



IMPROVEMENT PLANS

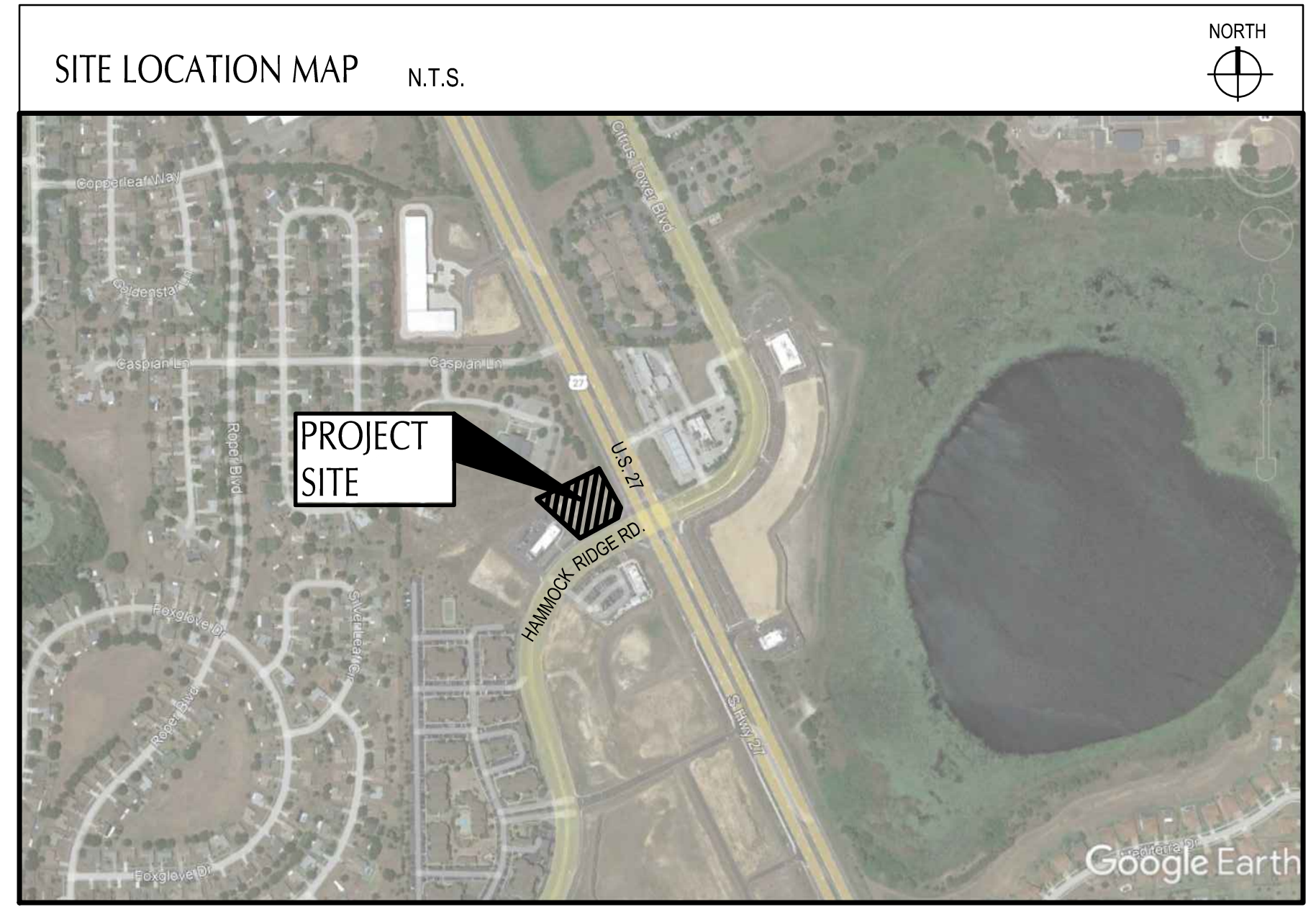
TACO BELL

HAMMOCK RIDGE ROAD & U.S. 27
CLERMONT, FLORIDA

JANUARY, 2022
ISSUED FOR BID - MAY 19, 2022

GENERAL LEGEND:

EXISTING	
○	EXISTING IRON PIN FOUND AS NOTED
TSB	TRAFFIC SIGNAL BOX
EB	EXISTING LIGHT POLE
UB	UTILITY BOX
⊙	EXISTING CATCH BASIN
⊙	EXISTING STORM MANHOLE
⊙	EXISTING SANITARY MANHOLE
■	EXISTING STORM INLET
∩	EXISTING IRRIGATION VALVE
FOB	EXISTING FIBER OPTIC BOX
+	EXISTING SIGN
□	EXISTING TRAFFIC POLE
— P/L —	EXISTING PROPERTY LINE
- - -g- - -	EXISTING UNDERGROUND GAS LINES
- - -st- - -	EXISTING UNDERGROUND STORM LINES
- - -san- - -	EXISTING UNDERGROUND SANITARY LINES
- - -w- - -	EXISTING UNDERGROUND WATER LINES
- - -e- - -	EXISTING UNDERGROUND ELECTRIC LINES
.....	EXISTING CURB
.....	EXISTING CURB & GUTTER
- - -000- - -	EXISTING CONTOUR
- - -fo- - -	EXISTING FIBER OPTIC LINE
— FM — FM —	EXISTING SANITARY FORCE MAIN
— IRR —	EXISTING IRRIGATION LINE
=====	EXISTING RETAINING WALL WITH 4.0' FENCE
PROPOSED	
■	PROPOSED CATCH BASIN
•	PROPOSED CLEAN OUT
⊙	PROPOSED FIRE HYDRANT
⊙	PROPOSED EXTERIOR GREASE INTERCEPTOR
E	PROPOSED ELECTRIC TRANSFORMER
⊙	PROPOSED LIGHT POLE
=====	PROPOSED EDGE OF PAVEMENT
=====	PROPOSED CURB
=====	PROPOSED CURB & GUTTER
000	PROPOSED CONTOUR
—	PROPOSED WHEEL STOP
+	PROPOSED TRAFFIC SIGN
⊙	PROPOSED PAINTED ADA SYMBOL
↑	PROPOSED DIRECTIONAL PAVEMENT MARKINGS



PLAN REPRODUCTION WARNING
THE PLANS HAVE BEEN PREPARED FOR PRINTING ON ANSI D (22"x34") SHEETS. PRINTING ON OTHER SIZE SHEETS MAY DISTORT SCALES. REFER TO GRAPHIC SCALES.

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PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF A PROPOSED TACO BELL ON A PREVIOUSLY VACANT LOT.

FLORIDA SPECIFICATION

THE STANDARD SPECIFICATIONS OF THE STATE OF FLORIDA, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

OWNER AND DEVELOPER

SHOPPES AT HAMMOCK RIDGE CROSSINGS LLC.
TACO BELL
1 GLEN BELL WAY
IRVINE, CA 92618

CONSULTANT

GPD GROUP, INC. - 30920
520 S. MAIN STREET
SUITE 2531
AKRON, OH 44311

LEGAL DESCRIPTION

LOT 1, COMMERCIAL PHASE 2, SHOPPES AT HAMMOCK RIDGE CROSSINGS, PHASE 2, COMMERCIAL PARCELS, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 73, PAGES 16 THROUGH 19, PUBLIC RECORDS OF LAKE COUNTY, FLORIDA.

CONTAINS 54,397 SQUARE FEET OR 1.249 ACRES MORE OR LESS.

NOTES:

- SITE SHALL COMPLY WITH THE FLORIDA BUILDING CODE 7TH EDITION (2020) ACCESSIBILITY.

PERMITS NOTE:

- SEPARATE PERMITS ARE REQUIRED FOR THE FOLLOWING IF APPLICABLE: CONSTRUCTION TRAILERS, SALES CENTERS, DUMPSTER ENCLOSURES, LIFT STATIONS, SWIMMING POOLS, PLAYGROUND EQUIPMENT, WALL SIGNS, MONUMENT SIGNS, RETAINING/LANDSCAPE WALLS, ENTRY WALL FEATURES, SITE LIGHTING, GENERATORS, LIGHTNING PROTECTION SYSTEMS, BULK OXYGEN STORAGE TANKS, FENCES, AWNINGS, GREASE TRAPS, PAINT SPRAY BOOTHS, UNDERGROUND/ABOVE FUEL STORAGE TANKS, ETC.

DATE	REMARKS
02.18.21	SITE PLAN REVIEW 1 COMMENTS
05.13.22	NTP
05.19.22	ISSUED FOR BID

CONTRACT DATE: 01.17.22
BUILDING TYPE: END. 2.0
PLAN VERSION: JANUARY 2022
BRAND DESIGNER:
SITE NUMBER: 315420
STORE NUMBER: 457313
PA/PM: JN
DRAWN BY.: EA
JOB NO.: 2021088.46

TACO BELL

HAMMOCK RIDGE & U.S. 27
CLERMONT, FL 34711



ENDEAVOR 2.0

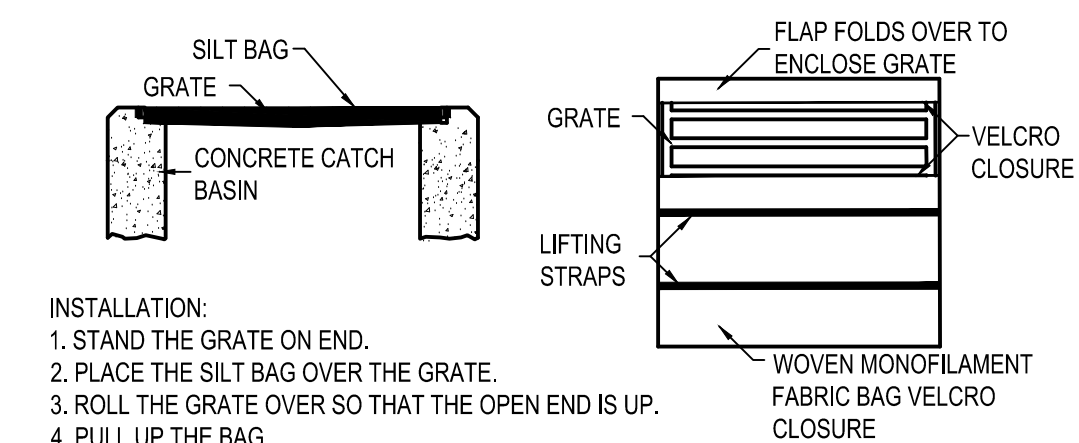
TITLE SHEET

TS-001

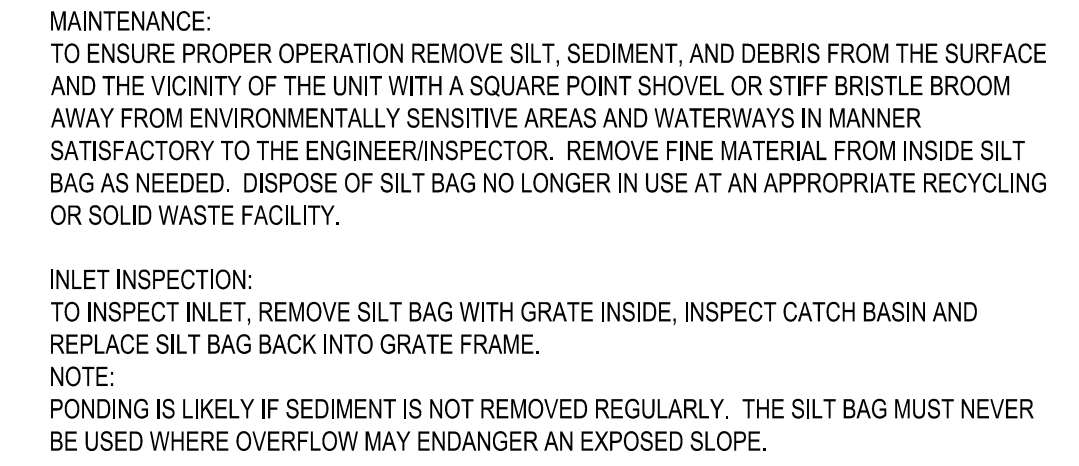


520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101

- NOTES:
- 1) SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS.
 - 2) ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS WHICH MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.
 - 3) TO PREVENT WATER PONDED BY THE SILT FENCE FROM FLOWING AROUND THE ENDS, EACH END SHALL BE CONSTRUCTED UPSLOPE SO THAT THE ENDS ARE AT A HIGHER ELEVATION.
 - 4) WHERE POSSIBLE, SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
 - 5) WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FT. (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE REESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE SILT FENCE.
 - 6) THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16 IN. ABOVE THE ORIGINAL GROUND SURFACE.
 - 7) THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6 INCH OVERLAP, AND SECURELY SEALED.
 - 8) POSTS SHALL BE A MINIMUM OF 5 FEET LONG, 2 INCHES IN DIAMETER AND SPACED A MAXIMUM OF 10 FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND. WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6 FEET.
 - 9) THE SILT FENCE SHALL BE PLACED IN A TRENCH CUT A MINIMUM OF 6 INCHES DEEP. THE TRENCH SHALL BE CUT WITH A TRENCHER, CABLE LAYING MACHINE, OR OTHER SUITABLE DEVICE WHICH WILL ENSURE AN ADEQUATELY UNIFORM TRENCH DEPTH.
 - 10) THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWNSLOPE SIDE OF THE GEOTEXTILE AND SO THAT 8 IN. OF CLOTH ARE BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 6 IN. DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED.
 - 11) WHEN EXTRA STRENGTH FILTER FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS.
 - 12) THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE AND 8 INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
 - 13) SEAMS BETWEEN SECTION OF SILT FENCE SHALL BE OVERLAPPED WITH THE END STAKES OF EACH SECTION WRAPPED TOGETHER BEFORE DRIVING INTO THE GROUND.
 - 14) SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER OR AROUND THE ENDS, OR IN ANY OTHER WAY BECOMES A CONCENTRATED FLOW, ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE: A) THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED, B) ACCUMULATED SEDIMENT SHALL BE REMOVED, OR C) OTHER PRACTICES SHALL BE INSTALLED.



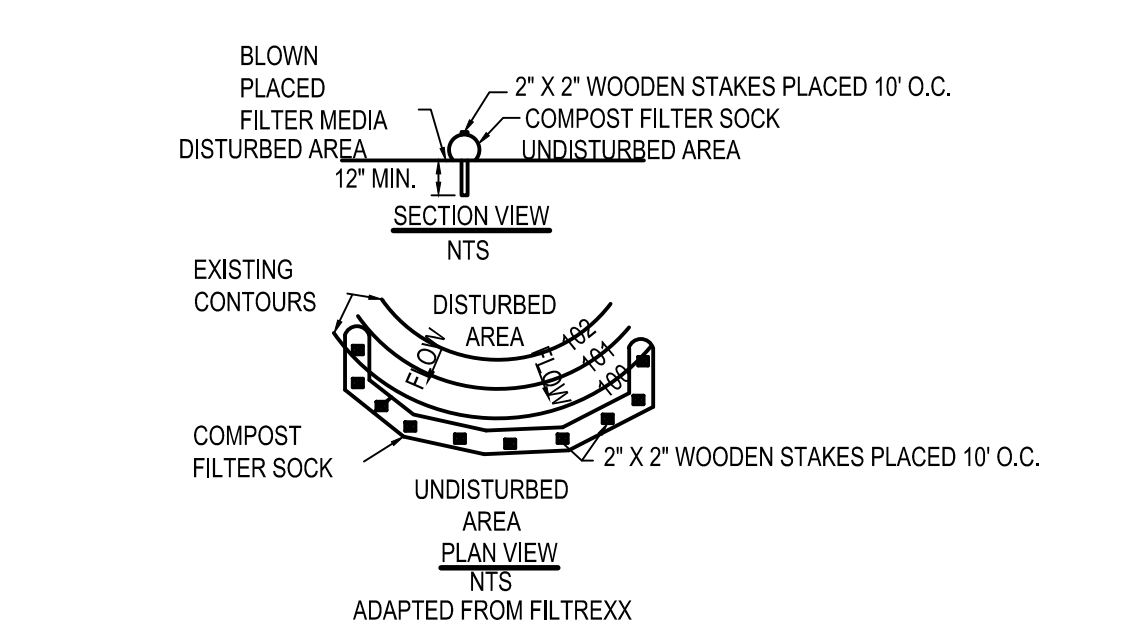
- INSTALLATION:
1. STAND THE GRATE ON END.
 2. PLACE THE SILT BAG OVER THE GRATE.
 3. ROLL THE GRATE OVER SO THAT THE OPEN END IS UP.
 4. PULL UP THE BAG.
 5. TUCK THE FLAP IN.
 6. PRESS THE VELCRO STRAPS TOGETHER.
 7. BE SURE THAT THE END OF THE GRATE IS COMPLETELY COVERED BY THE FLAP OR THE SILT BAG WILL NOT WORK PROPERLY.
 8. HOLDING THE HANDLES, CAREFULLY PLACE THE SILT BAG WITH THE GRATE INSERTED INTO THE CATCH BASIN FRAME.
- MAINTENANCE:
- TO ENSURE PROPER OPERATION REMOVE SILT, SEDIMENT, AND DEBRIS FROM THE SURFACE AND THE VICINITY OF THE UNIT WITH A SQUARE POINT SHOVEL OR STIFF BRISTLE BROOM AWAY FROM ENVIRONMENTALLY SENSITIVE AREAS AND WATERWAYS IN MANNER SATISFACTORY TO THE ENGINEER/INSPECTOR. REMOVE FINE MATERIAL FROM INSIDE SILT BAG AS NEEDED. DISPOSE OF SILT BAG NO LONGER IN USE AT AN APPROPRIATE RECYCLING OR SOLID WASTE FACILITY.
- INLET INSPECTION:
- TO INSPECT INLET, REMOVE SILT BAG WITH GRATE INSIDE, INSPECT CATCH BASIN AND REPLACE SILT BAG BACK INTO GRATE FRAME.
- NOTE:
- PONDING IS LIKELY IF SEDIMENT IS NOT REMOVED REGULARLY. THE SILT BAG MUST NEVER BE USED WHERE OVERFLOW MAY ENDANGER AN EXPOSED SLOPE.



B1 SILT BAG PROTECTION
N.T.S.

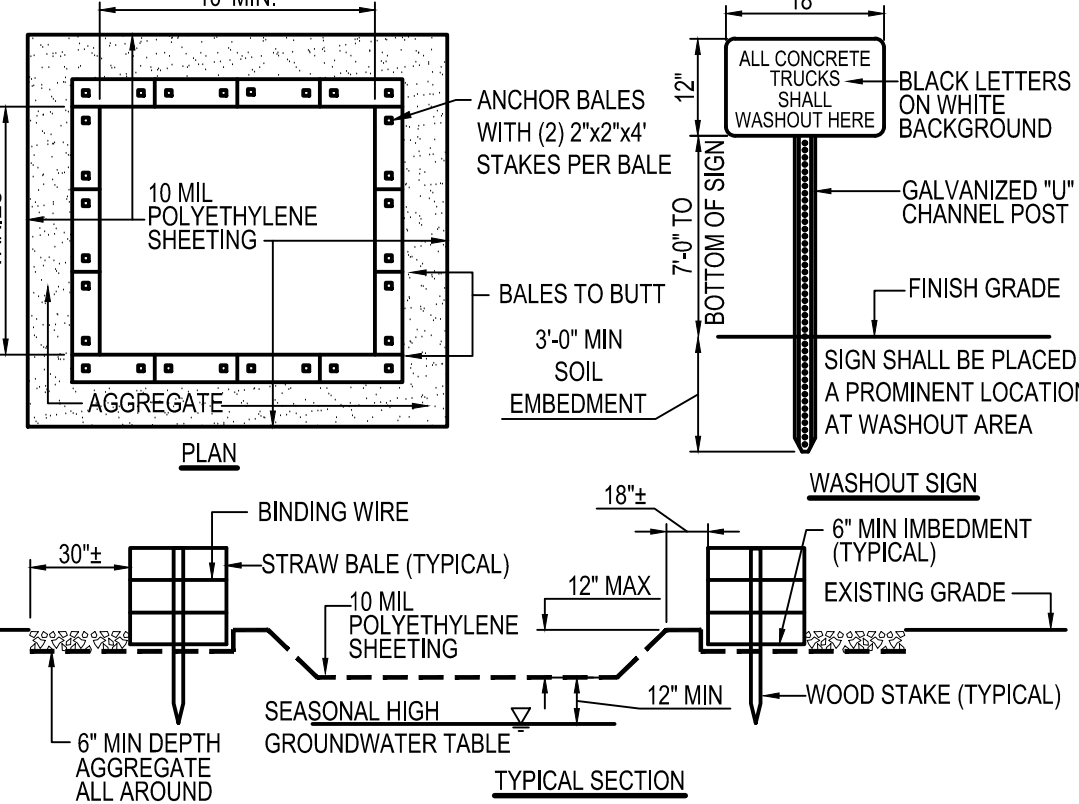
COMPOST SOCK FABRIC MINIMUM SPECIFICATIONS					
MATERIAL TYPE	3 mil HDPE	5 mil HDPE	5 mil HDPE	MULTI-FILAMENT POLYPROPYLENE (MFPP)	HEAVY DUTY MULTI-FILAMENT POLYPROPYLENE (MFPP)
MATERIAL CHARACTERISTICS	PHOTO-DEGRADABLE	PHOTO-DEGRADABLE	BIO-DEGRADABLE	PHOTO-DEGRADABLE	PHOTO-DEGRADABLE
SOCK DIAMETERS	12" 18"	12" 18" 24"	12" 18" 24" 32"	12" 18" 24" 32"	12" 18" 24" 32"
MESH OPENING	3/8"	3/8"	3/8"	3/8"	1/8"
TENSILE STRENGTH		26 PSI	26 PSI	44 PSI	202 PSI
ULTRAVIOLET STABILITY % ORIGINAL STRENGTH (ASTM G-155)	% AT 1000 HR.	23% AT 1000 HR.		100% AT 1000 HR.	100% AT 1000 HR.
MINIMUM FUNCTIONAL LONGEVITY	6 MONTHS	9 MONTHS	6 MONTHS	1 YEAR	2 YEARS

COMPOST SHALL MEET THE FOLLOWING STANDARDS:	
ORGANIC MATTER CONTENT	80% - 100% (DRY WEIGHT BASIS)
ORGANIC PORTION	FIBROUS AND ELONGATED
pH	5.5 - 8.0
MOISTURE CONTENT	35% - 55%
PARTICLE SIZE	98% PASS THROUGH 1" SCREEN
SOLUBLE SALT CONCENTRATION	5.0 dS MAXIMUM



1. COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE SOCK SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN SOCK ALIGNMENT.
2. TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS.
3. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE SOCK AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.
4. SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH 1/2 INCH STORM RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.
5. BIODEGRADABLE FILTER SOCK SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
6. UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

A2 COMPOST FILTER SOCK
N.T.S.

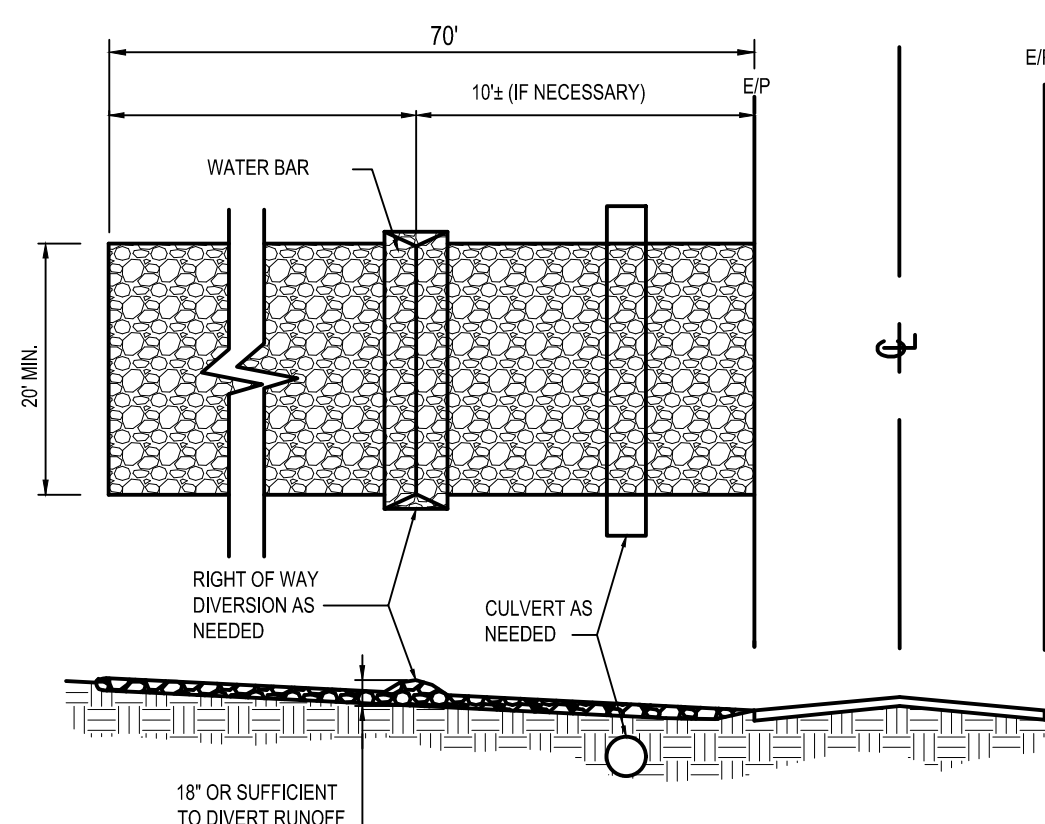


- NOTES:
1. CONTAINMENT MUST BE STRUCTURALLY SOUND AND LEAK FREE AND CONTAIN ALL LIQUID WASTES.
 2. CONTAINMENT DEVICES MUST BE OF SUFFICIENT QUANTITY OR VOLUME TO COMPLETELY CONTAIN THE LIQUID WASTES GENERATED.
 3. WASHOUT MUST BE CLEANED OR NEW FACILITIES CONSTRUCTED AND READY TO USE ONCE WASHOUT IS 75% FULL.
 4. WASHOUT AREA(S) SHALL BE INSTALLED IN A LOCATION EASILY ACCESSIBLE BY CONCRETE TRUCKS.
 5. ONE OR MORE AREAS MAY BE INSTALLED ON THE CONSTRUCTION SITE AND MAY BE RELOCATED AS CONSTRUCTION PROGRESSES.
 6. AT LEAST WEEKLY REMOVE ACCUMULATION OF SAND AND AGGREGATE AND DISPOSE OF PROPERLY.

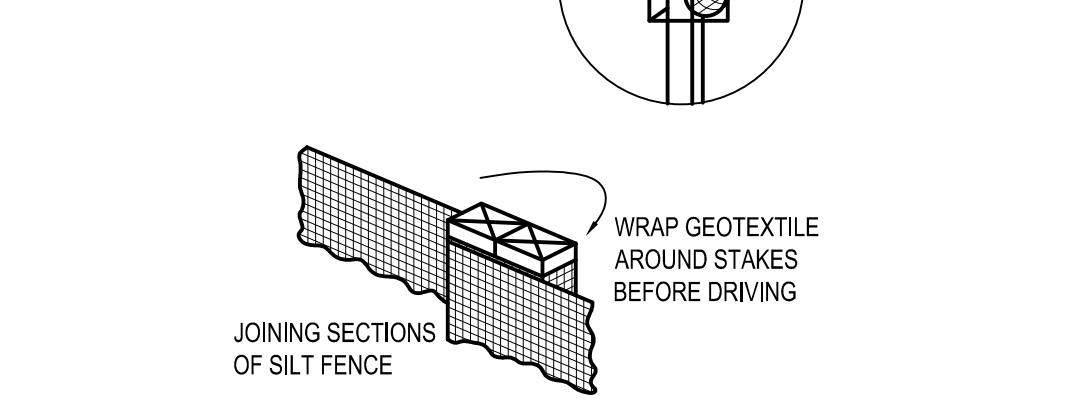
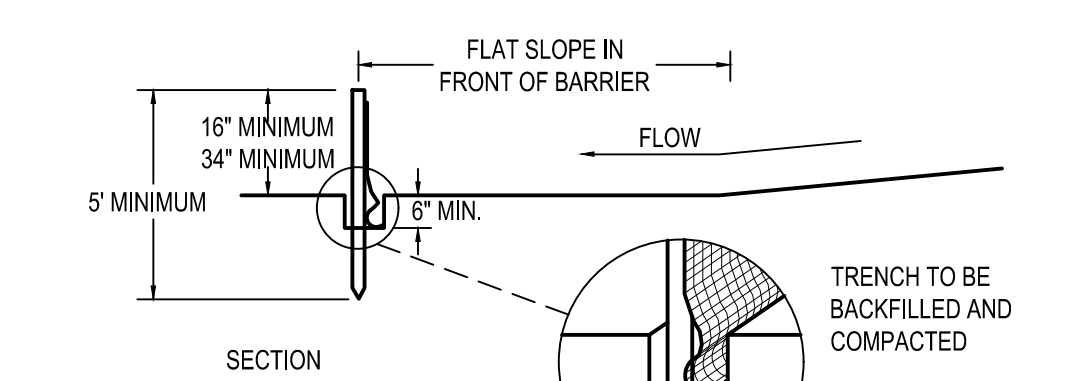
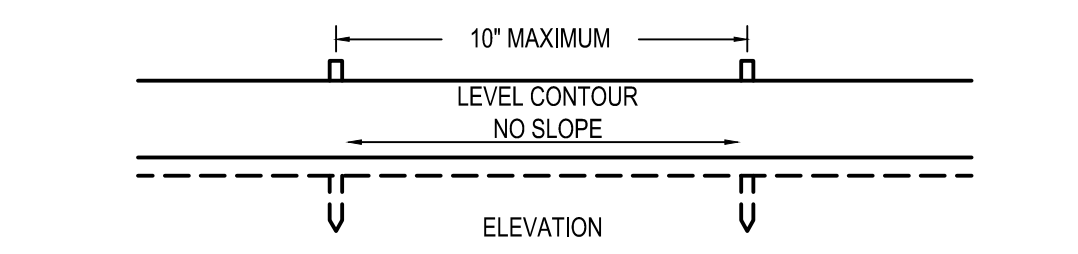
A3 CONCRETE WASHOUT AREA
N.T.S.

CONSTRUCTION ENTRANCE NOTES

1. STONE SIZE - NO. 2 STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT.
2. THE CONSTRUCTION ENTRANCE SHALL COINCIDE WITH THE PROPOSED DRIVE AS SHOWN ON THE PLAN.
3. PAVEMENT THICKNESS - STONE LAYER SHALL BE 6" THICK FOR STANDARD DUTY ACTIVITY AND 10" THICK FOR HEAVY DUTY ACTIVITY.
4. DRIVEWAY WIDTH - THE ENTRANCE SHALL BE AT LEAST 20' WIDE. CONTRACTOR SHALL ENSURE ALL VEHICLES UTILIZE THE CONSTRUCTION ENTRANCE UNTIL PAVEMENT IS IN PLACE.
5. BEDDING-A GEOTEXTILE SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE. IT SHALL BE COMPOSED OF STRONG ROT-PROOF POLYMERIC FIBERS AND MEET THE SPECIFICATIONS SHOWN BELOW.
6. CULVERT-A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE IF NEEDED TO PREVENT SURFACE WATER FLOWING ACROSS THE ENTRANCE OR TO PREVENT RUNOFF FROM BEING DIRECTED OUT ONTO PAVED SURFACES.
7. WATER BAR - A WATER BAR SHALL BE CONSTRUCTED AS PART OF THE CONSTRUCTION ENTRANCE IF NEEDED TO PREVENT SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE AND OUT ONTO PAVED SURFACES.
8. MAINTENANCE - TOP DRESSING OF ADDITIONAL STONE SHALL BE APPLIED AS CONDITIONS DEMAND. MUD SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADS, OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS, SHALL BE REMOVED IMMEDIATELY. REMOVAL SHALL BE ACCOMPLISHED BY SCRAPING OR SWEEPING.
9. CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES AND PREVENT OFF SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION SHALL BE RESTRICTED FROM MUDDY AREAS.
10. THE ENTRANCE SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS STABILIZED OR REPLACED WITH A PERMANENT ROADWAY OR ENTRANCE.



A1 TEMPORARY STABILIZED CONSTRUCTION ENTRANCE
N.T.S.



CRITERIA FOR GEOTEXTILE FABRIC SILT FENCE, PER CURRENT STATE'S DOT SPECIFICATIONS.

FABRIC PROPERTIES	VALUES	TEST METHOD
MINIMUM TENSILE STRENGTH	120 LB. MINIMUM	ASTM D 4632
MINIMUM BURST STRENGTH	200 PSI MINIMUM	
MINIMUM PERMITTIVITY	1x10 ⁻² sec-1	ASTM D 4491
APPARENT OPENING SIZE	AOS ≤ 0.84 mm	ASTM D 4751
UV EXPOSURE STRENGTH RETENTION	70%	ASTM G 4335
MAXIMUM ELONGATION AT 60 LBS.	50%	ASTM D 4632
MINIMUM PUNCTURE STRENGTH	50 LBS (220N)	ASTM D 4633
MINIMUM TEAR STRENGTH	40 LBS (180N)	ASTM D 4633

A4 SILT FENCE
N.T.S.

DATE	REMARKS
05.13.22	NTP
05.19.22	ISSUED FOR BID

CONTRACT DATE: 01.17.22
BUILDING TYPE: END. 2.0
PLAN VERSION: JANUARY 2022
BRAND DESIGNER:
SITE NUMBER: 315420
STORE NUMBER: 457313
PA/PM: JN
DRAWN BY.: EA
JOB NO.: 2021088.46



ENDEAVOR 2.0
SWPP
DETAILS
C-011



BENCHMARKS:
BASIS OF BEARING IS ASSUMED AND IS BASED ON THE NORTH LINE OF LOT 2, BEING N 62°16'10" E.

BENCHMARK #1
BENCHMARK N&D
ELEVATION=128.39'
NAVD 88

BENCHMARK #2
(NOT SHOWN ON THIS PLAN, LOOK AT ALTA SURVEY)
BENCHMARK N&D
ELEVATION=129.17'
NAVD 88

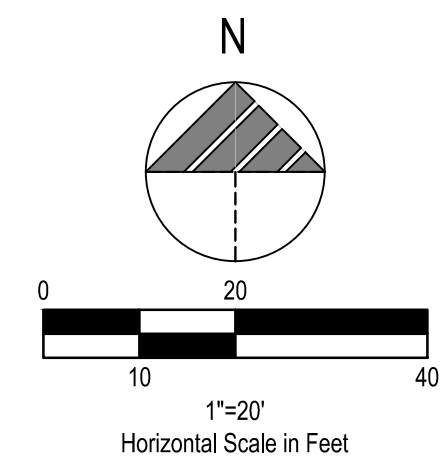
BENCHMARK #3
BENCHMARK N&D
ELEVATION=112.51'
NAVD 88

SWPP KEYNOTES

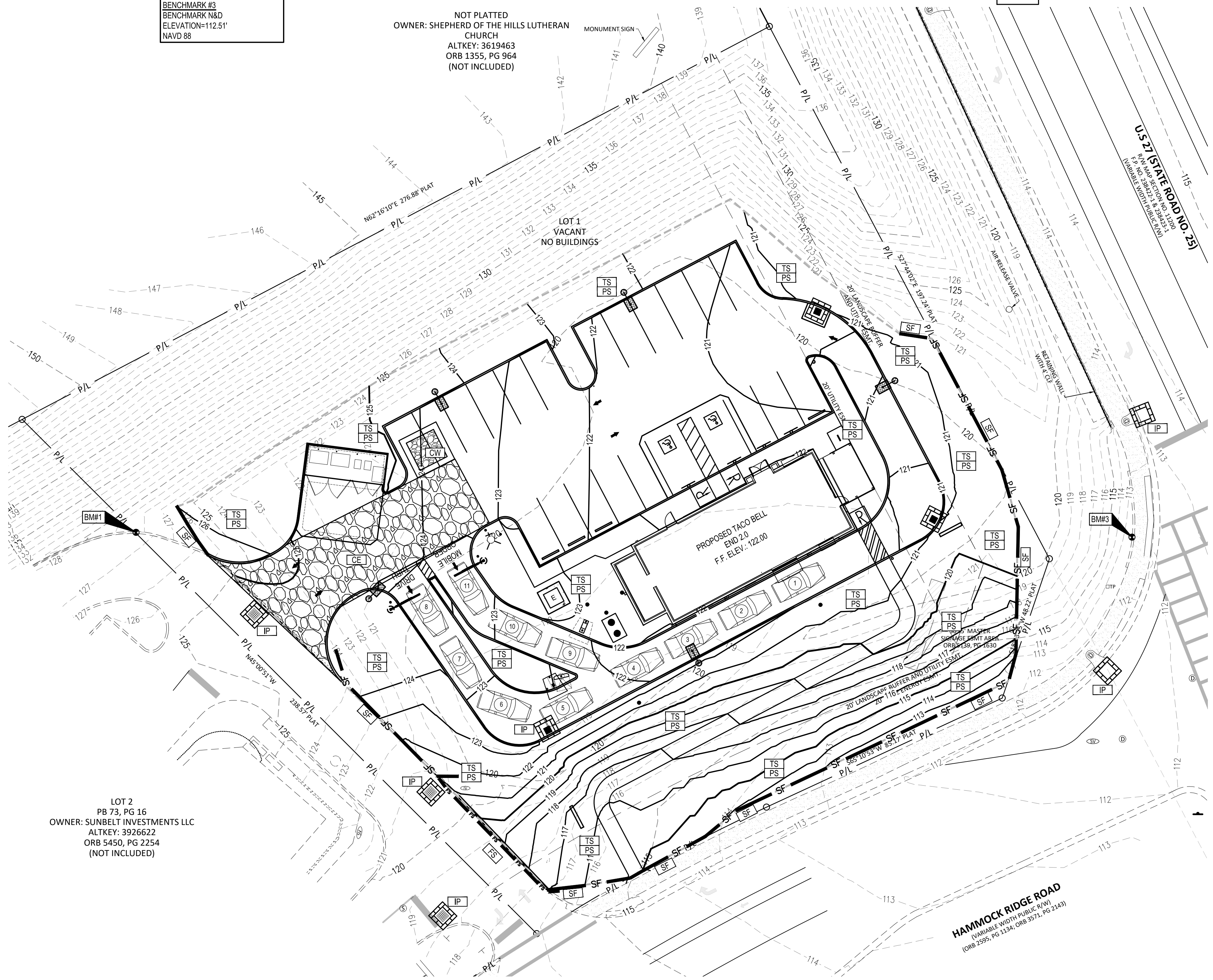
- TS TEMPORARY SEEDING
- PS PERMANENT SEEDING
- CW CONCRETE WASHOUT AREA
- SF SILT FENCE
- FS COMPOST FILTER SOCK
- CE CONSTRUCTION ENTRANCE
- IP INLET PROTECTION

LEGEND

- (SEE SHEET TS-001 FOR GENERAL LEGEND)
- PROPOSED SILT BARRIER REFER TO SWPP DETAILS
 - PROPOSED COMPOST FILTER SOCK REFER TO SWPP DETAILS
 - PROPOSED SILT FENCE REFER TO SWPP DETAILS
 - LIMITS OF DISTURBANCE
 - PROPOSED CONSTRUCTION ENTRANCE REFER TO SWPP DETAILS
 - PROPOSED CONCRETE WASHOUT FACILITY REFER TO SWPP DETAILS



NOT PLATTED
OWNER: SHEPHERD OF THE HILLS LUTHERAN CHURCH
ALTKEY: 3619463
ORB 1355, PG 964
(NOT INCLUDED)



LOT 2
PB 73, PG 16
OWNER: SUNBELT INVESTMENTS LLC
ALTKEY: 3926622
ORB 5450, PG 2254
(NOT INCLUDED)

CONSTRUCTION SEQUENCE

1. DURING PRECONSTRUCTION MEETING ALL EROSION & SEDIMENT CONTROL FACILITIES & PROCEDURES SHALL BE DISCUSSED. A GENERAL CONSTRUCTION SEQUENCE FOLLOWS AND MAY NEED TO BE UPDATED BY THE CONTRACTOR TO SUIT THE SPECIFICS OF THE SITE AND INTENDED CONTRACTOR SPECIFIC SEQUENCING.
- 1.1. INSTALL CONSTRUCTION ENTRANCE AS DETAILED ON PLANS. TEMPORARY CONSTRUCTION FENCING SHALL BE INSTALLED AROUND PERIMETER OF CONSTRUCTION SITE. WHERE THERE IS EXISTING FENCE ALONG THE PERIMETER OF THE SITE, IT CAN BE UTILIZED. FENCING SHALL BE USED TO RESTRICT OUTSIDE TRAFFIC TO SITE.
- 1.2. DELIVER CONSTRUCTION TRAILER TO SITE AND INSTALL TEMPORARY POWER AND TELEPHONE, IF REQUIRED. TEMPORARY UTILITY SERVICES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 1.3. STAKE AND/OR FLAG LIMITS OF CLEARING.
- 1.4. CLEAR & GRUB, AS NECESSARY, FOR INSTALLATION OF PERIMETER CONTROLS. INSTALL SILT PERIMETER CONTROLS AS SHOWN ON PLANS. SILT PERIMETER CONTROLS SHALL BE INSTALLED LEVEL, ALONG THE CONTOURS, WITH ENDS TURNED UPSLOPE TO PREVENT CONCENTRATED FLOW AT THE SILT PERIMETER CONTROLS.
- 1.5. INSTALL TEMPORARY SILT INLET PROTECTION ON ALL EXISTING CATCH BASINS AND INLETS, AS DESIGNATED IN THE PLANS. REMOVAL OF SILT INLET PROTECTION FROM DESIGNATED INLETS CAN ONLY OCCUR WHEN A STRUCTURE IS REMOVED, AND AS REQUIRED BY THE PROGRESSION OF THE DEMOLITION AND CONSTRUCTION.
- 1.6. CLEAR & GRUB, AS NECESSARY, FOR INSTALLATION OF TEMPORARY SEDIMENT TRAP/BASIN. INSTALL TEMPORARY SEDIMENT TRAP/BASIN, IF REQUIRED, AS DETAILED IN THE PLANS. CONSTRUCT AND MAINTAIN TEMPORARY DIVERSION SWALE AND /OR DIVERSION BERM DURING FILLING & GRADING ACTIVITIES.
- 1.7. CLEAR & GRUB THE REMAINING SITE AS NECESSARY. TOPSOIL SHALL BE STRIPPED AND STOCKPILED ON SITE FOR REUSE, OR REMOVED TO AN APPROVED OFFSITE SPOIL AREA.
- 1.8. UTILIZE DUST CONTROL MEASURES AS REQUIRED TO MINIMIZE AIR-BORNE POLLUTION BY METHODS APPROVED BY THE AUTHORIZING EPA OFFICE.
- 1.9. BEGIN FILLING & GRADING AS REQUIRED TO REACH SUBGRADE.
- 1.10. ONCE PAVEMENT GRADES HAVE BEEN ESTABLISHED, AS DESIGNATED ON THE PLANS, THE CONTRACTOR SHALL UTILIZE THESE AREAS FOR STRUCTURE CONSTRUCTION.
- 1.11. CONSTRUCT UNDERGROUND UTILITY WORK INCLUDING STORM DRAINAGE FACILITIES. UPON INSTALLATION OF STORM DRAINAGE CATCH BASINS, YARD DRAINS AND INLETS, INSTALL REQUIRED INLET PROTECTION.
- 1.12. DO NOT REPLACE ANY TOPSOIL. SEED OR INSTALL FINAL PAVEMENT PRIOR TO COMPLETION OF BUILDING SHELL. SHOULD SITEWORK BE COMPLETED PRIOR TO THIS DATE. MULCH DISTURBED AREAS TO BE PLANTED AND INSTALL STONE SUBBASE IN DISTURBED AREAS TO BE PAVED.
- 1.13. FOLLOWING COMPLETION OF BUILDING SHELL AND PAVEMENT INSTALLATION, BEGIN LANDSCAPE INSTALLATION.
- 1.14. COMPLETE SITEWORK, PAVEMENT MARKINGS AND FINAL CLEAN-UP. RESEED ANY AREAS THAT MAY REQUIRE ATTENTION IMMEDIATELY. NOTE THAT LAWN AREAS WILL NOT BE DEEMED STABLE UNTIL A MINIMUM 80% VEGETATIVE DENSITY HAS BEEN ACHIEVED.
- 1.15. MAINTAIN EROSION & SEDIMENTATION CONTROL MEASURES UNTIL THE SITE HAS BEEN COMPLETELY STABILIZED. ALL AREAS OF VEGETATIVE SURFACE, WHETHER PERMANENT OR TEMPORARY, SHALL BE CONSIDERED TO BE IN PLACE AND FUNCTIONAL WHEN THE REQUIRED UNIFORM RATE OF COVERAGE (80%) IS OBTAINED.
- 1.16. REMOVE SEDIMENT CONTROLS.

