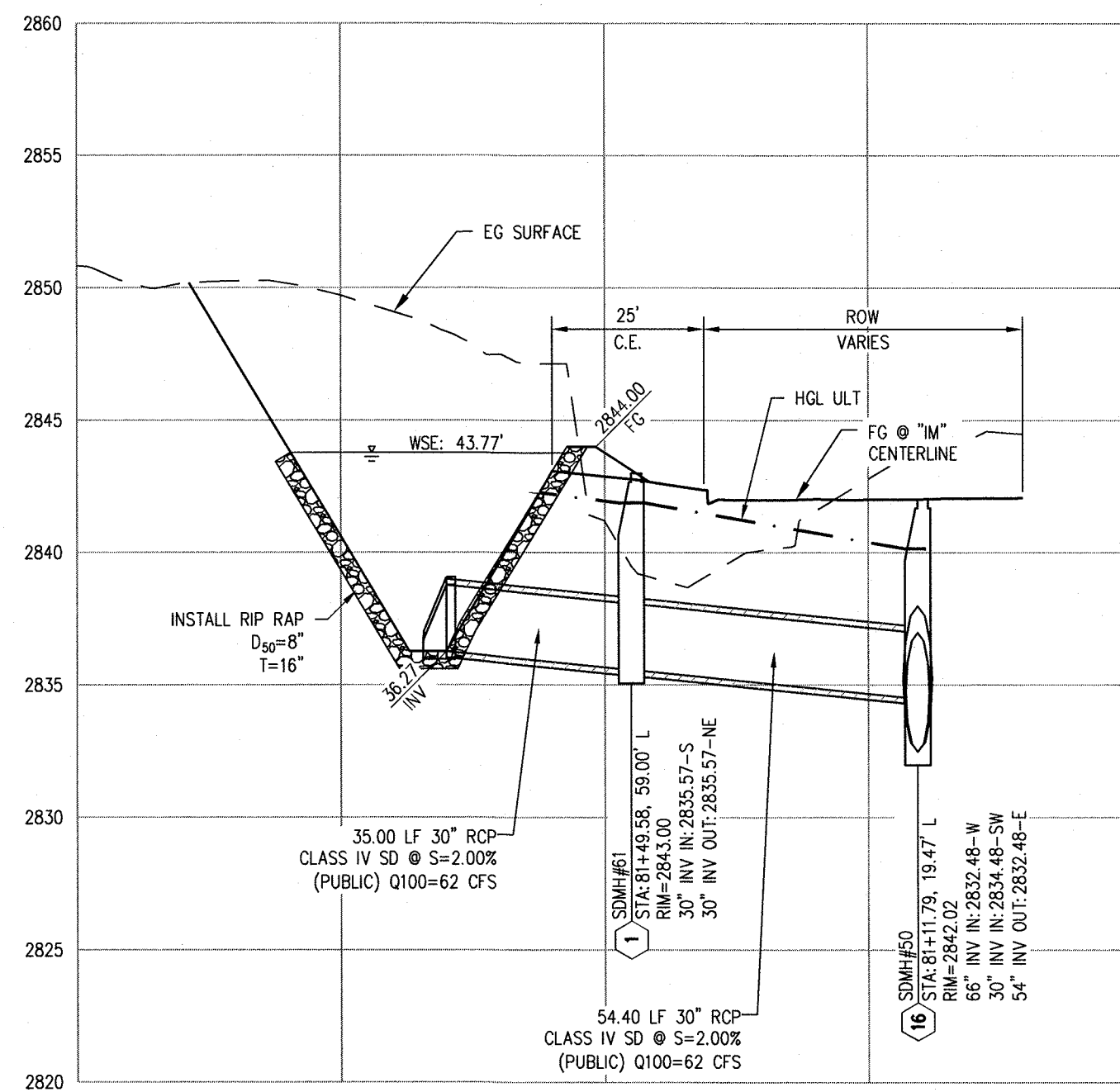
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IRON MOUNTAIN RD
STORM DRAIN @ 94+15.89