PROJECT DESCRIPTION

THIS SITE IS A VACANT LOT. THIS PROJECT INVOLVES CONSTRUCTION OF A NEW TACO BELL RESTAURANT WITH AN OUTDOOR SEATING AREA, DRIVE-THRU AND A PARKING LOT WITH 22 PARKING SPACES. THIS SITE IS AN UNDEVELOPED PORTION OF AN ALREADY DEVELOPED LAND. THIS SITE CURRENTLY DRAINS TO THE SOUTH OF THE PROPERTY. THE PROPOSED STORM SEWER WILL BE CONNECTED TO THE EXISTING STORM NETWORK ON THE SOUTHWEST CORNER PROPERTY. THE EXISTING STORM SYSTEM IS PART OF THE OVERALL PLANNED DEVELOPMENT (INCLUDING THIS SITE) AND DRAINS TO EXISTING STORM MANAGEMENT FACILITY DESIGNED FOR THIS DEVELOPMENT.

PROJECT COMPLETION STATISTICS

PARCEL SIZE:	1.249 ACRES
TOTAL DISTURBED AREA:	0.86 ACRES
EXISTING LAND USE FOR THE SITE IS VACANT LAND.	
ESTIMATED PRE-CONSTRUCTION IMPERVIOUS AREA:	0.06 ACRES
ESTIMATED PRE-CONSTRUCTION IMPERVIOUS PERCENT:	4.80%
PRE-CONSTRUCTION RUN-OFF COEFFICIENT:	0.38
PROPOSED LAND USE WILL BE A TACO BELL.	
ESTIMATED POST-CONSTRUCTION IMPERVIOUS AREA:	0.54 ACRES
ESTIMATED POST-CONSTRUCTION IMPERVIOUS PERCENT:	43.20%
POST-CONSTRUCTION RUN-OFF COEFFICIENT:	0.61

PROJECT LOCATION:

LATITUDE: 28.519841°
LONGITUDE: -81.729094°

EXISTING SITE SOIL TYPES:

CANDLER SAND, 0 TO 5 PERCENT AND 5 TO 12 PERCENT SLOPES.
REFERENCE: USDA NATIONAL RESOURCES CONSERVATION SERVICE WEB SOIL SURVEY.

WETLAND INFORMATION:

THERE ARE NO KNOWN WETLANDS FOUND ON THIS SITE.

FIRST AND SUBSEQUENT RECEIVING STREAM:

INITIAL RECEIVING WATER IS CITY STORM SEWER AND SUBSEQUENT RECEIVING WATER IS COUNTY STORMWATER POND # 7.

POST CONSTRUCTION WQ / BMP DESCRIPTION

A MASTER DETENTION SYSTEM WAS DESIGNED TO ACCOUNT FOR THE DEVELOPMENT OF THE TACO BELL PARCEL, WHICH IS IDENTIFIED AS A PARCEL NO. 7 IN THE SJRWMD PERMIT NO. 100690-3 AND IS ACCOUNTED FOR 61% IMPERVIOUS AREA. THE PROPOSED TACO BELL WILL PROVIDE 43.20% IMPERVIOUS AREA, WHICH WILL GENERATE LESS STORMWATER RUNOFF THAN ORIGINALLY ACCOUNTED FOR. HENCE, CAPACITY PROVIDED IN DETENTION SYSTEM IS SUFFICIENT FOR THE PROPOSED TACO BELL.

OWNER CONTACT:

STEVE PULCHEON
SENIOR MANAGER OF CONSTRUCTION
1 GLEN BELL WAY
IRVINE, CA 92618

ANTICIPATED TIMING:

CONSTRUCTION BEGIN: JUNE, 2022
CONSTRUCTION COMPLETE: NOVEMBER, 2022

CONTRACTOR: T.B.D.

CONTACT: _____
PHONE NUMBER: _____

CONTRACTOR SHALL MAINTAIN A CONSTRUCTION LOG DOCUMENTING ALL GRADING AND STABILIZATION ACTIVITIES.



DATE	REMARKS
05.13.22	NTP
05.19.22	ISSUED FOR BID

CONTRACT DATE: 01.17.22
BUILDING TYPE: END. 2.0
PLAN VERSION: JANUARY 2022
BRAND DESIGNER:
SITE NUMBER: 315420
STORE NUMBER: 457313
PA/PM: JN
DRAWN BY: EA
JOB NO.: 2021088.46

TACO BELL

HAMMOCK RIDGE & U.S. 27
CLERMONT, FL 34711



ENDEAVOR 2.0

SWPP PLAN

C-012



520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101



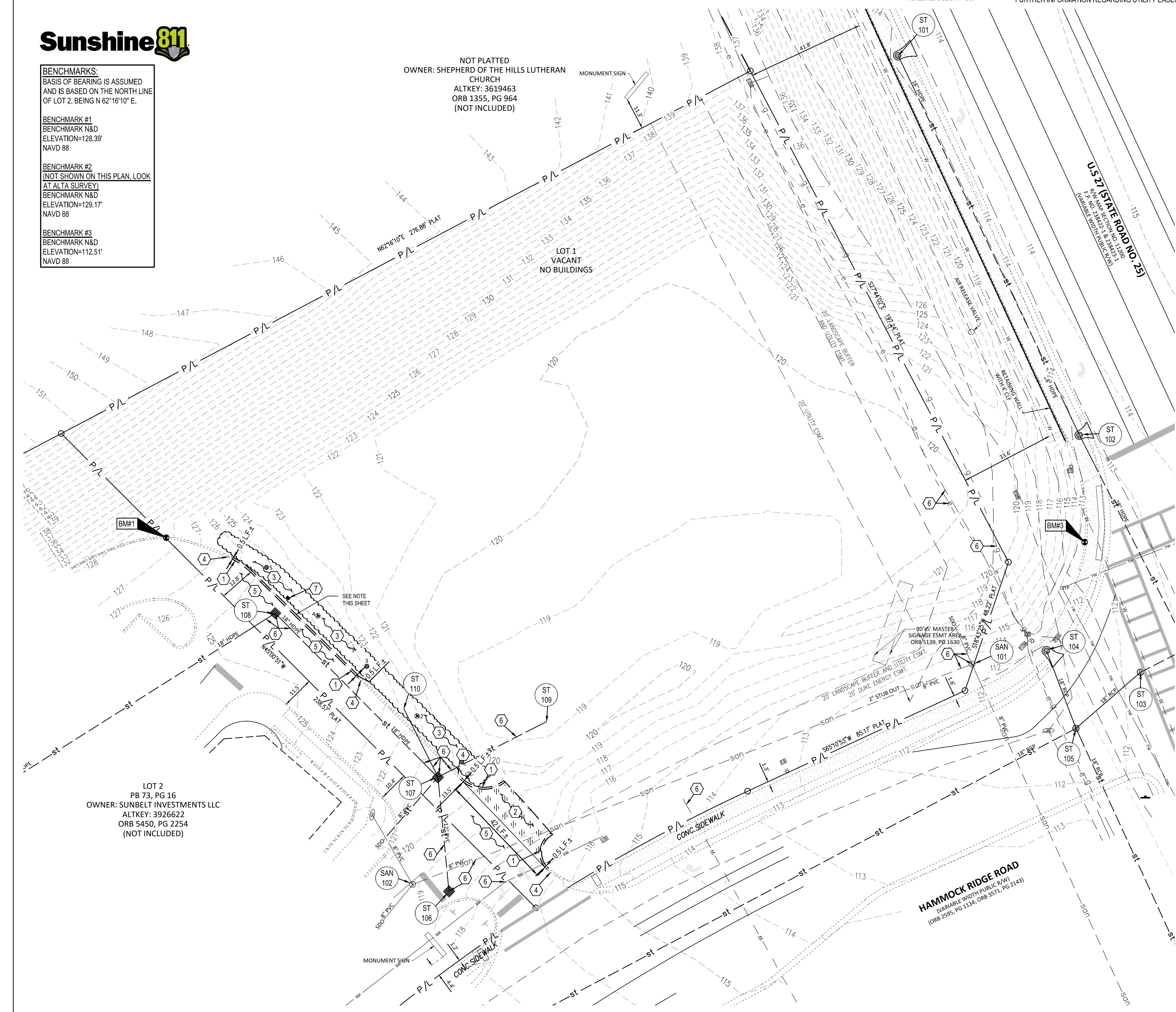
BENCHMARKS:
BASIS OF BEARING IS ASSUMED
AND IS BASED ON THE NORTH LINE
OF LOT 2, BEING N 62°16'10" E.

BENCHMARK #1
BENCHMARK N&D
ELEVATION=128.39'
NAVD 88

BENCHMARK #2
(NOT SHOWN ON THIS PLAN, LOOK
AT ALTA SURVEY)
BENCHMARK N&D
ELEVATION=129.17'
NAVD 88

BENCHMARK #3
BENCHMARK N&D
ELEVATION=112.51'
NAVD 88

NOT PLATTED
OWNER: SHEPHERD OF THE HILLS LUTHERAN
CHURCH
ALTKEY: 3619463
ORB 1355, PG 964
(NOT INCLUDED)



DEMOLITION NOTE:

ALL EXISTING SITE AND SURROUNDING FEATURES SUCH AS UTILITIES, PAVEMENT, CURB, LANDSCAPING, ETC. SHALL REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION UNLESS NOTED OTHERWISE, OR ARE REQUIRED TO BE MODIFIED OR REMOVED FOR THE INSTALLATION OF PROPOSED IMPROVEMENTS. ALL DISTURBED FEATURES SHALL BE RESTORED OR RELOCATED AS REQUIRED TO THE SATISFACTION OF THE OWNER. CONTRACTOR SHALL REPAIR/REPLACE ANY SURROUNDING FEATURES DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES AT NO ADDITIONAL COST AND TO THE SATISFACTION OF THE OWNER.

UTILITY EASEMENT NOTE:

FURTHER INFORMATION REGARDING UTILITY EASEMENTS CAN BE FOUND ON THE SURVEY.

GENERAL SHEET NOTES

1. PRIOR TO DEMOLITION OF UTILITIES, CONTRACTOR SHALL FIELD VERIFY THAT NO UPSTREAM OR DOWNSTREAM UTILITIES TO REMAIN ARE DEPENDENT OF SAID UTILITY TO BE REMOVED. CONTRACTOR SHALL CONTACT CONSTRUCTION MANAGER IF EXISTING UTILITIES TO REMAIN ARE FOUND DEPENDENT OF SAID REMOVALS.
2. CONTRACTOR SHALL ENSURE REMOVAL OF LIGHT POLE / SIGN / ETC. ELECTRICAL CONDUIT HAS NO AFFECT ON REMAINING OVERALL DEVELOPMENT LIGHTING / ELECTRICAL SERVICES TO REMAIN.
3. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE ELECTRIC UTILITY COMPANY. CONTRACTOR SHALL ENSURE THERE IS NO SERVICE INTERRUPTION TO NEIGHBORING PROPERTIES. CONTRACTOR SHALL PLACE PULL BOXES AS REQUIRED FOR TRANSFORMER REMOVALS / SPLICING / ETC. ALL WORK SHALL BE PER THE UTILITY COMPANY STANDARDS AND SPECIFICATIONS.
4. EXISTING UTILITY LOCATIONS SHOWN HEREIN FROM UTILITY PROVIDER RECORD PLANS AND SURVEY DRAWINGS. CONTRACTOR SHALL FIELD LOCATE ALL EXISTING FEATURES ASSOCIATED TO THE PROPOSED IMPROVEMENTS.

LEGEND

(SEE SHEET TS-001 FOR GENERAL LEGEND)

- EXISTING ASPHALT TO BE REMOVED (FULL DEPTH)
- DENOTES LIMITS OF SAWCUT
- DEMOLITION KEYNOTE
- APPURTENANCES

PLAN KEYNOTES (#)

1. EXISTING CURB TO BE REMOVED.
2. EXISTING ASPHALT PAVEMENT TO BE REMOVED (FULL DEPTH).
3. EXISTING LANDSCAPING TO BE REMOVED.
4. EXISTING CURB TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION.
5. EXISTING PAVEMENT TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION.
6. EXISTING UTILITIES TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION.
7. EXISTING MAILBOX TO BE RELOCATED, COORDINATE WITH OWNER/CONSTRUCTION MANAGER FOR NEW LOCATION.

NOTE:

CONTRACTOR SHALL KEEP 1.5" LIP IN EXISTING CURB WHILE MAKING A SAWCUT FOR PROPOSED DRIVE APRON.

STRICT. ID	STRUCTURE DETAILS
ST 101	EXISTING CURB INLET RIM=114.16 INV. 18" (SE)=110.86
ST 102	EXISTING CURB INLET RIM=113.81 INV. 18" (NW)=108.88 INV. 18" (SE)=108.81
ST 103	EXISTING STORM MANHOLE RIM=112.30 INV. 24" (NE)=100.30 INV. 18" (SW)=100.60
ST 104	EXISTING CURB INLET RIM=111.91 INV. 18" (SE)=105.16
ST 105	EXISTING STORM MANHOLE RIM=111.64 INV. NOT ACCESSIBLE
ST 106	EXISTING STORM INLET RIM=118.45 INV. 12" (N)=116.65
ST 107	EXISTING STORM INLET RIM=120.38 INV. 18" (NW)=117.28 INV. 8" (SW)=117.28 INV. 12" (S)=115.68 BOTTOM=105.97 (FROM ASBUILT DRAWINGS)
ST 108	EXISTING STORM INLET RIM=124.56 INV. 18" (SW)=120.91 INV. 18" (SE)=120.76
ST 109	EXISTING 24" STORM STUB INV.=106.27 (FROM ASBUILT DRAWINGS)
ST 110	EXISTING 24" STORM STUB INV.=106.21 (FROM ASBUILT DRAWINGS)

STRICT. ID	STRUCTURE DETAILS
SAN 101	EXISTING SANITARY MANHOLE RIM=112.31 INV. 8" (NW)=105.36 INV. 8" (SE)=104.64 INV. 8" (SW)=104.91
SAN 102	EXISTING SANITARY MANHOLE RIM=119.21 INV. 8" (NW)=114.62 INV. 8" (NE)=114.56 INV. 8" (SW)=114.71

DATE	REMARKS
05.13.22	NTP
05.19.22	ISSUED FOR BID

CONTRACT DATE: 01.17.22
BUILDING TYPE: END. 2.0
PLAN VERSION: JANUARY 2022
BRAND DESIGNER:
SITE NUMBER: 315420
STORE NUMBER: 457313
PA/PM: JN
DRAWN BY.: EA
JOB NO.: 2021088.46

TACO BELL

HAMMOCK RIDGE & U.S. 27
CLERMONT, FL 34711



ENDEAVOR 2.0

DEMOLITION
PLAN

C-101



FIRE FLOW CALCULATION CHART
PER CHAPTER 18 OF THE 2020 FFPC, 7TH EDITION

TYPE OF CONSTRUCTION	TYPE II B - UNPROTECTED
SQUARE FOOTAGE (INCLUDING EXTERIOR CANOPY)	2,385 SF +/-
REQUIRED FIRE FLOW PER 18.4.5.3.1 AND TABLE 18.4.5.2.1	1500 GPM; FLOW DURATION: 2 HOURS
NO. OF FIRE HYDRANTS REQUIRED	PER TABLE 18.5.4.3, EXISTING FIRE HYDRANT IN ROW ON HAMMOCK RIDGE RD. >250' and <=500', MEASURED IN ACCORDANCE WITH 18.2.3. CREDIT = 1000 GPM
NO. OF FIRE HYDRANTS PROVIDED	1
REQUIRED FIRE FLOW	500 GPM
PROVIDED FIRE FLOW	SEE HYDRAULIC MODELING REPORT



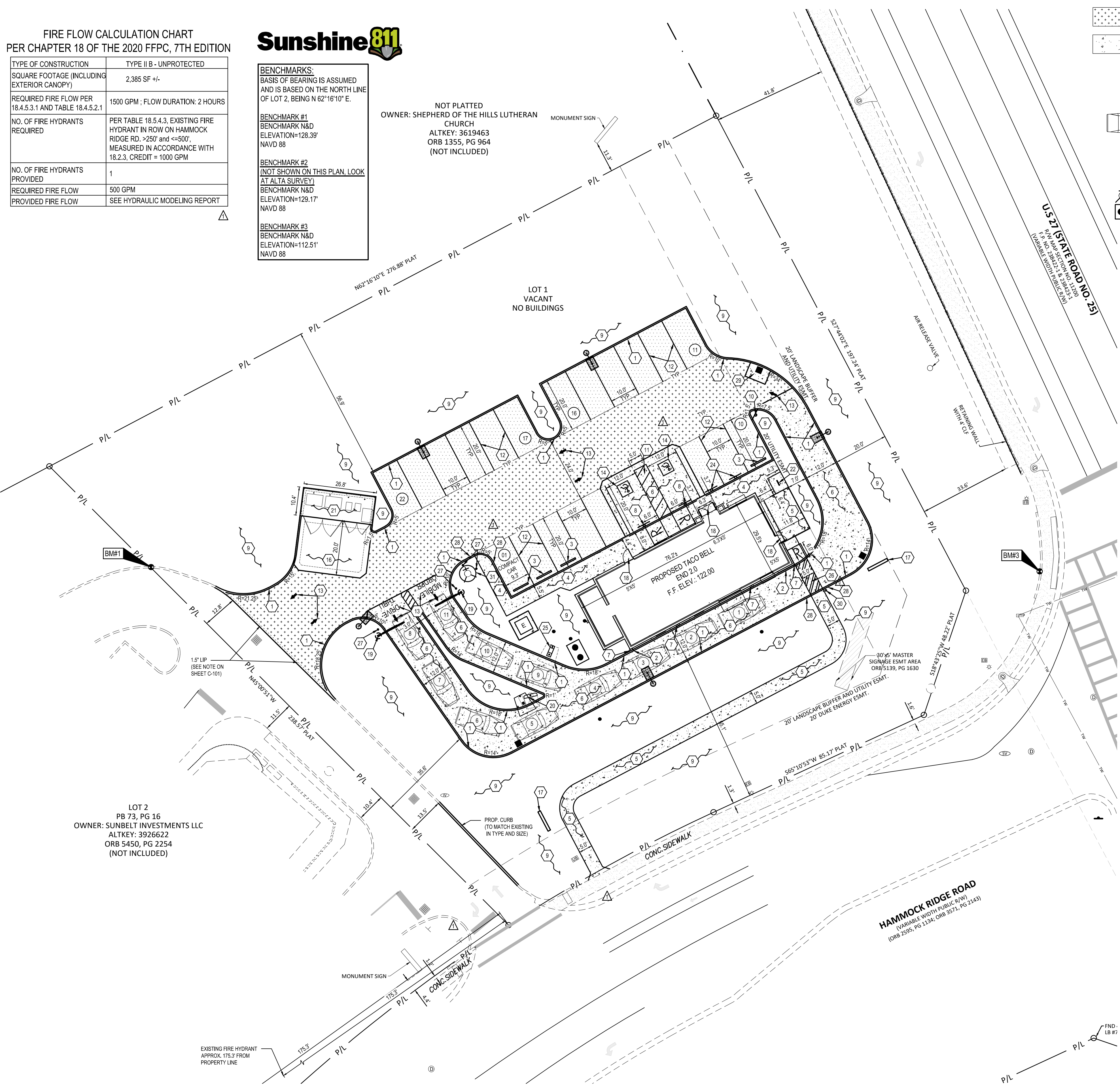
BENCHMARKS:
BASIS OF BEARING IS ASSUMED AND IS BASED ON THE NORTH LINE OF LOT 2, BEING N 62°16'10" E.

BENCHMARK #1
BENCHMARK N&D
ELEVATION=128.39'
NAVD 88

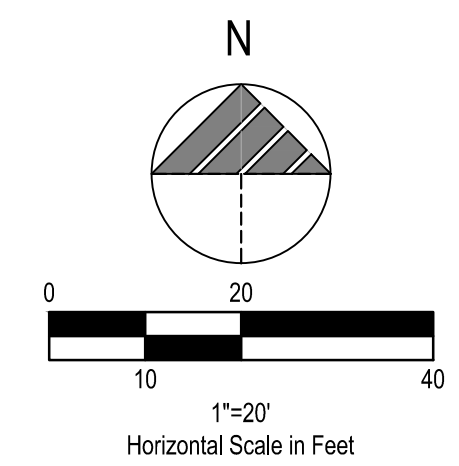
BENCHMARK #2
(NOT SHOWN ON THIS PLAN, LOOK AT ALTA SURVEY)
BENCHMARK N&D
ELEVATION=129.17'
NAVD 88

BENCHMARK #3
BENCHMARK N&D
ELEVATION=112.51'
NAVD 88

NOT PLATTED
OWNER: SHEPHERD OF THE HILLS LUTHERAN CHURCH
ALTKEY: 3619463
ORB 1355, PG 964
(NOT INCLUDED)



- LEGEND**
(SEE SHEET TS-001 FOR GENERAL LEGEND)
- PROPOSED LIGHT DUTY ASPHALT (SEE THIS SHEET AND C-502).
 - PROPOSED HEAVY DUTY ASPHALT (SEE THIS SHEET AND C-502).
 - PROPOSED CONCRETE
 - CONSTRUCTION KEYNOTE
 - PROPOSED PARKING SPACE COUNT
 - PROPOSED DRIVE THRU STACK CAR AND NUMBER
 - PROPOSED ADA ACCESSIBLE RAMP PER ADA SPECIFICATIONS (SEE SHEET C-502).
 - PROPOSED UTILITY STRUCTURES. REFER TO UTILITY PLAN FOR MORE INFORMATION.



PLAN KEYNOTES

- PROPOSED P.C.C. CURB. SEE SHEET C-501.
- PROPOSED CURB AT DRIVE THRU. SEE SHEET C-501.
- PROPOSED P.C.C. WHEEL STOP (COUNT 4). SEE SHEET C-501.
- PROPOSED P.C.C. CURBED WALK. SEE SHEET C-501.
- PROPOSED P.C.C. WALK. SEE SHEET C-501.
- PROPOSED LIGHT DUTY 6" P.C.C. PAVEMENT W/ W.W.F. 6" x 6" W2.9 x W2.9 (CONTROL JTS. 12'-0" O.C.) OVER GRADED AGGREGATE BASE. APPLY LIQUID ASPHALT AT ALL JOINTS BETWEEN CONCRETE AND ASPHALT.
- PROPOSED DETERRENT BOLLARD IN CURB. SEE SHEET C-501.
- PROPOSED HANDICAPPED PARKING SIGN. SEE SHEET C-501.
- PROPOSED LANDSCAPING AREA. SOD ALL DISTURBED AREAS EXCEPT WHERE PLANTING BEDS ARE INDICATED. SEE LANDSCAPE PLANS.
- PROPOSED 'DO NOT ENTER' SIGN PER FDOT STANDARDS AND SHEET C-501.
- PROPOSED PAINTED TRANSVERSE STRIPING. SEE SHEET C-505.
- PROPOSED PAINTED 4" WIDE SOLID STRIPE - WHITE ON ASPHALT, YELLOW ON CONCRETE.
- PROPOSED DIRECTIONAL PAVEMENT MARKINGS - WHITE ON ASPHALT, YELLOW ON CONCRETE. BLUE FOR ADA - PER FDOT STANDARDS AND SHEET C-505.
- PROPOSED PAINTED INTERNATIONAL ADA SYMBOL PER ADA SPECIFICATIONS AND SHEET C-505.
- PROPOSED LIGHT POLE AND FOUNDATION. SEE STRUCTURAL AND ELECTRICAL DRAWINGS FOR SPECIFICATIONS.
- PROPOSED HEAVY DUTY 8" P.C.C. PAVEMENT W/ W.W.F. 6" x 6" W2.9 x W2.9 (CONTROL JTS. 12'-0" O.C.) OVER GRADED AGGREGATE BASE. APPLY LIQUID ASPHALT AT ALL JOINTS BETWEEN CONCRETE AND ASPHALT.
- PROPOSED MONUMENT SIGN PER SIGN SUPPLIER SPECIFICATIONS. SIGN SUPPLIER SHALL DESIGN AND INSTALL FOUNDATION.
- PROPOSED FROST SLAB AT DOOR. SEE THIS SHEET FOR SIZE AND STRUCTURAL DRAWINGS FOR DETAIL.
- PROPOSED EVOLUTION PORTAL CLEARANCE BAR. SEE SHEET C-503.
- PROPOSED MENU BOARD AND ORDER CONFIRMATION BOARD PER SIGN SUPPLIER SPECIFICATIONS. SEE SHEET C-503.
- PROPOSED DUMPSTER ENCLOSURE ON P.C.C. PAD. REFER TO ARCHITECTURAL PLANS FOR MORE INFORMATION.
- PROPOSED BIKE RACK. SEE SHEET C-501.
- PROPOSED CONCRETE COLLAR. SEE SHEET C-502.
- PROPOSED 'MOBILE PICK UP' PARKING SIGNS IN BOLLARD. CONTRACTOR TO INSTALL SIGN POST AND BOLLARD PER THE HANDICAPPED PARKING SIGN DETAIL. SIGN TO BE PROVIDED BY SIGN VENDOR.
- SIGN SUPPLIER SHALL PROVIDE SHALLOW FOUNDATION DESIGN FOR PROPOSED SPEAKER POST AND CANOPY PER SIGN SUPPLIER SPECIFICATIONS AND SHEET C-503. SIGN SUPPLIER TO PROVIDE A TEMPLATE FOR G.C. TO COORDINATE A MEETING WITH THE CONSTRUCTION/PROJECT MANAGER AND OPERATIONS TO VERIFY LOCATION AND PLACEMENT OF SPEAKER POST AND CANOPY PRIOR TO ANY CONSTRUCTION. SIGN SUPPLIER SHALL PROVIDE G.C. WITH FOUNDATION DETAILS. G.C. IS RESPONSIBLE FOR SIGN FOUNDATIONS/ELECTRICAL. CONTRACTOR SHALL FIELD LOCATE AND VERIFY DEPTH AND LOCATION OF EXISTING STORM SEWER AS TO NOT DISTURB EXISTING STORM SEWER.
- PROPOSED CROSSWALK STRIPING, PER FDOT STANDARDS.
- PROPOSED DETERRENT BOLLARD. SEE SHEET C-501.
- PROPOSED CURB TAPER. SEE SHEET C-501.
- PROPOSED CONCRETE COLLAR. SEE SHEET C-502.
- PROPOSED POLE MOUNTED SAFETY AND SECURITY MIRROR.
- MAINTAIN CLEARANCES 36" CIRCUMFERENCE AROUND THE FIRE HYDRANT WITH CLEAR ACCESS TO THE FRONT, WITH NO LANDSCAPING MATERIAL ALLOWED WITHIN THIS AREA.

ASPHALT PAVEMENT

MATERIAL	DEPTH (HVY. DUTY)	DEPTH (STD. DUTY)
ASPHALT TYPE SP	6"	3"
BASE COURSE LIMEROCK (LBR=100) COMPACTED TO 98%	6"	6"
SUBGRADE COMPACTION	PER SOILS REPORT	PER SOILS REPORT

SOILS REPORT GOVERNS IF ANY DISCREPANCIES OCCUR. SEE TYPICAL SECTION SHEET C-502.

PARKING CALCULATIONS

NUMBER OF SPACES	REQUIRED	PROVIDED
	17	22

PARKING REQUIREMENTS
1 SPACE FOR EACH 4 SEATS, PLUS 1 SPACE FOR EACH 475 S.F. OF FLOOR AREA THEREFORE: (30 / 4) + (675 / 475) = 17 SPACES REQUIRED.

PARKING CALCULATIONS NOTE:
PARKING CALCULATIONS BASED UPON SEATING CAPACITY OF INDOOR AND OUTDOOR SEATING AREAS.

BUILDING SETBACKS

	REQUIRED	PROVIDED
FRONT: HAMMOCK RIDGE ROAD	25'	67.1'
REAR: NORTH	25'	125.9'
SIDE: EAST (U.S. 27)	50'	50.8'
SIDE: WEST	12'	96.2'

PARKING SETBACKS

	REQUIRED	PROVIDED
FRONT: HAMMOCK RIDGE ROAD	5'	55.1'
REAR: NORTH	5'	56.9'
SIDE: EAST (U.S. 27)	5'	20'
SIDE: WEST	5'	35.6'

LANDSCAPE SETBACKS

	REQUIRED	PROVIDED
FRONT: HAMMOCK RIDGE ROAD	20'	55.1'
REAR: NORTH	5'	56.9'
SIDE: EAST (U.S. 27)	20'	20'
SIDE: WEST	5'	35.6'

LAND USE DATA

	% OF SITE AREA	AREA PROVIDED
BUILDING	4.64%	0.058 AC.
PAVEMENT/IMPERVIOUS	38.59%	0.482 AC.
LANDSCAPING	56.77%	0.709 AC.
TOTAL	100%	1.249 AC.

CURRENT ZONING: PUD

DATE	REMARKS
02.18.21	SITE PLAN REVIEW 1 COMMENTS
05.13.22	NTP
05.19.22	ISSUED FOR BID

CONTRACT DATE: 01.17.22
BUILDING TYPE: END. 2.0
PLAN VERSION: JANUARY 2022
BRAND DESIGNER:
SITE NUMBER: 315420
STORE NUMBER: 457313
PA/PM: JN
DRAWN BY: EA
JOB NO.: 2021088.46

TACO BELL

HAMMOCK RIDGE & U.S. 27
CLERMONT, FL 34711



ENDEAVOR 2.0

SITE PLAN

C-111

PLOT DATE: 01/17/2022 10:08:35 AM

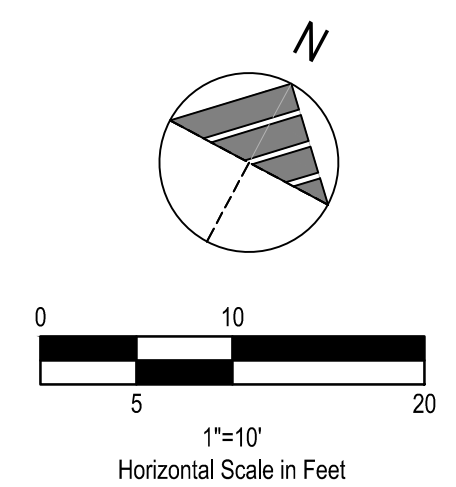


BENCHMARKS:
 BASIS OF BEARING IS ASSUMED AND IS BASED ON THE NORTH LINE OF LOT 2, BEING N 62°16'10" E.

BENCHMARK #1
 BENCHMARK N&D
 ELEVATION=128.39'
 NAVD 88

BENCHMARK #2
 (NOT SHOWN ON THIS PLAN, LOOK AT ALTA SURVEY)
 BENCHMARK N&D
 ELEVATION=129.17'
 NAVD 88

BENCHMARK #3
 BENCHMARK N&D
 ELEVATION=112.51'
 NAVD 88



- LEGEND**
 (SEE SHEET TS-001 FOR GENERAL LEGEND)
- 000 PROPOSED CONTOUR
 - XXX.XX± EXISTING SPOT ELEVATION/ MATCH EXISTING GRADE
 - T=XXX.XX±
B=XXX.XX± EXISTING TOP OF CURB/MATCH EXISTING ELEVATION
BOTTOM OF CURB/MATCH EXISTING ELEVATION
 - XXX.XX± PROPOSED ELEVATION @ FINISHED GROUND ELEVATION
 - T=XXX.XX±
B=XXX.XX± PROPOSED TOP OF CURB ELEVATION
BOTTOM OF CURB/FINISHED PAVEMENT ELEVATION
 - RIM=XXX.XX± RIM ELEVATION OF PROPOSED STRUCTURE
 - 0.0% PROPOSED DRAINAGE SLOPE & DIRECTION
 - EMERGENCY OVERLAND FLOW ROUTE
 - LIMITS OF ADA ROUTING

ACCESSIBILITY NOTE:
 SITE SHALL COMPLY WITH THE FLORIDA BUILDING CODE 7TH EDITION (2020) ACCESSIBILITY.



U.S. 27 (STATE ROAD NO. 25)
 R/W MAP SECTION NO. 1300
 (N&D NO. 28822-1 & 28823-1)
 (VARIABLE WIDTH PUBLIC R/W)



DATE	REMARKS
02.18.21	SITE PLAN REVIEW 1 COMMENTS
05.13.22	NTP
05.19.22	ISSUED FOR BID

CONTRACT DATE: 01.17.22
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TACO BELL
 HAMMOCK RIDGE & U.S. 27
 CLERMONT, FL 34711

TACO BELL
 ENDEAVOR 2.0
 GRADING PLAN
C-121

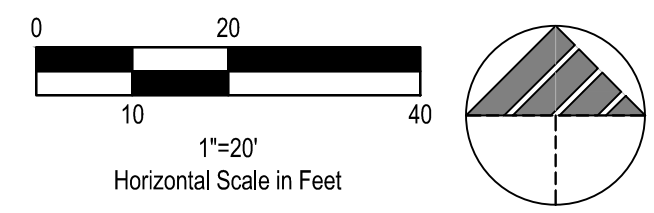


BENCHMARKS:
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(NOT SHOWN ON THIS PLAN, LOOK AT ALTA SURVEY)
BENCHMARK N&D
ELEVATION=129.17'
NAVD 88

BENCHMARK #3
BENCHMARK N&D
ELEVATION=112.51'
NAVD 88



LEGEND
(SEE SHEET TS-001 FOR GENERAL LEGEND)

	PROPOSED STORM SEWER (LARGER THAN 12")
	PROPOSED STORM SEWER (12" AND SMALLER)
	PROPOSED SANITARY SEWER
	PROPOSED WATER FIRE / SERVICE LINE
	PROPOSED GAS SERVICE
	PROPOSED UNDERGROUND ELECTRIC SERVICE
	PROPOSED UNDERGROUND TELEPHONE SERVICE
	APPURTENANCES
	UTILITY CONSTRUCTION KEYNOTE

PROPOSED STRUCTURES

STRUCT. ID	STRUCTURE DETAILS
CB 1	PROPOSED 3'X3' CATCH BASIN (SEE SHEET C-502) *4" FINGER DRAIN (NW,SW) RIM=120.38 INV. 18" (SE)=115.65
CB 2	PROPOSED 3'X3' CATCH BASIN (SEE SHEET C-502) *4" FINGER DRAIN (NW,SW) RIM=120.54 INV. 18" (NW,SW)=112.53
CB 3	PROPOSED 3'X3' CATCH BASIN (SEE SHEET C-502) *4" FINGER DRAIN (NW,SW) RIM=122.33 INV. 18" (NE)=106.77 EX. INV. STUB 24" (SW) @ 106.27 (ASBUILT)

* FINGER DRAIN INVERT SHALL MATCH THE BOTTOM OF THE PAVEMENT AGGREGATE BASE

EXISTING STORMSTRUCTURES

STRUCT. ID	STRUCTURE DETAILS
ST 101	EXISTING CURB INLET RIM=114.16 INV. 18" (SE)=110.86
ST 102	EXISTING CURB INLET RIM=113.81 INV. 18" (NW)=108.88 INV. 18" (SE)=108.81
ST 103	EXISTING STORM MANHOLE RIM=112.30 INV. 24" (NE)=100.30 INV. 18" (SW)=100.60
ST 104	EXISTING CURB INLET RIM=111.91 INV. 18" (SE)=105.16
ST 105	EXISTING STORM MANHOLE RIM=111.64 INV. NOT ACCESSIBLE
ST 106	EXISTING STORM INLET RIM=118.45 INV. 12" (N)=116.65
ST 107	EXISTING STORM INLET RIM=120.38 INV. 18" (NW)=117.28 INV. 8" (SW)=115.68 BOTTOM=105.97 (FROM ASBUILT DRAWINGS)
ST 108	EXISTING STORM INLET RIM=124.56 INV. 18" (SW)=120.91 INV. 18" (SE)=120.76
ST 109	EXISTING 24" STORM STUB INV.=106.27 (FROM ASBUILT DRAWINGS)
ST 110	EXISTING 24" STORM STUB INV.=106.21 (FROM ASBUILT DRAWINGS)

EXISTING SANITARY STRUCTURES

STRUCT. ID	STRUCTURE DETAILS
SAN 101	EXISTING SANITARY MANHOLE RIM=112.31 INV. 8" (NW)=105.36 * SEE KEYNOTE # 214 FOR INV. 8" (SE)=104.84 * PROPOSED CONNECTION INV. 8" (SW)=104.91 * INFORMATION
SAN 102	EXISTING SANITARY MANHOLE RIM=119.21 INV. 8" (NW)=114.62 INV. 8" (NE)=114.56 INV. 8" (SW)=114.71

PLAN KEYNOTES

STORM

- 100. PROPOSED 10 L.F. OF 6" (PVC) SDR 35 @ 1.00%.
- 101. PROPOSED 28 L.F. OF 6" (PVC) SDR 35 @ 2.00%.
- 102. PROPOSED 144 L.F. OF 18" (HDPE) STORM SEWER @ 4.00%.
- 103. PROPOSED 78 L.F. OF 18" (HDPE) STORM SEWER @ 4.00%.
- 104. PROPOSED 4" FINGER DRAIN, SEE DETAIL, SHEET C-502.
- 105. PROPOSED STORM CLEANOUT AND WYE CONNECTION, SEE DETAIL, SHEET C-502. RIM= 122.38, 6" INV.=118.59.

SANITARY

- 200. PROPOSED SANITARY CONNECTION - GREASE LINE. CONTRACTOR SHALL PROVIDE FITTINGS AS REQUIRED TO CONNECT 6" LATERAL OUTSIDE OF BUILDING. 6" INV.=116.00
- 201. PROPOSED SANITARY CONNECTION - WASTE LINE. CONTRACTOR SHALL PROVIDE FITTINGS AS REQUIRED TO 6" LATERAL OUTSIDE OF BUILDING. 6" INV.=116.00.
- 202. PROPOSED 14 L.F. OF 6" (PVC) SDR 26 SANITARY SEWER @ 1.00%.
- 203. PROPOSED SANITARY CLEANOUT, SEE SHEET C-504, AND WYE CONNECTION, SEE SHEET C-504. RIM= 122.90, 6" INV.=115.86.
- 204. PROPOSED 9 L.F. OF 6" (PVC) SDR 26 SANITARY SEWER @ 1.00%.
- 205. PROPOSED SANITARY CLEANOUT, SEE SHEET C-504, AND WYE CONNECTION, SEE SHEET C-504. RIM= 122.65, 6" INV.=115.91.
- 206. PROPOSED 1000 GALLON EXTERIOR GREASE INTERCEPTOR, SEE SHEET C-502. RIM= 122.50, 6" INV.(NW)=115.89, 6" INV.(SE)=115.64.
- 207. PROPOSED 9 L.F. OF 6" (PVC) SDR 26 SANITARY SEWER @ 1.00%.
- 208. PROPOSED 16 L.F. OF 3" PVC SANITARY VENT FROM GREASE INTERCEPTOR. COORDINATE EXACT LOCATION WITH PLUMBING PLANS.
- 209. PROPOSED 37 L.F. OF 6" (PVC) SDR 26 SANITARY SEWER @ 1.50%.
- 210. PROPOSED SANITARY CLEANOUT, SEE SHEET C-504, AND WYE CONNECTION, SEE SHEET C-504. RIM= 121.35, 8" INV.=115.30.
- 211. PROPOSED 68 L.F. OF 6" (PVC) SDR 26 SANITARY SEWER @ 6.00%.
- 212. PROPOSED SANITARY CLEANOUT, SEE SHEET C-504, AND WYE CONNECTION, SEE SHEET C-504. RIM= 121.60, 6" INV.=111.22.
- 213. PROPOSED 66 L.F. OF 6" (PVC) SDR 26 SANITARY SEWER @ 6.00%.
- 214. PROPOSED OUTSIDE DROP CONNECTION TO EXISTING SANITARY MANHOLE, SEE SHEET C-504. 6" INV. (OUTSIDE)=107.26, INSIDE INV. = 105.00. CONTRACTOR SHALL FIELD VERIFY LOCATION, ELEVATION, AND CONDITION OF EXISTING SANITARY MANHOLE PRIOR TO START OF ANY WORK AND NOTIFY THE CONSTRUCTION MANAGER IMMEDIATELY IF THERE IS AN ISSUE MAINTAINING POSITIVE DRAINAGE.

WATER

- 300. PROPOSED BUILDING WATER CONNECTION. COORDINATE WITH PLUMBING PLANS.
- 301. PROPOSED 123 L.F. 1-1/2" AWWA C901.88, MIN. PSI 200 WATER SERVICE LINE.
- 302. PROPOSED DOMESTIC WATER METER AND BACKFLOW PREVENTOR PER UTILITIES INC. STANDARDS AND SPECIFICATIONS. BACKFLOW PREVENTOR SHALL BE LOCATED AFTER THE METER.
- 303. PROPOSED 6 L.F. 1" AWWA C901.88, MIN. PSI 200 IRRIGATION LINE.
- 304. PROPOSED IRRIGATION METER AND BACKFLOW PREVENTOR PER UTILITIES INC. STANDARDS AND SPECIFICATIONS. BACKFLOW PREVENTOR SHALL BE LOCATED AFTER THE METER. PROPOSED CONNECTION TO EXISTING WATER LINE STUB. CONTRACTOR SHALL FIELD VERIFY CONDITION OF EXISTING STUB PRIOR TO ANY CONSTRUCTION. COORDINATE ALL WORK WITH THE UTILITY COMPANY.
- 306. PROPOSED TAP TO EXISTING 8" WATER LINE.
- 307. PROPOSED 30 L.F. 8" ANS/AWWA C-900 WATER LINE.
- 308. PROPOSED 45" BEND.
- 309. PROPOSED 39 L.F. 8" ANS/AWWA C-900 WATER LINE.
- 310. PROPOSED 45" BEND.
- 311. PROPOSED 30 L.F. 8" ANS/AWWA C-900 WATER LINE.
- 312. PROPOSED 45" BEND.
- 313. PROPOSED 17 L.F. 8" ANS/AWWA C-900 WATER LINE.
- 314. PROPOSED 45" BEND.
- 315. PROPOSED 12 L.F. 8" ANS/AWWA C-900 WATER LINE.
- 316. PROPOSED FIRE HYDRANT PER UTILITIES INC. STANDARDS AND SPECIFICATIONS. SEE SHEET C-505.

WATER NOTES:

- 1. SEE DETAILS SHEET C-505 AND C-506 FOR ALL WATER MAIN NOTES AND DETAILS.
- 2. ALL WORK SHALL BE PER UTILITIES INC. STANDARDS AND SPECIFICATIONS.
- 3. COORDINATE ALL WORK WITH UTILITY COMPANY.
- 4. ALL WATER LINE WORK SHALL HAVE MINIMUM 36" COVER FROM TOP OF PIPE TO FINISHED GRADE.

ELECTRIC AND COMMUNICATIONS

- 400. PROPOSED ELECTRIC METER PER ELECTRIC COMPANY SPECIFICATIONS. SEE BUILDING DRAWINGS FOR EXACT LOCATION. ELECTRIC SERVICE LINE TO BE COORDINATED WITH THE ELECTRIC COMPANY.
- 401. PROPOSED ELECTRIC AND TELECOMMUNICATIONS SERVICE CONNECTION TO BE COORDINATED WITH THE UTILITY COMPANIES.
- 402. PROPOSED LIGHT POLE. SEE ELECTRICAL DRAWINGS FOR SPECIFICATIONS.
- 403. PROPOSED PAD MOUNTED ELECTRICAL TRANSFORMER PER ELECTRICAL COMPANY SPECIFICATIONS. G.C. TO VERIFY EXACT LOCATION AND SIZE WITH UTILITY ENGINEER.
- 404. PROPOSED CONNECTION TO EXISTING ELECTRIC SERVICE. COORDINATE ALL WORK WITH THE UTILITY COMPANY. CONTRACTOR TO ADJUST EXISTING ELECTRIC BOX TO PROPOSED GRADES. CONTRACTOR TO KEEP EXISTING FIBER OPTIC STUB EXPOSED DURING CONSTRUCTION.
- 405. CONTRACTOR TO KEEP EXISTING FIBER OPTIC STUB EXPOSED DURING CONSTRUCTION.

GAS

- 500. PROPOSED GAS METER PER GAS COMPANY SPECIFICATIONS. SEE BUILDING DRAWINGS FOR EXACT LOCATION. GAS SERVICE LINE TO BE COORDINATED WITH THE GAS COMPANY.
- 501. PROPOSED 136 L.F. GAS SERVICE CONNECTION TO BE COORDINATED WITH THE GAS COMPANY. CONTRACTOR SHALL REPAIR AND RESTORE ALL DISTURBED AREAS IN ACCORDANCE WITH LOCAL AND OWNER REQUIREMENTS.
- 502. PROPOSED CONNECTION TO EXISTING GAS MAIN PER GAS COMPANY STANDARDS AND SPECIFICATIONS. COORDINATE ALL WORK WITH WITH THE UTILITY COMPANY.

UTILITY CROSSINGS

- 600. GENERAL UTILITY CROSSING - CONTRACTOR SHALL COORDINATE ALL CROSSINGS WITH THE UTILITY COMPANIES. PRESSURIZED AND DRY UTILITIES SHALL DEFLECT TO MAINTAIN 18" CLEARANCE MINIMUM AT SANITARY OR STORM SEWER CROSSINGS. FOR CLEARANCE BETWEEN PIPES OF LESS THAN 18", THE CONTRACTOR SHALL PROVIDE CONCRETE ENCASEMENT PER SHEET C-503.
- 601. PROPOSED UTILITY CROSSING:
6" PVC STORM INV.=118.23
6" PVC SANITARY INV.=115.98
- 602. PROPOSED UTILITY CROSSING:
PROPOSED 18" STORM INV.=108.00
6" PVC SANITARY INV.=115.40

DATE	REMARKS
02.18.21	SITE PLAN REVIEW 1 COMMENTS
05.13.22	NTP
05.19.22	ISSUED FOR BID

CONTRACT DATE: 01.17.22
BUILDING TYPE: END. 2.0
PLAN VERSION: JANUARY 2022
BRAND DESIGNER:
SITE NUMBER: 315420
STORE NUMBER: 457313
PA/PM: JN
DRAWN BY: EA
JOB NO.: 2021088.46

TACO BELL

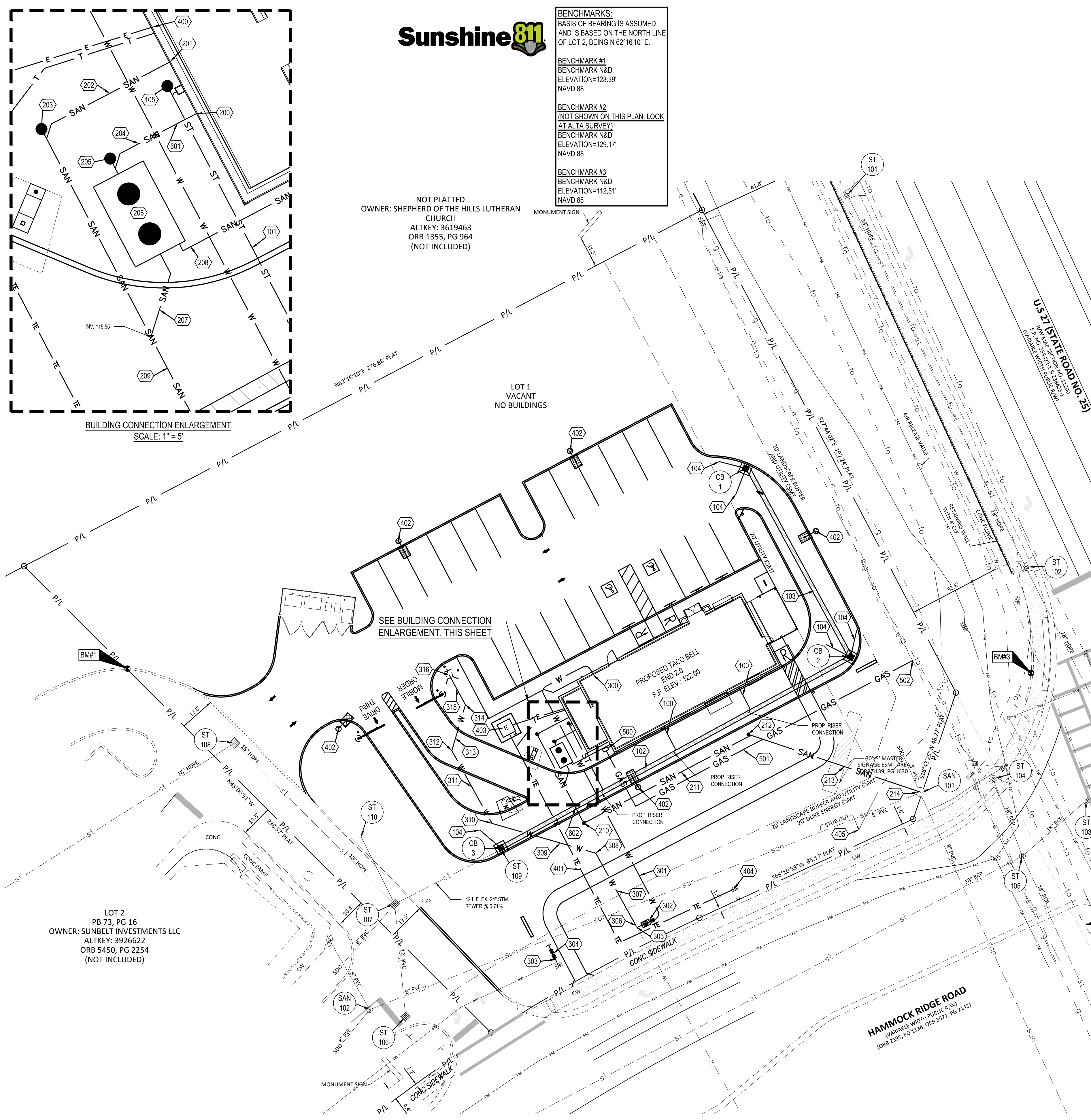
HAMMOCK RIDGE & U.S. 27
CLERMONT, FL 34711



ENDEAVOR 2.0

UTILITY PLAN

C-131



NOT PLATTED
OWNER: SHEPHERD OF THE HILLS LUTHERAN CHURCH
ALTKEY: 3619463
ORB 1355, PG 964
(NOT INCLUDED)

SEE BUILDING CONNECTION ENLARGEMENT, THIS SHEET

LOT 2
PB 73, PG 16
OWNER: SUNBELT INVESTMENTS LLC
ALTKEY: 3926622
ORB 5450, PG 2254
(NOT INCLUDED)

HAMMOCK RIDGE ROAD
(VARIABLE WIDTH PUBLIC R/W)
(ORB 2099, PG 1134 ORB 5971, PG 2149)

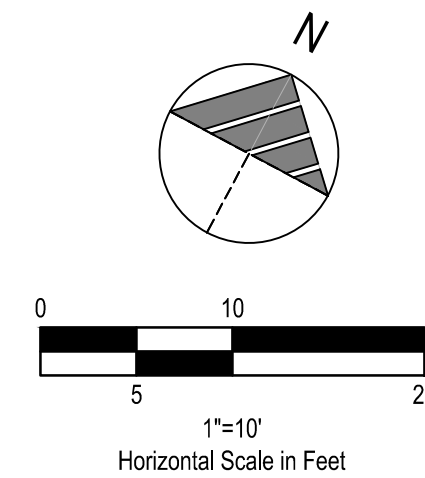


BENCHMARKS:
BASIS OF BEARING IS ASSUMED
AND IS BASED ON THE NORTH LINE
OF LOT 2, BEING N 62°16'10" E.

BENCHMARK #1
BENCHMARK N&D
ELEVATION=128.39'
NAVD 88

BENCHMARK #2
(NOT SHOWN ON THIS PLAN, LOOK
AT ALTA SURVEY)
BENCHMARK N&D
ELEVATION=129.17'
NAVD 88

BENCHMARK #3
BENCHMARK N&D
ELEVATION=112.51'
NAVD 88

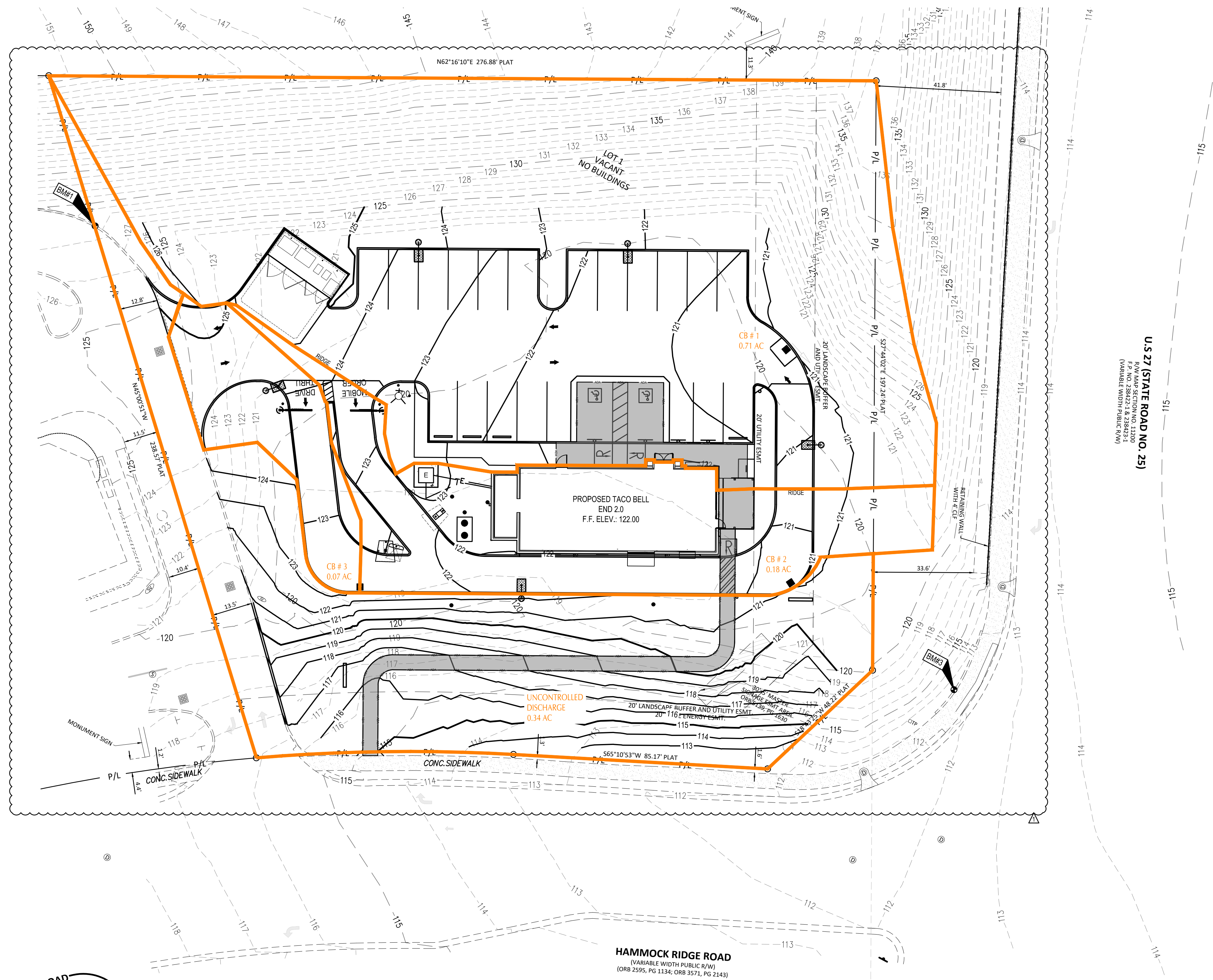


LEGEND
(SEE SHEET C-001 FOR GENERAL LEGEND)

- PROPOSED CONTOUR
- EXISTING CONTOUR
- DRAINAGE AREAS TO CATCH BASINS
- LIMITS OF ADA ROUTING

GPD GROUP, INC.
LIC. # - 30920

520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101



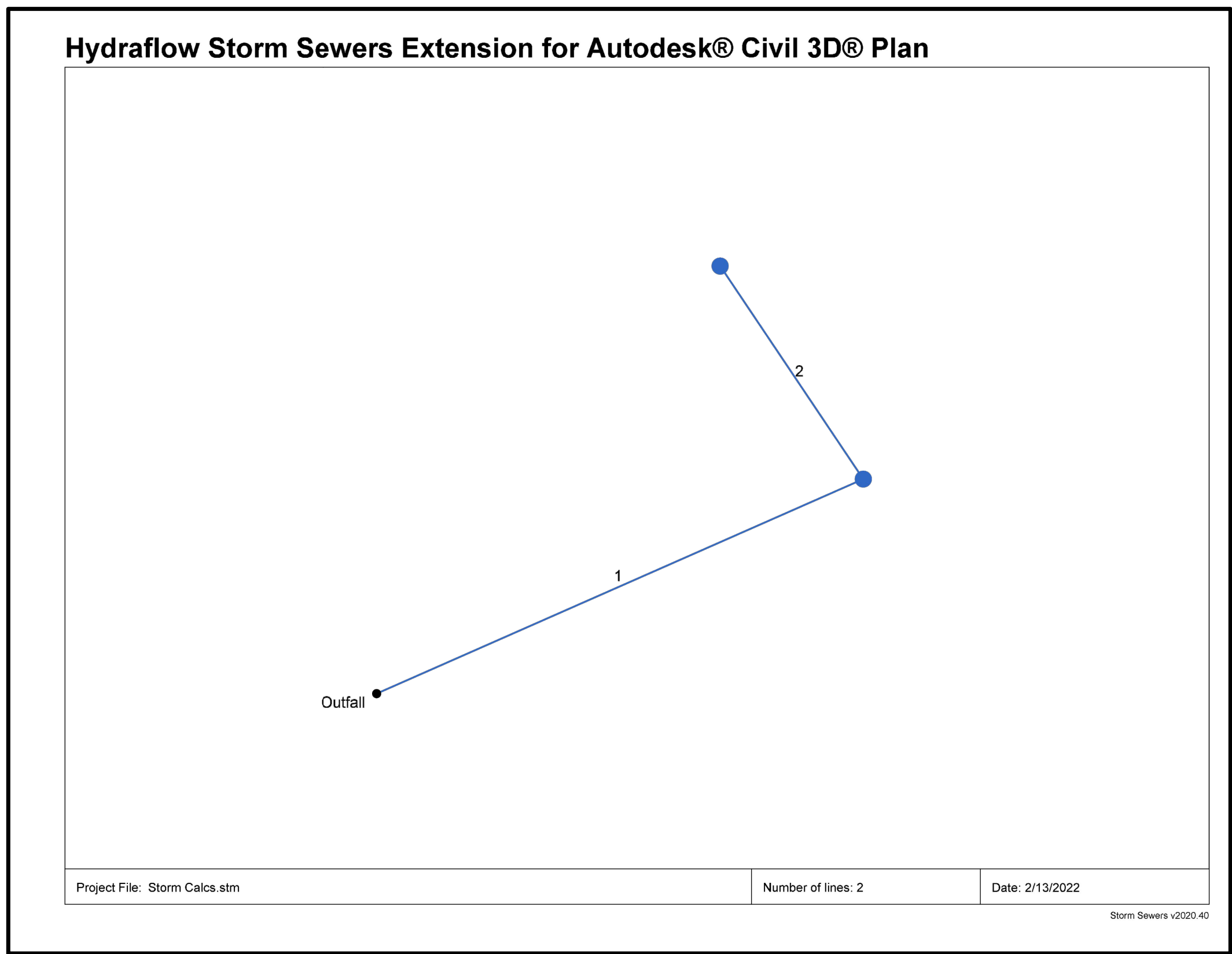
DATE	REMARKS
02.18.21	SITE PLAN REVIEW 1 COMMENTS
05.13.22	NTP
05.19.22	ISSUED FOR BID

CONTRACT DATE: 01.17.22
BUILDING TYPE: END. 2.0
PLAN VERSION: JANUARY 2022
BRAND DESIGNER:
SITE NUMBER: 315420
STORE NUMBER: 457313
PA/PM: JN
DRAWN BY.: EA
JOB NO.: 2021088.46

TACO BELL
HAMMOCK RIDGE & U.S. 27
CLERMONT, FL 34711

ENDEAVOR 2.0
CATCH BASIN
DRAINAGE AREA
MAP

C-132



Storm Sewer Tabulation Page 1

Station	Line	To Line	Drng Area			Rnoff coeff	Area x C		Tc		Rain (l)	Total flow	Cap full	Vel	Pipe		Invert Elev				HGL Elev		Grnd / Rim Elev		Line ID
			Len (ft)	Incr (ac)	Total (ac)		Incr	Total	Inlet (min)	Syst (min)					Size (in)	Slope (%)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)			
2	1	End	78.000	0.71	0.71	0.90	0.64	0.64	10.0	10.0	7.5	4.80	22.75	4.41	18	4.00	112.53	115.65	113.47	116.49	120.54	120.38	120.54	120.54	

Project File: Storm Calcs.stm Number of lines: 2 Run Date: 2/13/2022

NOTES: Intensity = 88.95 / (Inlet time + 15.20) ^ 0.77; Return period = Yrs. 10 ; c = cir e = ellip b = box

Storm Sewers v2020.40

NOTE: CAPACITY OF EXISTING 24" STORM SEWER (42 L.F. @ 0.71%) IS CHECKED AND THE PIPE IS SUFFICIENT TO CARRY ALL STORMWATER RUNOFF FROM THIS SITE UNDER PROPOSED CONDITIONS.

DATE	REMARKS
02.18.21	SITE PLAN REVIEW 1 COMMENTS
05.13.22	NTP
05.19.22	ISSUED FOR BID

CONTRACT DATE: 01.17.22
 BUILDING TYPE: END. 2.0
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 BRAND DESIGNER:
 SITE NUMBER: 315420
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 PA/PM: JN
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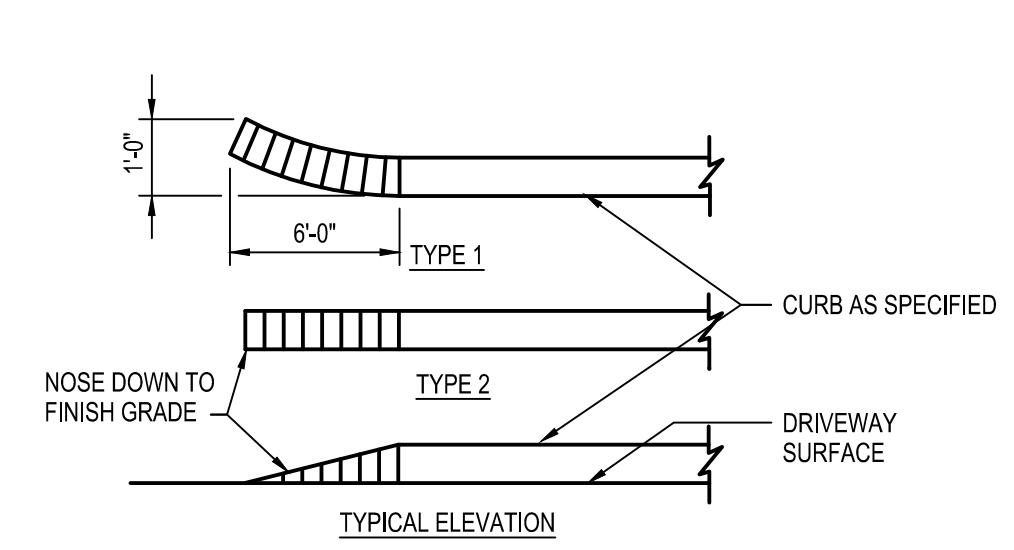
TACO BELL

HAMMOCK RIDGE & U.S. 27
CLERMONT, FL 34711

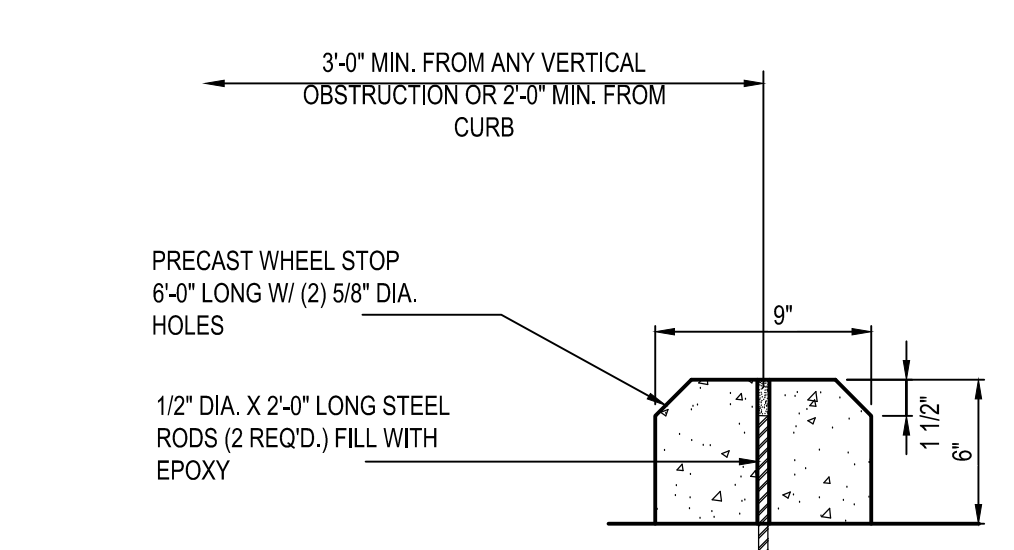


ENDEAVOR 2.0
STORM SEWER
CALCULATIONS

C-133

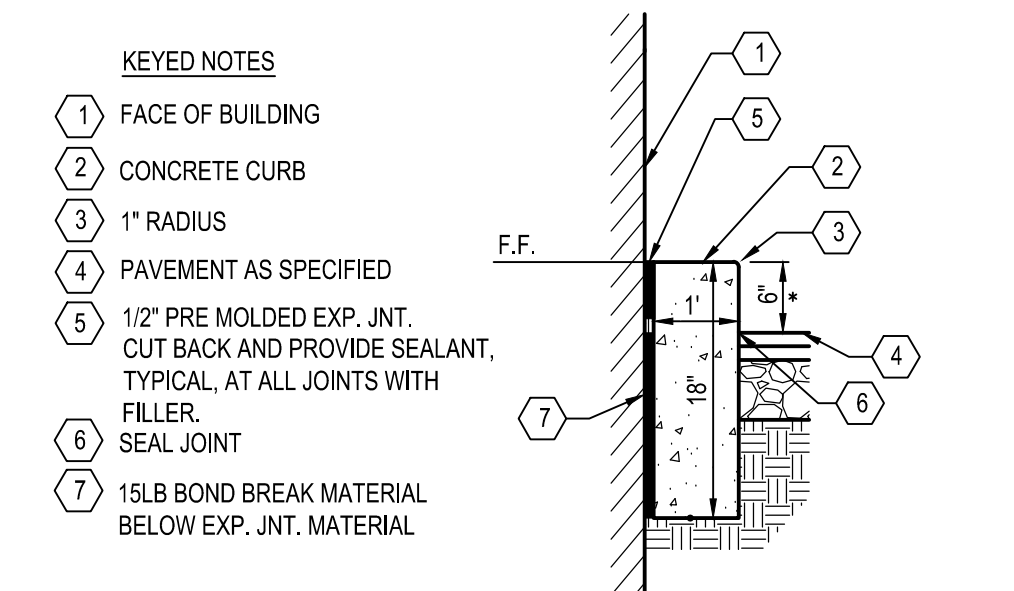


D1 CONCRETE CURB TAPER
N.T.S.

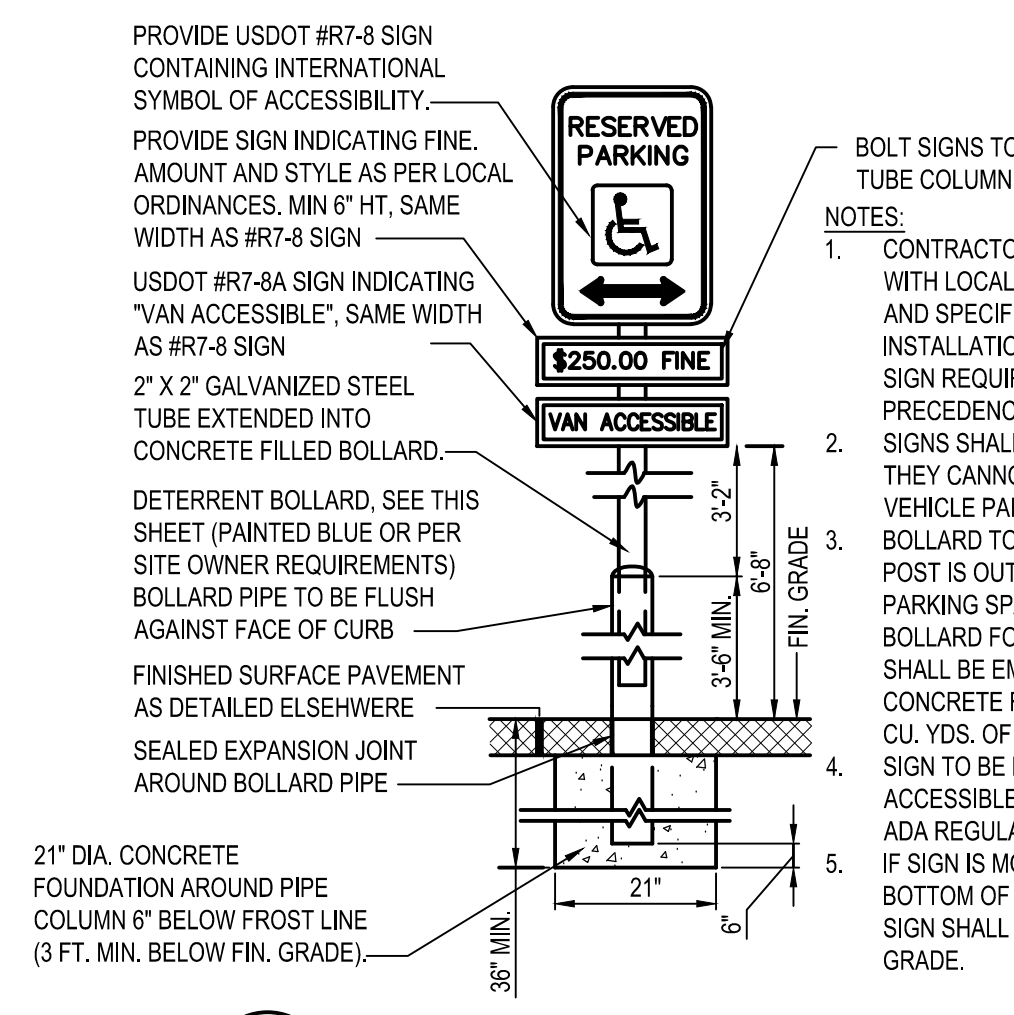


- NOTE:**
- SEE SITE PLAN FOR LOCATION AND QUANTITY OF WHEELSTOPS.
 - WHEN APPLICABLE IN CONCRETE PAVEMENTS, WHEEL STOPS SHALL BE ANCHORED TO CONCRETE WITH HDI+ 1/4" DROP-IN ANCHORS, 1" EMBEDMENT W/ 1/4" THREADED ROD.

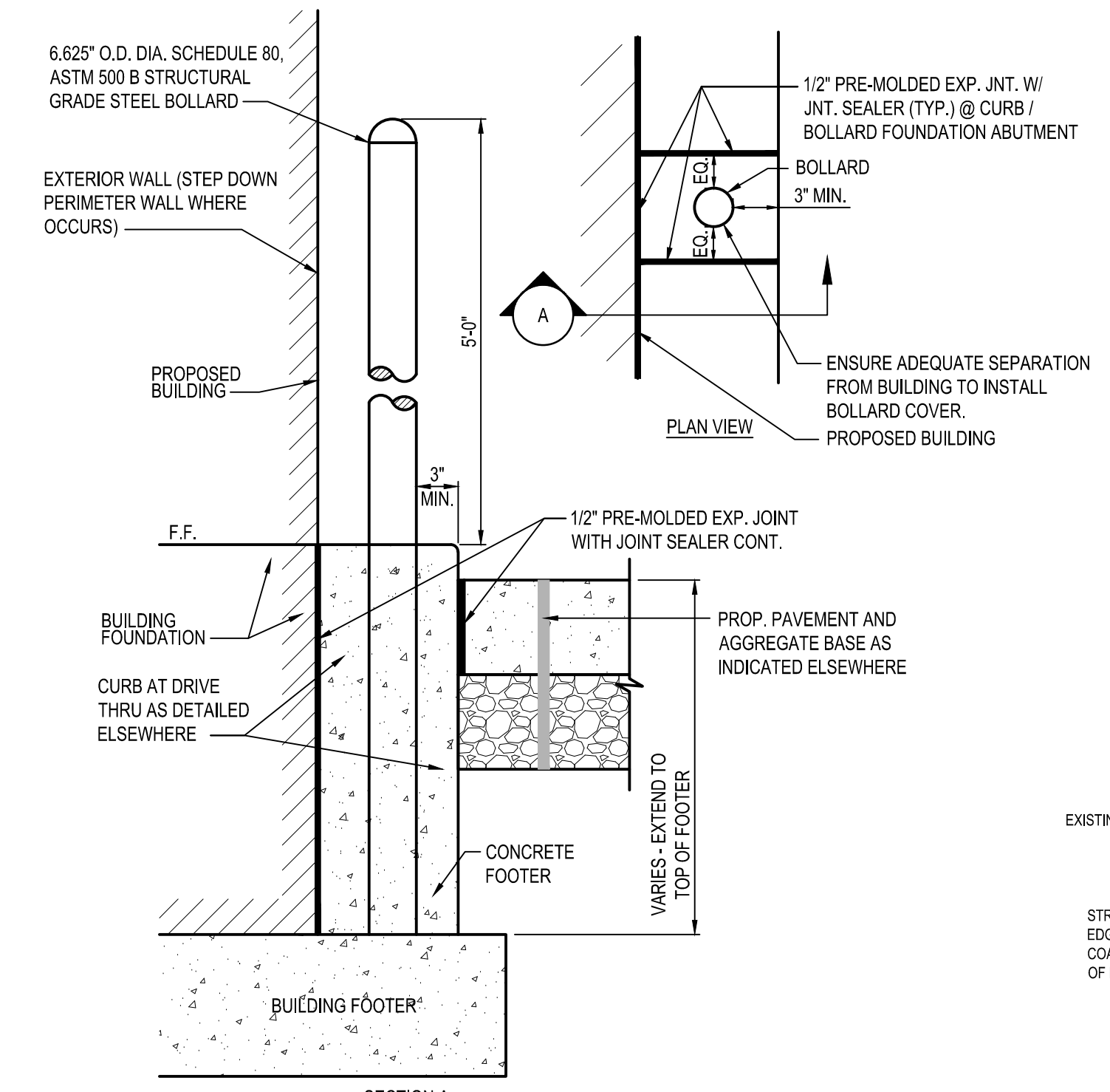
C1 P.C.C. WHEELSTOP
N.T.S.



B1 CONCRETE CURB AT DRIVE THRU
N.T.S.

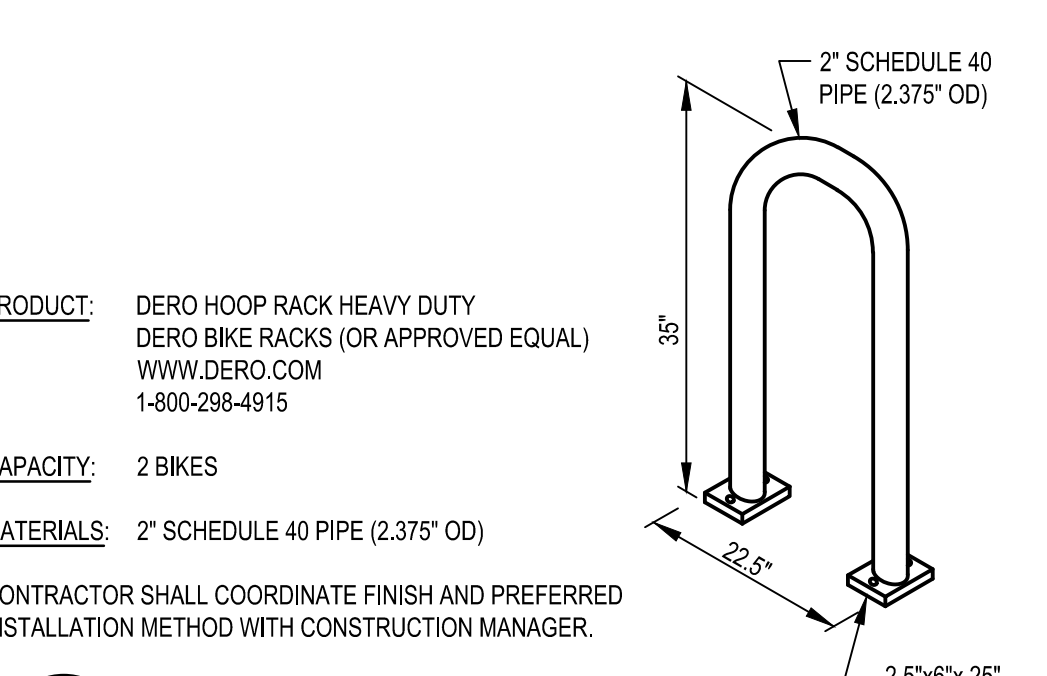


A1 HANDICAPPED PARKING SIGN
N.T.S.

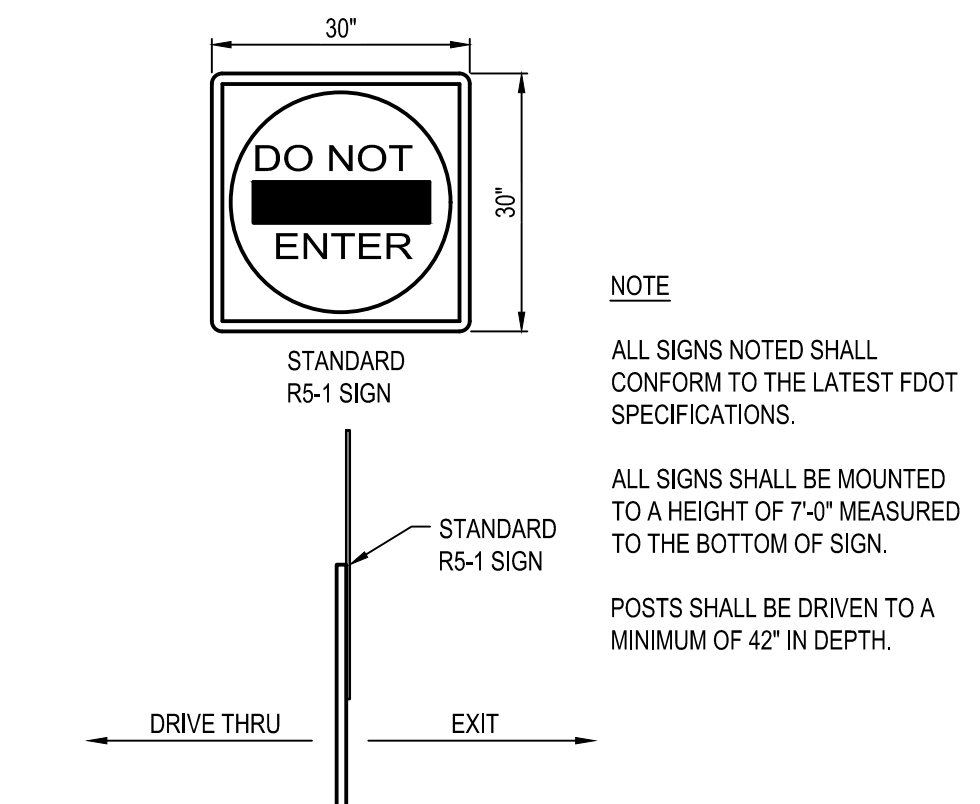


- NOTE:**
- CONTRACTOR SHALL PAINT STEEL PIPE WITH AN EXTERIOR RUST INHIBITIVE PAINT SUCH AS SHERWIN-WILLIAMS MACROPOXY 646 FAST CURE (B58W610), IN ACCORDANCE WITH MANUFACTURER'S PREPARATION REQUIREMENTS AND PROVIDE A YELLOW BOLLARD COVER, COVER SUCH AS A STREET SMART SOLUTIONS POST GUARD, DOME-TOP COVER BY US-POSTMAN.COM OR APPROVED EQUAL.
 - WHERE UTILIZED FOR PEDESTRIAN SEPARATION/ PROTECTION CONTRACTOR SHALL INSTALL A CRASH RATED BOLLARD AND FOOTING PER ASTM F3016/3016M. TYPICAL SPACING OF 5'-6" CENTER TO CENTER WITH AN ANTICIPATED S20 RATING FOR BIDDING PURPOSES - FINAL SPACING AND RATING SHALL BE IN ACCORDANCE WITH ASTM AND THE MANUFACTURER'S REQUIREMENTS FOR PROPOSED LOCATIONS AND POSSIBLE VEHICLE APPROACH SPEED. UTILIZATION OF CRASHCORE BOLLARD BY MCCUE.COM OR APPROVED EQUAL SHALL BE IN ACCORDANCE WITH MANUFACTURE SPECIFICATIONS. CONTRACTOR SHALL BE OR BECOME CERTIFIED INSTALLERS. CONTACT MANUFACTURER(S) FOR DETAILS.

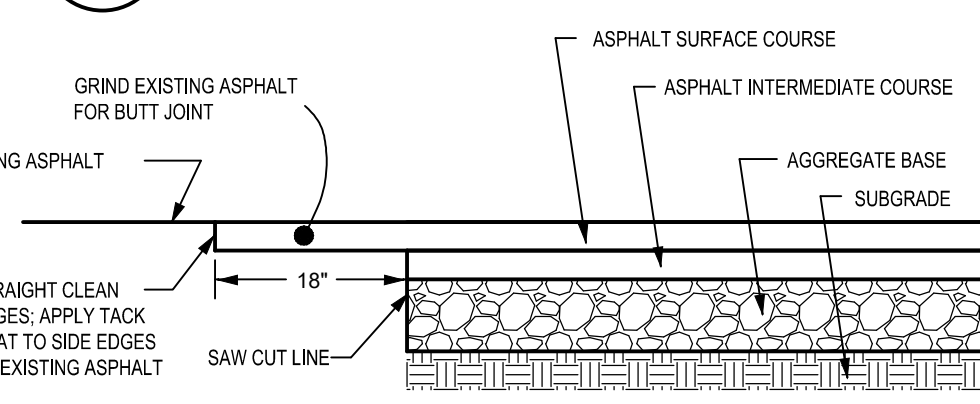
C2 DETERRENT BOLLARD IN CURB
N.T.S.



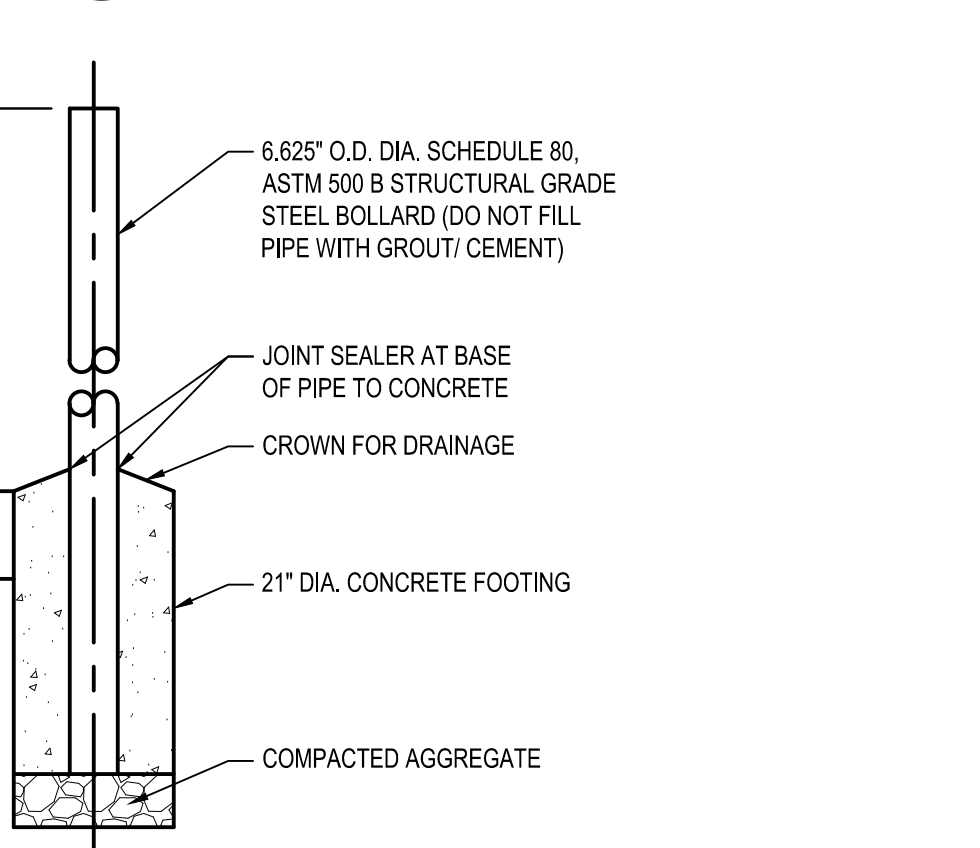
B2 BIKE RACK DETAIL
N.T.S.



D2 DO NOT ENTER SIGN
N.T.S.

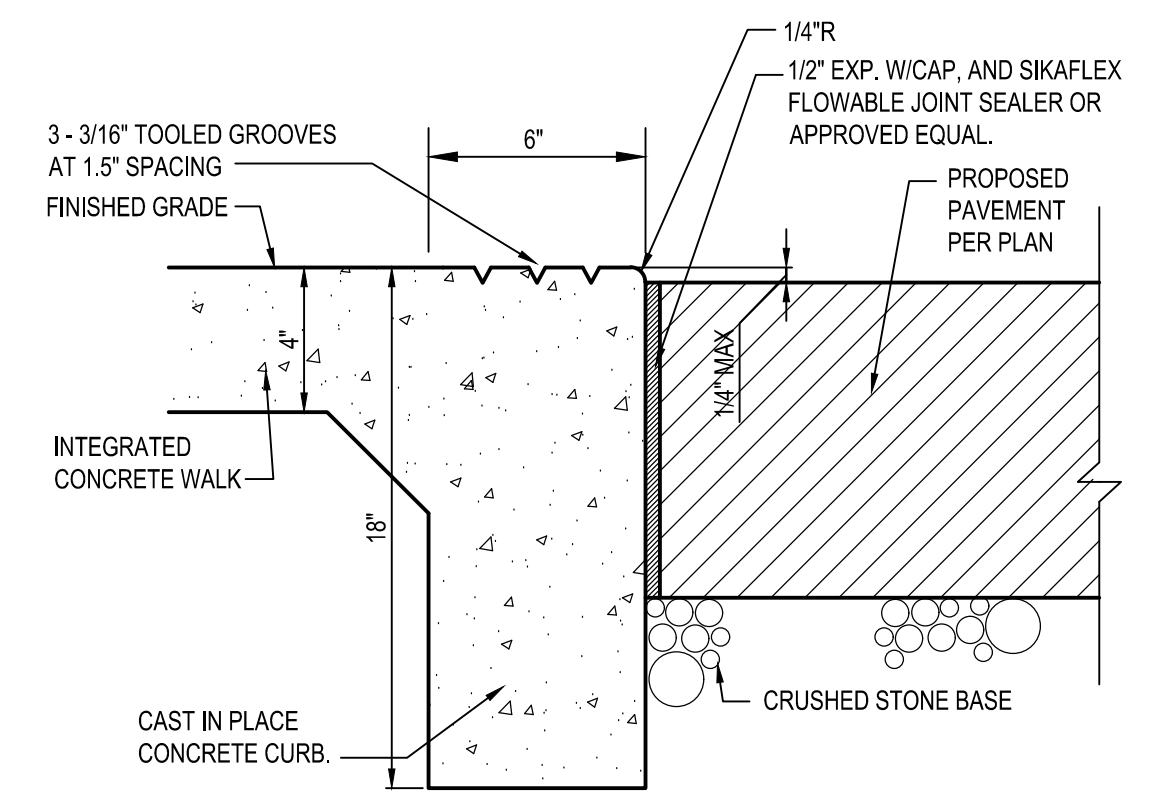


C3 BUTT JOINT
N.T.S.