SCALE: HORIZ. 1"=30' VERT. 1"=6'
SEE SHEET: PP-05

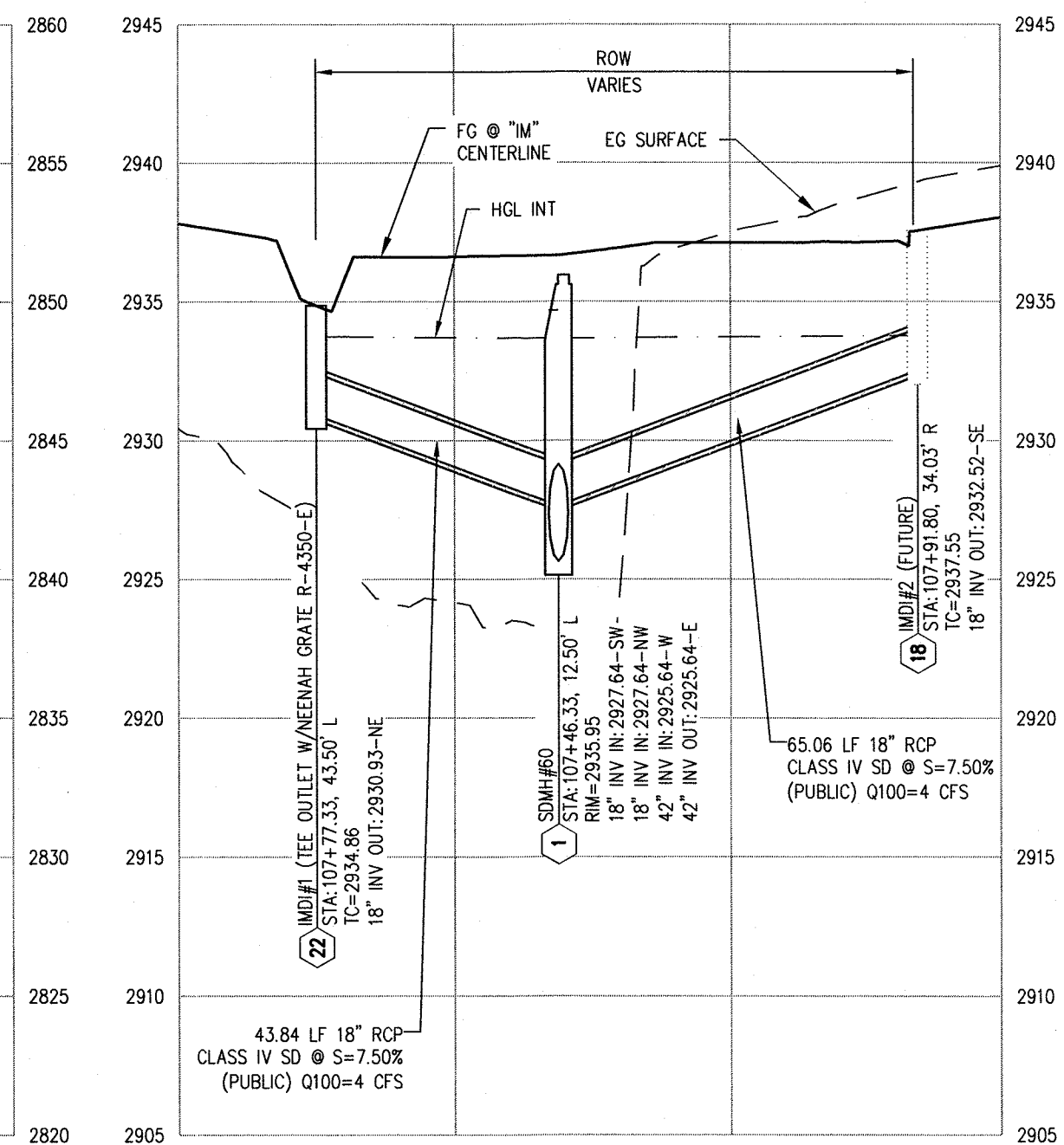
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IRON MOUNTAIN RD
STORM DRAIN @ 81+11.79