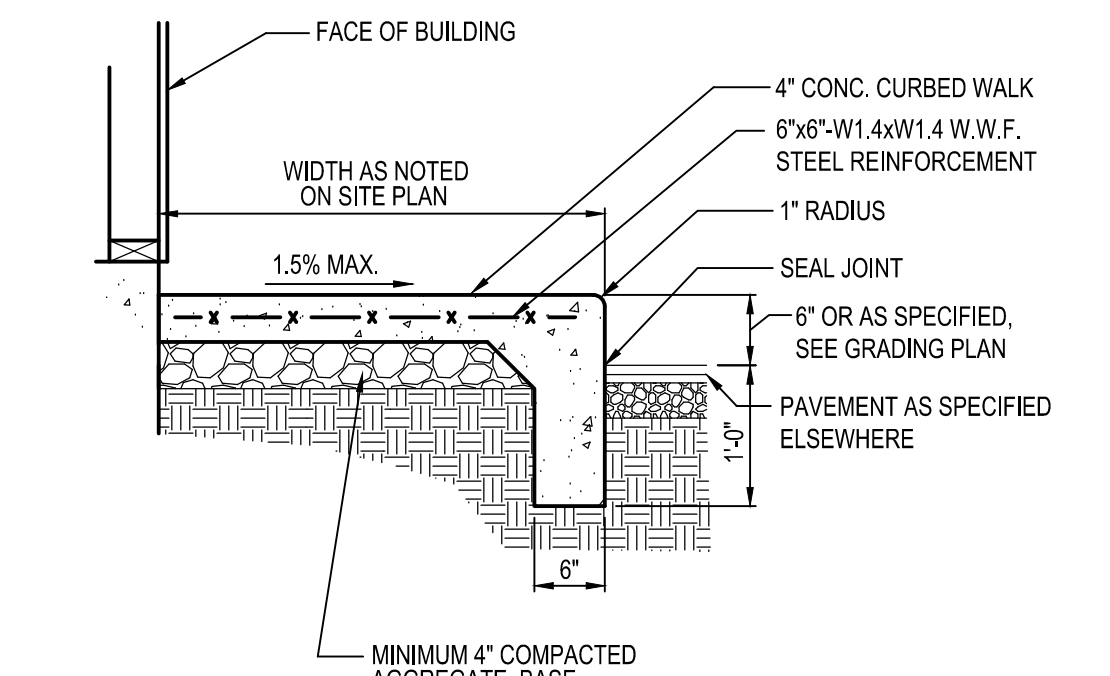
- NOTE:**
- CONTRACTOR SHALL PAINT STEEL PIPE WITH AN EXTERIOR RUST INHIBITIVE PAINT SUCH AS SHERWIN-WILLIAMS MACROPOXY 646 FAST CURE (B58W610), IN ACCORDANCE WITH MANUFACTURER'S PREPARATION REQUIREMENTS AND PROVIDE A YELLOW (BLUE FOR ADA) BOLLARD COVER, COVER SUCH AS A STREET SMART SOLUTIONS POST GUARD, DOME-TOP COVER BY US-POSTMAN.COM OR APPROVED EQUAL.
 - WHERE UTILIZED FOR PEDESTRIAN SEPARATION/ PROTECTION CONTRACTOR SHALL INSTALL A CRASH RATED BOLLARD AND FOOTING PER ASTM F3016/3016M. TYPICAL SPACING OF 5'-6" CENTER TO CENTER WITH AN ANTICIPATED S20 RATING FOR BIDDING PURPOSES - FINAL SPACING AND RATING SHALL BE IN ACCORDANCE WITH ASTM AND THE MANUFACTURER'S REQUIREMENTS FOR PROPOSED LOCATIONS AND POSSIBLE VEHICLE APPROACH SPEED. UTILIZATION OF CRASHCORE BOLLARD BY MCCUE.COM OR APPROVED EQUAL SHALL BE IN ACCORDANCE WITH MANUFACTURE SPECIFICATIONS. CONTRACTOR SHALL BE OR BECOME CERTIFIED INSTALLERS. CONTACT MANUFACTURER(S) FOR DETAILS.

B3 DETERRENT BOLLARD
N.T.S.



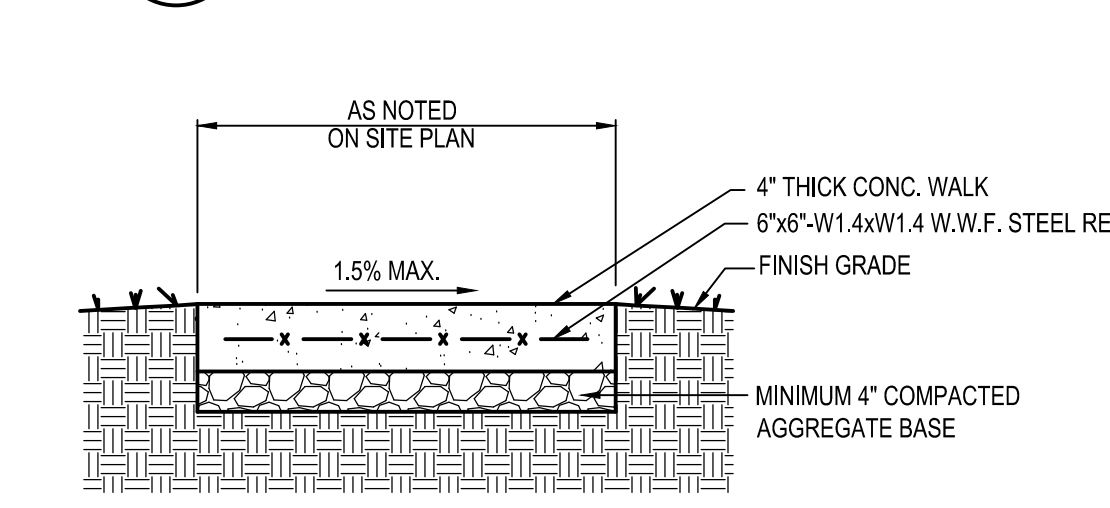
- NOTES:**
- REFER TO CONCRETE NOTES ON SHEET C-001 FOR CONCRETE SPECIFICATION.
 - SIDEWALK WIDTH AS SHOWN ON SITE PLAN.

A2 FLUSH CURB
N.T.S.



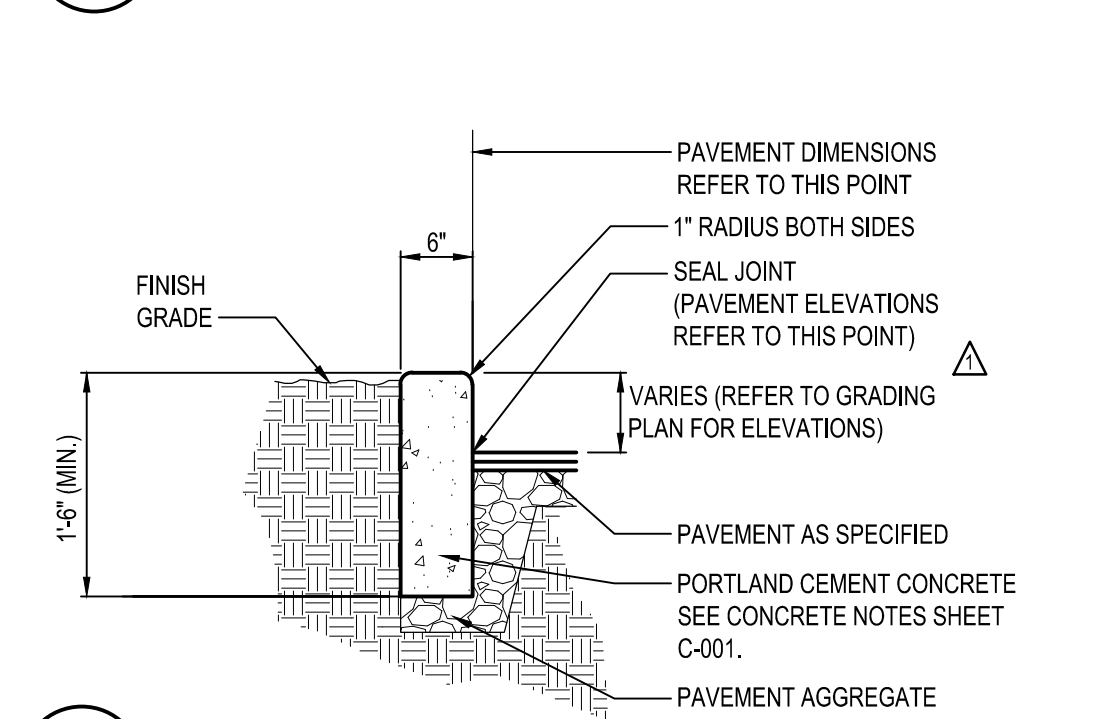
- NOTES:**
- CONTRACTOR SHALL INSTALL 1/2" PRE-FORMED EXPANSION JOINT MATERIAL AND JOINT SEALER WHERE PAVEMENT ABUTS BUILDING.
 - FIBER MAY BE USED IN PLACE OF STEEL REINFORCEMENT, SEE CONCRETE NOTES SHEET C-001.

D3 CONCRETE CURBED WALK
N.T.S.



- NOTES:**
- CONTRACTOR SHALL INSTALL 1/2" PRE-FORMED EXPANSION JOINT MATERIAL AND JOINT SEALER WHERE PAVEMENT ABUTS BUILDING.
 - FIBER MAY BE USED IN PLACE OF STEEL REINFORCEMENT, SEE CONCRETE NOTES SHEET C-001.

C4 CONCRETE WALK
N.T.S.



B4 CONCRETE CURB
N.T.S.

DATE	REMARKS
02.18.21	SITE PLAN REVIEW 1 COMMENTS
05.13.22	NTP
05.19.22	ISSUED FOR BID

CONTRACT DATE: 01.17.22
BUILDING TYPE: END. 2.0
PLAN VERSION: JANUARY 2022
BRAND DESIGNER:
SITE NUMBER: 315420
STORE NUMBER: 457313
PA/PM: JN
DRAWN BY.: EA
JOB NO.: 2021088.46

TACO BELL
HAMMOCK RIDGE & U.S. 27
CLERMONT, FL 34711

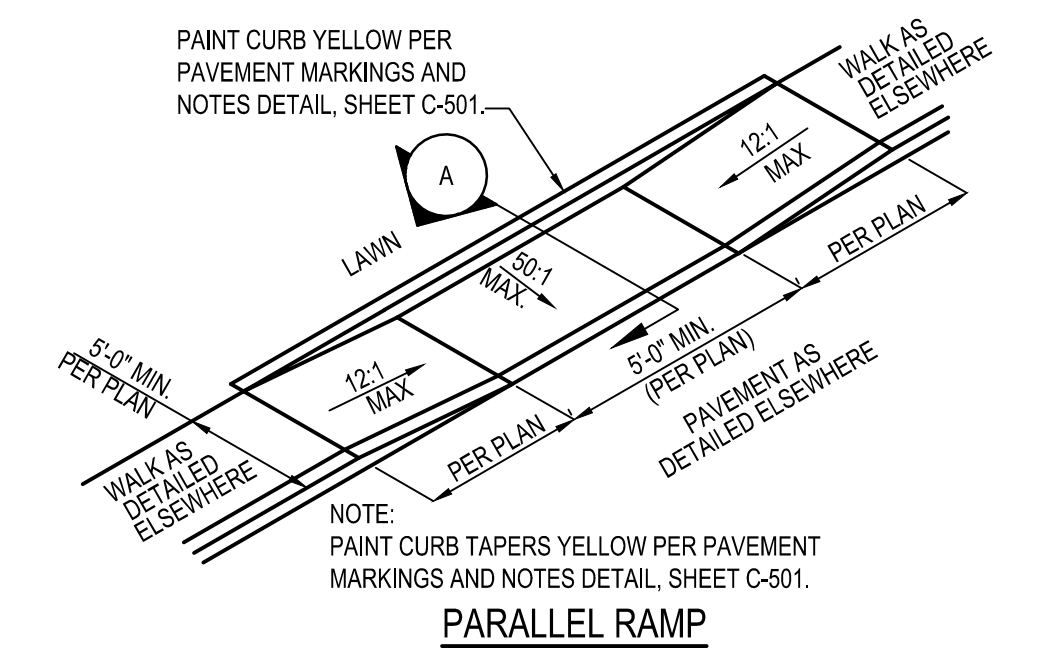
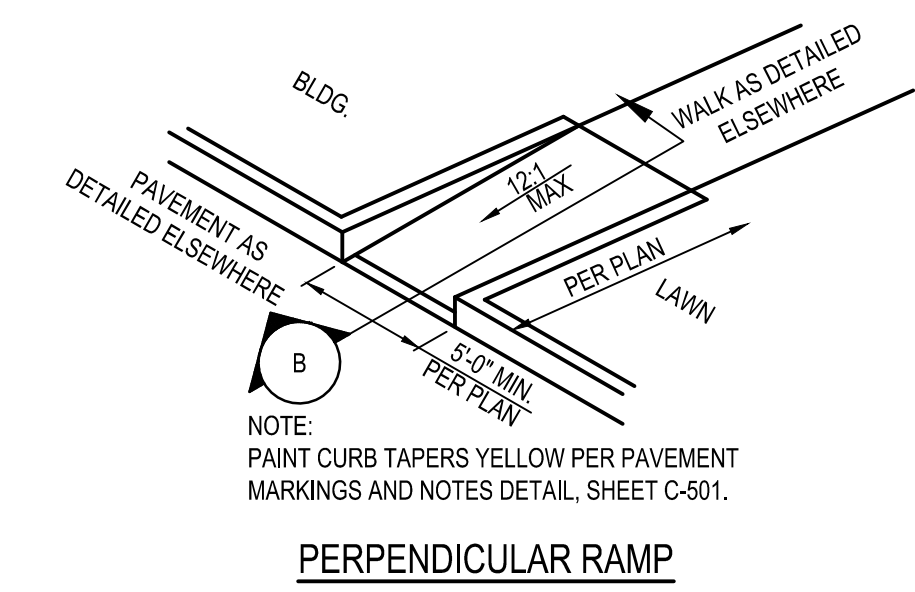
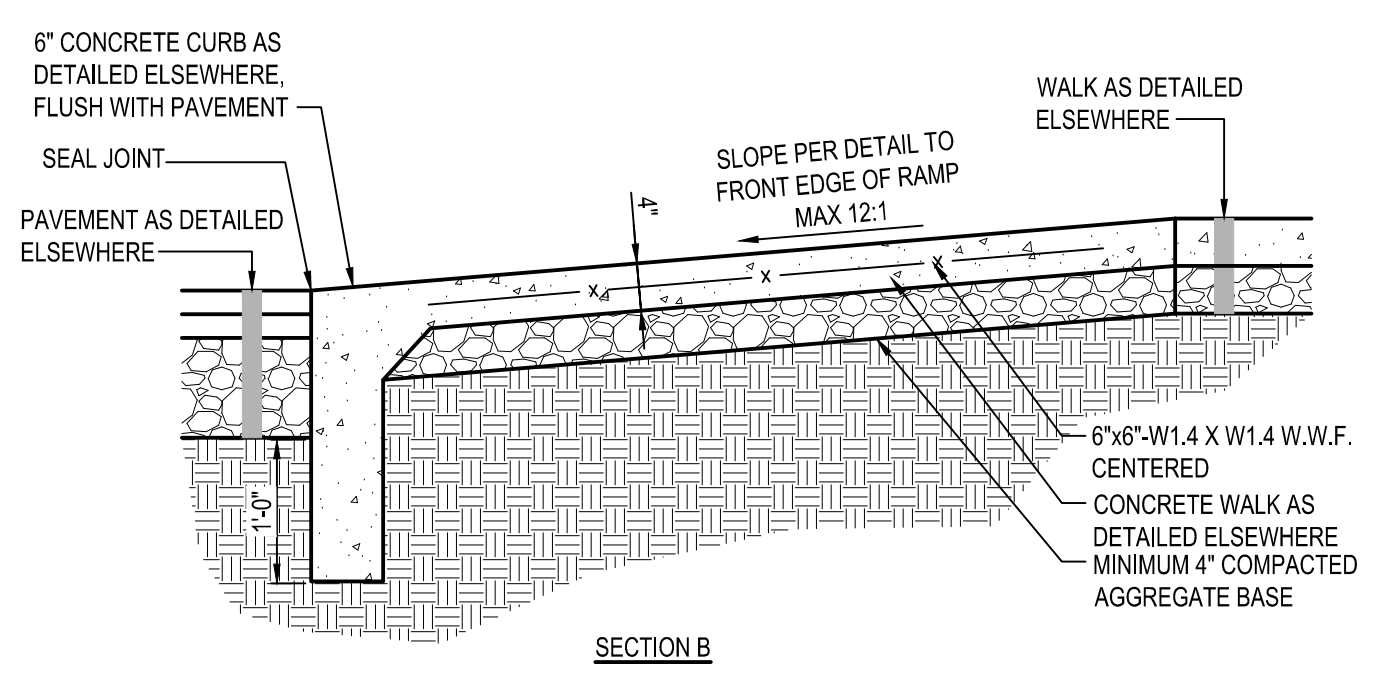
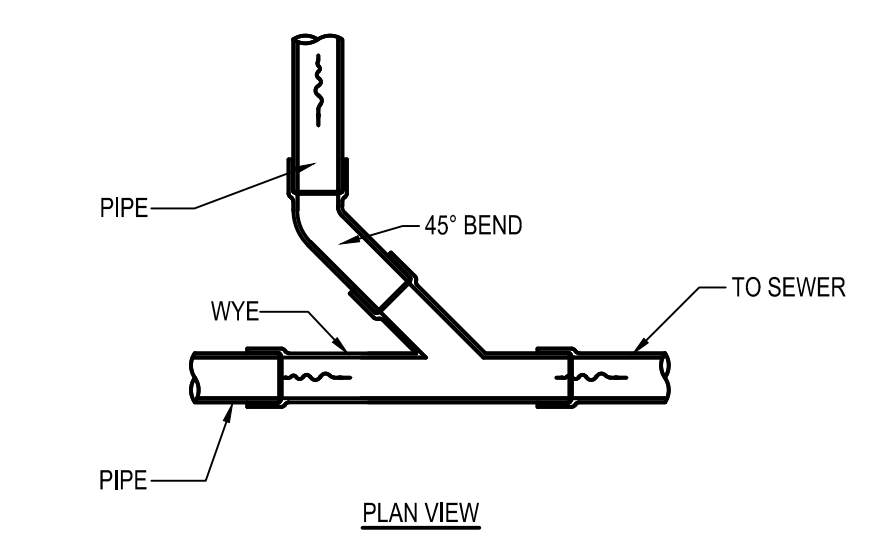
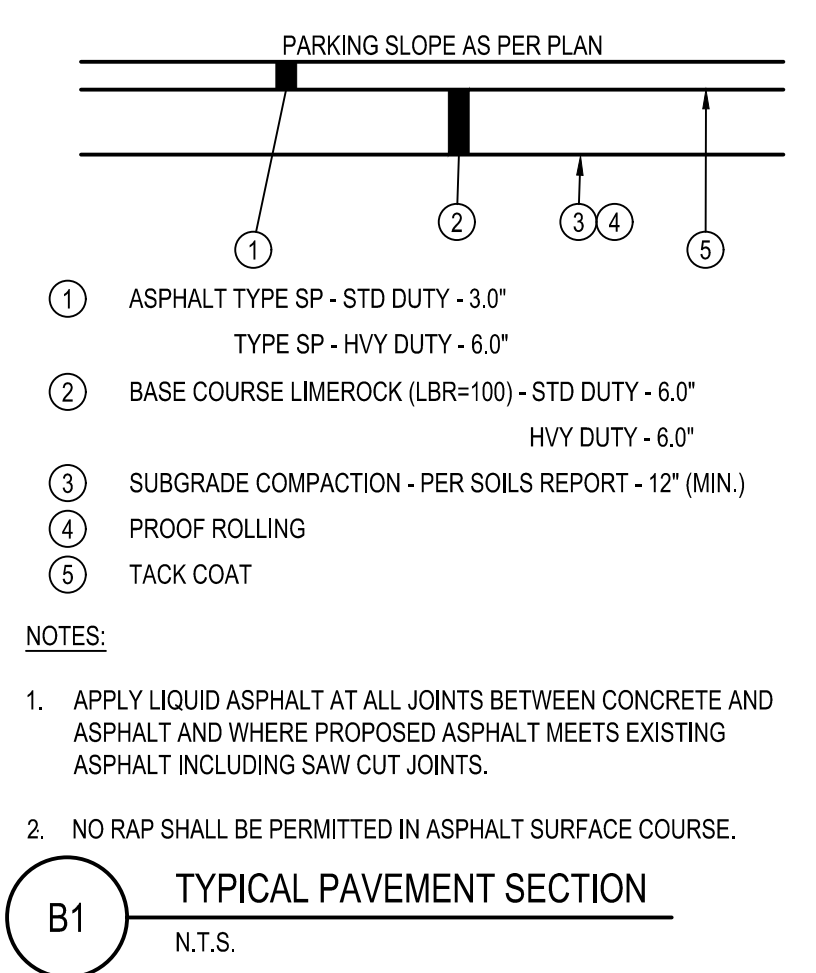
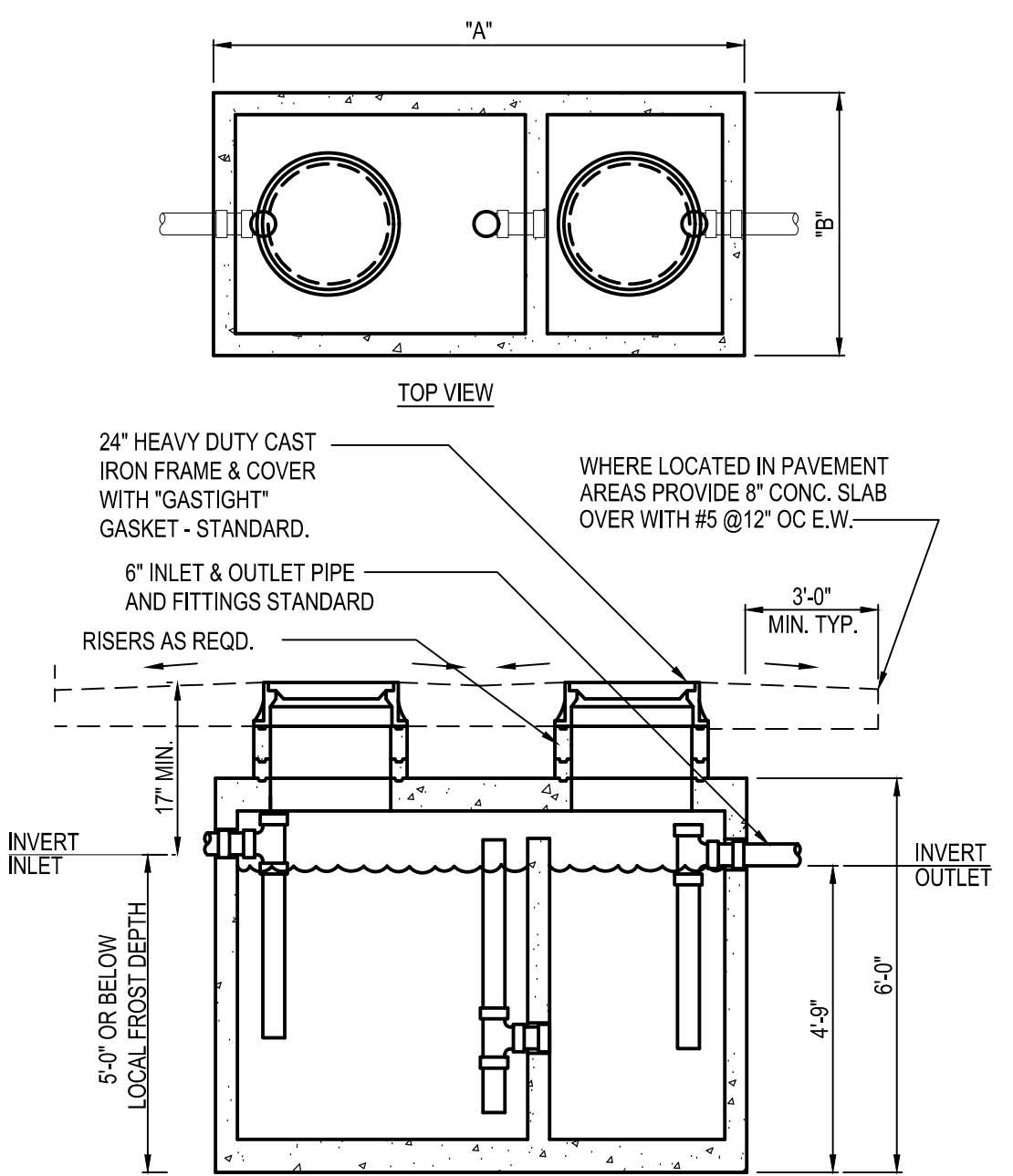
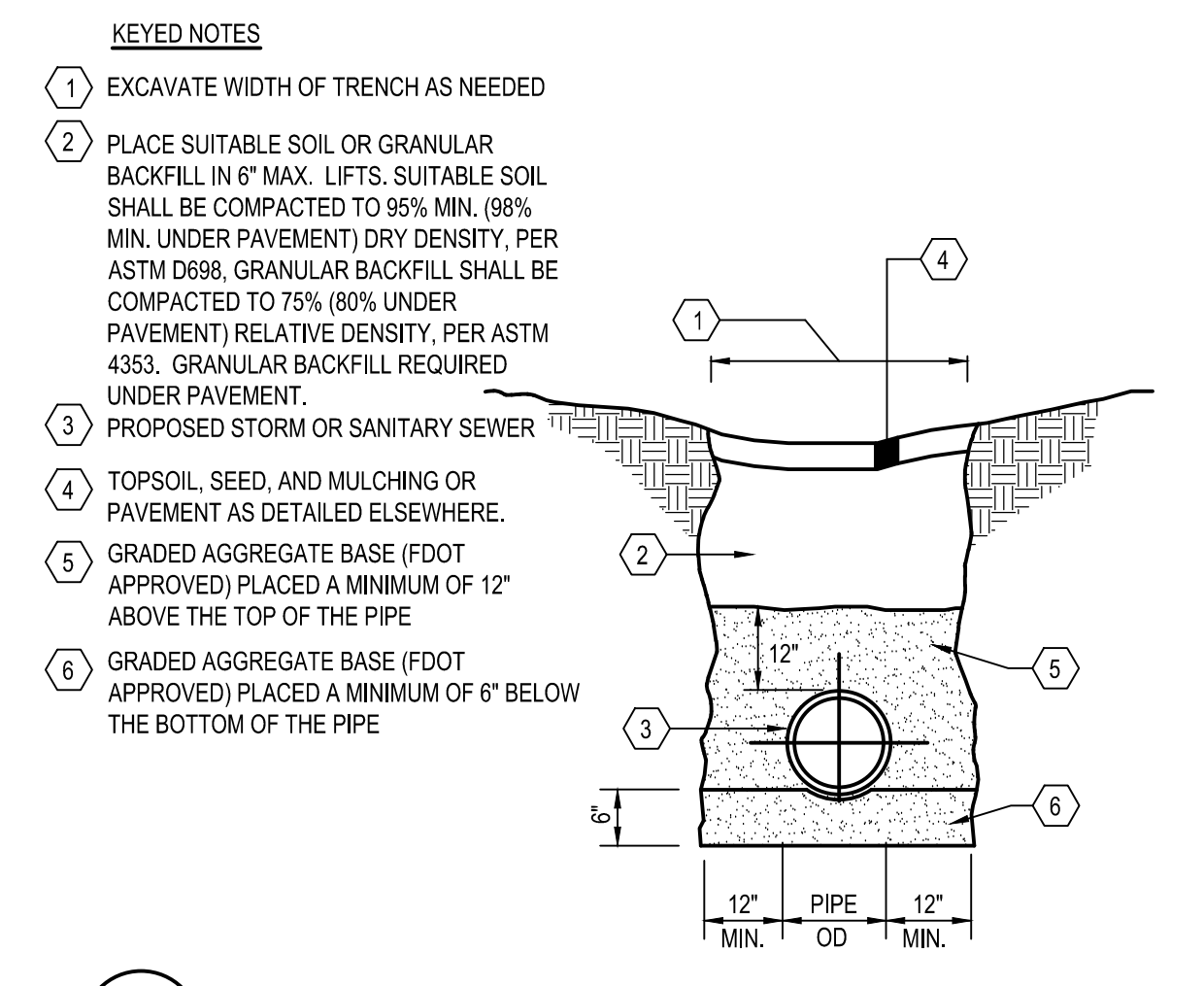
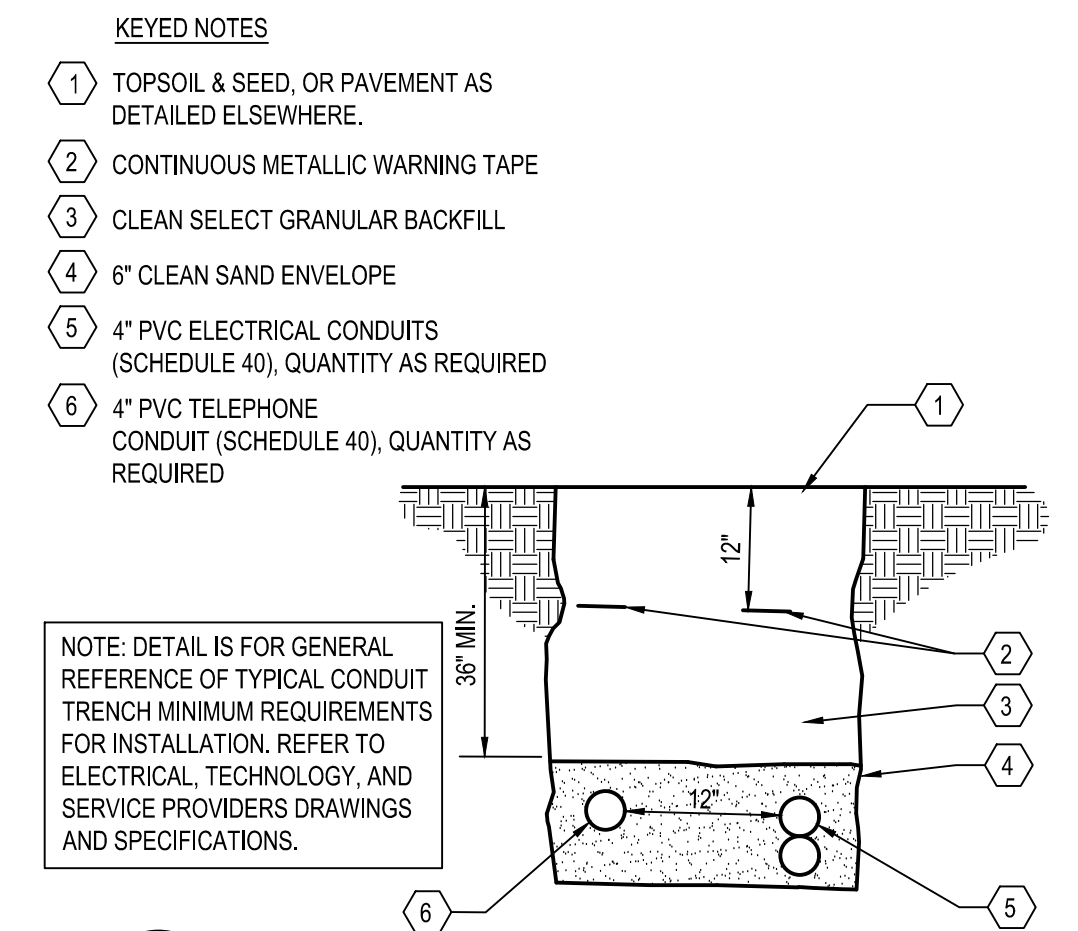
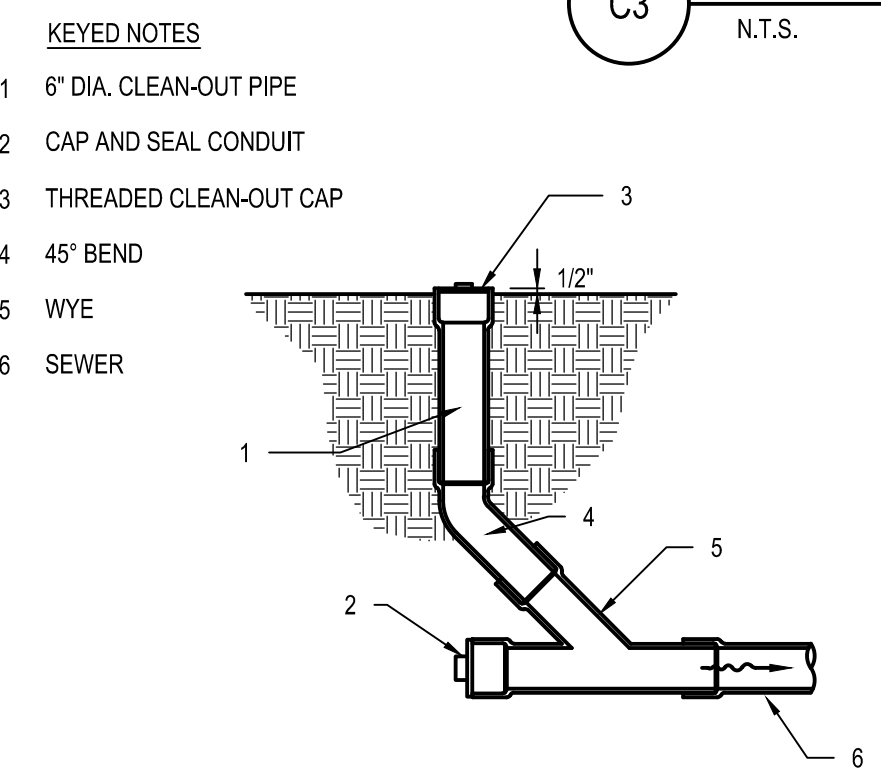
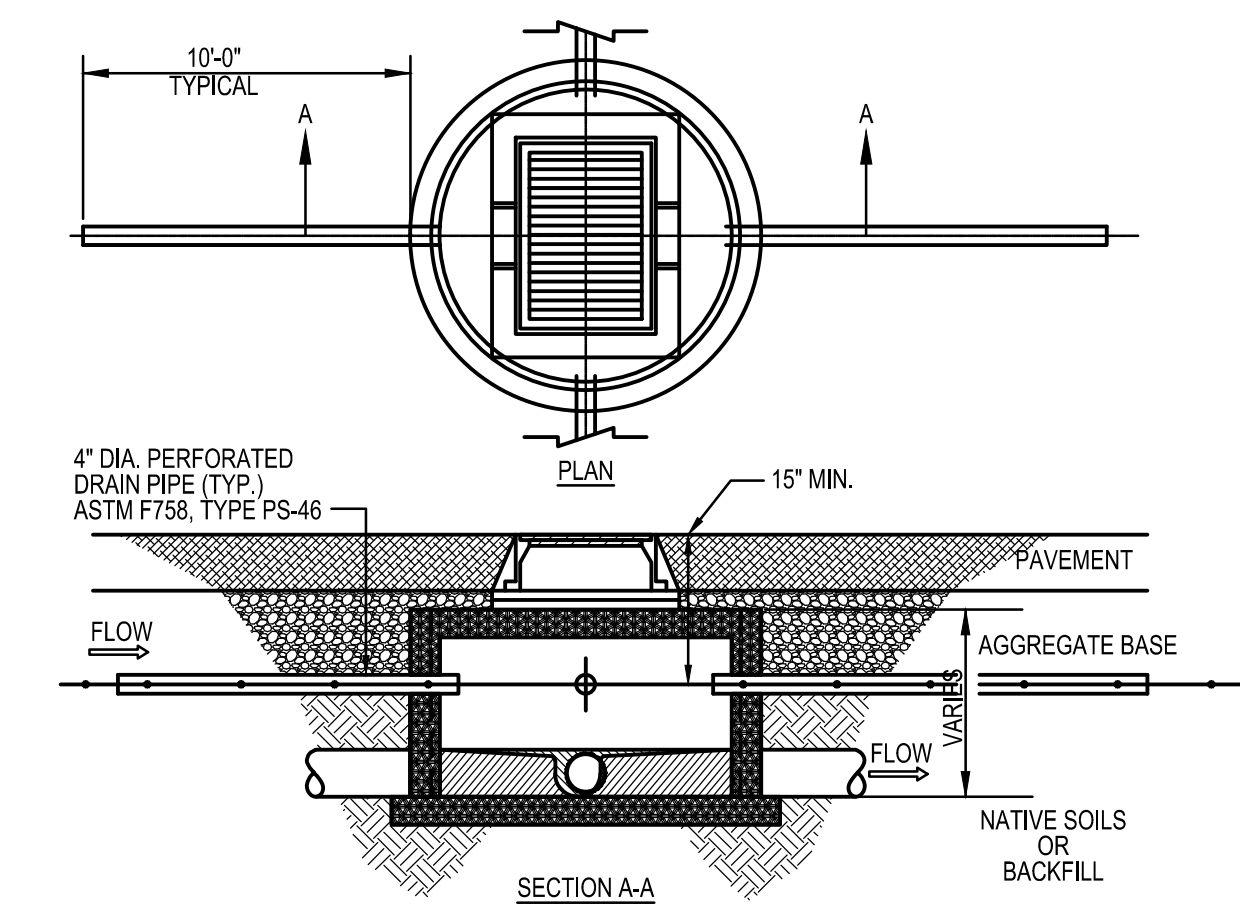
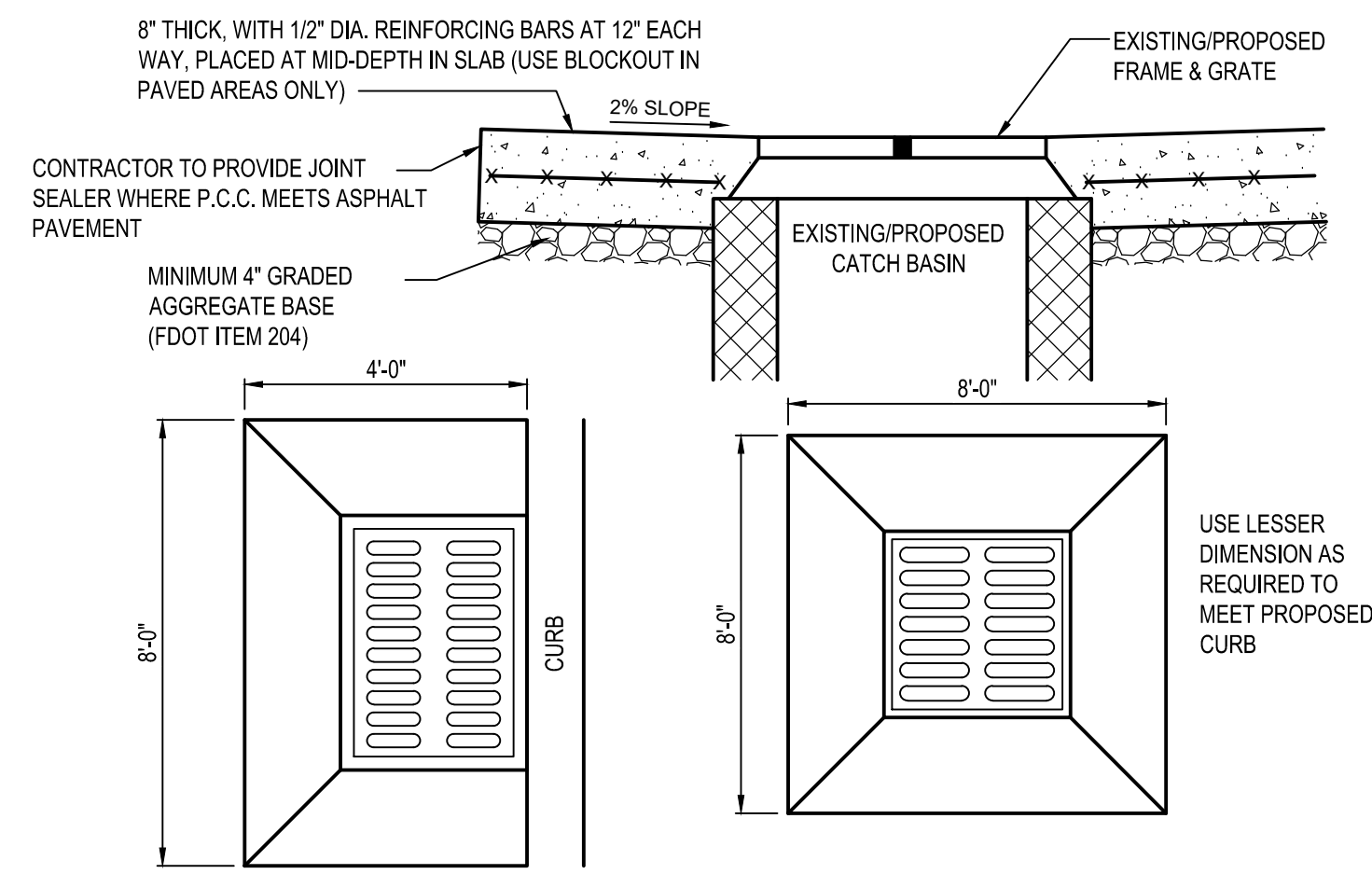
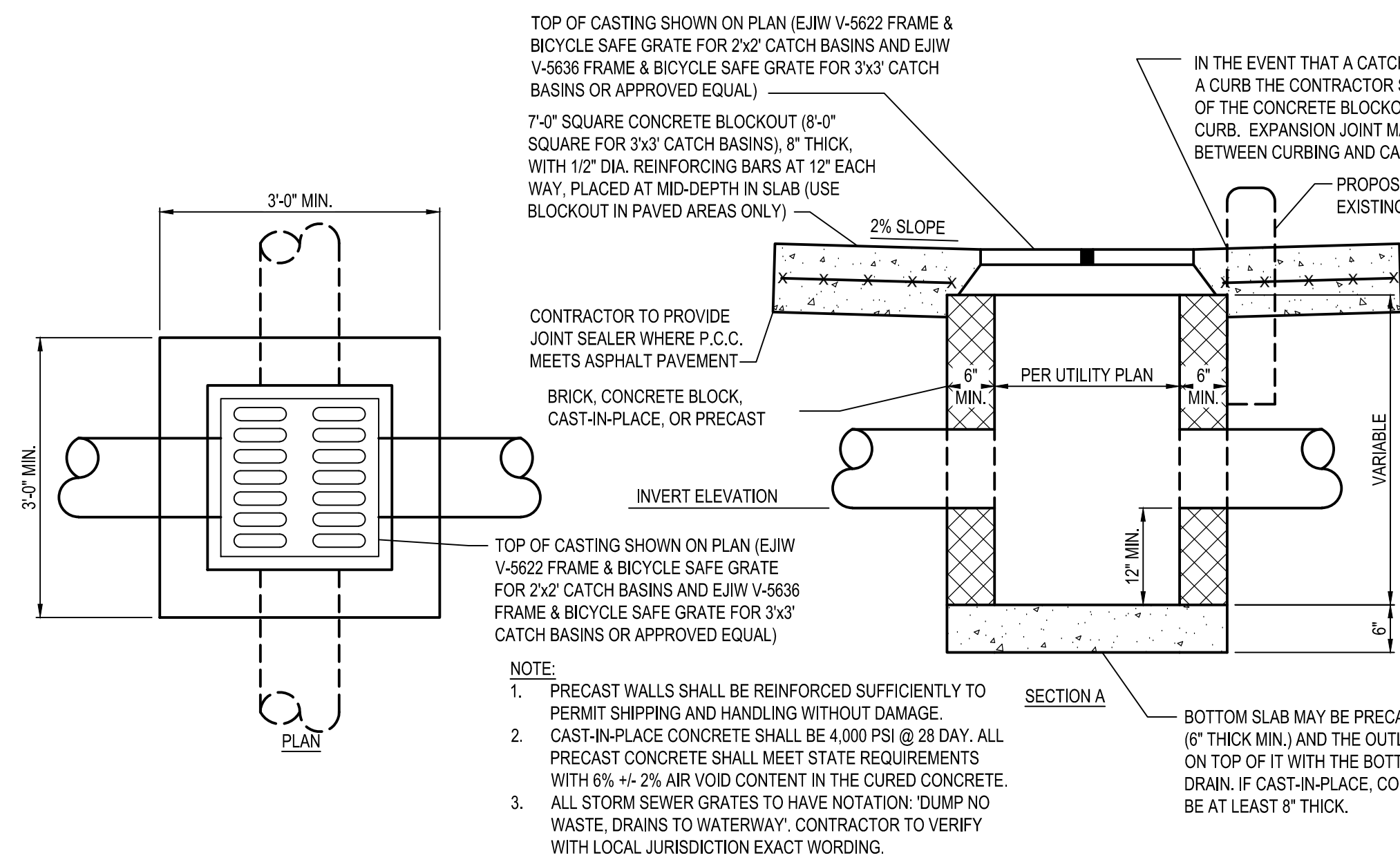