SCALE: HORIZ. 1"=30' VERT. 1"=6'
SEE SHEET: PP-08

3



IRON MOUNTAIN RD
STORM DRAIN @ 107+61.91

SCALE: HORIZ. 1"=30' VERT. 1"=6'
SEE SHEET: PP-03

1

NINETY-FIVE MANAGEMENT LLC

SKYE CANYON PHASE 3BC
IRON MOUNTAIN ROAD
STORM DRAIN LATERALS

DATE: 2/8/18

DRAFTER: HF

DESIGNER: HF

CHECKED: DY

PROJECT NO.

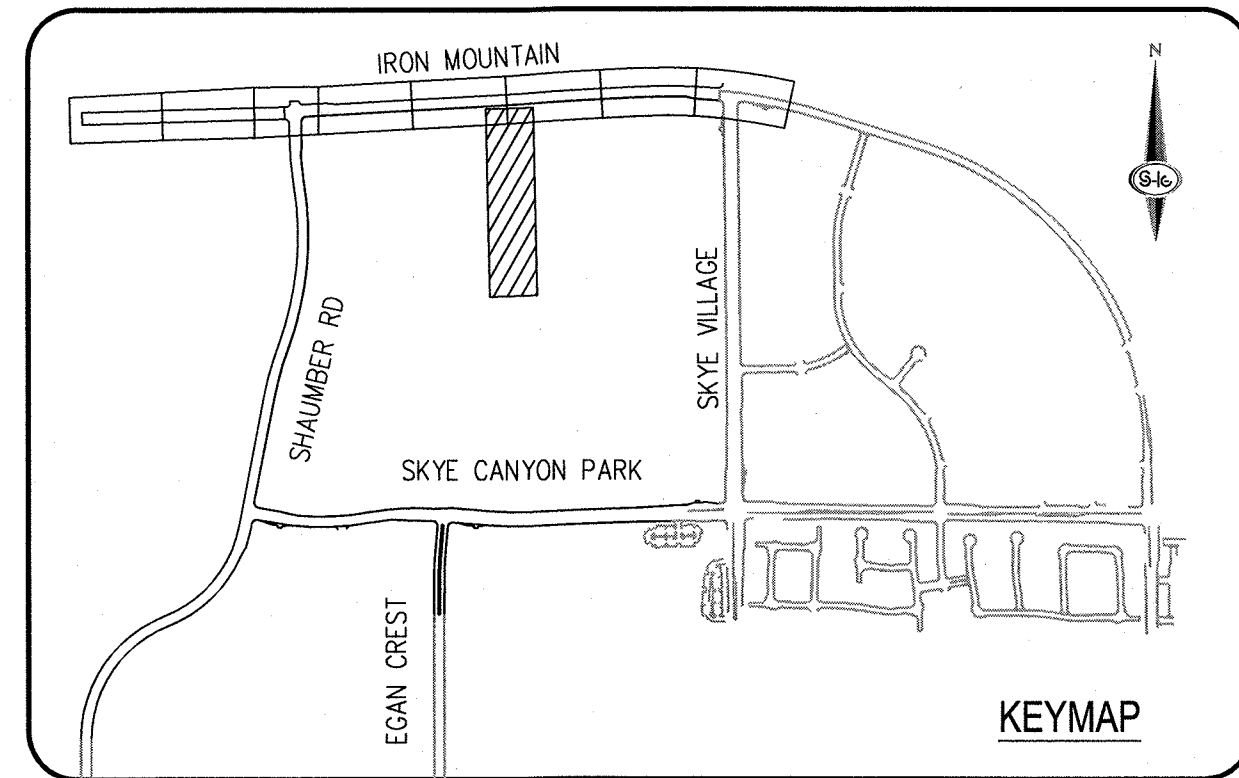
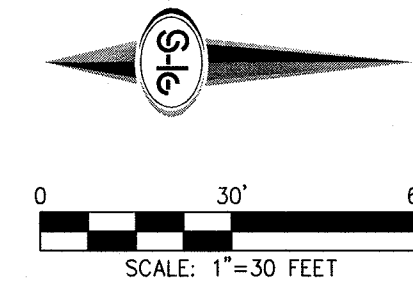
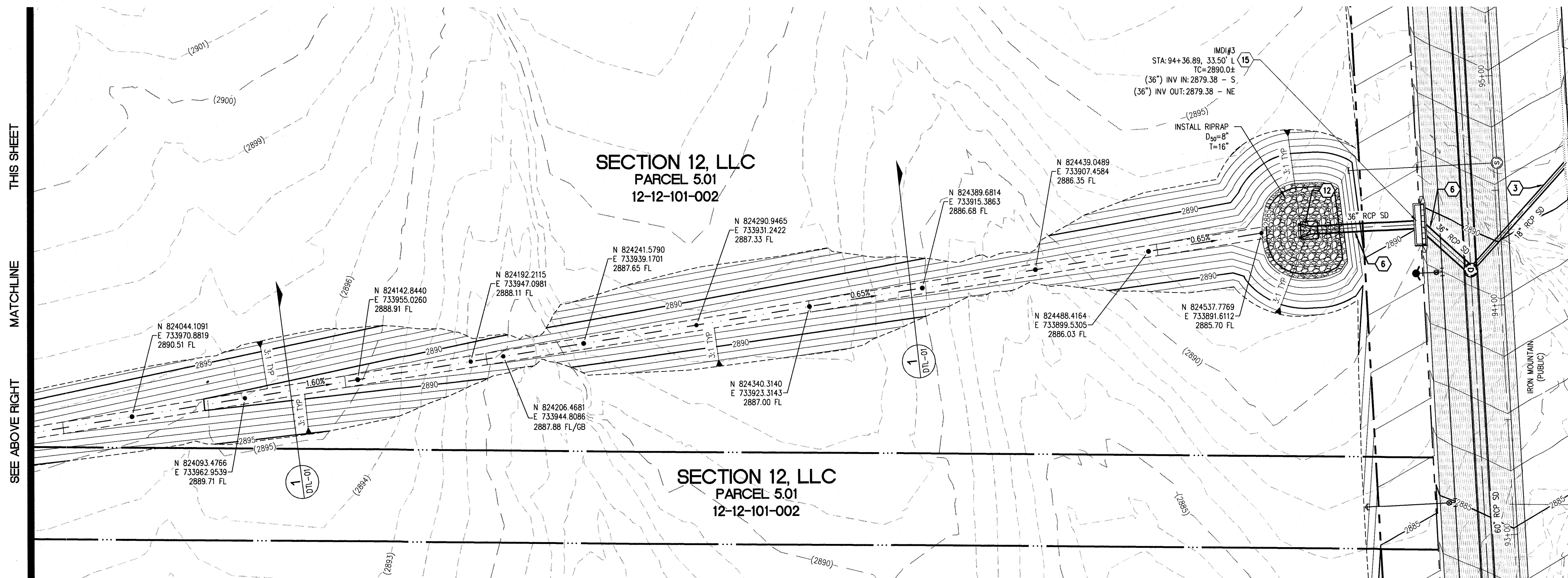
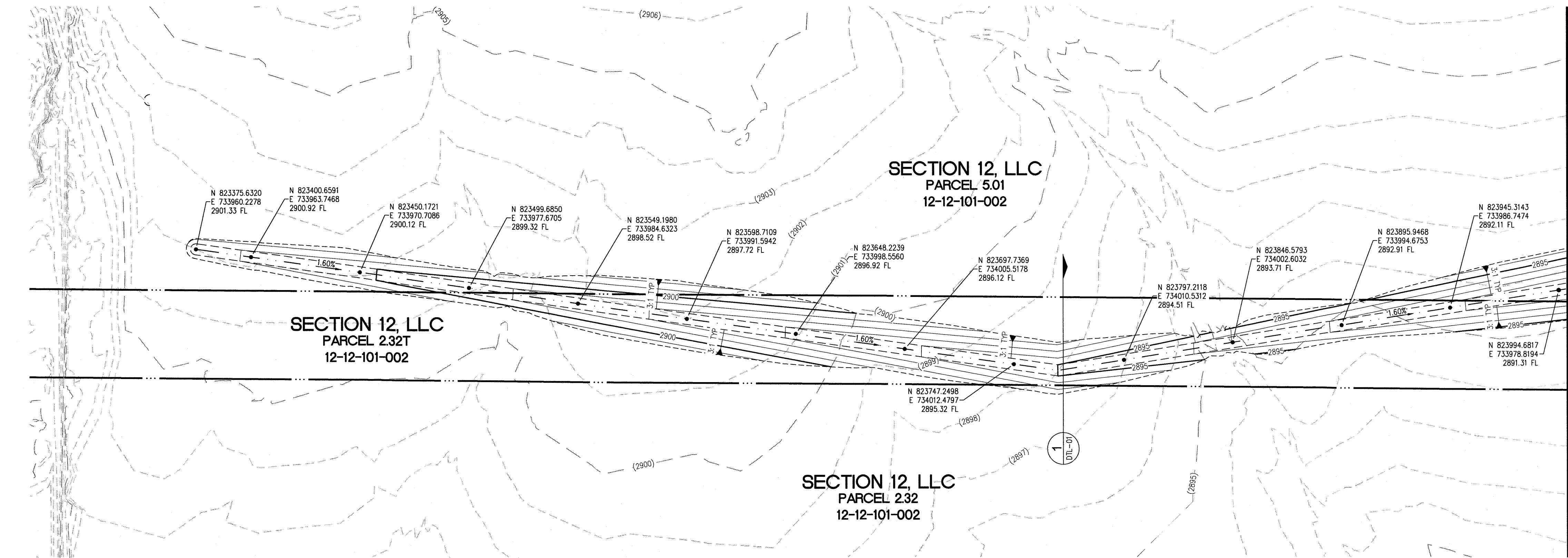
OLY1609-000