ENDEAVOR 2.0

DETAILS

C-501

PLOT DATE: 01/17/2022 10:08:35 AM



DATE	REMARKS
05.13.22	NTP
05.19.22	ISSUED FOR BID

CONTRACT DATE: 01.17.22
 BUILDING TYPE: END. 2.0
 PLAN VERSION: JANUARY 2022
 BRAND DESIGNER:
 SITE NUMBER: 315420
 STORE NUMBER: 457313
 PA/PM: JN
 DRAWN BY.: EA
 JOB NO.: 2021088.46

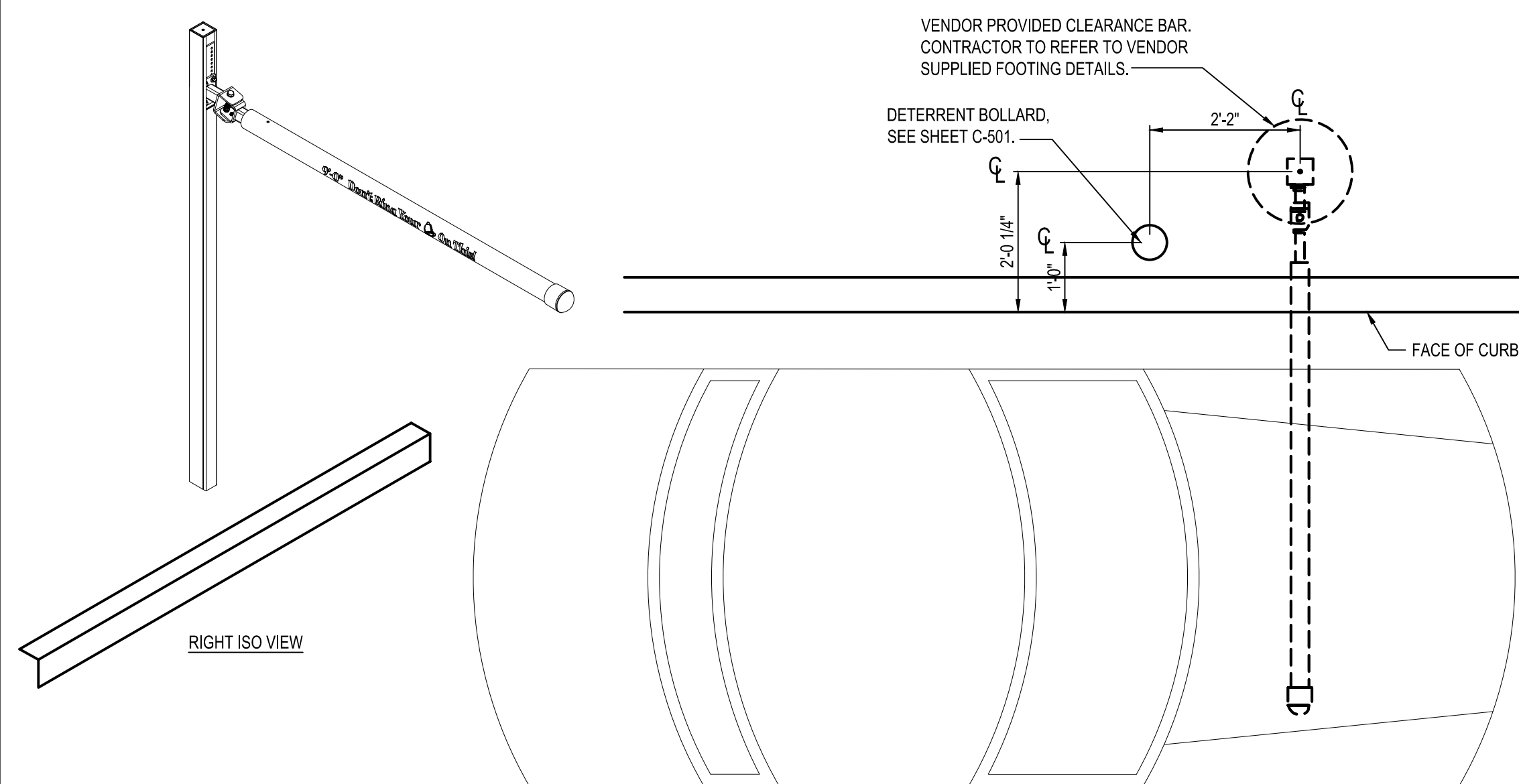
TACO BELL
 HAMMOCK RIDGE & U.S. 27
 CLERMONT, FL 34711



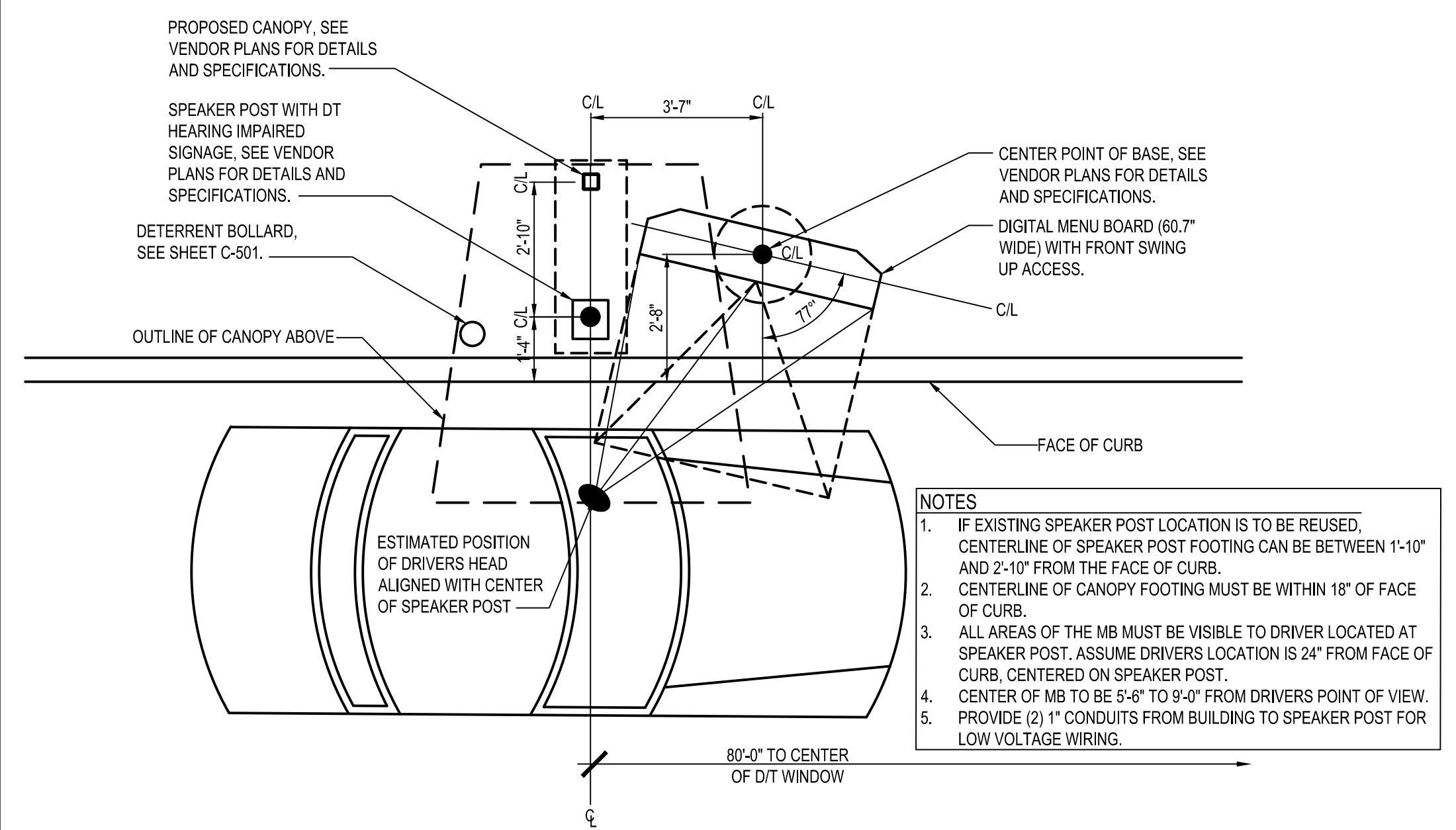
ENDEAVOR 2.0

DETAILS

C-502

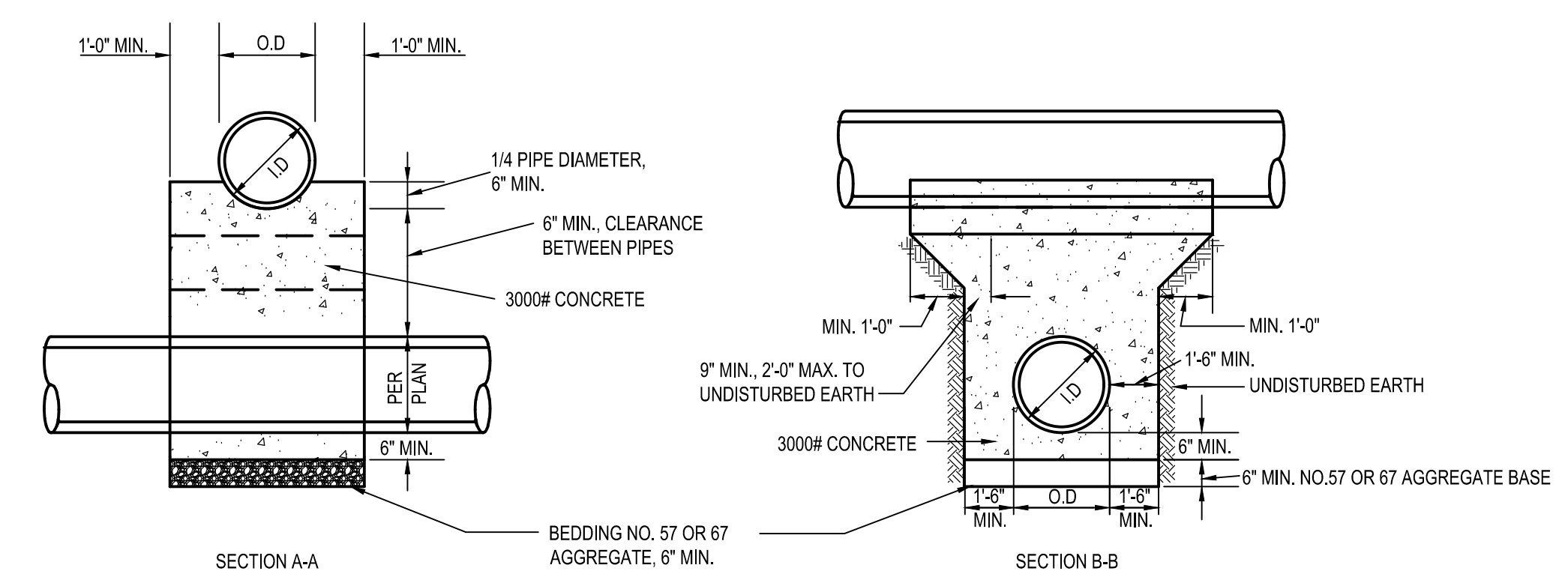


B1 PORTAL PLACEMENT DETAIL
N.T.S.

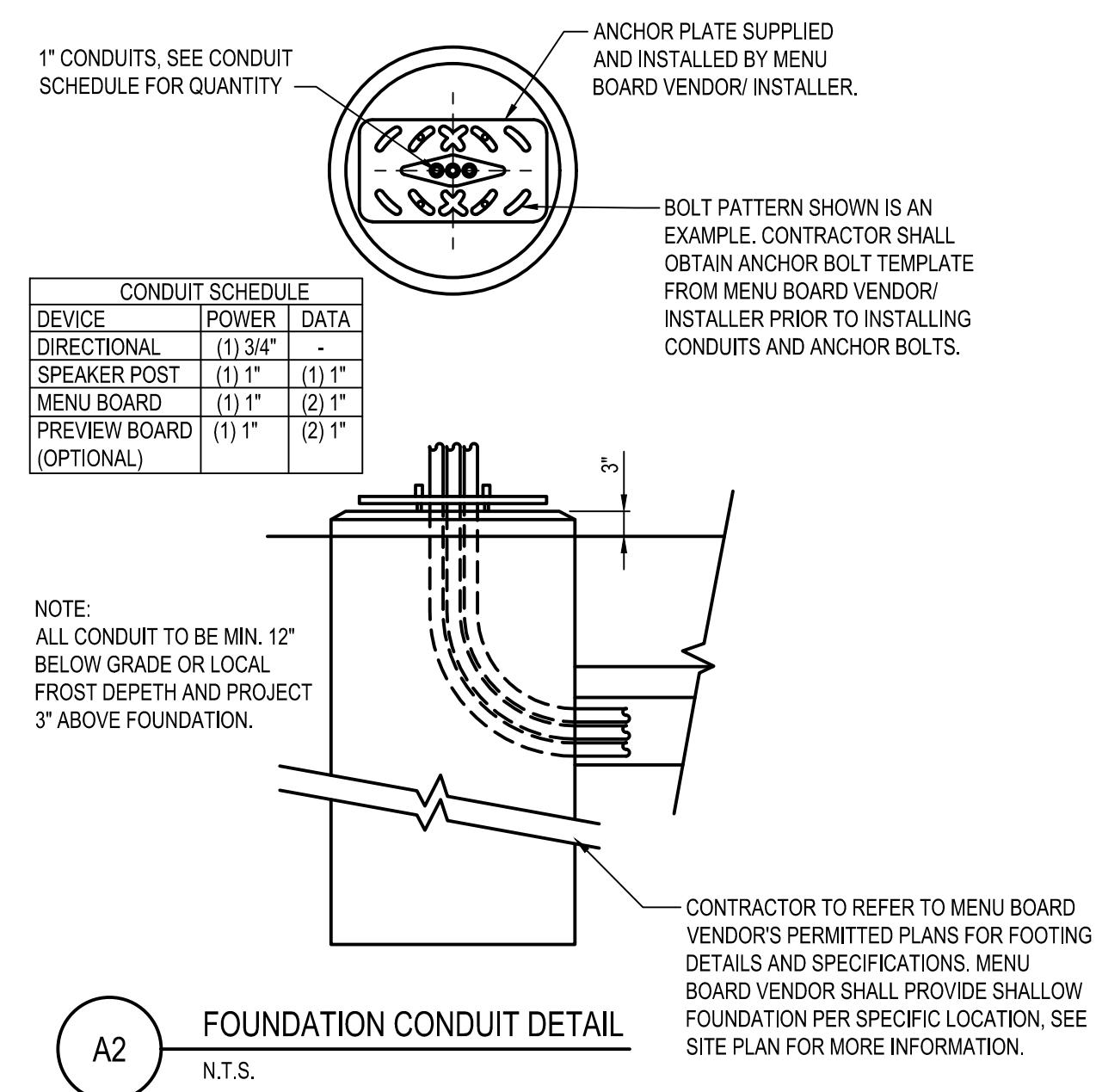


A1 ENLARGED MENU BOARD DETAIL @ STRAIGHT CURB
N.T.S.

- NOTES**
1. IF EXISTING SPEAKER POST LOCATION IS TO BE REUSED, CENTERLINE OF SPEAKER POST FOOTING CAN BE BETWEEN 1'-10" AND 2'-10" FROM THE FACE OF CURB.
 2. CENTERLINE OF CANOPY FOOTING MUST BE WITHIN 18" OF FACE OF CURB.
 3. ALL AREAS OF THE MB MUST BE VISIBLE TO DRIVER LOCATED AT SPEAKER POST. ASSUME DRIVERS LOCATION IS 24" FROM FACE OF CURB, CENTERED ON SPEAKER POST.
 4. CENTER OF MB TO BE 5'-6" TO 9'-0" FROM DRIVERS POINT OF VIEW.
 5. PROVIDE (2) 1" CONDUITS FROM BUILDING TO SPEAKER POST FOR LOW VOLTAGE WIRING.



B2 CONCRETE ENCASEMENT MONOLITHIC CRADLING OF UPPER PIPE FOR CROSSINGS WITH LESS THAN 18" MINIMUM CLEARANCE
N.T.S.



A2 FOUNDATION CONDUIT DETAIL
N.T.S.

CONDUIT SCHEDULE		
DEVICE	POWER	DATA
DIRECTIONAL	(1) 3/4"	-
SPEAKER POST	(1) 1"	(1) 1"
MENU BOARD	(1) 1"	(2) 1"
PREVIEW BOARD (OPTIONAL)	(1) 1"	(2) 1"

DATE	REMARKS
05.13.22	NTP
05.19.22	ISSUED FOR BID

CONTRACT DATE: 01.17.22
BUILDING TYPE: END. 2.0
PLAN VERSION: JANUARY 2022
BRAND DESIGNER:
SITE NUMBER: 315420
STORE NUMBER: 457313
PA/PM: JN
DRAWN BY.: EA
JOB NO.: 2021088.46

TACO BELL
HAMMOCK RIDGE & U.S. 27
CLERMONT, FL 34711



ENDEAVOR 2.0

DETAILS

C-503



520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101



FOR REFERENCE ONLY

Table with 2 columns: DATE, REMARKS. Includes entry for 02.18.21 SITE PLAN REVIEW 1 COMMENTS.

CONTRACT DATE: 01.17.22
BUILDING TYPE: END. 2.0
PLAN VERSION: JANUARY 2022
BRAND DESIGNER:
SITE NUMBER: 315420
STORE NUMBER: 457313
PA/PM: JN
DRAWN BY.: EA
JOB NO.: 2021088.46

TACO BELL

HAMMOCK RIDGE & U.S. 27
CLERMONT, FL 34711



ENDEAVOR 2.0
UTILITIES INC.
AND MISC
DETAILS

C-505

POTABLE WATER / FIRE SYSTEMS

OWNER/OPERATOR
THE ENTITY THAT WILL OWN, OPERATE AND MAINTAIN THE WATER SYSTEM SHOWN ON THESE PLANS IS SANLANDO UTILITIES CORPORATION...
PIPE MATERIALS
DUCTILE IRON PIPE (DIP) SHALL BE STANDARD PRESSURE CLASS 150 IN SIZES 4" THROUGH 12" AND CONFORM TO ANSII/AWWA C150/A21.50...
VALVES
AIR RELEASE VALVES
VALVE BOXES
FIRE HYDRANTS

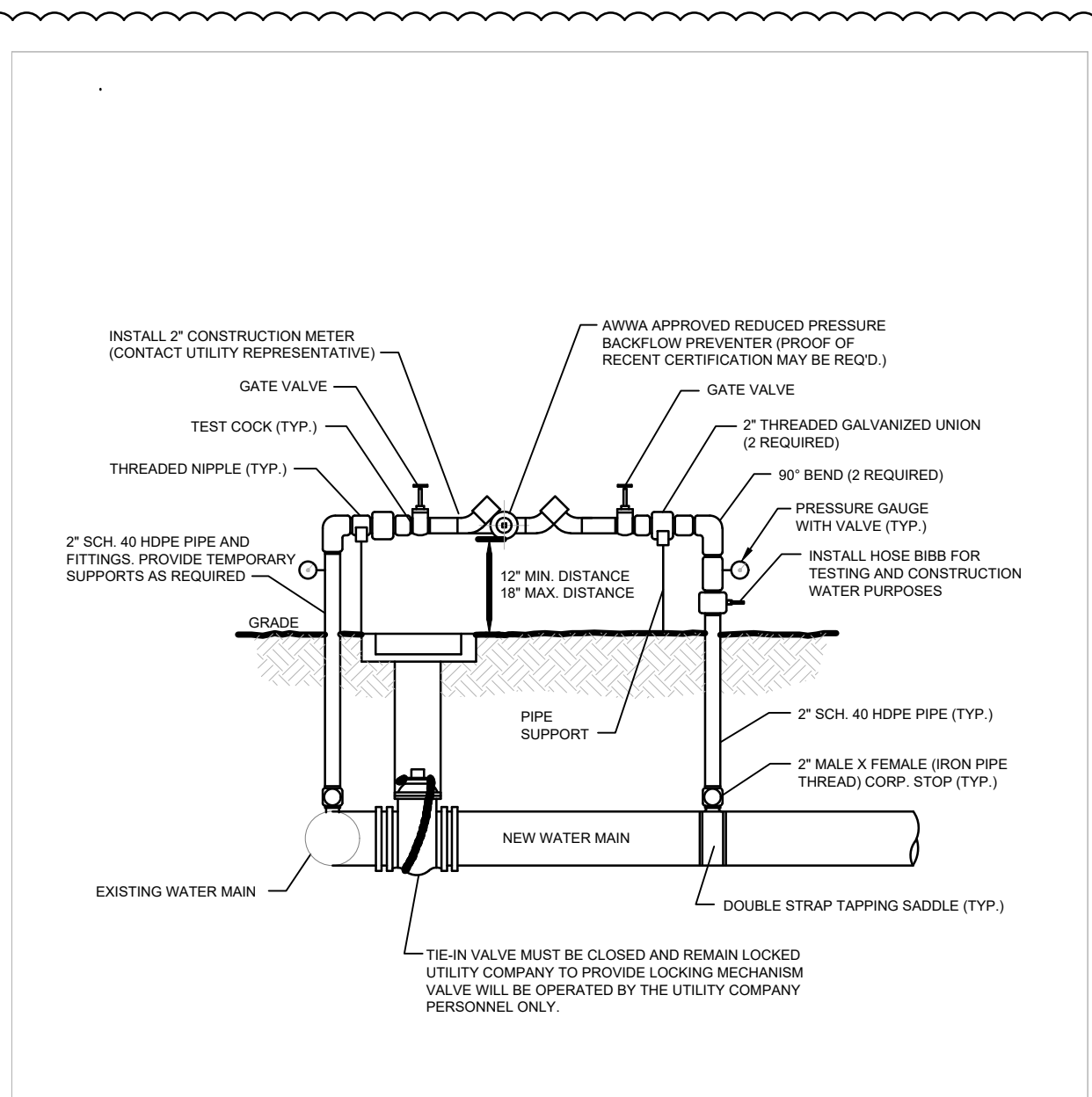


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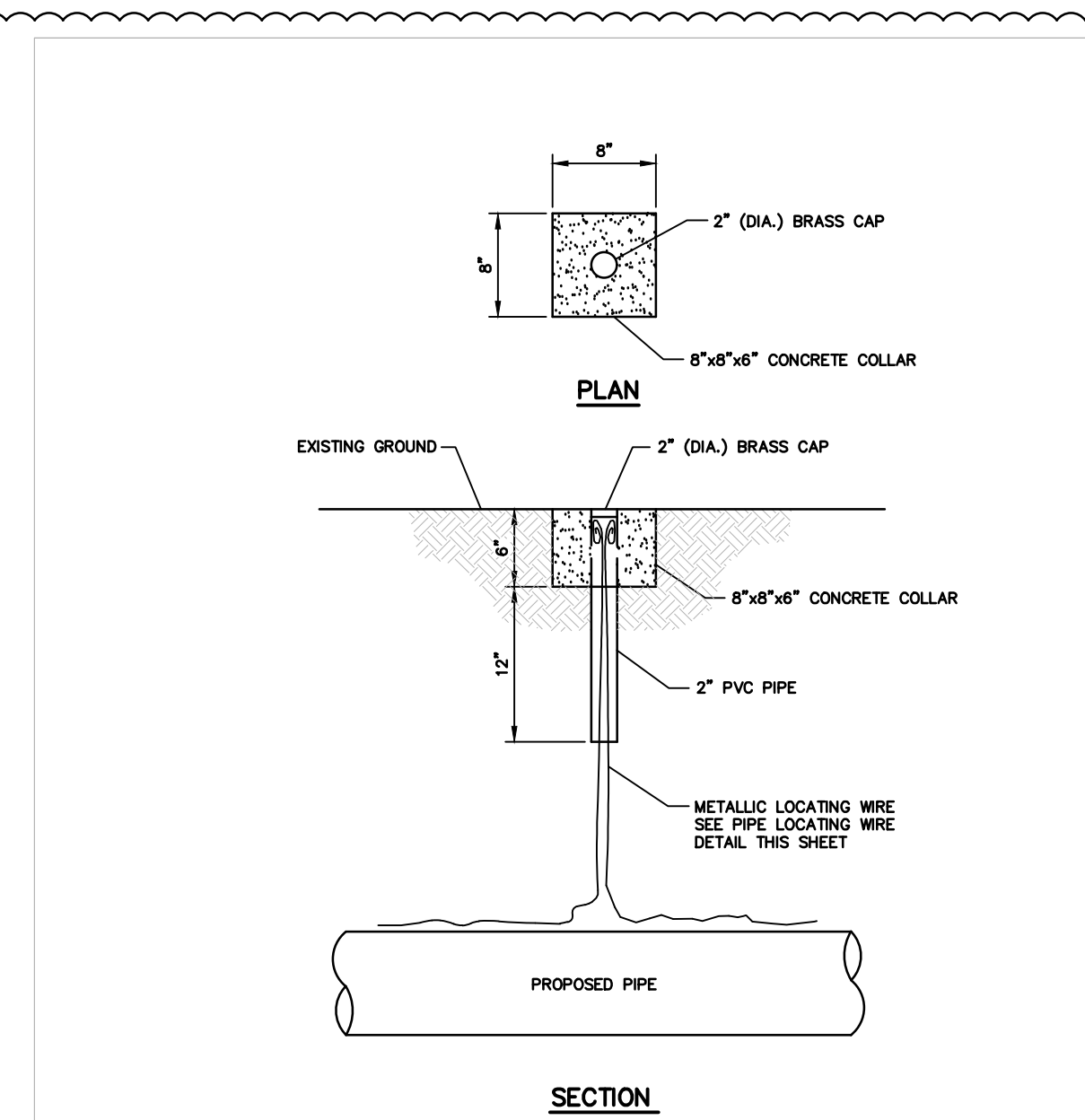


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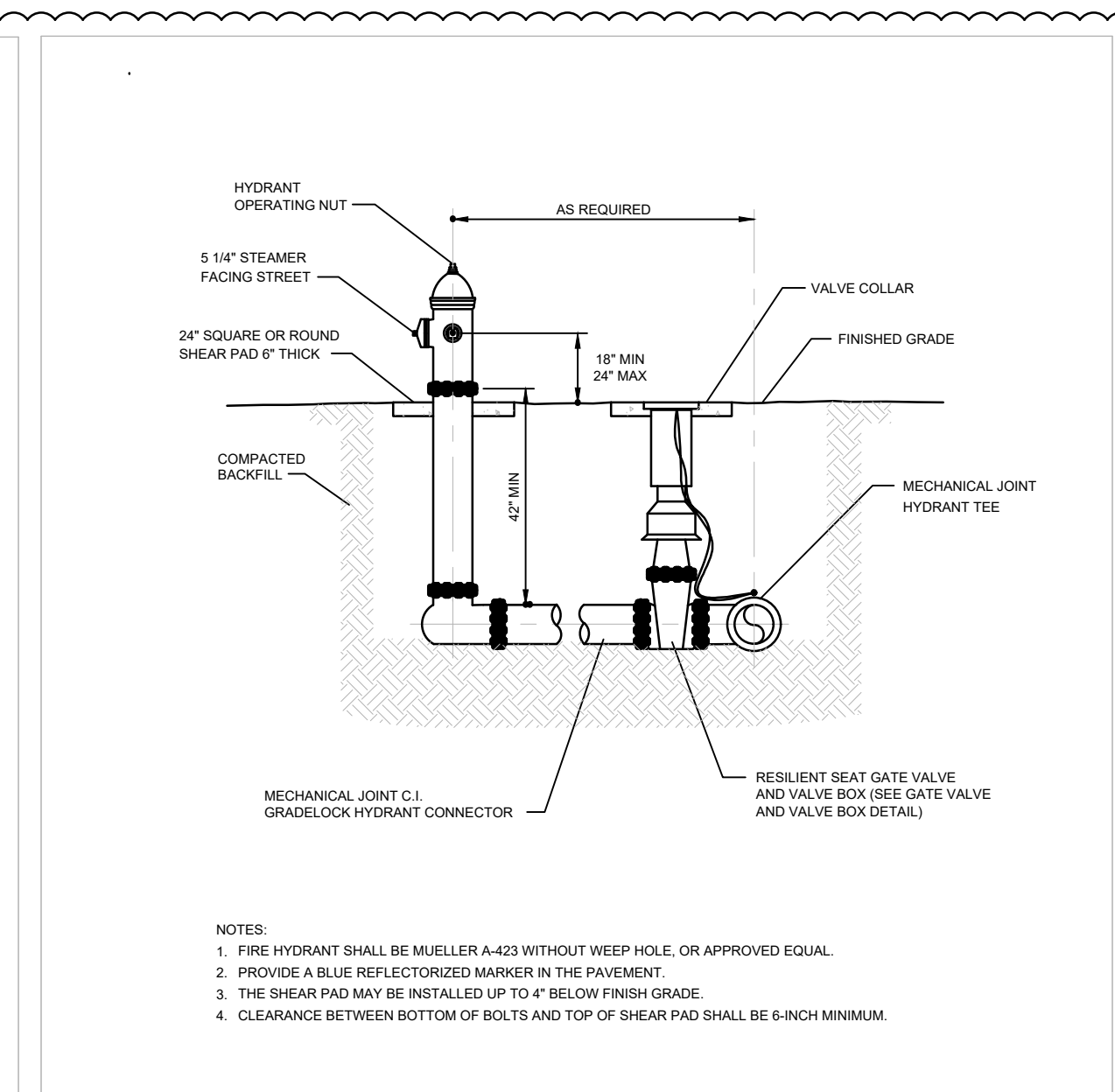


Table with columns: SCALE: NONE, DATE: 6-3-02, FILE: FIREHYD.DWG, WATER DETAILS, STANDARD DETAIL NUMBER: W-1

This document has not been reviewed by the stamping party. Therefore, the stamping party makes no representation(s) with respect to its contents, and shall not be liable for such. Any reliance on this stamp shall be at the relying party(ies)'s own risk and hereby waives any and all claim(s) related to the existence of the stamp or otherwise.

1. BLUE PAVEMENT REFLECTORS (RPMs) SHALL BE PLACED IN THE CENTERLINE OF THE DRIVING LANE DIRECTLY IN FRONT OF EACH FIRE HYDRANT.
2. CONTRACTOR SHALL PROVIDE A POST-CONSTRUCTION FIRE FLOW TEST WITNESSED AND APPROVED BY THE ENGINEER, OWNER/OPERATOR AND LOCAL FIRE OFFICIAL.
3. THERE SHALL BE NO TREES, SHRUBS, ETC., PLANTED AROUND THE FIRE HYDRANTS OR IN AREAS DESIGNATED AS FIRE LANES.
WATER SERVICES
UNLESS OTHERWISE NOTED IN THE PLANS, THE UTILITY COMPANY SHALL PROVIDE AND INSTALL WATER METERS, CONTRACTOR SHALL CONSTRUCT WATER SERVICE THROUGH THE CURB STOP AS SHOWN ON THE CONSTRUCTION PLANS.
PIPE INSTALLATION
PIPE INSTALLATION OF PVC WATER MAIN SHALL BE IN CONFORMANCE WITH ASTM D2774 (LATEST EDITION). INSTALLATION OF DUCTILE IRON PIPE WATER MAIN SHALL BE IN CONFORMANCE WITH AWWA C900.87.
MINIMUM COVER OVER ALL PIPE SHALL BE 36" FROM TOP OF PIPE TO FINISHED GRADE. SEE PLAN AND PROFILE SHEETS FOR REQUIRED DEPTH.
TRENCH DETAILS

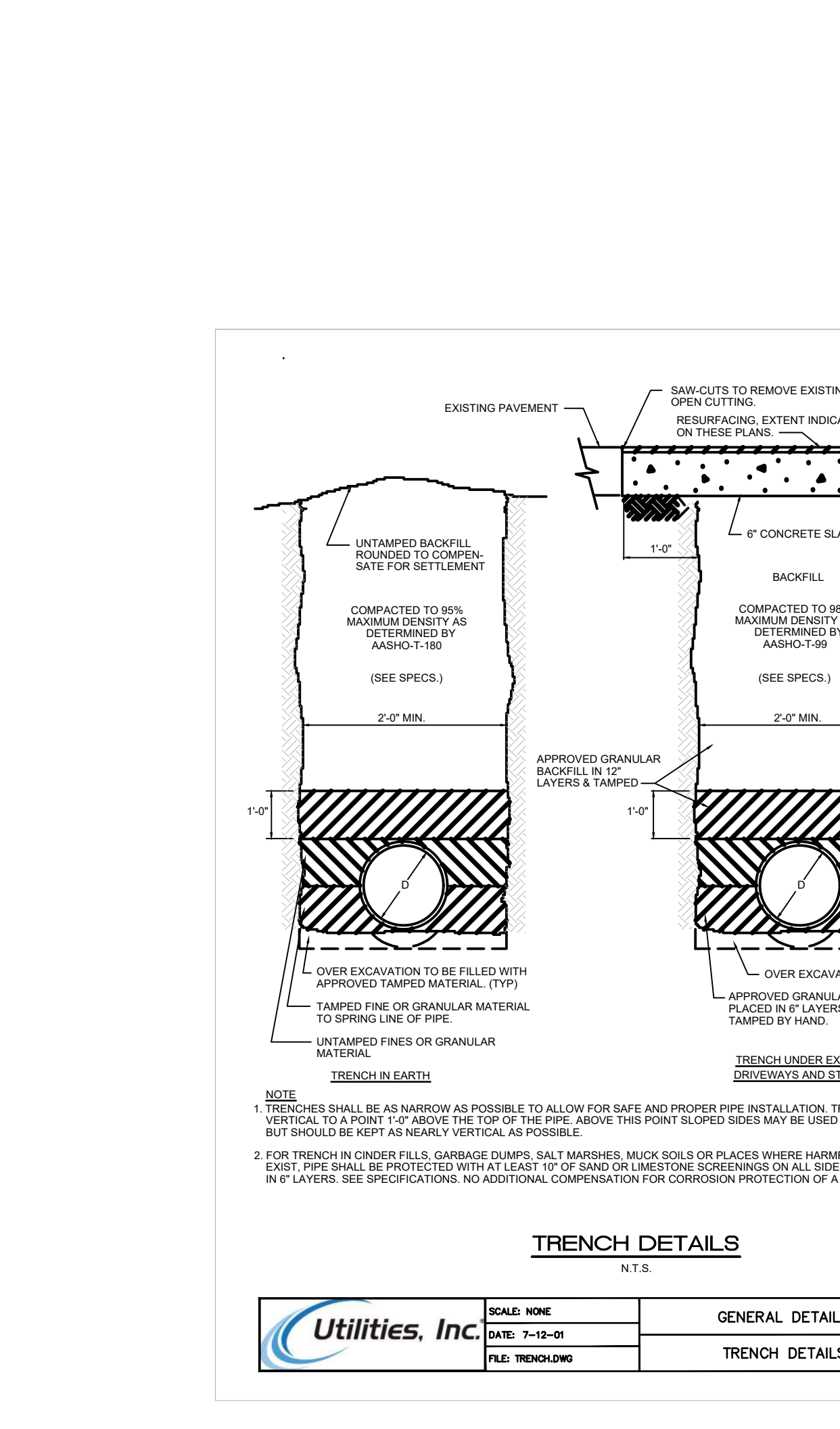


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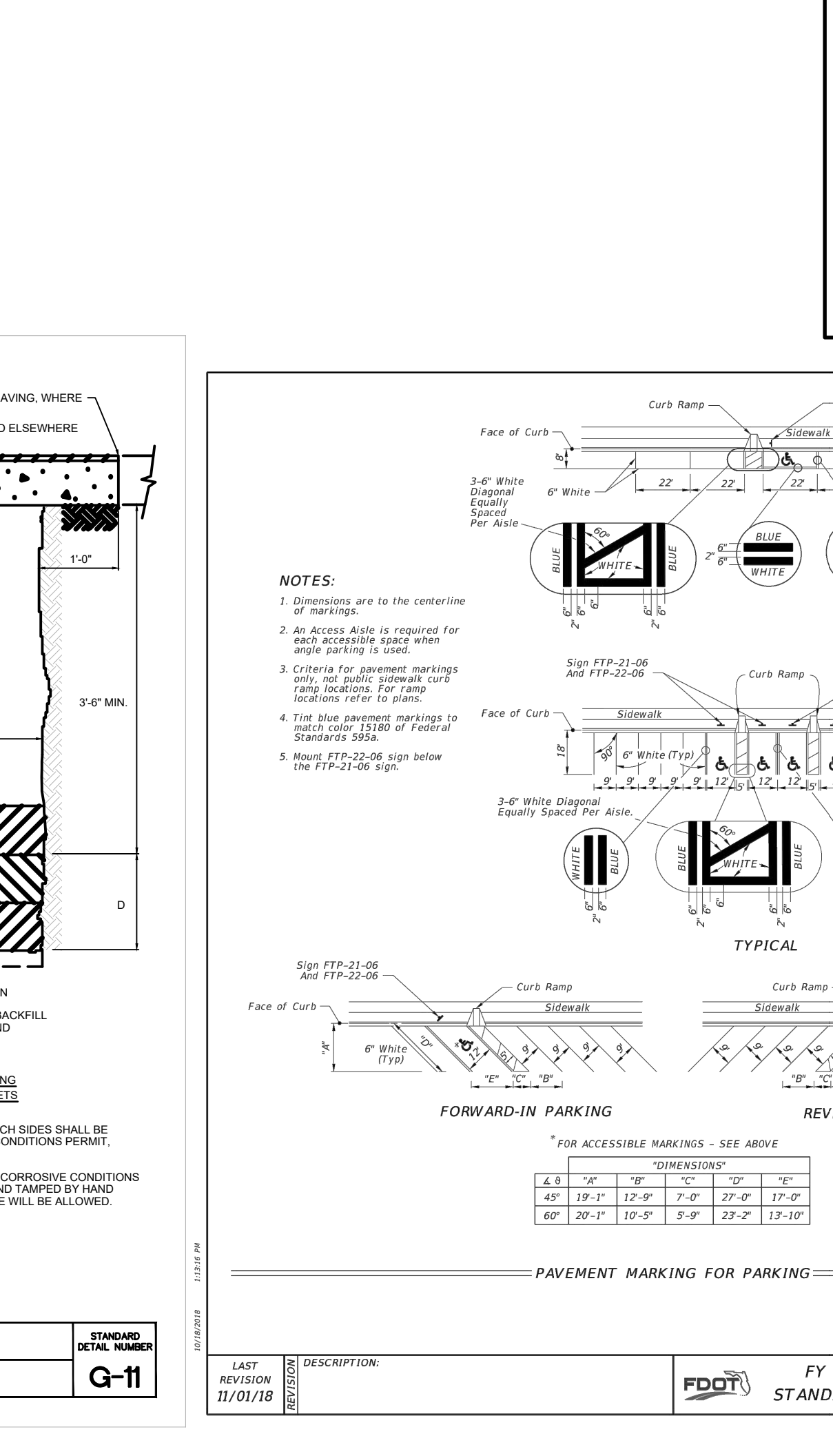
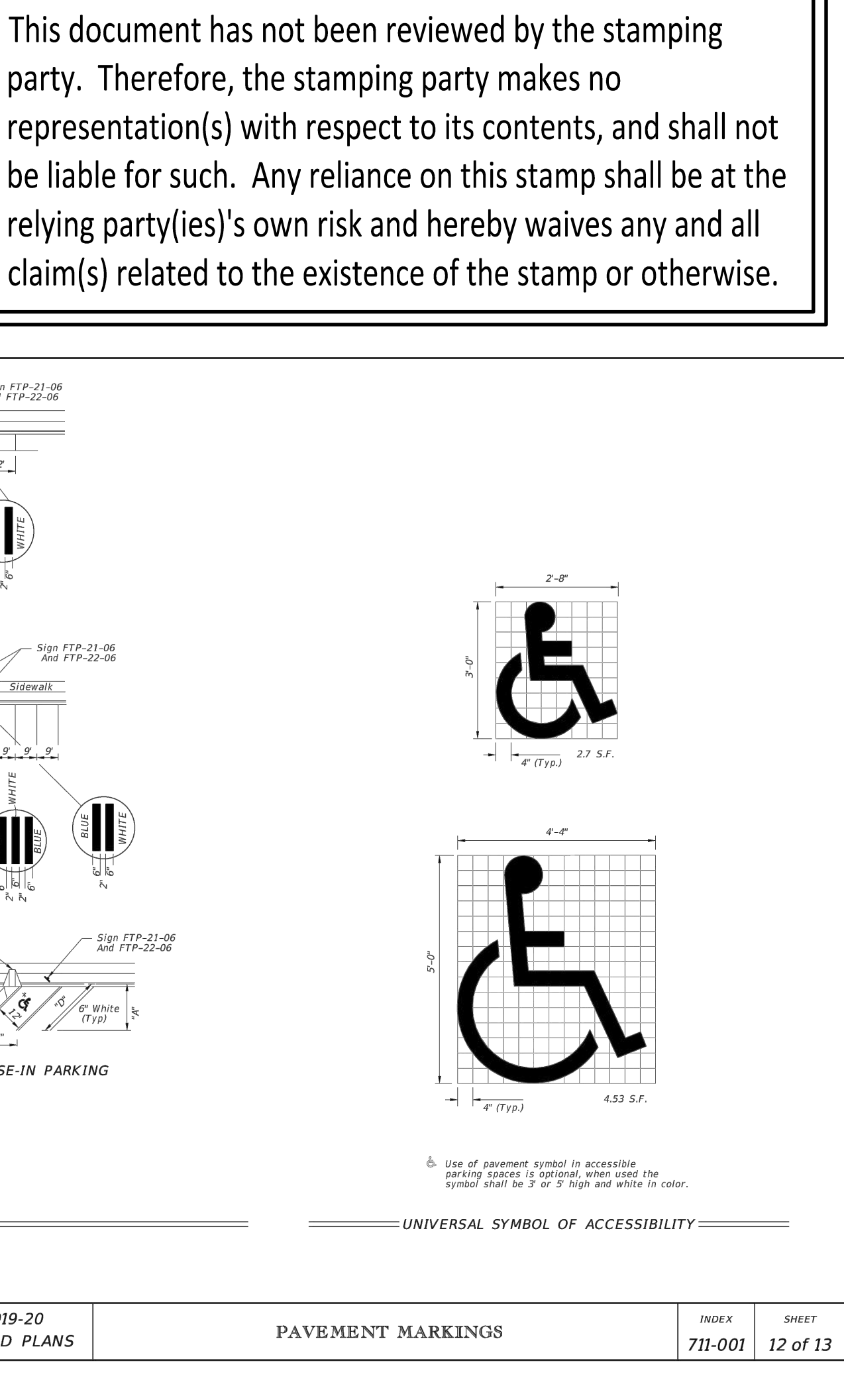
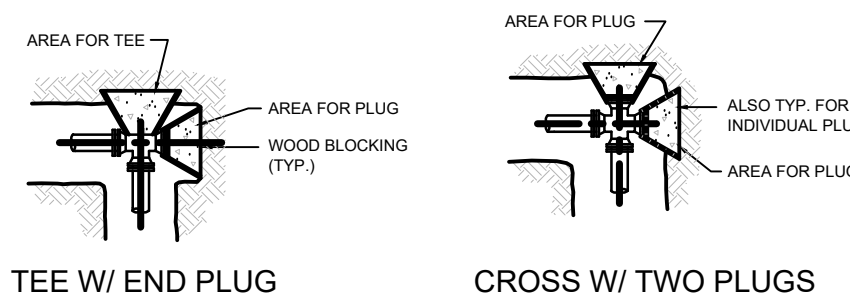


Table with columns: LAST REVISION: 11/01/18, DESCRIPTION: PAPEMENT MARKINGS, STANDARD PLANS, INDEX: 711-001, SHEET: 12 OF 13





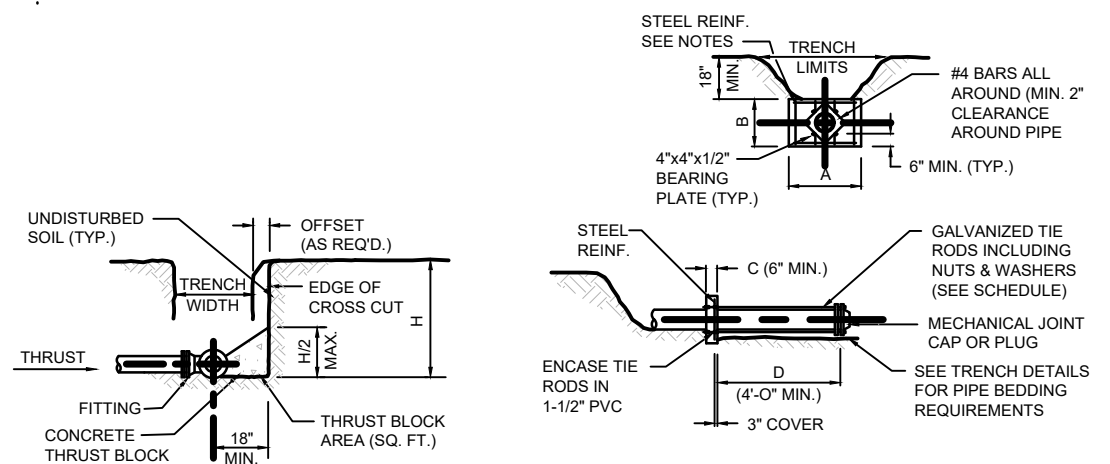
THRUST BLOCK AREAS IN SQ. FT.

PIPE SIZE IN INCHES	90° BEND, TEE'S PLUGS	45° BEND	22.5° BEND	11.25° BEND
4	1.6	0.9	0.4	0.2
6	3.6	1.9	1.0	0.5
8	6.4	3.5	1.8	0.9
10	10.0	5.4	2.8	1.4
12	14.4	7.8	4.0	2.0
16	25.2	13.6	7	3.5

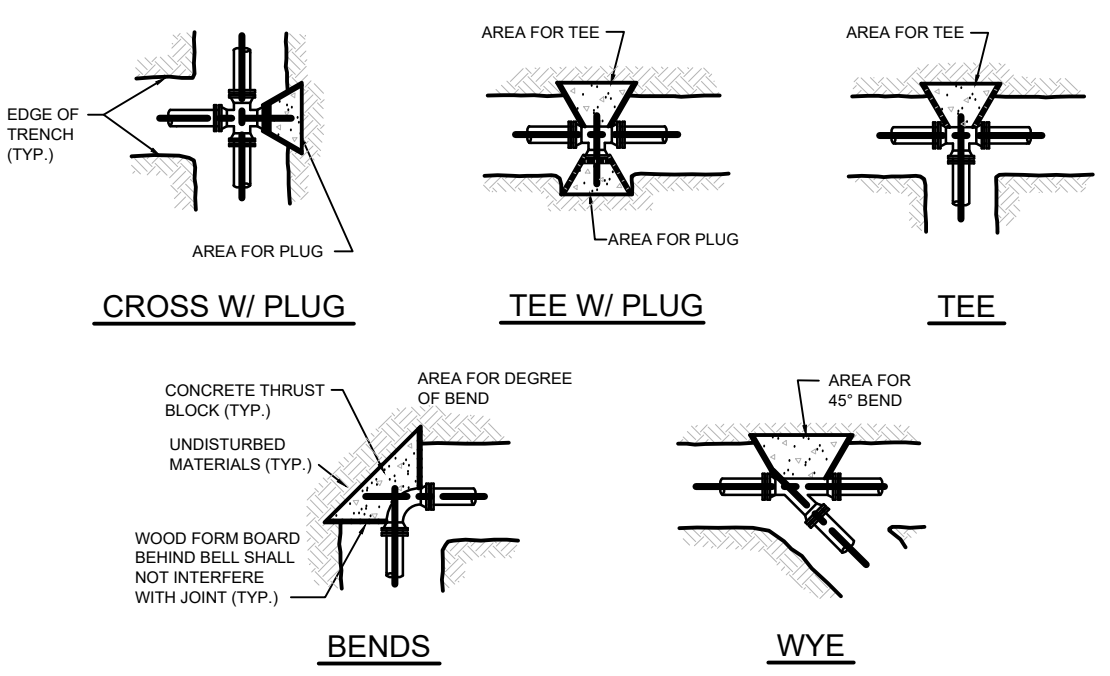
- NOTES**
- RESTRAINED JOINTS SHALL ALWAYS BE USED INSTEAD OF THRUST BLOCKS FOR NEW CONSTRUCTION UNLESS SPECIFICALLY APPROVED IN WRITING BY THE UTILITY.
 - THRUST BLOCK BEARING AREAS SHALL BE POURED AGAINST UNDISTURBED MATERIAL WHERE TRENCH WALL HAS BEEN DISTURBED. EXCAVATE ALL LOOSE MATERIAL AND EXTEND TO UNDISTURBED MATERIAL.
 - EXTEND THRUST BLOCK FULL LENGTH OF FITTINGS. PUT BOARD IN FRONT OF PLUG BEFORE POURING CONCRETE. JOINTS SHALL NOT BE COVERED BY THRUST BLOCK.
 - ROUGH BLOCKING FORMS SHALL BE USED ALONG SIDE OF THRUST BLOCKS.
 - THRUST BLOCKS SHALL BE USED IN COMBINATION, AS REQUIRED, TO SUIT THE SPECIFIC FITTING ARRANGEMENT.
 - ALTERNATE DESIGNED RESTRAINING SYSTEMS SHALL BE PROVIDED WHERE STANDARD THRUST BLOCKING IS NOT SUITABLE. AND/OR SOIL BEARING CAPACITY IS LESS THAN 2,000 P.S.F. OR PIPE IS 16" OR GREATER.
 - ALL WOOD BLOCKING SHALL BE PRESSURE TREATED WITH PRESERVATIVE.
 - THRUST BLOCK AND RESTRAINING SEWER AND WATER MAIN SCHEDULES SHALL BE COMPLETED BY THE ENGINEER, BASED ON ALL DESIGN CONSIDERATIONS INCLUDING BUT NOT LIMITED TO THE FOLLOWING: PIPE TYPE, SOIL BEARING CAPACITY, SOIL TYPE, DEPTH OF COVER, TEST PRESSURE, LAYING CONDITIONS, SAFETY FACTOR.
 - STEEL REINFORCEMENT FOR "DEAD MAN" SHALL BE DETERMINED BY ENGINEER.

THRUST BLOCK DETAILS
N.T.S.

Utilities, Inc.	SCALE: NONE	GENERAL DETAILS	STANDARD DETAIL NUMBER
	DATE: 7-12-01	THRUST BLOCK DETAILS	G-20
	FILE: THRUSTBL.DWG		



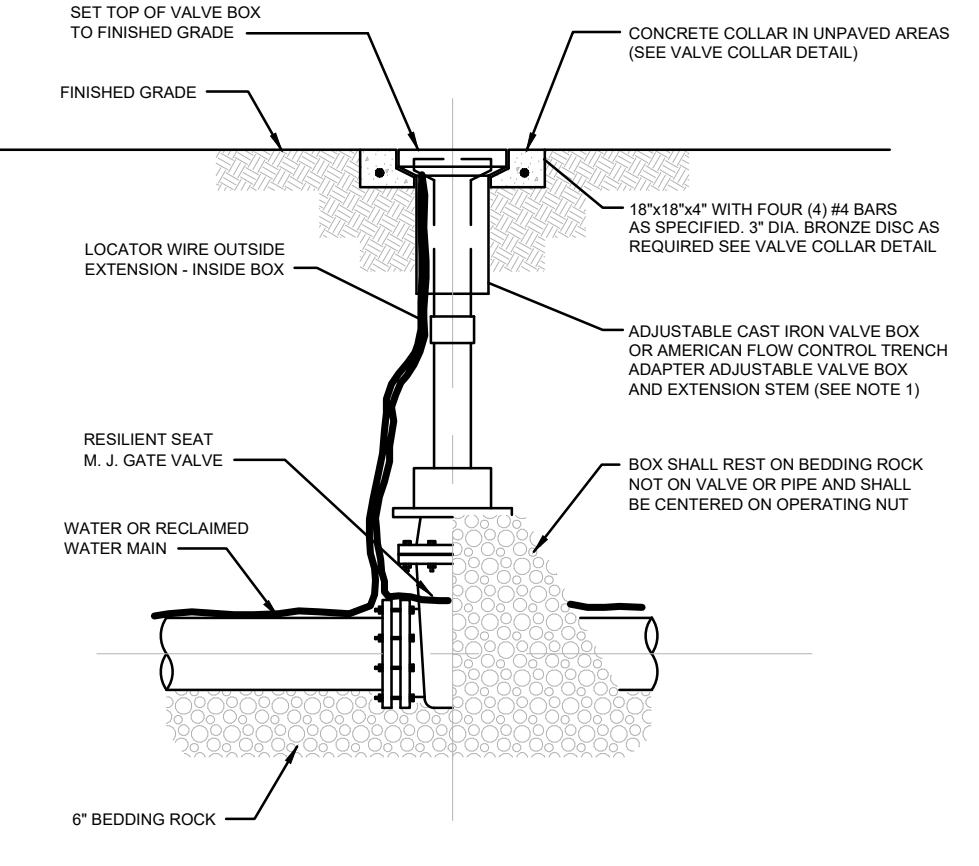
"DEAD MAN" THRUST AND RESTRAINT



NOTE: THRUST BLOCKS ALLOWED ONLY AT LOCATIONS PRE-APPROVED IN WRITING BY UTILITY COMPANY.

THRUST BLOCK DETAILS
N.T.S.

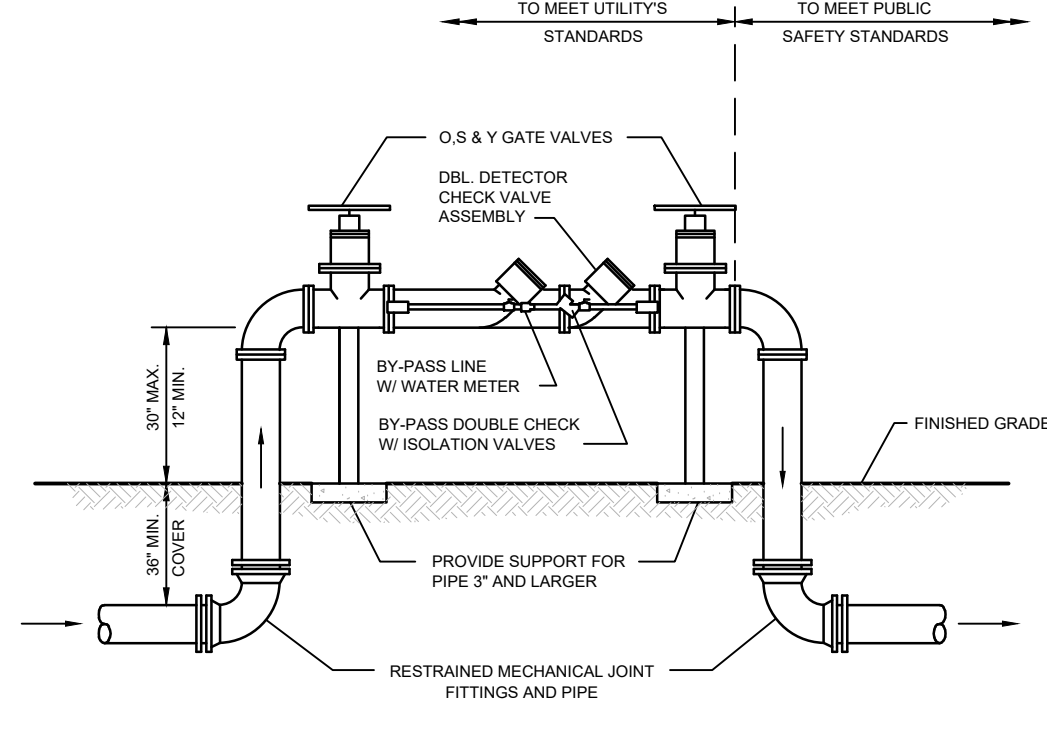
Utilities, Inc.	SCALE: NONE	GENERAL DETAILS	STANDARD DETAIL NUMBER
	DATE: 7-12-01	THRUST BLOCK DETAILS	G-20A
	FILE: THRUSTBL.DWG		



- NOTES**
- PVC EXTENSIONS SHALL NOT BE USED ON VALVE BOX INSTALLATION, EXCEPT FOR THE AMERICAN FLOW CONTROL, TRENCH ADAPTER WITH 2" SQUARE NUT WRENCH AND EXTENSION STEM SPACER AND STOP.
 - COVER TO BE MARKED "WATER", "RECLAIMED", "NPW", OR "SEWER" AS APPROPRIATE.
 - VALVES SHALL NOT BE LOCATED IN STREET CURBS.

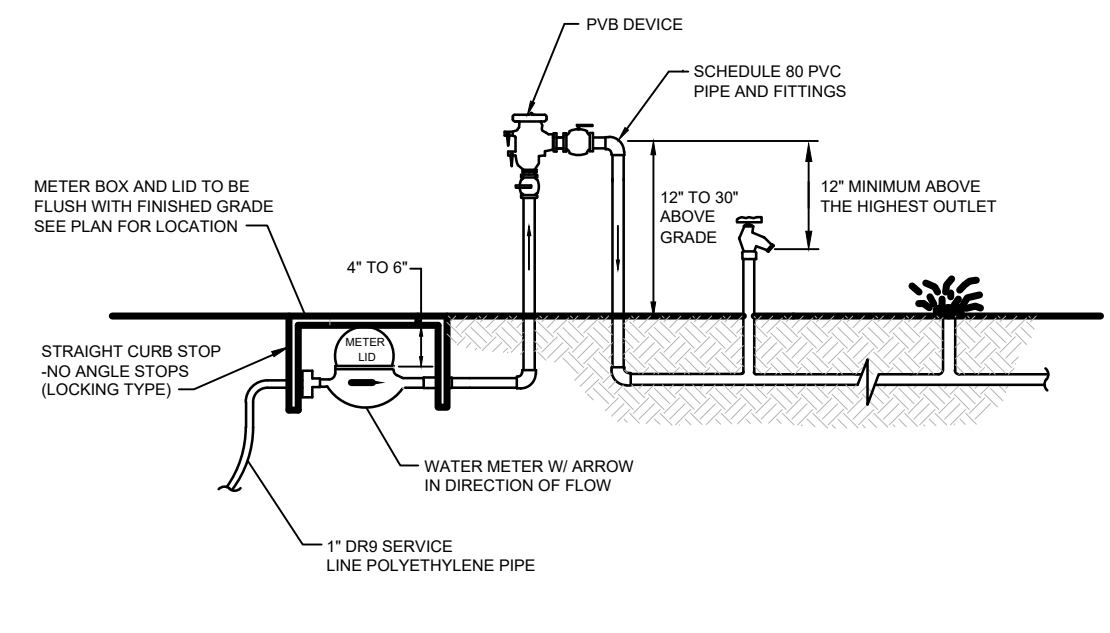
VALVE AND VALVE BOX DETAIL
N.T.S.

Utilities, Inc.	SCALE: NONE	GENERAL DETAILS	STANDARD DETAIL NUMBER
	DATE: 6-28-02	VALVE AND VALVE BOX DETAIL	G-1
	FILE: VALVEBOX.DWG		



FIRE FLOW ACCOUNT
N.T.S.

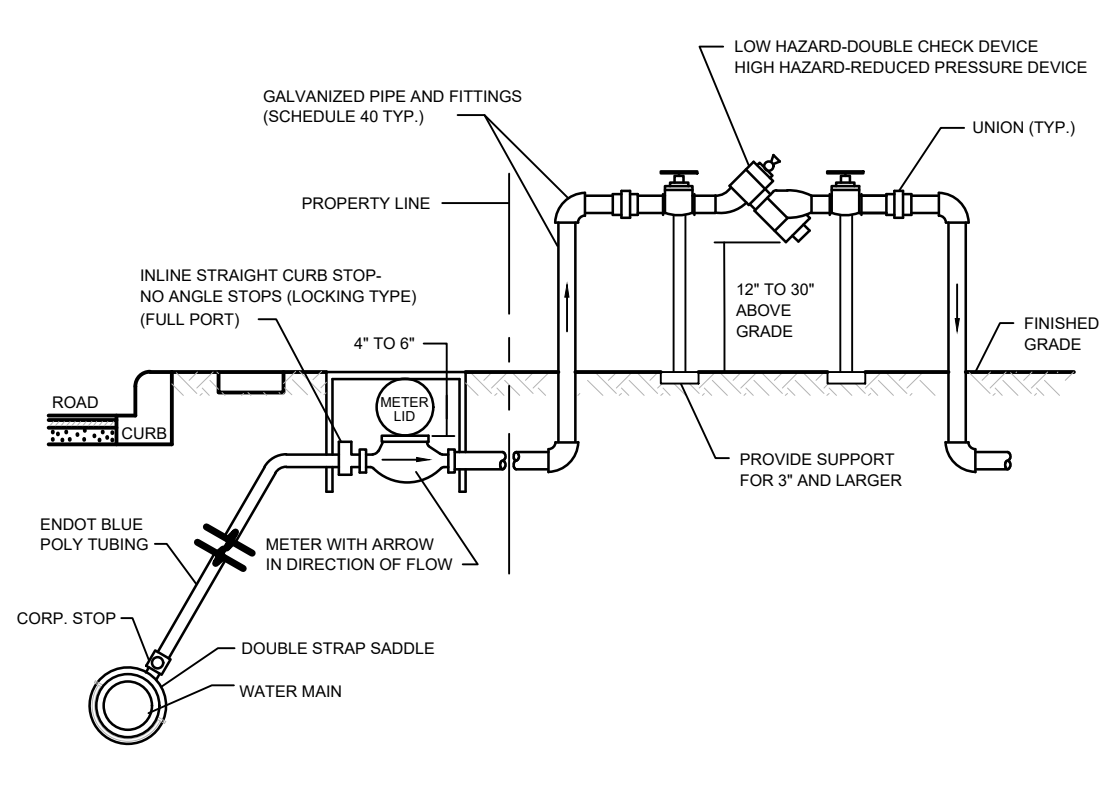
Utilities, Inc.	SCALE: NONE	WATER DETAILS	STANDARD DETAIL NUMBER
	DATE: 6-3-02	FIREFLOW ACCOUNT	W-6
	FILE: FIREFLOW.DWG		



- NOTES**
- PRESSURE VACUUM BREAKER CANNOT BE INSTALLED WHERE THERE CAN BE BACKPRESSURE. ONLY WHERE THERE CAN BE SHUT-OFF VALVES DOWNSTREAM OF THE DEVICE.
 - THE PRESSURE VACUUM BREAKER CAN HAVE SHUT-OFF VALVES DOWNSTREAM OF THE DEVICE.
 - THE PVB MUST BE INSTALLED AT LEAST 12" ABOVE THE HIGHEST OUTLET OR IF IT IS FEEDING AN OPEN TANK, AT LEAST 12" ABOVE THE HIGHEST OVERFLOW RIM OF THE TANK.
 - ON SINGLE FAMILY RESIDENTIAL IRRIGATION SYSTEMS, THE BACKFLOW PREVENTER MAY BE INSTALLED ANYWHERE BETWEEN THE IRRIGATION METER AND THE HOUSE, BUT SHALL BE UPSTREAM OF ANY OUTLETS AND SHALL MEET ALL OTHER INSTALLATION REQUIREMENTS.
 - METER LOCATION TO BE APPROVED BY THE UTILITY

IRRIGATION METER AND PRESSURE VACUUM BREAKER BACKFLOW PREVENTER
N.T.S.

Utilities, Inc.	SCALE: NONE	WATER DETAILS	STANDARD DETAIL NUMBER
	DATE: 6-3-02	IRRIGATION METER AND PRESSURE VACUUM BREAKER BACKFLOW PREVENTER	W-7
	FILE: BACKFLOW.DWG		



- NOTES**
- A POSITIVE DIELECTRIC CONNECTION SHALL BE MADE BETWEEN ALL GALVANIZED AND BRASS COMPONENTS.
 - METER SHALL BE INSTALLED BETWEEN SIDEWALK AND CURB AND IN NO CASE SHALL IT BE INSTALLED IN OTHER PAVED AREAS.
 - NO SERVICE LINE SHALL TERMINATE UNDER A DRIVEWAY.
 - EACH SERVICE SHALL TERMINATE AT A CURB STOP(S) WHICH SHALL BE BURIED APPROXIMATELY 3" BELOW FINAL GRADE AND SHALL BE CLEARLY MARKED WITH A 2" x 2" x 18" STAKE WITH THE TOP PAINTED BLUE.
 - ALL WATER SERVICES AND METER BOXES SHALL BE LOCATED INSIDE THE RIGHT-OF-WAY LINE.
 - CURB STOPS AND CURB STOP(S) SHALL BE BRASS EQUIPPED WITH CONNECTION COMPATIBLE TO CONNECTING SERVICE TYPE AS MANUFACTURED BY MUELLER CO. OR APPROVED EQUAL.
 - LONG SERVICES UNDER PAVEMENT TO BE INSTALLED IN 3" PVC SLEEVE, MINIMUM 3" DEEP.
 - STAINLESS STEEL INSERTS ARE REQUIRED IN THE TUBING

COMMERCIAL WATER SERVICE CONNECTION
N.T.S.

Utilities, Inc.	SCALE: NONE	WATER DETAILS	STANDARD DETAIL NUMBER
	DATE: 6-3-02	COMMERCIAL WATER SERVICE CONNECTION	W-5
	FILE: COMM.DWG		

PIPE RESTRAINT FOR PVC PIPE (C-900/C-905 OR 16)
MINIMUM RESTRAINED LENGTH (FT.) - EACH SIDE OF FITTING

FITTING TYPE	PIPE SIZE - INCHES											
	4	6	8	10	12	14	16	18	20	24		
VERT. UP OR HORIZ.	2	3	4	5	6	8	7	8	9	10		
11-1/4 BEND	5	6	8	10	12	13	15	16	17	20		
22-1/2 BEND	10	13	17	21	24	27	30	33	36	41		
45 BEND	23	32	42	50	58	66	73	80	87	100		
VERTICAL DOWN												
11-1/4 BEND	6	8	10	12	14	16	18	20	22	25		
22-1/2 BEND	11	16	20	24	28	32	36	40	43	50		
45 BEND	23	33	42	51	59	67	76	83	91	102		
90 BEND	56	79	102	122	143	163	182	201	219	253		
BRANCH OF TEE	20	41	63	83	103	129	141	159	177	210		
HEAD END	58	79	102	122	143	163	182	201	219	253		
REDUCERS												
SIZE	6X4	8X4	8X6	10X6	10X8	12X8	12X8	12X10	14X8	14X8		
RESTR. LENGTH	41	74	145	78	41	158	77	42	133	109		
SIZE	16X8	16X8	16X12	18X8	18X12	18X16	20X12	20X16	24X12	24X16		
RESTR. LENGTH	159	137	79	183	111	41	141	78	194	142		

- NOTES**
- SAND-SILT SOIL (COHESIONLESS SOIL WITH 30° INTERNAL FRICTION ANGLE. PIPE FRICTION/SOIL FRICTION RATIO = 0.6, SOIL DENSITY 90 PCF).
 - PIPE LAYING CONDITION 3 (NO SELECT BEDDING OR BACKFILL).
 - 150 PSI DESIGN PRESSURE. FOR 200 PSI DESIGN PRESSURE (PIPE LINES), INCREASE RESTRAINED LENGTH BY 30%.
 - 3 FOOT MINIMUM COVER ON THE PIPE.
 - ALL RESTRAINED JOINT LENGTHS IN FEET.

RESTRAINED JOINT PIPE LENGTHS
C900 PVC PIPE
N.T.S.

Utilities, Inc.	SCALE: NONE	GENERAL DETAILS	STANDARD DETAIL NUMBER
	DATE: 7-12-01	RESTRAINED JOINT PIPE LENGTHS C900 PVC PIPE	G-18
	FILE: RL_PVC.DWG		

PIPE RESTRAINT FOR D.I. PIPE
MINIMUM RESTRAINED LENGTH (FT.) - EACH SIDE OF FITTING

FITTING TYPE	PIPE SIZE - INCHES											
	4	6	8	10	12	14	16	18	20	24		
VERT. UP OR HORIZ.	2	3	4	4	5	6	6	7	8	9		
11-1/4 BEND	4	6	7	9	10	12	13	14	16	18		
22-1/2 BEND	8	12	15	18	21	24	27	30	32	37		
45 BEND	20	29	37	44	52	59	65	72	78	90		
90 BEND												
VERTICAL DOWN												
11-1/4 BEND	4	6	8	9	11	12	14	15	17	19		
22-1/2 BEND	8	12	15	19	22	25	28	31	34	39		
45 BEND	17	26	32	39	45	52	58	64	70	82		
90 BEND	42	60	77	94	109	125	140	155	169	197		
BRANCH OF TEE	15	31	48	63	79	94	108	123	136	164		
HEAD END	42	60	77	94	109	125	140	155	169	197		
REDUCERS												
SIZE	6X4	8X4	8X6	10X6	10X8	12X8	12X8	12X10	14X8	14X8		
RESTR. LENGTH	31	57	33	69	32	82	59	37	103	84		
SIZE	16X6	16X8	16X12	18X8	18X12	18X16	20X12	20X16	24X12	24X16		
RESTR. LENGTH	123	108	60	126	86	32	109	60	150	110		

- NOTES**
- SAND-SILT SOIL (COHESIONLESS SOIL WITH 30° INTERNAL FRICTION ANGLE. PIPE FRICTION/SOIL FRICTION RATIO = 0.75, SOIL DENSITY 90 PCF).
 - PIPE LAYING CONDITION 3 (NO SELECT BEDDING OR BACKFILL).
 - 150 PSI DESIGN PRESSURE. FOR 200 PSI DESIGN PRESSURE (PIPE LINES), INCREASE RESTRAINED LENGTH BY 30%.
 - 3 FOOT MINIMUM COVER ON THE PIPE.
 - ALL RESTRAINED JOINT LENGTHS IN FEET.

RESTRAINED JOINT PIPE LENGTHS
DUCTILE IRON PIPE
N.T.S.

Utilities, Inc.	SCALE: NONE	GENERAL DETAILS	STANDARD DETAIL NUMBER
	DATE: 7-12-01	RESTRAINED JOINT PIPE LENGTHS DUCTILE IRON PIPE	G-19
	FILE: RL_DIP.DWG		

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FOR REFERENCE ONLY

DATE	REMARKS
02.18.21	SITE PLAN REVIEW 1 COMMENTS

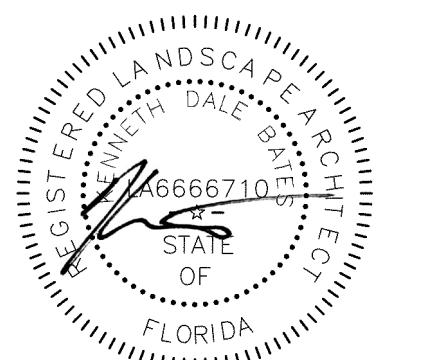
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TACO BELL
HAMMOCK RIDGE & U.S. 27
CLERMONT, FL 34711



ENDEAVOR 2.0
UTILITIES INC.
DETAILS

C-506



Kenneth D. Bates
LA#666710
2022.02.22
14:51:19
-06'00"



LANDSCAPE CALCULATIONS

GROSS SITE AREA: 54,397 SF
ZONING: PUD

LANDSCAPE BUFFERS:

BETWEEN ABUTTING PROPERTIES

NORTH PROPERTY BOUNDARY (277 LF): 2 CANOPY TREES + 1 UNDERSTORY TREES PER 100 LF
CANOPY TREES: 6 TREES REQ'D 6 TREES PROVIDED
UNDERSTORY TREES : 3 TREES REQ'D 3 TREES PROVIDED
CONTINUOUS SHRUB PROVIDED

WEST PROPERTY BOUNDARY (238.6 LF): 2 CANOPY TREES + 1 UNDERSTORY TREES PER 100 LF
CANOPY TREES: 5 TREES REQ'D 5 TREES PROVIDED
UNDERSTORY TREES : 3 TREES REQ'D 3 TREES PROVIDED
CONTINUOUS SHRUB PROVIDED

ADJACENT TO RIGHT-OF-WAY

FRONT YARD: HAMMOCK RIDGE RD (200 LF): 3 CANOPY TREES + FIVE UNDERSTORY TREES PER 100 LF.
CANOPY TREES: 6 TREES REQ'D 6 TREES PROVIDED
UNDERSTORY TREES : 10 TREES REQ'D 10 TREES PROVIDED*
SHRUBS/ GROUNDCOVERS: 50% OF THE REQ'D BUFFER PROVIDED
* 1 (ONE) OF THE REQ'D UNDERSTORY TRESS LOCATED ON US-27 DUE TO SIGNAGE AND UTILITIES

SIDE YARD: US-27 (197.25 LF) 3 CANOPY TREES + FIVE UNDERSTORY TREES PER 100 LF,
CANOPY TREES: 6 TREES REQ'D 6 TREES PROVIDED
UNDERSTORY TREES : 10 TREES REQ'D 10 TREES PROVIDED
SHRUBS/ GROUNDCOVERS: 50% OF THE REQ'D BUFFER PROVIDED

BUILDING FACADE:

ADJACENT TO OR WITHIN 25 FEET FROM THE BUILDING WALLS VISIBLE TO THE PUBLIC, 36 IN WIDE, 60% OF THE TOTAL LENGTH OF THE WALL,

BUILDING LENGTH: 223 LF X .6 = 134 LF
134 LF X 3' WIDE BED = 402 SF. PLANTINGS REQ'D PROVIDED

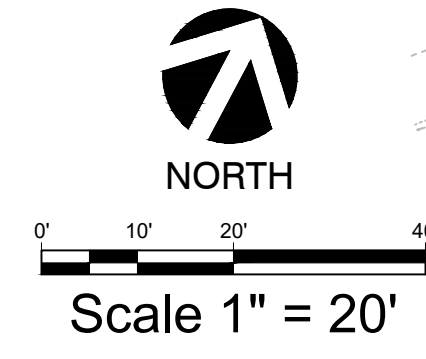
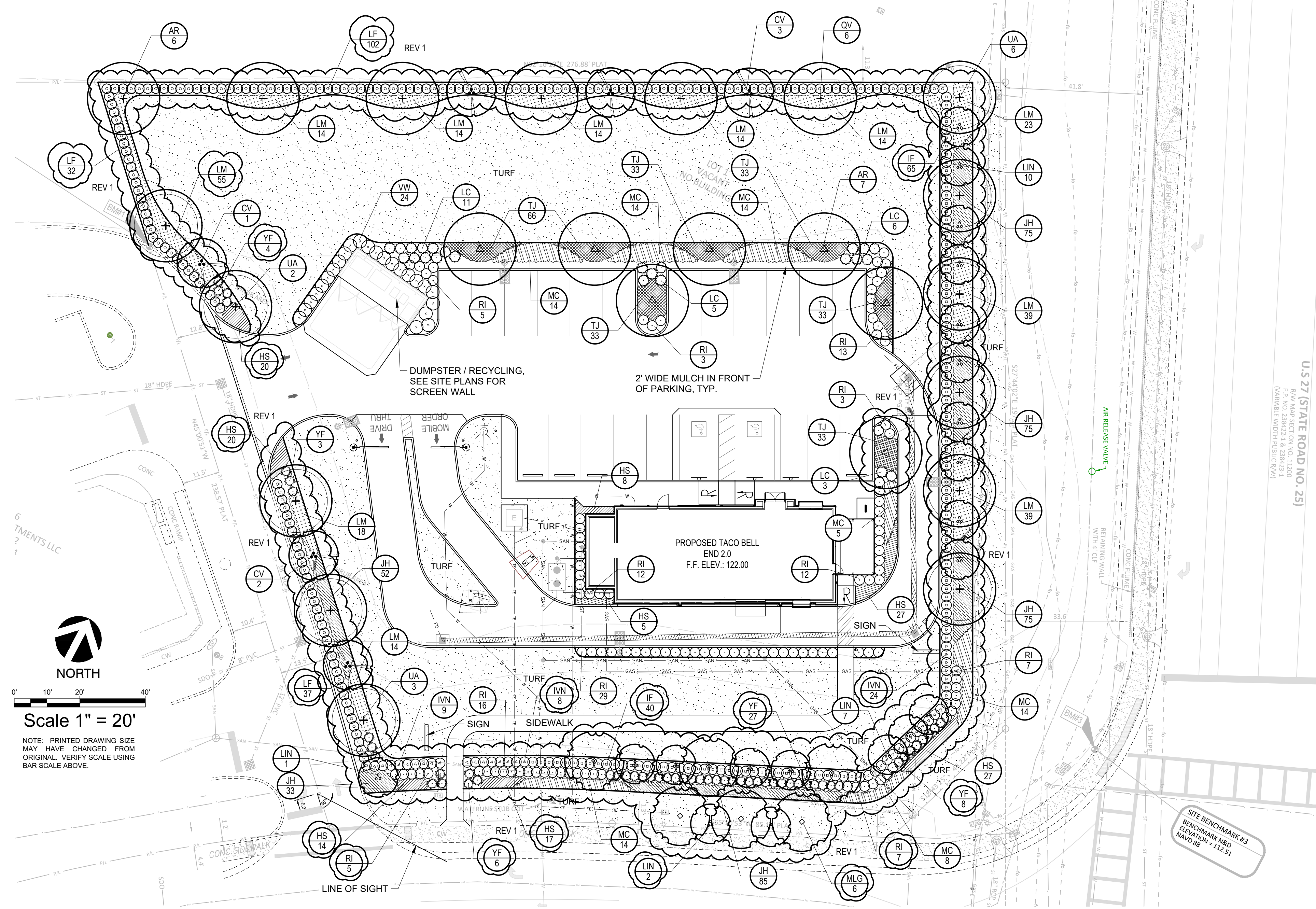
VEHICULAR USE AREA (VUA) INTERIOR LANDSCAPING

LANDSCAPED GREEN AREAS: 10% OF THE PAVED PARKING AREA (PPA);
1 TREE PER 200 SF REQ'D VUA LANDSCAPE AREA

14,364 SF PPA X .1 = 1,436.4 SF PLANTINGS REQ'D PROVIDED
7 TREES REQ'D 7 TREES PROVIDED

LANDSCAPING ADJACENT TO FENCES, WALLS OR DUMPSTER ENCLOSURES

DUMPSTER ENCLOSURE
1 SHRUB PER TWO LINEAR FEET OF DUMPSTER ENCLOSURE
48 LF X .5 = 24 SHRUBS REQ'D 24 SHRUBS PROVIDED



NOTE: PRINTED DRAWING SIZE MAY HAVE CHANGED FROM ORIGINAL. VERIFY SCALE USING BAR SCALE ABOVE.

GENERAL GRADING AND PLANTING NOTES

- ALL PLANT MATERIAL SHALL BE FLORIDA NO. 1 OR BETTER ACCORDING TO GRADES AND STANDARDS FOR NURSERY PLANTS, CURRENT EDITION AT TIME OF INSTALLATION.
- BY SUBMITTING A PROPOSAL FOR THE LANDSCAPE PLANTING SCOPE OF WORK, THE CONTRACTOR CONFIRMS THAT HE HAS READ, AND WILL COMPLY WITH, THE ASSOCIATED NOTES, SPECIFICATIONS, AND DETAILS WITH THIS PROJECT.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL EXISTING VEGETATION (EXCEPT WHERE NOTED TO REMAIN).
- IN THE CONTEXT OF THESE PLANS, NOTES, AND SPECIFICATIONS, "FINISH GRADE" REFERS TO THE FINAL ELEVATION OF THE SOIL SURFACE (NOT TOP OF MULCH) AS INDICATED ON THE GRADING PLANS.
a. BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE ROUGH GRADES OF ALL LANDSCAPE AREAS ARE WITHIN +/-0.1' OF FINISH GRADE. SEE SPECIFICATIONS FOR MORE DETAILED INSTRUCTION ON TURF AREA AND PLANTING BED PREPARATION.
b. CONSTRUCT AND MAINTAIN FINISH GRADES AS SHOWN ON GRADING PLANS, AND CONSTRUCT AND MAINTAIN SLOPES AS RECOMMENDED BY THE GEOTECHNICAL REPORT. ALL LANDSCAPE AREAS SHALL HAVE POSITIVE DRAINAGE AWAY FROM STRUCTURES AT THE MINIMUM SLOPE SPECIFIED IN THE REPORT AND ON THE GRADING PLANS, AND AREAS OF POTENTIAL PONDING SHALL BE REGRADED TO BLEND IN WITH THE SURROUNDING GRADES AND ELIMINATE PONDING POTENTIAL.
c. THE LANDSCAPE CONTRACTOR SHALL DETERMINE WHETHER OR NOT THE EXPORT OF ANY SOIL WILL BE NEEDED, TAKING INTO ACCOUNT THE ROUGH GRADE PROVIDED, THE AMOUNT OF SOIL AMENDMENTS TO BE ADDED (BASED ON A SOIL TEST, PER SPECIFICATIONS), AND THE FINISH GRADES TO BE ESTABLISHED.
d. ENSURE THAT THE FINISH GRADE IN SHRUB AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 3" BELOW THE ADJACENT FINISH SURFACE, IN ORDER TO ALLOW FOR PROPER MULCH DEPTH. TAPER THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED ON THE GRADING PLANS, AT APPROXIMATELY 18" AWAY FROM THE WALKS.
e. ENSURE THAT THE FINISH GRADE IN TURF AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 1" BELOW THE FINISH SURFACE OF THE WALKS. TAPER THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED ON THE GRADING PLANS, AT APPROXIMATELY 18" AWAY FROM THE WALKS.
f. SHOULD ANY CONFLICTS AND/OR DISCREPANCIES ARISE BETWEEN THE GRADING PLANS, GEOTECHNICAL REPORT, THESE NOTES AND PLANS, AND ACTUAL CONDITIONS, THE CONTRACTOR SHALL IMMEDIATELY BRING SUCH ITEMS TO THE ATTENTION OF THE LANDSCAPE ARCHITECT, GENERAL CONTRACTOR, AND OWNER.
- ALL PLANT LOCATIONS ARE DIAGRAMMATIC. ACTUAL LOCATIONS SHALL BE VERIFIED WITH THE LANDSCAPE ARCHITECT OR DESIGNER PRIOR TO PLANTING. THE LANDSCAPE CONTRACTOR SHALL ENSURE THAT ALL REQUIREMENTS OF THE PERMITTING AUTHORITY ARE MET (I.E., MINIMUM PLANT QUANTITIES, PLANTING METHODS, TREE PROTECTION METHODS, ETC.).
a. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR DETERMINING PLANT QUANTITIES; PLANT QUANTITIES SHOWN ON LEGENDS AND CALLOUTS ARE FOR GENERAL INFORMATION ONLY. IN THE EVENT OF A DISCREPANCY BETWEEN THE PLAN AND THE PLANT LEGEND, THE PLANT QUANTITY AS SHOWN ON THE PLAN (FOR INDIVIDUAL SYMBOLS) OR CALLOUT (FOR GROUNDCOVER PATTERNS) SHALL TAKE PRECEDENCE.
b. NO SUBSTITUTIONS OF PLANT MATERIALS SHALL BE ALLOWED WITHOUT THE WRITTEN PERMISSION OF THE LANDSCAPE ARCHITECT. IF SOME OF THE PLANTS ARE NOT AVAILABLE, THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IN WRITING (VIA PROPER CHANNELS).
c. THE CONTRACTOR SHALL, AT A MINIMUM, PROVIDE REPRESENTATIVE PHOTOS OF ALL PLANTS PROPOSED FOR THE PROJECT. THE CONTRACTOR SHALL ALLOW THE LANDSCAPE ARCHITECT AND THE OWNER/OWNER'S REPRESENTATIVE TO INSPECT, AND APPROVE OR REJECT, ALL PLANTS DELIVERED TO THE JOBSITE. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR SUBMITTALS.
- THE CONTRACTOR SHALL MAINTAIN THE LANDSCAPE IN A HEALTHY CONDITION FOR 90 DAYS AFTER ACCEPTANCE BY THE OWNER. REFER TO SPECIFICATIONS FOR CONDITIONS OF ACCEPTANCE FOR THE START OF THE MAINTENANCE PERIOD, AND FOR FINAL ACCEPTANCE AT THE END OF THE MAINTENANCE PERIOD.
- SEE SPECIFICATIONS AND DETAILS FOR FURTHER REQUIREMENTS.

ROOT BARRIERS

THE CONTRACTOR SHALL INSTALL ROOT BARRIERS NEAR ALL NEWLY-PLANTED OR TRANSPLANTED TREES THAT ARE LOCATED WITHIN FIVE (5) FEET OF PUBLIC PAVING OR CURBS. ROOT BARRIERS SHALL BE "CENTURY" OR "DEEP-ROOT" 24" DEEP PANELS (OR EQUAL). BARRIERS SHALL BE LOCATED IMMEDIATELY ADJACENT TO HARDSCAPE. INSTALL PANELS PER MANUFACTURER'S RECOMMENDATIONS. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR USE ROOT BARRIERS OF A TYPE THAT COMPLETELY ENCIRCLE THE ROOTBALL.

MULCHES

AFTER ALL PLANTING IS COMPLETE, CONTRACTOR SHALL INSTALL 2" THICK LAYER OF 1-1/2" SHREDDED WOOD MULCH, NATURAL (UNDYED) IN ALL PLANTING AREAS (EXCEPT FOR TURF AND SEEDED AREAS). CONTRACTOR SHALL SUBMIT SAMPLES OF ALL MULCHES TO LANDSCAPE ARCHITECT AND OWNER FOR APPROVAL PRIOR TO CONSTRUCTION.

CYPRESS MULCH SHALL NOT BE USED.