LAT-01

SHEET 13 OF 15

SLATER
HANIFAN
GROUP
CONSULTING ENGINEERS & PLANNERS
5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5300 FAX (702) 284-5309



CONSTRUCTION NOTES

1. CONSTRUCT 1" UTACS OVER 4.5" PBS OVER 4" TYPE II AGGREGATE BASE (SEE TY SHEETS)
2. CONSTRUCT 1" UTACS OVER 5.5" PBS OVER 6" TYPE II AGGREGATE BASE (SEE TY SHEETS)
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4. CONSTRUCT "L" TYPE CURB AND GUTTER (USDCCA STD. DWG. NO. 216)
5. CONSTRUCT SIDEWALK RAMP (CASE II) WITH TACTILE WARNING PANEL (USDCCA STD. DWG. NO. 235 AND DETAIL XX, SHEET XX)
6. CONSTRUCT BUS TURN-OUT (USDCCA STD. DWG. NO. 234.1)
7. CONSTRUCT CONCRETE SIDEWALK (USDCCA STD. DWG. 234)

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2. CONSTRUCT 60" TYPE III MANHOLE (USDCCA STD. DWG. NO. 406.1)
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NOTES

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DROP INLET NOTE

WHERE 10 FEET PARALLEL SEPARATION IS NOT PRACTICABLE:
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LEGEND

STORM DRAIN LATERAL # (SEE LAT SHEETS)

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED TECHNICAL DRAINAGE STUDY DS-XXXX ON FILE AT THE CITY OF LAS VEGAS FOR THE SUBJECT PROJECT.
DERICK D. J. YORO, P.E. 16396
DATE 2/8/18