PLANTING LEGEND

SYMBOL	BOTANIC NAME	COMMON NAME	MIN. SIZE	SPACING	QUANTITY	NATIVE	DROUGHT TOLERANT
REV 1							
TREES							
AR	Acer rebrum 'Florida Flame'	Florida Flame Red Maple	65 gal., 12' ht. x 6' sprd., 3" cal.	per plan	7	YES	NO
CV	Chionanthus virginicus	Fringetree	8' ht. x 4' sprd.	per plan	6	YES	YES
LIN	Lagerstroemia indica 'Natchez'	Crape Myrtle - White	8' ht. x 4' sprd.	per plan	20	NO	YES
MLG	Magnolia g. 'Little Gem'	Little Gem Magnolia	65 gal., 12' ht. x 6' sprd., 3" cal.	per plan	6	YES	YES
QV	Quercus virginiana	Live Oak	65 gal., 12' ht. x 6' sprd., 3" cal.	per plan	6	YES	YES
UA	Ulmus alata	Winged Elm	65 gal., 12' ht. x 6' sprd., 3" cal.	per plan	11	YES	YES
REV 1							
SHRUBS / GROUNDCOVERS / ORNAMENTAL GRASSES							
HS	Hemerocallis x 'Aztec Gold'	Dwarf Evergreen Daylily	1 Gal.	18" o.c.	138	NO	NO
IF	Illicium floridanum	Florida Anise	5 Gal. & 36" ht. min., Full	30" o.c.	105	YES	YES
IVN	Ilex vomitoria 'Nana'	Dwarf Yaupon Holly	5 Gal. & 36" ht. min., Full	30" o.c.	41	YES	YES
JH	Juniperus horizontalis 'Wiltonii'	Blue Rug Juniper	1 Gal., Full	18" o.c.	395	NO	YES
LF	Leucophyllum frutescens	Texas Sage	5 Gal. & 36" ht. min., Full	30" o.c.	171	NO	YES
LM	Liriope muscaris 'Evergreen Giant'	Evergreen Giant Liriope	1 gal., 8-10 pips/pot, 15" ht. min.	24" o.c.	258	NO	YES
LC	Loropetalum chinense 'Rubrum'	Burgundy Fringe Bush	5 Gal. & 36" ht. min., Full	30" o.c.	25	NO	YES
MC	Muhlenbergia capillaris	Muhly Grass	5 Gal. & 36" ht. min., Full	30" o.c.	83	YES	YES
RI	Rhaphiolepis indica	Indian Hawthorn	5 Gal. & 36" ht. min., Full	per plan	112	NO	YES
TJ	Trachelospermum jasminoides	Star Jasmine	1 Gal., 3 stems min., 15"-18"	18" o.c.	231	NO	YES
VW	Viburnum obovatum	Walters Viburnum	7 Gal. & 36" ht. min., Full	per plan	24	YES	YES
YF	Yucca filamentosa 'Adam's Needle'	Adam's Needle Yucca	5 Gal.	per plan	53	YES	YES
TURF							
	Paspalum notatum	Argentine Bahiagrass	Sod	---	---	---	---

DATE	REMARKS
01 2/22/22	REV 1: SITE PLAN REVIEW 1 COMMENTS

CONTRACT DATE: 01.17.22
BUILDING TYPE: END. 2.0
PLAN VERSION: JANUARY 2022
BRAND DESIGNER:
SITE NUMBER: 315420
STORE NUMBER: 457313
PA/PM: JN
DRAWN BY: JN
JOB NO.: 2021088.46



ENDEAVOR 2.0
LANDSCAPE PLAN
LP-1

PLANTING SPECIFICATIONS

GENERAL

- A. QUALIFICATIONS OF LANDSCAPE CONTRACTOR**
- ALL LANDSCAPE WORK SHOWN ON THESE PLANS SHALL BE PERFORMED BY A SINGLE FIRM SPECIALIZING IN LANDSCAPE PLANTING.
 - A LIST OF SUCCESSFULLY COMPLETED PROJECTS OF THIS TYPE, SIZE AND NATURE MAY BE REQUESTED BY THE OWNER FOR FURTHER QUALIFICATION MEASURES.
 - THE LANDSCAPE CONTRACTOR SHALL HOLD A VALID CONTRACTOR'S LICENSE ISSUED BY THE APPROPRIATE LOCAL JURISDICTION.
- B. SCOPE OF WORK**
- WORK COVERED BY THESE SECTIONS INCLUDES THE FURNISHING AND PAYMENT OF ALL MATERIALS, LABOR, SERVICES, EQUIPMENT, LICENSES, TAXES AND ANY OTHER ITEMS THAT ARE NECESSARY FOR THE EXECUTION, INSTALLATION AND COMPLETION OF ALL WORK, SPECIFIED HEREIN AND/OR SHOWN ON THE LANDSCAPE PLANS, NOTES, AND DETAILS.
 - ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES AND REGULATIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION OVER SUCH WORK, INCLUDING ALL INSPECTIONS AND PERMITS REQUIRED BY FEDERAL, STATE AND LOCAL AUTHORITIES IN SUPPLY, TRANSPORTATION AND INSTALLATION OF MATERIALS.
 - THE LANDSCAPE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITY LINES (WATER, SEWER, ELECTRICAL, TELEPHONE, GAS, CABLE, TELEVISION, ETC.) PRIOR TO THE START OF ANY WORK.
- C. PRODUCTS**
- A. ALL MANUFACTURED PRODUCTS SHALL BE NEW**
- B. CONTAINER AND BALLED-AND-BURLAPPED PLANTS:**
- FURNISH NURSERY-GROWN PLANTS COMPLYING WITH ANSI Z601-1-2014. PROVIDE WELL-SHAPED, FULLY BRANCHED, HEALTHY STOCK FREE OF DISEASE, INSECTS, EGGS, LARVAE, AND DEFECTS SUCH AS KNOTS, SUN SCALD, INJURIES, ABRASIONS, AND DISFIGUREMENT. ALL PLANTS WITHIN A SPECIES SHALL HAVE SIMILAR SIZE, AND SHALL BE OF A FORM TYPICAL FOR THE SPECIES. ALL TREES SHALL BE OBTAINED FROM SOURCES WITHIN 200 MILES OF THE PROJECT SITE, AND WITH SIMILAR CLIMATIC CONDITIONS.
 - ROOT SYSTEMS SHALL BE HEALTHY, DENSELY BRANCHED ROOT SYSTEMS, NON-POT-BOUND, FREE FROM ENCIRCLING AND/OR GIRDLING ROOTS, AND FREE FROM ANY OTHER ROOT DEFECTS (SUCH AS J-SHAPED ROOTS).
 - TREES MAY BE PLANTED FROM CONTAINERS OR BALLED-AND-BURLAPPED (B&B), UNLESS SPECIFIED ON THE PLANTING LEGEND. BARE-ROOT TREES ARE NOT ACCEPTABLE.
 - ANY PLANT DEEMED UNACCEPTABLE BY THE LANDSCAPE ARCHITECT OR OWNER SHALL BE IMMEDIATELY REMOVED FROM THE SITE AND SHALL BE REPLACED WITH AN ACCEPTABLE PLANT OF LIKE TYPE AND SIZE AT THE CONTRACTOR'S OWN EXPENSE. ANY PLANTS APPEARING TO BE UNHEALTHY, EVEN IF DETERMINED TO STILL BE ALIVE, SHALL NOT BE ACCEPTED. THE LANDSCAPE ARCHITECT AND OWNER SHALL BE THE SOLE JUDGES AS TO THE ACCEPTABILITY OF PLANT MATERIAL.
 - ALL TREES SHALL BE STANDARD IN FORM, UNLESS OTHERWISE SPECIFIED. TREES WITH CENTRAL LEADERS WILL NOT BE ACCEPTED IF LEADER IS DAMAGED OR REMOVED. PRUNE ALL DAMAGED TWIGS AFTER PLANTING.
 - MEASUREMENTS FOR STANDARD (SINGLE TRUNK) TREES SHALL BE AS FOLLOWS: SIX INCHES ABOVE THE ROOT FLARE FOR TREES UP TO AND INCLUDING TWO INCHES IN CALIPER, AND TWELVE INCHES ABOVE THE ROOT FLARE FOR TREES EXCEEDING TWO INCHES IN CALIPER.
 - MULTI-TRUNK TREES SHALL BE MEASURED BY THEIR OVERALL HEIGHT, MEASURED FROM THE TOP OF THE ROOT BALL. WHERE CALIPER MEASUREMENTS ARE USED, THE CALIPER DEPTH SHALL BE CALCULATED AS ONE-HALF OF THE SUM OF THE CALIPER OF THE THREE LARGEST TRUNKS.
 - ANY TREE OR SHRUB SHOWN TO HAVE EXCESS SOIL PLACED ON TOP OF THE ROOT BALL, SO THAT THE ROOT FLARE HAS BEEN COMPLETELY COVERED, SHALL BE REJECTED.
- C. SOD:** PROVIDE WELL-ROOTED SOD OF THE VARIETY NOTED ON THE PLANS. SOD SHALL BE CUT FROM HEALTHY, MATURE TURF WITH SOIL THICKNESS OF 3/4" TO 1". EACH PALLET OF SOD SHALL BE ACCOMPANIED BY A CERTIFICATE FROM SUPPLIER STATING THE COMPOSITION OF THE SOD.
- D. TOPSOIL:** SANDY TO LOAM TOPSOIL, FREE OF STONES LARGER THAN 1/2 INCH, FOREIGN MATTER, PLANTS, ROOTS, AND SEEDS.
- E. COMPOST:** WELL-COMPOSTED, STABLE, AND WEED-FREE ORGANIC MATTER, pH RANGE OF 5.5 TO 8, MOISTURE CONTENT 35 TO 55 PERCENT BY WEIGHT, 100 PERCENT PASSING THROUGH 3/4-INCH SIEVE; SOIL-BLE SALT CONTENT OF 5 TO 10 DECISEMENS; NOT EXCEEDING 5 PERCENT INERT CONTAMINANTS AND FREE OF SUBSTANCES TOXIC TO PLANTINGS. NO MANURE OR ANIMAL-BASED PRODUCTS SHALL BE USED.
- F. FERTILIZER:** GRANULAR FERTILIZER CONSISTING OF NITROGEN, PHOSPHORUS, POTASSIUM, AND OTHER NUTRIENTS IN PROPORTIONS, AMOUNTS, AND RELEASE RATES RECOMMENDED IN A SOIL REPORT FROM A QUALIFIED SOIL-TESTING AGENCY (SEE BELOW).
- G. PALM MAINTENANCE SPIKES:** AS MANUFACTURED BY THE LUTZ CORP. (800) 203-7740, OR APPROVED EQUAL.
- H. MULCH:** SIZE AND TYPE AS INDICATED ON PLANS, FREE FROM DELETERIOUS MATERIALS AND SUITABLE AS A TOP DRESSING OF TREES AND SHRUBS.
- I. TREE STAKING AND GUYING**
- STAKES: 6' LONG GREEN METAL T-POSTS.
 - GUY AND THE WIRE: ASTM A 641, CLASS 1, GALVANIZED-STEEL WIRE, 2-STRAND, TWISTED, 0.106 INCH DIAMETER.
 - STRAP: CHAINING GUARD, REINFORCED NYLON OR CANVAS AT LEAST 1-1/2 INCH WIDE, WITH GROMMETS TO PROTECT TREE TRUNKS FROM DAMAGE.
- J. STEEL EDGING:** PROFESSIONAL STEEL EDGING, 14 GAUGE THICK X 4 INCHES WIDE, FACTORY PAINTED DARK GREEN. ACCEPTABLE MANUFACTURERS INCLUDE COL-MET OR APPROVED EQUAL.
- K. PRE-EMERGENT HERBICIDES:** ANY GRANULAR, NON-STAINING PRE-EMERGENT HERBICIDE THAT IS LABELED FOR THE SPECIFIC ORNAMENTALS OR TURF ON WHICH IT WILL BE UTILIZED. PRE-EMERGENT HERBICIDES SHALL BE APPLIED PER THE MANUFACTURER'S LABELED RATES.

METHODS

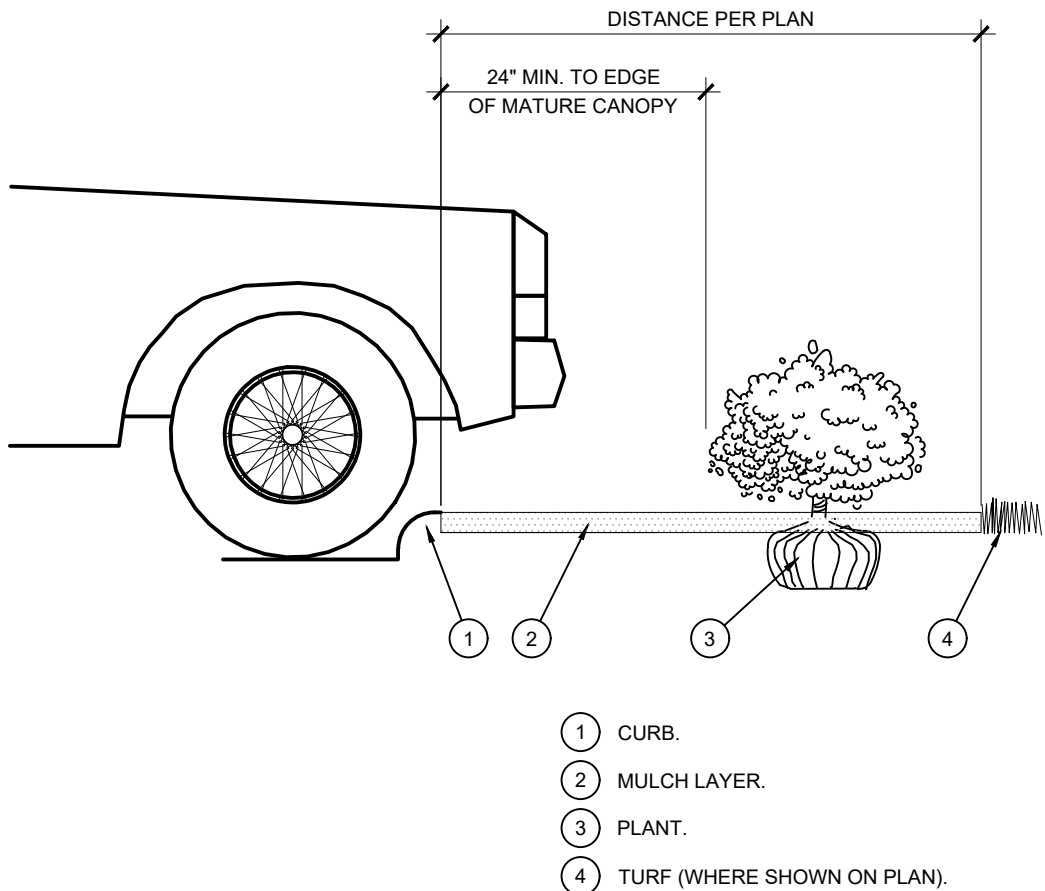
- A. SOIL PREPARATION**
- BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE GRADE OF ALL LANDSCAPE AREAS ARE WITHIN +/-0.1' OF FINISH GRADE. THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY SHOULD ANY DISCREPANCIES EXIST.
 - SOIL TESTING:**
 - AFTER FINISH GRADES HAVE BEEN ESTABLISHED, CONTRACTOR SHALL HAVE SOIL SAMPLES FROM THE PROJECT'S LANDSCAPE AREAS TESTED BY AN ESTABLISHED SOIL TESTING LABORATORY. EACH SAMPLE SUBMITTED TO THE LAB SHALL CONTAIN NO LESS THAN ONE QUART OF SOIL, TAKEN FROM BETWEEN THE SOIL SURFACE AND 6" DEPTH. IF NO SAMPLE LOCATIONS ARE INDICATED ON THE PLANS, THE CONTRACTOR SHALL TAKE A MINIMUM OF THREE SAMPLES FROM VARIOUS REPRESENTATIVE LOCATIONS FOR TESTING.
 - THE CONTRACTOR SHALL HAVE THE SOIL TESTING LABORATORY PROVIDE RESULTS FOR THE FOLLOWING: SOIL TEXTURAL CLASS, GENERAL SOIL FERTILITY, pH, ORGANIC MATTER CONTENT, SALT (CEC), LIME, SODIUM ADSORPTION RATIO (SAR), AND BORON CONTENT.
 - THE CONTRACTOR SHALL ALSO SUBMIT THE PROJECT'S PLANT LIST TO THE LABORATORY ALONG WITH THE SOIL SAMPLES.
 - THE SOIL REPORT PRODUCED BY THE LABORATORY SHALL CONTAIN RECOMMENDATIONS FOR THE FOLLOWING (AS APPROPRIATE): SEPARATE SOIL PREPARATION AND BACKFILL MIX RECOMMENDATIONS FOR GENERAL ORNAMENTAL PLANTS, XERIC PLANTS, TURF, AND NATIVE SEED, AS WELL AS PRE-PLANT FERTILIZER APPLICATIONS AND RECOMMENDATIONS FOR ANY OTHER SOIL RELATED ISSUES. THE REPORT SHALL ALSO PROVIDE A FERTILIZER PROGRAM FOR THE ESTABLISHMENT PERIOD AND FOR LONG-TERM MAINTENANCE.
 - THE CONTRACTOR SHALL INSTALL SOIL AMENDMENTS AND FERTILIZERS PER THE SOILS REPORT RECOMMENDATIONS. ANY CHANGE IN COST DUE TO THE SOIL REPORT RECOMMENDATIONS, EITHER INCREASE OR DECREASE, SHALL BE SUBMITTED TO THE OWNER WITH THE REPORT.
 - FOR BIDDING PURPOSES ONLY,** THE SOIL PREPARATION SHALL CONSIST OF THE FOLLOWING:
 - TURF: INCORPORATE THE FOLLOWING AMENDMENTS INTO THE TOP 8" OF SOIL BY MEANS OF ROTOTILLING AFTER CROSS-RIPPING:
 - NITROGEN STABILIZED ORGANIC AMENDMENT - 4 CU. YDS. PER 1,000 S.F.
 - PREPLANT TURF FERTILIZER (10-20-10 OR SIMILAR, SLOW RELEASE, ORGANIC) - 15 LBS PER 1,000 S.F.
 - "CLAY BUSTER" OR EQUAL - USE MANUFACTURER'S RECOMMENDED RATE
 - TREES, SHRUBS, AND PERENNIALS: INCORPORATE THE FOLLOWING AMENDMENTS INTO THE TOP 8" OF SOIL BY MEANS OF ROTOTILLING AFTER CROSS-RIPPING:
 - NITROGEN STABILIZED ORGANIC AMENDMENT - 4 CU. YDS. PER 1,000 S.F.
 - 12-12-12 FERTILIZER (OR SIMILAR, ORGANIC, SLOW RELEASE) - 10 LBS. PER CU. YD.
 - "CLAY BUSTER" OR EQUAL - USE MANUFACTURER'S RECOMMENDED RATE
 - BON SULPHATE - 2 LBS. PER CU. YD.
- IN THE CONTEXT OF THESE PLANS, NOTES, AND SPECIFICATIONS, "FINISH GRADE" REFERS TO THE FINAL ELEVATION OF THE SOIL SURFACE (NOT TOP OF MULCH) AS INDICATED ON THE GRADING PLANS.
 - BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE ROUGH GRADES OF ALL LANDSCAPE AREAS ARE WITHIN +/-0.1' OF FINISH GRADE. SEE SPECIFICATIONS FOR MORE DETAILED INSTRUCTION ON TURF AREA AND PLANTING BED PREPARATION.
 - CONSTRUCT AND MAINTAIN FINISH GRADES AS SHOWN ON GRADING PLANS, AND CONSTRUCT AND MAINTAIN SLOPES AS RECOMMENDED BY THE GEOTECHNICAL REPORT. ALL LANDSCAPE AREAS SHALL HAVE POSITIVE DRAINAGE AWAY FROM STRUCTURES AT THE MINIMUM SLOPE SPECIFIED IN THE REPORT AND ON THE GRADING PLANS, AND AREAS OF POTENTIAL PONDING SHALL BE REGRADED TO BLEND IN WITH THE SURROUNDING GRADES AND ELIMINATE PONDING POTENTIAL.
 - THE LANDSCAPE CONTRACTOR SHALL DETERMINE WHETHER OR NOT THE EXPORT OF ANY SOIL WILL BE NEEDED, TAKING INTO ACCOUNT THE ROUGH GRADE PROVIDED, THE AMOUNT OF SOIL AMENDMENTS TO BE ADDED (BASED ON A SOIL TEST, PER SPECIFICATIONS), AND THE FINISH GRADES TO BE ESTABLISHED.
 - ENSURE THAT THE FINISH GRADE IN SHRUB AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 3" BELOW THE ADJACENT FINISH SURFACE, IN ORDER TO ALLOW FOR PROPER MULCH DEPTH. TAPER THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED ON THE GRADING PLANS, AT APPROXIMATELY 18" AWAY FROM THE WALKS.
 - ENSURE THAT THE FINISH GRADE IN TURF AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 1" BELOW THE FINISH SURFACE OF THE WALKS. TAPER THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED ON THE GRADING PLANS, AT APPROXIMATELY 18" AWAY FROM THE WALKS.
- SHOULD ANY CONFLICTS AND/OR DISCREPANCIES ARISE BETWEEN THE GRADING PLANS, GEOTECHNICAL REPORT, THESE NOTES AND PLANS, AND ACTUAL CONDITIONS, THE CONTRACTOR SHALL IMMEDIATELY BRING SUCH ITEMS TO THE ATTENTION OF THE LANDSCAPE ARCHITECT, GENERAL CONTRACTOR, AND OWNER.
- ONCE SOIL PREPARATION IS COMPLETE, THE LANDSCAPE CONTRACTOR SHALL ENSURE THAT THERE ARE NO DEBRIS, TRASH, OR STONES LARGER THAN 1" REMAINING IN THE TOP 6" OF SOIL.

B. SUBMITTALS

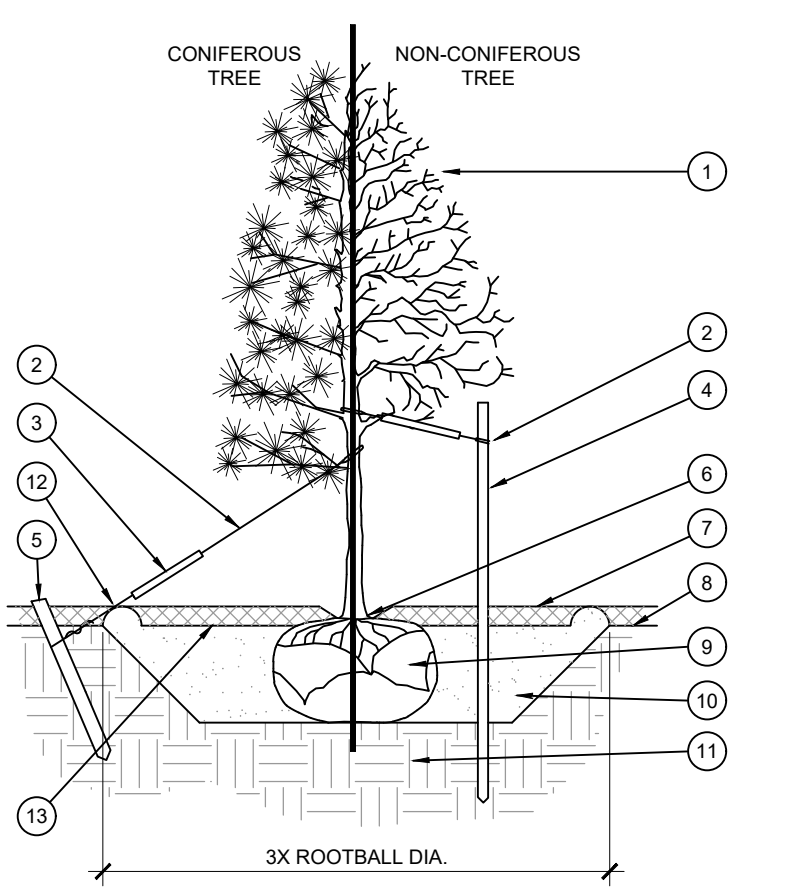
- THE CONTRACTOR SHALL PROVIDE SUBMITTALS AND SAMPLES, IF REQUIRED, TO THE LANDSCAPE ARCHITECT, AND RECEIVE APPROVAL IN WRITING FOR SUCH SUBMITTALS BEFORE WORK COMMENCES.
- SUBMITTALS SHALL INCLUDE PHOTOS OF A RULER OR MEASURING STICK FOR SCALE, PHOTOS OR SAMPLES OF ANY REQUIRED MULCHES, AND SOIL TEST RESULTS AND PREPARATION RECOMMENDATIONS FROM THE TESTING LAB (INCLUDING COMPOST AND FERTILIZER RATES AND TYPES, AND OTHER AMENDMENTS FOR TREES/SHRUB, TURF, AND SEED AREAS AS MAY BE APPROPRIATE).
- SUBMITTALS SHALL ALSO INCLUDE MANUFACTURER CUT SHEETS FOR PLANTING ACCESSORIES SUCH AS TREE STAKES AND TIES, EDGING, AND LANDSCAPE FABRICS (IF ANY).
- WHERE MULTIPLE ITEMS ARE SHOWN ON A PAGE, THE CONTRACTOR SHALL CLEARLY INDICATE THE ITEM BEING CONSIDERED.

C. GENERAL PLANTING

- REMOVE ALL NURSERY TAGS AND STAKES FROM PLANTS.
- EXCEPT IN AREAS TO BE PLANTED WITH ORNAMENTAL GRASSES, APPLY PRE-EMERGENT HERBICIDES AT THE MANUFACTURER'S RECOMMENDED RATE.
- TRENCHING NEAR EXISTING TREES:
 - CONTRACTOR SHALL NOT DISTURB ROOTS 1-1/2' AND LARGER IN DIAMETER WITHIN THE CRITICAL ROOT ZONE (CRZ) OF EXISTING TREES, AND SHALL EXERCISE ALL POSSIBLE CARE AND PRECAUTIONS TO AVOID INJURY TO TREE ROOTS, TRUNKS, AND BRANCHES. THE CRZ IS DEFINED AS A CIRCULAR AREA EXTENDING OUTWARD FROM THE TREE TRUNK, WITH A RADIUS EQUAL TO 1' FOR EVERY 1" OF TRUNK DIAMETER-AT-BREAST-HEIGHT (4.5' ABOVE THE AVERAGE GRADE AT THE TRUNK).
 - ALL EXCAVATION WITHIN THE CRZ SHALL BE PERFORMED USING HAND TOOLS. NO MACHINE EXCAVATION OR TRENCHING OF ANY KIND SHALL BE ALLOWED WITHIN THE CRZ.
 - ALTER ALIGNMENT OF PIPE-STEP RECORD TREETROOTS 100" AND LARGER IN DIAMETER. WHERE TREE ROOTS 1-1/2' AND LARGER IN DIAMETER ARE ENCOUNTERED IN THE FIELD, TUNNEL UNDER SUCH ROOTS. WRAP EXPOSED ROOTS WITH SEVERAL LAYERS OF BURLAP AND KEEP MOIST. CLOSE ALL TRENCHES WITHIN THE CANOPY DRIP LINES WITHIN 24 HOURS.
 - ALL SEVERED ROOTS SHALL BE HAND PRUNED WITH SHARP TOOLS AND ALLOWED TO AIR-DRY. DO NOT USE ANY SORT OF SEALERS OR WOUND PAINTS.
- TREE PLANTING
 - TREE PLANTING HOLES SHALL BE EXCAVATED TO MINIMUM WIDTH OF TWO TIMES THE WIDTH OF THE ROOTBALL, AND TO A DEPTH EQUAL TO THE DEPTH OF THE ROOTBALL LESS TWO TO FOUR INCHES.
 - SCARIFY THE SIDES AND BOTTOM OF THE PLANTING HOLE PRIOR TO THE PLACEMENT OF THE TREE. REMOVE ANY GLAZING THAT MAY HAVE BEEN CAUSED DURING THE EXCAVATION OF THE HOLE.
 - FOR CONTAINER AND BOX TREES: TO REMOVE ANY POTENTIALLY GIRDLING ROOTS AND OTHER ROOT DEFECTS, THE CONTRACTOR SHALL SHAVE A 1" LAYER OFF OF THE SIDES AND BOTTOM OF THE ROOTBALL OF ALL TREES JUST BEFORE PLACING INTO THE PLANTING PIT. DO NOT "TEASE" ROOTS OUT FROM THE ROOTBALL.
 - INSTALL THE TREE ON UNDISTURBED SUBGRADE SO THAT THE TOP OF THE ROOTBALL IS TWO TO FOUR INCHES ABOVE THE SURROUNDING GRADE.
 - BACKFILL THE TREE HOLE UTILIZING THE EXISTING TOPSOIL FROM ON-SITE. ROCKS LARGER THAN 1" DIA. AND ALL OTHER DEBRIS SHALL BE REMOVED FROM THE SOIL PRIOR TO THE BACKFILL. SHOULD ADDITIONAL SOIL BE REQUIRED TO ACCOMPLISH THIS TASK, USE STORED TOPSOIL FROM ON-SITE OR IMPORT ADDITIONAL TOPSOIL FROM OFF-SITE AT NO ADDITIONAL COST TO THE OWNER. IMPORTED TOPSOIL SHALL BE OF SIMILAR TEXTURAL CLASS AND COMPOSITION IN THE ON-SITE SOIL.
 - TREES SHALL NOT BE STAKED UNLESS LOCAL CONDITIONS (SUCH AS HEAVY WINDS OR SLOPES) REQUIRE STAKES TO KEEP TREES UPRIGHT. SHOULD STAKING BE REQUIRED, THE TOTAL NUMBER OF TREE STAKES (BEYOND THE MINIMUMS LISTED BELOW) WILL BE LEFT TO THE LANDSCAPE CONTRACTOR'S DISCRETION. SHOULD TREES FALL OR BE DAMAGED, THE LANDSCAPE CONTRACTOR SHALL STRAIGHTEN THE TREE, OR REPLACE IT SHOULD IT BECOME DAMAGED. TREE STAKING SHALL ADHERE TO THE FOLLOWING GUIDELINES:
 - 1"-2" TREES: TWO STAKES PER TREE
 - 2-12" TREES: THREE STAKES PER TREE
 - TREES OVER 4" CALIPER: GUY AS NEEDED
 - MULTI-TRUNK TREES: THREE STAKES PER TREE MINIMUM. QUANTITY AND POSITIONS AS NEEDED TO STABILIZE THE TREE
 - UPON COMPLETION OF PLANTING, CONSTRUCT AN EARTH WATERING BASIN AROUND THE TREE. COVER THE INTERIOR OF THE TREE RING WITH MULCH (TYPE AND DEPTH PER PLANS).
- PALM PLANTING
 - PALM PLANTING HOLES SHALL BE EXCAVATED TO MINIMUM WIDTH OF TWO TIMES THE WIDTH OF THE ROOTBALL, AND TO A DEPTH EQUAL TO THE DEPTH OF THE ROOTBALL.
 - SCARIFY THE SIDES AND BOTTOM OF THE PLANTING HOLE PRIOR TO THE PLACEMENT OF THE PALM. REMOVE ANY GLAZING THAT MAY HAVE BEEN CAUSED DURING THE EXCAVATION OF THE HOLE.
 - USE BANK SAND MIXED WITH THE EXISTING SOIL (75% BANK SAND AND 25% EXISTING SOIL) AS THE BACKFILL. ROCKS LARGER THAN 1" DIA. AND ALL OTHER DEBRIS SHALL BE REMOVED FROM THE SOIL PRIOR TO THE BACKFILL. SHOULD ADDITIONAL SOIL BE REQUIRED TO ACCOMPLISH THIS TASK, IMPORT ADDITIONAL TOPSOIL FROM OFF-SITE AT NO ADDITIONAL COST TO THE OWNER.
 - BACKFILL AROUND THE ROOTBALL WITH AMENDED SOIL TO TWO-THIRDS OF THE DEPTH OF THE ROOTBALL AND APPLY THE PALM MAINTENANCE SPIKES PER MANUFACTURER'S DIRECTIONS. BACKFILL THE REST OF THE PLANTING HOLE, TAMPING FIRMLY TO REMOVE AIR POCKETS.
 - BRACE THE PALMS USING PALM BRACES (PER PLANTING DETAILS). DO NOT SECURE BRACES TO THE PALM ITSELF.
 - UPON COMPLETION OF PLANTING, CONSTRUCT AN EARTH WATERING BASIN AROUND THE TREE. TOPDRESS WITH MULCH (TYPE AND DEPTH PER PLANS).
- SHRUB, PERENNIAL, AND GROUND COVER PLANTING
 - DIG THE PLANTING HOLES TWICE AS WIDE AND 2" LESS DEEP THAN EACH PLANT'S ROOTBALL. INSTALL THE PLANT IN THE HOLE. BACKFILL AROUND THE PLANT WITH SOIL AMENDED PER SOIL TEST RECOMMENDATIONS.
 - WHEN PLANTING IS COMPLETE, INSTALL MULCH (TYPE AND DEPTH PER PLANS) OVER ALL PLANTING BEDS, COVERING THE ENTIRE PLANTING AREA.
- SODDING
 - SOD VARIETY TO BE AS SPECIFIED ON THE LANDSCAPE PLAN.
 - LAY SOD WITHIN 24 HOURS FROM THE TIME OF STRIPPING. DO NOT LAY IF THE GROUND IS FROZEN.
 - LAY THE SOD TO FORM A SOLID MASS WITH TIGHTLY FITTED JOINTS. BUTT ENDS AND SIDES OF SOD STRIPS - DO NOT OVERLAP. STAGGER JOINTS IN ADJACENT STRIPS TO FORM A CONTINUOUS MAT.
 - ROLL THE SOD TO ENSURE GOOD CONTACT OF THE SOD'S ROOT SYSTEM WITH THE SOIL UNDERNEATH.
 - WATER THE SOD THOROUGHLY WITH A FINE SPRAY IMMEDIATELY AFTER PLANTING TO OBTAIN AT LEAST SIX INCHES OF PENETRATION INTO THE SOIL BELOW THE SOD.
- MULCH
 - INSTALL MULCH TOPDRESSING, TYPE AND DEPTH PER MULCH NOTE, IN ALL PLANTING AREAS AND TREE RINGS.
 - DO NOT INSTALL MULCH WITHIN 6" OF TREE ROOT FLARE, EXCEPT AS MAY BE NOTED ON THESE PLANS. MULCH COVER WITHIN 6" OF CONCRETE WALKS AND CURBS SHALL NOT PROTRUDE ABOVE THE FINISH SURFACE OF THE WALKS AND CURBS. MULCH COVER WITHIN 12" OF WALLS SHALL BE AT LEAST 3" LOWER THAN THE TOP OF WALL.
- CLEAN UP
 - DURING LANDSCAPE PREPARATION AND PLANTING, KEEP ALL PAVEMENT CLEAN AND ALL WORK AREAS IN A NEAT, ORDERLY CONDITION.
 - LEGALLY DISPOSE ALL UNWANTED MATERIALS OFF THE PROJECT SITE.
- INSPECTION AND ACCEPTANCE
 - UPON COMPLETION OF THE WORK, THE LANDSCAPE CONTRACTOR SHALL PROVIDE THE SITE CLEAN, FREE OF DEBRIS AND TRASH, AND SUITABLE FOR USE AS INTENDED. THE LANDSCAPE CONTRACTOR SHALL THEN REQUEST AN INSPECTION BY THE OWNER TO DETERMINE FINAL ACCEPTABILITY.
 - WHEN THE INSPECTED PLANTING WORK DOES NOT COMPLY WITH THE CONTRACT DOCUMENTS, THE LANDSCAPE CONTRACTOR SHALL REPLACE AND/OR REPAIR THE REJECTED WORK TO THE OWNER'S SATISFACTION WITHIN 24 HOURS.
 - THE LANDSCAPE MAINTENANCE PERIOD WILL NOT COMMENCE UNTIL THE LANDSCAPE WORK HAS BEEN RE-INSPECTED BY THE OWNER AND FOUND TO BE ACCEPTABLE. AT THAT TIME, A WRITTEN NOTICE OF FINAL ACCEPTANCE WILL BE ISSUED BY THE OWNER, AND THE MAINTENANCE AND GUARANTEE PERIODS WILL COMMENCE.
- LANDSCAPE MAINTENANCE
 - THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL WORK SHOWN ON THESE PLANS FOR 90 DAYS BEYOND FINAL ACCEPTANCE OF ALL LANDSCAPE WORK BY THE OWNER. LANDSCAPE MAINTENANCE SHALL INCLUDE WEEKLY SITE VISITS FOR THE FOLLOWING ACTIONS (AS APPROPRIATE): PROPER PRUNING, RESTAKING OF TREES, RESETTING OF PLANTS THAT HAVE SETTLED, MOWING AND AERATION OF LAWNS, WEEDING, TREATING FOR INSECTS AND DISEASES, REPLACEMENT OF MULCH, REMOVAL OF LITTER, REPAIRS TO THE IRRIGATION SYSTEM DUE TO FAULTY PARTS AND/OR WORKMANSHIP, AND THE APPROPRIATE WATERING OF ALL PLANTINGS. THE LANDSCAPE CONTRACTOR SHALL MAINTAIN THE IRRIGATION SYSTEM IN PROPER WORKING ORDER, WITH SCRIES BEING FIRST MOVED. SCRIES LARGER THAN TWELVE SQUARE INCHES MUST BE RESODDED PRIOR TO FINAL ACCEPTANCE. ALL SODDED TURF SHALL BE NEATLY MOWED.
 - THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING THESE AREAS AND OBTAINING A FULL, HEALTHY STAND OF PLANTS AT NO ADDITIONAL COST TO THE OWNER.
 - TO MAINTAIN THE 1" OF RECORD DRAINAGE AT THE END OF THE MAINTENANCE PERIOD, ALL OF THE FOLLOWING CONDITIONS MUST OCCUR:
 - THE LANDSCAPE SHALL SHOW ACTIVE, HEALTHY GROWTH (WITH EXCEPTIONS MADE FOR SEASONAL DORMANCY). ALL PLANTS NOT MEETING THIS CONDITION SHALL BE REJECTED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
 - ALL HARDSCAPE SHALL BE CLEANED PRIOR TO FINAL ACCEPTANCE.
 - SODDED AREAS MUST BE ACTIVELY GROWING AND MUST REACH A MINIMUM HEIGHT OF 1 1/2 INCHES BEFORE THE FIRST MOWING. BARE AREAS LARGER THAN TWELVE SQUARE INCHES MUST BE RESODDED PRIOR TO FINAL ACCEPTANCE. ALL SODDED TURF SHALL BE NEATLY MOWED.
- WARRANTY PERIOD, PLANT GUARANTEE AND REPLACEMENTS
 - THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL TREES, SHRUBS, PERENNIALS, SOD, AND IRRIGATION SYSTEMS FOR A PERIOD OF ONE YEAR FROM THE DATE OF THE OWNER'S FINAL ACCEPTANCE (90 DAYS FOR ANNUAL PLANTS). THE CONTRACTOR SHALL REPLACE, AT HIS OWN EXPENSE AND TO THE SATISFACTION OF THE OWNER, ANY PLANTS WHICH DIE IN THAT TIME, OR REPAIR ANY PORTION OF THE IRRIGATION SYSTEM WHICH OPERATE IMPROPERLY.
 - AFTER THE INITIAL MAINTENANCE PERIOD AND DURING THE GUARANTEE PERIOD, THE LANDSCAPE CONTRACTOR SHALL ONLY BE RESPONSIBLE FOR REPLACEMENT OF PLANTS WHEN PLANT DEATH CANNOT BE ATTRIBUTED DIRECTLY TO OVERWATERING OR OTHER DAMAGE BY HUMAN ACTIONS. PROVIDE A MINIMUM OF (2) COPIES OF RECORD DRAWINGS TO THE OWNER UPON COMPLETION OF WORK. A RECORD DRAWING IS A RECORD OF ALL CHANGES THAT OCCURRED IN THE FIELD AND THAT ARE DOCUMENTED THROUGH CHANGE ORDERS, ADDENDA, OR CONTRACTOR/CONSULTANT DRAWING MARKUPS.

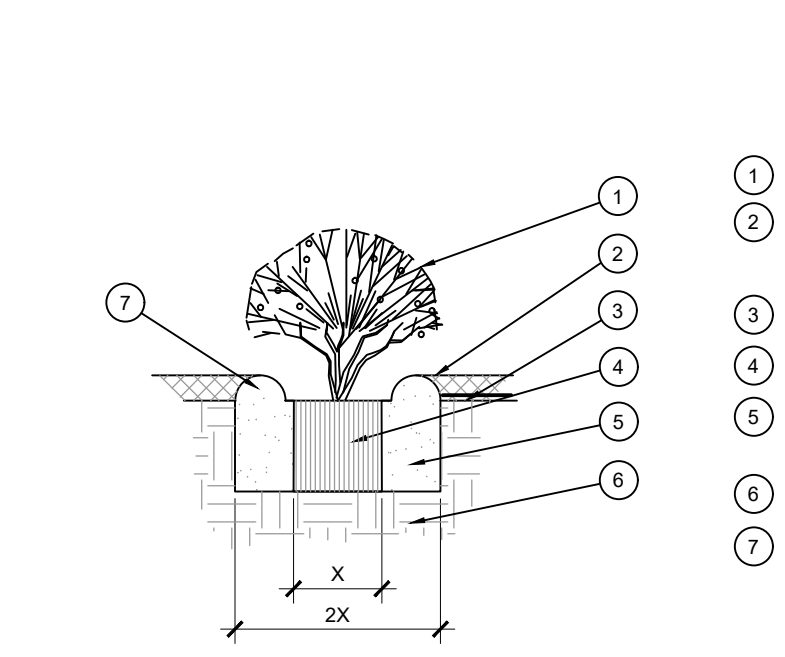


D PLANTING AT PARKING AREA
SCALE: NOT TO SCALE

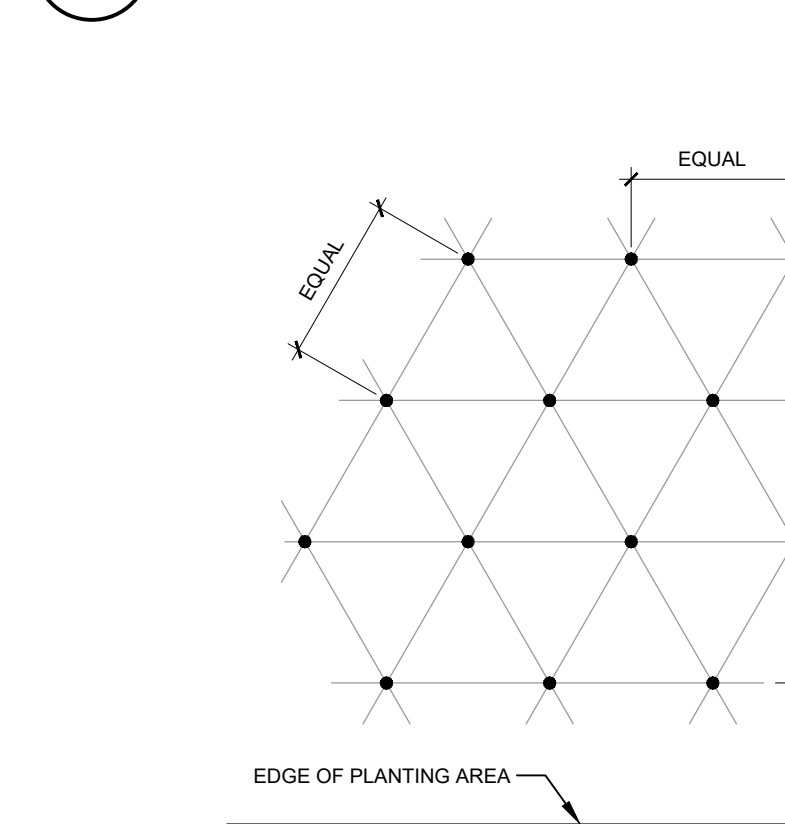


B SHRUB AND PERENNIAL PLANTING
SCALE: NTS

A TREE PLANTING
SCALE: NOT TO SCALE



C PLANT SPACING
SCALE: NTS



D STAKING EXAMPLES (PLAN VIEW)

PLANT SPACING	AREA DIVIDER	PLANT SPACING	AREA DIVIDER
6"	0.22	18"	1.95
8"	0.39	24"	3.46
10"	0.60	30"	5.41
12"	0.87	36"	7.79
15"	1.35		

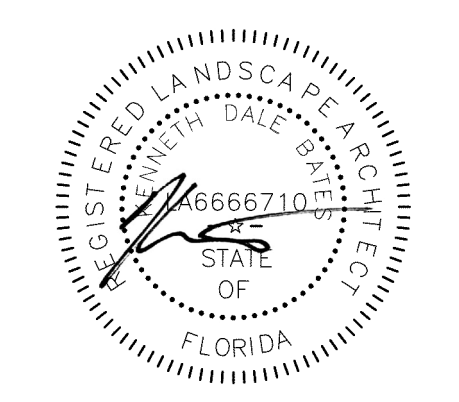
EXAMPLE: PLANTS AT 18" O.C. IN 100 SF PLANTING AREA, 40 LF PERIMETER
 STEP 1: 100 SF / 1.95 = 51 PLANTS
 STEP 2: 51 PLANTS - (40 LF / 1.95 = 21 PLANTS) = 30 PLANTS TOTAL

C PLANT SPACING
SCALE: NTS

- TREE CANOPY.
- CINCH-TIES (24" BOX/2" CAL. TREES AND SMALLER) OR 12 GAUGE GALVANIZED WIRE WITH NYLON TREE STRAPS AT TREE AND STAKE (30" BOX/2.5" CAL. TREES AND LARGER). SECURE TIES OR STRAPS TO TRUNK JUST ABOVE LOWEST MAJOR BRANCHES.
- 24" X 3/4" P.V.C. MARKERS OVER WIRES.
- GREEN STEEL T-POSTS. EXTEND POSTS 12" MIN. INTO UNDISTURBED SOIL.
- PRESSURE-TREATED WOOD DEADMAN, TWO PER TREE (MIN.). BURY OUTSIDE OF PLANTING PIT AND 18" MIN. INTO UNDISTURBED SOIL.
- TRUNK FLARE.
- MULCH, TYPE AND DEPTH PER PLANS. DO NOT PLACE MULCH WITHIN 6" OF TRUNK.
- FINISH GRADE.
- ROOT BALL.
- BACKFILL, AMEND AND FERTILIZE ONLY AS RECOMMENDED IN SOIL FERTILITY ANALYSIS.
- UNDISTURBED NATIVE SOIL.
- 4" HIGH EARTHEN WATERING BASIN.
- FINISH GRADE.