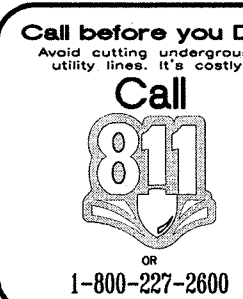
FLOOD ZONE
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NOTE:
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APPROVED FOR CONSTRUCTION

LVWD ENGINEERING SERVICES MANAGER
PROJECT NO. XXXXX

DATE



DATE: 2/8/18

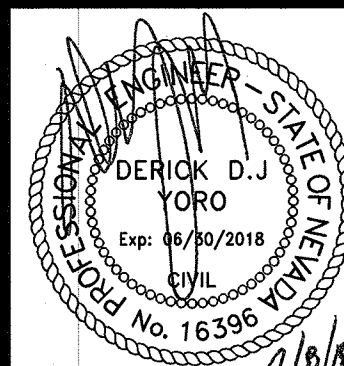
DRAWER: HF

DESIGNER: HF

CHECKED: DY

PROJECT NO.

OLY1609-000



GR-01

SHEET 14 OF 15



NOTES:

1. WHERE THE SLOPE OF THE UPSTREAM PIPE IS GREATER THAN THE SLOPE OF THE DOWNSTREAM PIPE, JOIN OFFSETS WHERE THE SLOPE OF THE UPSTREAM PIPE IS LESS THAN THE SLOPE OF THE DOWNSTREAM PIPE, JOIN INVERTS.
2. WHERE THE SPACE BETWEEN THE PIPE EXTREMITIES EXCEEDS 2 1/2 INCHES, THE NUMBER OF CIRCULAR PIES SHALL BE LIMITED TO MAINTAIN A MAXIMUM SPACING OF 8 INCHES BETWEEN CENTER. CIRCULAR PIES SHALL HAVE A DIAMETER 5 INCHES GREATER THAN THE OUTSIDE DIAMETER OF THE LARGER PIPE.

CIRCULAR TIES

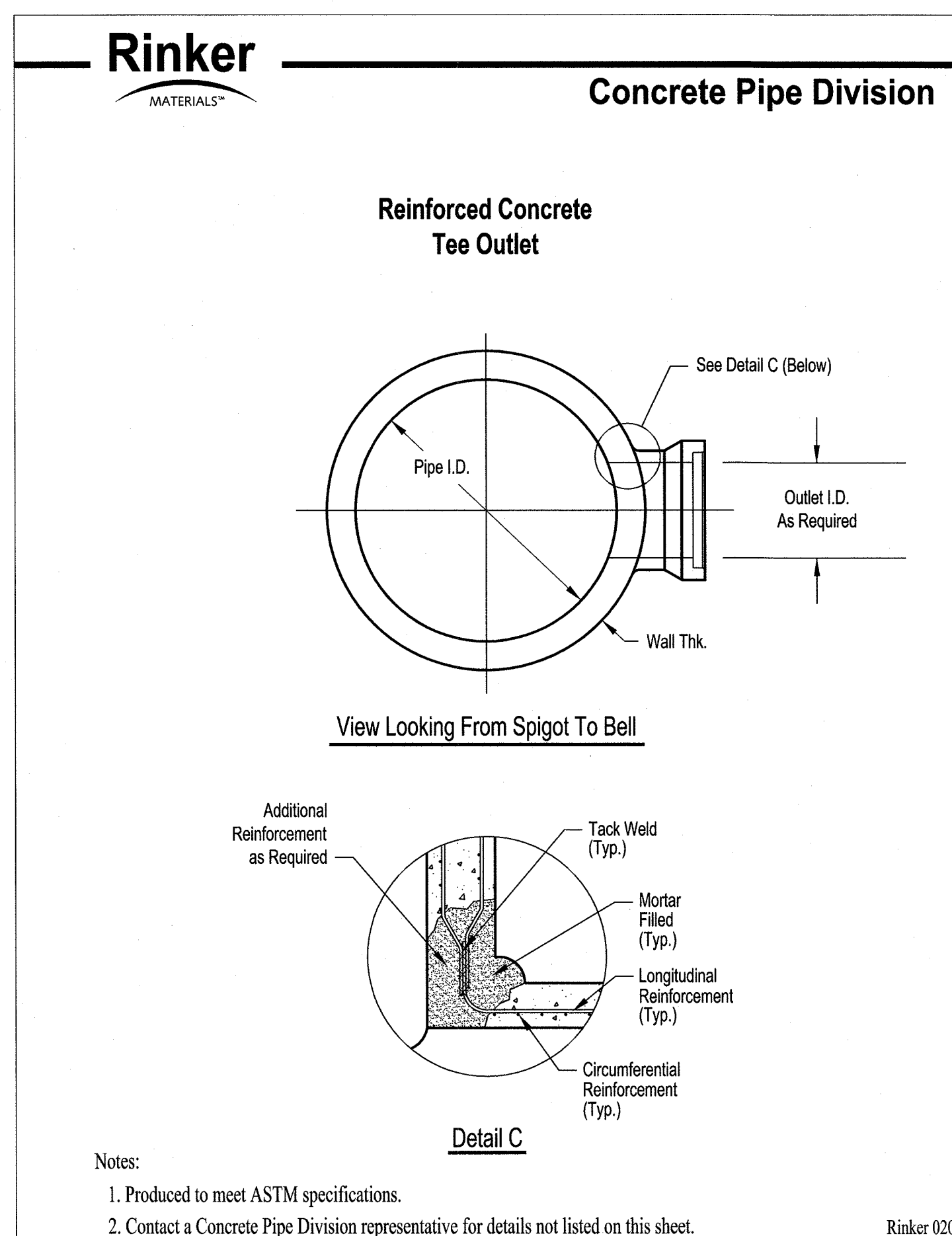
PIPE DIAMETER	SPACE BETWEEN PIPE EXTREMITIES	NO. OF CIRCULAR TIES	L	T
18"	2 1/2"	3	12"	5"
24"	2 1/2"	3	12"	6"
30"	2 1/2"	3	12"	7"
36"	2 1/2" or less	4	18"	9"
60"	2 1/2" or less	5	21"	11"

CONCRETE COLLAR

NOT TO SCALE

3

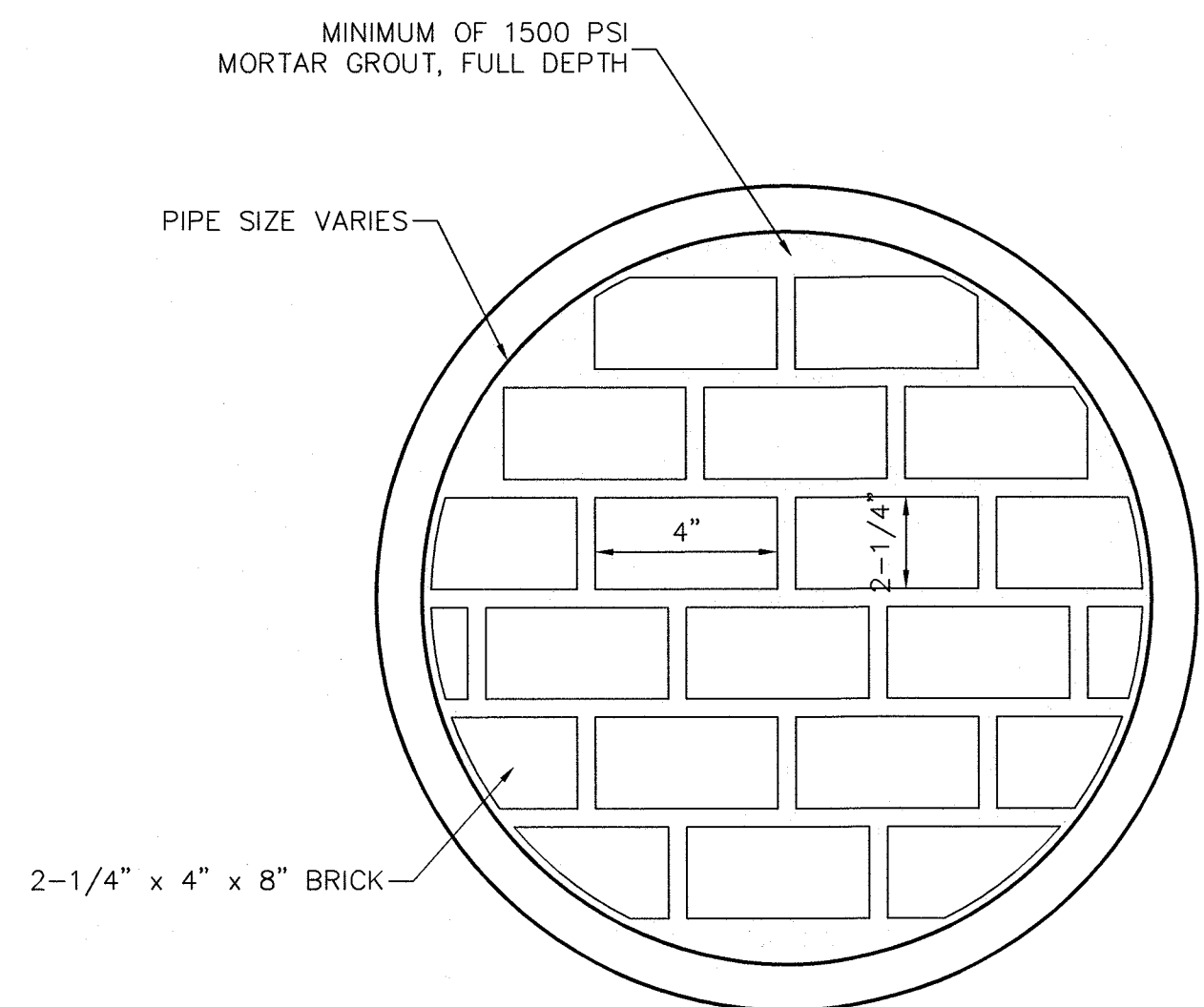
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RCP TEE OUTLET

NOT TO SCALE

4

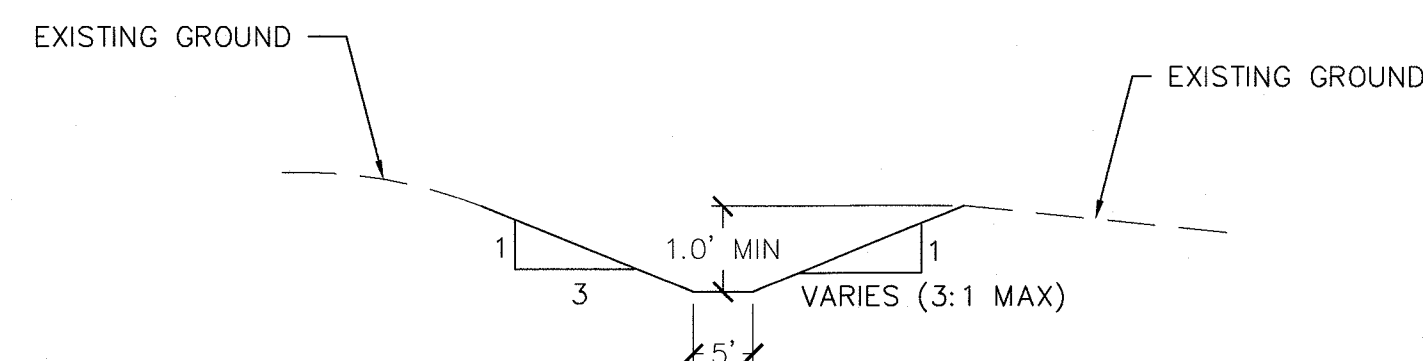


BRICK AND MORTAR PLUG

NOT TO SCALE

2

Abstract



EARTHEN DITCH

NOT TO SCALE

1

1