- NOTES:**
- SCARIFY SIDES OF PLANTING PIT PRIOR TO SETTING TREE.
 - REMOVE EXCESS SOIL APPLIED ON TOP OF THE ROOTBALL THAT COVERS THE ROOT FLARE. THE PLANTING HOLE DEPTH SHALL BE SUCH THAT THE ROOTBALL RESTS ON UNDISTURBED SOIL, AND THE ROOT FLARE IS 2"-4" ABOVE FINISH GRADE.
 - FOR B&B TREES, CUT OFF BOTTOM 1/3 OF WIRE BASKET BEFORE PLACING TREE IN HOLE. CUT OFF AND REMOVE REMAINDER OF BASKET AFTER TREE IS SET IN HOLE. REMOVE ALL NYLON TIES, TWINE, ROPE, AND OTHER PACKING MATERIAL. REMOVE AS MUCH BURLAP FROM AROUND ROOTBALL AS IS PRACTICAL.
 - REMOVE ALL NURSERY STAKES AFTER PLANTING.
 - FOR TREES 36" BOX/2.5" CAL. AND LARGER, USE THREE STAKES OR DEADMEN (AS APPROPRIATE), SPACED EVENLY AROUND TREE.
 - STAKING SHALL BE TIGHT ENOUGH TO PREVENT TRUNK FROM BENDING, BUT LOOSE ENOUGH TO ALLOW SOME TRUNK MOVEMENT IN WIND.

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Kenneth D Bates
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Approved Site Review
 CLERMONT
 03/17/2022 2:07:24

DATE	REMARKS

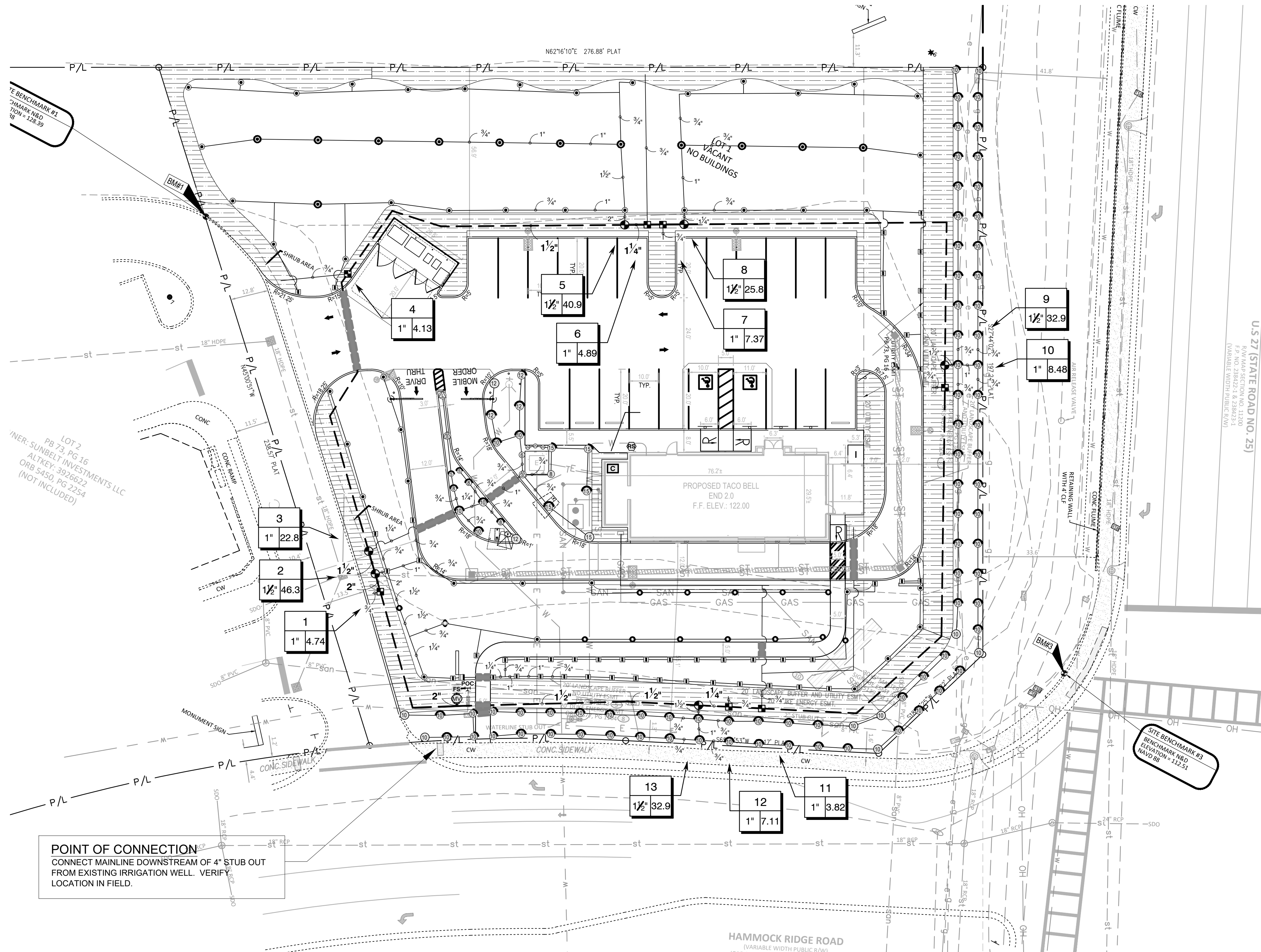
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 PLAN VERSION: JANUARY 2022
 BRAND DESIGNER:
 SITE NUMBER: 315420
 STORE NUMBER: 457313
 PA/PM: JN
 DRAWN BY: .
 JOB NO.: 2021088.46

TACO BELL
 HAMMOCK RIDGE & U.S. 27
 CLERMONT, FL 34711



ENDEAVOR 2.0 LANDSCAPE DETAILS & SPECIFICATIONS

LP-2



IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI
☉	RAIN BIRD 1806-PRS-NP SQ SERIES TURF SPRAY 6" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2" NPT FEMALE THREADED INLET. PRESSURE REGULATING. WITH NON POTABLE PURPLE CAP.	30
☉	RAIN BIRD 1806-PRS-NP 15 STRIP SERIES TURF SPRAY 6" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2" NPT FEMALE THREADED INLET. PRESSURE REGULATING. WITH NON POTABLE PURPLE CAP.	30
☉	RAIN BIRD 1806-PRS-NP 5 SERIES MPR TURF SPRAY 6" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2" NPT FEMALE THREADED INLET. PRESSURE REGULATING. WITH NON POTABLE PURPLE CAP.	30
☉	RAIN BIRD 1806-PRS-NP 8 SERIES MPR TURF SPRAY 6" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2" NPT FEMALE THREADED INLET. PRESSURE REGULATING. WITH NON POTABLE PURPLE CAP.	30
☉	RAIN BIRD 1806-PRS-NP 10 SERIES MPR TURF SPRAY 6" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2" NPT FEMALE THREADED INLET. PRESSURE REGULATING. WITH NON POTABLE PURPLE CAP.	30
☉	RAIN BIRD 1806-PRS-NP 12 SERIES MPR TURF SPRAY 6" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2" NPT FEMALE THREADED INLET. PRESSURE REGULATING. WITH NON POTABLE PURPLE CAP.	30
☉	RAIN BIRD 1806-PRS-NP 15 SERIES MPR TURF SPRAY 6" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2" NPT FEMALE THREADED INLET. PRESSURE REGULATING. WITH NON POTABLE PURPLE CAP.	30
☉	RAIN BIRD 1806-PRS-NP ADJ TURF SPRAY 6" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2" NPT FEMALE THREADED INLET. PRESSURE REGULATING. WITH NON POTABLE PURPLE CAP.	30
☉	RAIN BIRD R-VAN-STRIP RD06-S-P-45-NP TURF ROTARY, 5' X 15' (LCS AND RCS), 5' X 30' (SST) HAND ADJUSTABLE MULTI-STREAM ROTARY W/ RD06-S-P-45-NP TURF SPRAY BODY ON 6.0" POP-UP. WITH CHECK VALVE AND 45 PSI IN-STEM PRESSURE REGULATOR. 1/2" NPT FEMALE THREADED INLET.	30
☉	RAIN BIRD R-VAN14 RD06-S-P-45-NP TURF ROTARY, 8'-14' 45°-270° AND 360° HAND ADJUSTABLE MULTI-STREAM ROTARY W/RD06-S-P-45-NP TURF SPRAY BODY ON 6.0" POP-UP. WITH CHECK VALVE AND 45 PSI IN-STEM PRESSURE REGULATOR. 1/2" NPT FEMALE THREADED INLET.	30
☉	RAIN BIRD R-VAN18 RD06-S-P-45-NP TURF ROTARY, 13'-18' 45°-270° AND 360° HAND ADJUSTABLE MULTI-STREAM ROTARY W/RD06-S-P-45-NP TURF SPRAY BODY ON 6.0" POP-UP. WITH CHECK VALVE AND 45 PSI IN-STEM PRESSURE REGULATOR. 1/2" NPT FEMALE THREADED INLET.	30
☉	RAIN BIRD R-VAN24 RD06-S-P-45-NP TURF ROTARY, 17'-24' 45°-270° AND 360° HAND ADJUSTABLE MULTI-STREAM ROTARY W/RD06-S-P-45-NP TURF SPRAY BODY ON 6.0" POP-UP. WITH CHECK VALVE AND 45 PSI IN-STEM PRESSURE REGULATOR. 1/2" NPT FEMALE THREADED INLET.	30
☉	RAIN BIRD XCZ-100-PRB-COM WIDE FLOW DRIP CONTROL KIT FOR COMMERCIAL APPLICATIONS. 1" BALL VALVE WITH 1" PESB VALVE AND 1" PRESSURE REGULATING 40PSI QUICK-CHOCK BASKET FILTER. 0.3GPM TO 20GPM.	
☉	RAIN BIRD MDCFAP DRIPLINE FLUSH VALVE CAP IN COMPRESSION FITTING COUPLER.	
☉	RAIN BIRD ARV050 1/2" AIR RELIEF VALVE, MADE OF QUALITY RUST-PROOF MATERIALS, WITH A 6.0" DRIP VALVE BOX (SEB 7XB EMITTER BOX). USE WITH INSTALLATION BELOW SOIL. THE VALVE WILL ALLOW AIR TO ESCAPE THE PIPELINE, THUS PREVENTING WATER HAMMER OR BLOCKAGE.	
☉	AREA TO RECEIVE DRIPLINE RAIN BIRD XFSPS-06-18 XFS SUB-SURFACE PRESSURE COMPENSATING DRIPLINE W/COPPER SHIELD TECHNOLOGY. 0.6 GPH EMITTERS AT 18" O.C. LATERALS SPACED AT 18" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. UV RESISTANT. SPECIFY XF INSERT FITTINGS. NON-POTABLE PURPLE STRIPE.	

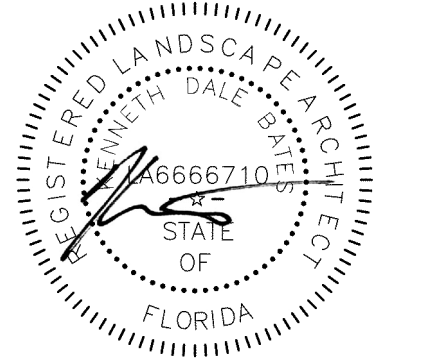
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI
☉	RAIN BIRD 1806-PRS-NP 15 SERIES MPR TURF SPRAY 6" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2" NPT FEMALE THREADED INLET. PRESSURE REGULATING. WITH NON POTABLE PURPLE CAP.	30
☉	RAIN BIRD 1806-PRS-NP 12 SERIES MPR TURF SPRAY 6" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2" NPT FEMALE THREADED INLET. PRESSURE REGULATING. WITH NON POTABLE PURPLE CAP.	30
☉	RAIN BIRD 1806-PRS-NP 10 SERIES MPR TURF SPRAY 6" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2" NPT FEMALE THREADED INLET. PRESSURE REGULATING. WITH NON POTABLE PURPLE CAP.	30
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☉	RAIN BIRD 1806-PRS-NP 5 SERIES MPR TURF SPRAY 6" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2" NPT FEMALE THREADED INLET. PRESSURE REGULATING. WITH NON POTABLE PURPLE CAP.	30
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NOTES:
 1) CONTRACTOR SHALL USE PC SCREENS ON FIXED SPRAY HEADS AS NEEDED TO ACHIEVE APPROPRIATE RADII.
 2) CONTRACTOR SHALL USE VARIABLE-ARC ROTARY NOZZLES WHERE NECESSARY.
 3) CONTRACTOR SHALL ADJUST ROTOR ARCS WHERE NECESSARY.

IRRIGATION DISCLAIMER

THIS DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, AND OTHER EQUIPMENT SHOWN WITHIN PAVED AREAS OR OUT OF PROPERTY BOUNDARIES ARE FOR DESIGN CLARIFICATION ONLY, AND SHALL BE INSTALLED IN PLANTING AREAS WITHIN THE PROPERTY LINES OR LIMITS INDICATED ON PLAN. THE IRRIGATION CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL ABOVE-GRADE IRRIGATION EQUIPMENT WITH THE OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION, OR IRRIGATION CONTRACTOR MAY BE REQUIRED TO MOVE SUCH ITEMS AT HIS OWN COST.

IRRIGATION CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL FINAL QUANTITIES PER DRAWINGS AND SPECIFICATIONS. ANY QUANTITIES PROVIDED ARE PROVIDED AS A CONVENIENCE TO THE CONTRACTOR ONLY AND SHALL NOT BE CONSIDERED ABSOLUTE.



Kenneth D. Bates
 LA#6666710
 2022.02.22
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DATE	REMARKS

CONTRACT DATE: 01.17.22
 DELIVERY TYPE: END. 2.0
 PLAN VERSION: JANUARY 2022
 BRAND DESIGNER:
 SITE NUMBER: 315420
 STORE NUMBER: 457313
 PA/PM: JN
 DRAWN BY: .
 JOB NO.: 2021088.46

TACO BELL
 HAMMOCK RIDGE & U.S. 27
 CLERMONT, FL 34711



ENDEAVOR 2.0

IRRIGATION PLAN

LI-1

PLOT DATE: 01/17/2022 10:08:35 AM

CONTROLLER NOTE

LOCATE CONTROLLER AT LOCATION SHOWN ON PLAN. VERIFY LOCATION IN FIELD WITH OWNER'S REPRESENTATIVE.

120 VAC POWER TO CONTROLLER LOCATION IS NOT WITHIN THE IRRIGATION CONTRACTOR'S SCOPE OF WORK, AND SHALL BE PROVIDED BY OTHERS. HOOK-UP OF CONTROLLER TO 120 VAC SHALL BE PERFORMED BY THE IRRIGATION CONTRACTOR. IRRIGATION CONTRACTOR SHALL COORDINATE LOCATION OF WIRE SLEEVES PENETRATIONS THROUGH BUILDING WITH OWNER AND GENERAL CONTRACTOR. STATION RUN ORDER SHALL MATCH PLANS.

SLEEVING / WIRING NOTES:

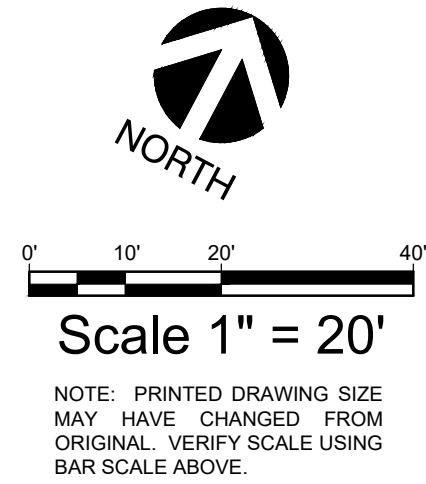
IN ADDITION TO PROVIDING SLEEVES FOR ALL PIPING UNDER ROADWAYS AND WALKWAYS, THE IRRIGATION CONTRACTOR SHALL PROVIDE AND INSTALL SCH. 40 PVC SLEEVES FOR ALL CONTROLLER WIRES OCCURRING UNDER ALL ROADWAYS AND WALKWAYS. SLEEVES FOR CONTROLLER WIRES SHALL BE 2" DIA. AND CONTAIN NO MORE THAN 25 WIRES.

AUTOMATIC DRAIN VALVES AND AIR RELIEF VALVES

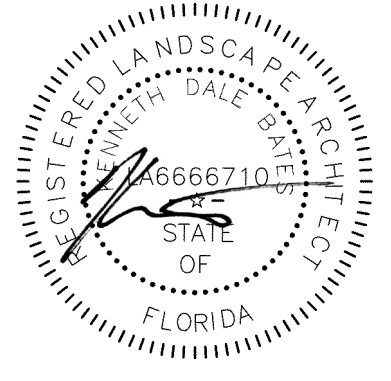
INSTALL AUTOMATIC DRAIN VALVES AT THE LOW POINTS OF EACH LATERAL LINE (MIN. 2 PER VALVE) AS PER DETAIL L, SHEET LI4. INSTALL AIR RELIEF VALVES ON DRIP SYSTEMS AT THE LOCATIONS SHOWN ON THE PLANS, AS PER DETAILS.

VALVES, EQUIPMENT & PIPE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
☉	RAIN BIRD PEB-NP-HAN 1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION. WITH PURPLE HANDLE FOR NON-POTABLE WATER USE.
☉	RAIN BIRD EFB-CP-PRS-D 2" 1", 1-1/4", 1-1/2", 2" BRASS MASTER VALVE, THAT IS CONTAMINATION PROOF W/SELF-FLUSHING FILTER SCREEN. GLOBE CONFIGURATION, RECLAIMED WATER COMPATIBLE, AND PURPLE HANDLE COVER DESIGNATES NON-POTABLE WATER USE. WITH PRESSURE REGULATOR.
☉	RAIN BIRD ESP12LXMEF W/ (1) ESPLXMSM12 24 STATION, TRADITIONALLY-WIRED, FLOW SMART, COMMERCIAL CONTROLLER. (1) ESP12LXMEF 12-STATION, FLOW SMART, (MODULE INCLUDED) INDOOR/OUTDOOR, PLASTIC WALL-MOUNT ENCLOSURE W/ (1) ESPLXMSM12 - 12-STATION EXPANSION MODULES.
☉	RAIN BIRD WR2-RFC WIRELESS RAIN AND FREEZE SENSOR COMBO, INCLUDES 1 RECEIVER AND 1 RAIN/FREEZE SENSOR TRANSMITTER.
FS	RAIN BIRD FS-150-B 1-1/2" FLOW SENSOR WITH RAIN BIRD IVM-SEN. BRASS MODEL. SUGGESTED OPERATING RANGE OF 2.0 GPM TO 82.6 GPM. SENSORS SHOULD BE SIZED FOR FLOW RATHER THAN PIPE SIZE.
---	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21-NP PVC CLASS 200 NON-POTABLE PURPLE IRRIGATION PIPE. ONLY LATERAL TRANSITION PIPE SIZES 1" AND ABOVE ARE INDICATED ON THE PLAN, WITH ALL OTHERS BEING 3/4" IN SIZE.
---	IRRIGATION MAINLINE: PVC SCHEDULE 40 NON-POTABLE PURPLE PIPE
---	PIPE SLEEVE: PVC SCHEDULE 40
☉	Valve Callout
☉	Valve Number
☉	Valve Flow
☉	Valve Size



Scale 1" = 20'
 NOTE: PRINTED DRAWING SIZE MAY HAVE CHANGED FROM ORIGINAL. VERIFY SCALE USING BAR SCALE ABOVE.



Kenneth D Bates
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DATE	REMARKS

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ENDEAVOR 2.0
IRRIGATION
DETAILS &
SPECIFICATIONS

LI-2

IRRIGATION SPECIFICATIONS

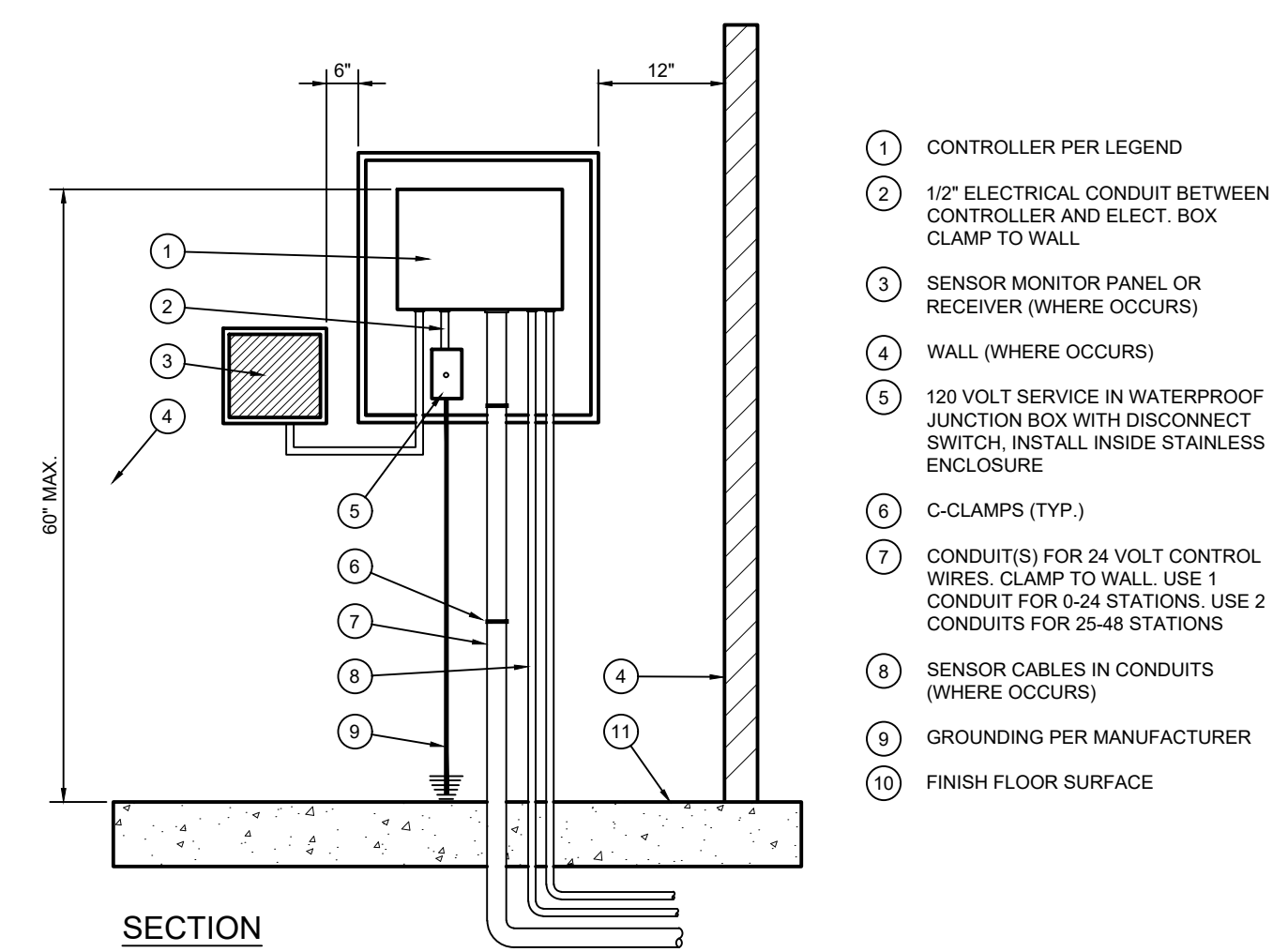
GENERAL

- A. QUALIFICATIONS OF IRRIGATION CONTRACTOR
- ALL WORK SHOWN ON THESE PLANS SHALL BE PERFORMED BY A SINGLE IRRIGATION CONTRACTOR SPECIALIZING IN IRRIGATION SYSTEMS. SEE THE IRRIGATION PLAN FOR SPECIFIC EQUIPMENT AND SYSTEM LAYOUT.
 - THE IRRIGATION CONTRACTOR MUST HAVE ON ITS STAFF A LICENSED IRRIGATION INSTALLER, AS REGULATED BY THE APPROPRIATE LOCAL JURISDICTION. A LICENSED IRRIGATION INSTALLER SHALL BE PRESENT AT THE PROJECT SITE AT ALL TIMES AS WORK IS IN PROGRESS. THE OWNER MAY DEMAND THAT WORK STOP UNTIL THE CONTRACTOR PROVIDES FOR A LICENSED IRRIGATION INSTALLER TO BE PRESENT AT THE PROJECT SITE AND SUPERVISING ALL IRRIGATION WORK.
 - A LIST OF SUCCESSFULLY COMPLETED PROJECTS OF THIS TYPE, SIZE AND NATURE MAY BE REQUESTED BY THE OWNER FOR FURTHER QUALIFICATION MEASURES.
- B. SCOPE OF WORK
- WORK COVERED BY THESE SECTIONS INCLUDES THE FURNISHING AND PAYMENT OF ALL MATERIALS, LABOR, SERVICES, EQUIPMENT, LICENSES, TAXES, FEES, AND ANY OTHER ITEMS THAT ARE NECESSARY FOR THE EXECUTION, INSTALLATION AND COMPLETION OF ALL WORK SPECIFIED HEREIN AND/OR SHOWN ON THE IRRIGATION PLANS, NOTES, AND DETAILS.
 - ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES AND REGULATIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION OVER SUCH WORK, INCLUDING ALL INSPECTIONS AND PERMITS REQUIRED BY FEDERAL, STATE AND LOCAL AUTHORITIES IN SUPPLY, TRANSPORTATION AND INSTALLATION OF MATERIALS. IN CASE OF CONFLICT BETWEEN THESE PLANS AND LOCAL AND/OR STATE CODES, CODES SHALL PREVAIL.
 - THE INTENT OF THE IRRIGATION SYSTEM IS TO PROVIDE 100% COVERAGE OF ALL LANDSCAPE AREAS. THE IRRIGATION PLAN IS GENERALLY DIAGRAMMATIC. COORDINATE IRRIGATION INSTALLATION WITH UTILITY INSTALLATIONS. ACTUAL LOCATION OF CONTROLLER, BACKFLOW DEVICE, PIPING, VALVES, SPRAY HEADS, DRIP IRRIGATION, AND RELATED EQUIPMENT MAY NEED TO BE ADJUSTED BASED ON ACTUAL SITE CONDITIONS.
 - FOR CLARITY PURPOSES, SOME IRRIGATION LINES AND EQUIPMENT ARE SHOWN IN HARDCAPE AREAS WITHOUT ACCESS SLEEVES; THESE LINES SHALL BE INSTALLED IN A COMMON TRENCH OR AT THE BACK OF CURB IN LANDSCAPE AREAS. MINOR FIELD ADJUSTMENTS SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.
- C. PIPING
- PRESSURE SUPPLY LINES, DOWNSTREAM OF THE POINT-OF-CONNECTION:
 - SCHEDULE 40 PVC FOR ALL PIPE 1-1/2" OR LESS
 - CLASS 115 PVC FOR ALL PIPE 2" TO 2-1/2"
 - CLASS 200 PVC, GASKETED, FOR ALL PIPE 3" AND LARGER
 - SLEEVING AND NON-PRESSURE LATERAL LINES (DOWNSTREAM FROM VALVES): CLASS 200 PVC
 - FITTINGS: SCH. 40 PVC, EXCEPT AS NOTED OTHERWISE.
- D. VALVES AND DRIP VALVE ASSEMBLIES: TYPE AND SIZE AS NOTED ON PLANS. EACH VALVE SHALL BEAR A PRE-MANUFACTURED, NUMBERED WATERPROOF TAG BEARING A NUMBER CORRESPONDING TO ITS VALVE SEQUENCE OF OPERATION ON THE CONTROLLER. THE OPERATION SEQUENCE SHALL MATCH THAT AS SHOWN ON THE PLANS.
- E. QUICK COUPLERS, BALL VALVES, AND GATE VALVES: TYPE AND SIZE PER PLANS.
- F. BOLT-DOWN TYPE FURNISHED WITH LIDS AND BOLTS. BOXES SHALL BE OF A SIZE TO CONTAIN THE ENTIRE VALVE AND/OR VALVE ASSEMBLY. THE VALVE BOX LID SHALL HAVE THE VALVE STATION NUMBER HEAT-BRANDED INTO THE LID WITH 2" HIGH LETTERS.
- G. FIXED SPRAY HEADS AND ROTORS: PLASTIC BODY POP-UP WITH A REMOVABLE PLASTIC SPRAY NOZZLE. EXACT TYPE, MODEL, AND NOZZLE SHALL BE AS INDICATED ON PLANS.
- H. INTEGRAL EMITTER DRIP TUBING: TUBING MODEL AND FLOW RATE AS NOTED ON PLANS, WITH INTEGRAL EMITTERS WELDED TO THE INSIDE WALL OF THE TUBING AS AN INTEGRAL PART OF THE TUBING ASSEMBLY.
- I. AUTOMATIC CONTROLLER: TYPE AND MODEL PER PLANS. PROVIDE VANDAL-PROOF ENCLOSURE FOR ALL EXTERIOR INSTALLATIONS. PROVIDE LINE-VOLTAGE DISCONNECT SWITCH WITH GROUND FAULT PROTECTION.
- J. 24 VOLT VALVE WIRE SHALL BE A MINIMUM OF #14 GAUGE, U.F. APPROVED FOR DIRECT BURIAL SINGLE CONDUCTOR IRRIGATION WIRE. EACH CONTROLLER SHALL HAVE A DIFFERENT COLOR STATION AND COMMON WIRE.
 - STATION WIRE - ANY COLOR EXCEPT WHITE OR BLUE
 - COMMON WIRE - WHITE
 - EXTRA COMMON WIRES - BLUE
- K. WIRE SPLICES SHALL BE ENCASED IN A WATERPROOF COMPOUND OR GEL. ALL FIELD SPLICES SHALL BE LOCATED IN A 4 INCH ROUND VALVE BOX.
- L. RAIN SENSOR: TYPE AND MODEL PER PLANS.

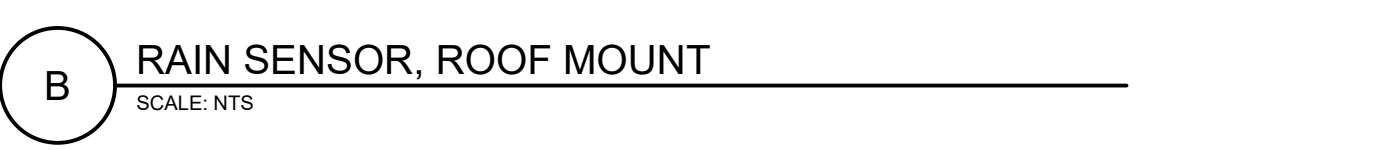
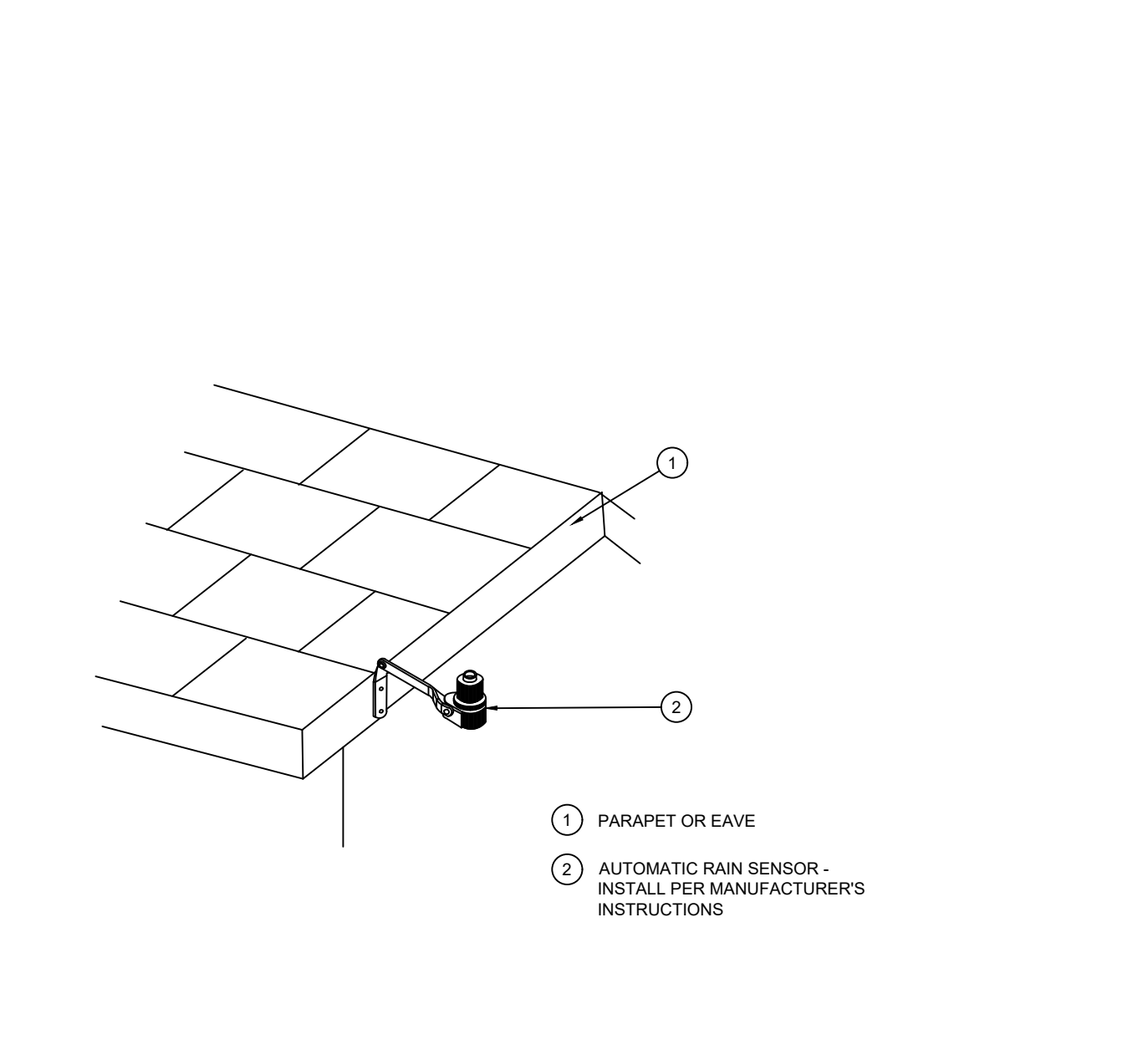
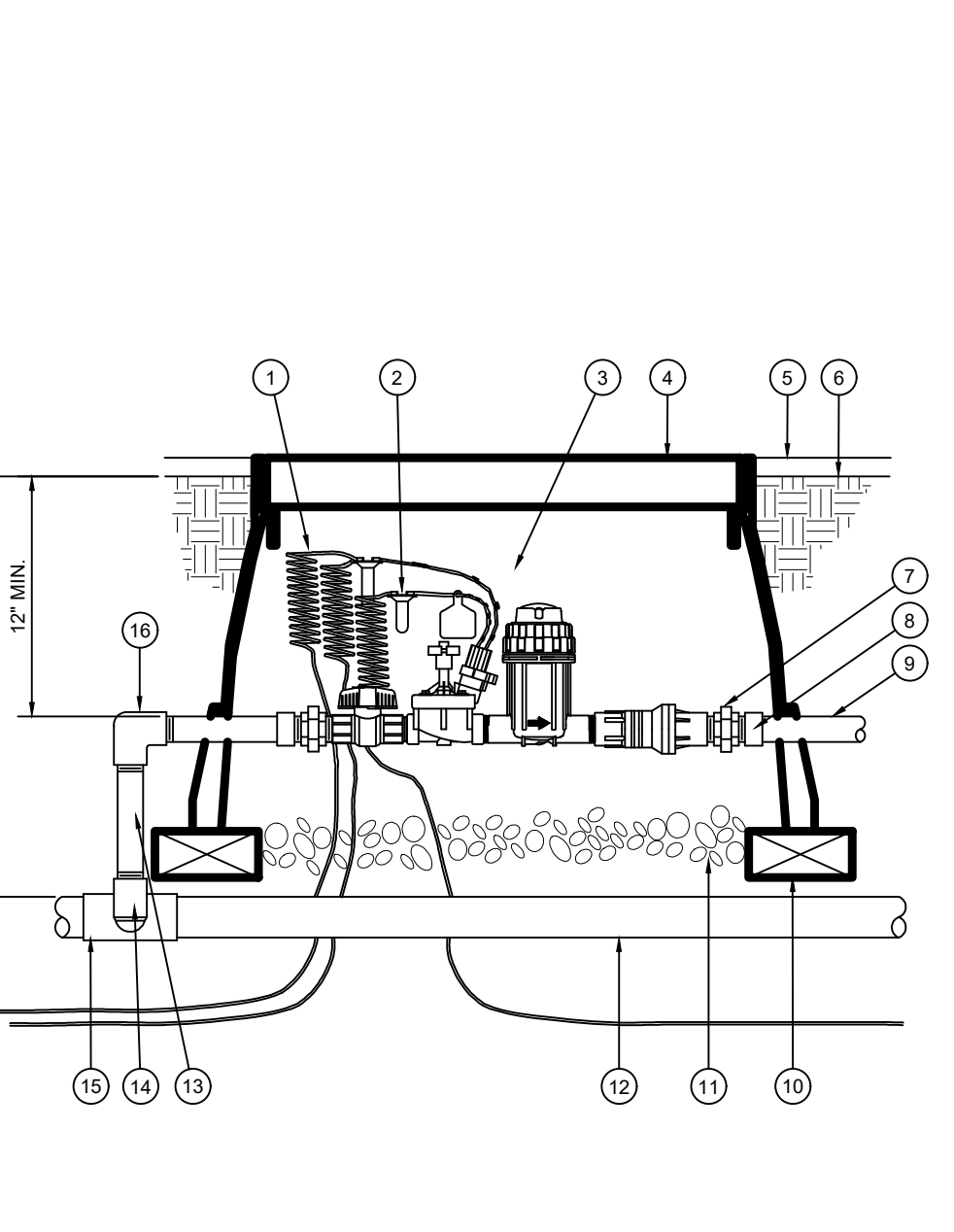
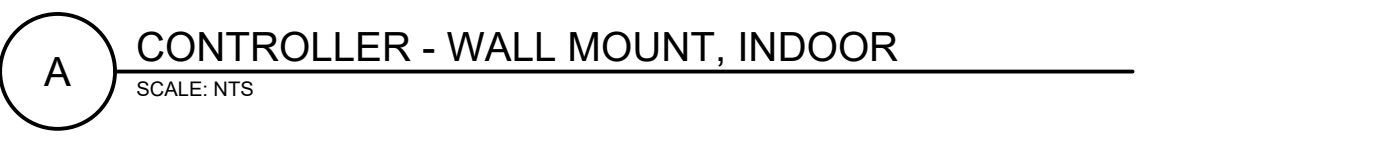
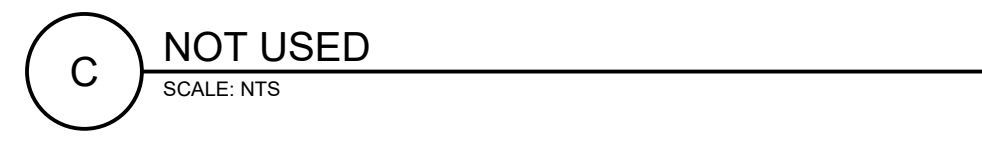
METHODS

- A. THIS DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, AND OTHER EQUIPMENT SHOWN WITHIN PAVED AREAS OR OUT OF PROPERTY BOUNDARIES ARE DESIGN CLARIFICATION ONLY, AND SHALL BE INSTALLED IN PLANTING AREAS WITH THE PROPERTY LINES OR LIMITS INDICATED ON PLAN. THE IRRIGATION CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL ABOVE-GRADE IRRIGATION EQUIPMENT WITH THE OWNER'S AUTHORITY PRIOR TO INSTALLATION. THE IRRIGATION CONTRACTOR MAY BE REQUIRED TO MOVE SUCH ITEMS AT HIS OWN COST. ENSURE FIELD COORDINATION IS MADE EARLY ON IN THE CONSTRUCTION PHASE SO PLACEMENT LOCATION IS CORRECT.
- B. THE IRRIGATION CONTRACTOR SHALL MEET WITH THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF WORK, AND SHALL OBTAIN ALL ENGINEERING, LANDSCAPE, AND OTHER APPLICABLE PLANS & DOCUMENTS. THE CONTRACTOR SHALL THOROUGHLY REVIEW THE PLANS AND REPORT ANY CONFLICTS OR DISCREPANCIES TO THE LANDSCAPE ARCHITECT AND OWNER'S REPRESENTATIVE IMMEDIATELY.
- C. THE IRRIGATION CONTRACTOR SHALL NOT WILFULLY INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN OBSTRUCTIONS, GRADES OR DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. SUCH OBSTRUCTIONS OR DIFFERENCES SHALL BE BROUGHT TO THE ATTENTION OF THE IRRIGATION DESIGNER. IN THE EVENT THAT THIS NOTIFICATION IS NOT PERFORMED, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS AND NECESSARY COSTS. CHOOSE ONE: - OR - THE IRRIGATION CONTRACTOR SHALL COORDINATE AND PAY FOR THE INSTALLATION OF THE IRRIGATION TAP AND METER.
- E. THE IRRIGATION CONTRACTOR SHALL PAY ANY AND ALL FEES AND PERMITS ASSOCIATED WITH THE INSTALLATION OF THE IRRIGATION SYSTEM.
- F. AT LEAST SEVEN DAYS BEFORE BEGINNING WORK, CONFIRM THE STATIC WATER PRESSURE IS AT LEAST 55 PSI AND LESS THAN 70 PSI. IF STATIC WATER PRESSURE IS OUTSIDE OF THE STATED RANGE, DO NOT PROCEED WITHOUT FIRST NOTIFYING THE IRRIGATION DESIGNER AND OWNER IN WRITING, AND OBTAINING SUBSEQUENT DIRECTION FOR CORRECTIVE MEASURES. SHOULD THE IRRIGATION CONTRACTOR CHOOSE TO BEGIN THE INSTALLATION WITHOUT SUCH NOTIFICATION, THE IRRIGATION CONTRACTOR WILL ASSUME THE RESPONSIBILITY FOR ALL COSTS INCURRED TO ENSURE THE SYSTEM IS WORKING PROPERLY. NO CHANGE ORDERS WILL BE AUTHORIZED IN SUCH CIRCUMSTANCES.
- G. THE IRRIGATION CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITY LINES (WATER, SEWER, ELECTRICAL, TELEPHONE, GAS, CABLE, TELEVISION, ETC.) PRIOR TO THE START OF ANY WORK. THE CONTRACTOR SHALL BE FAMILIAR WITH ALL GRADE DIFFERENCES, LOCATIONS OF WALLS, STRUCTURES AND UTILITIES.
- H. COORDINATE WITH THE OWNER THE PROPOSED LOCATIONS OF THE AUTOMATIC CONTROLLER AND ANY REQUIRED SLEEVES THROUGH THE BUILDING FOR CONTROL WIRES.
- I. TRENCHING NEAR EXISTING TREES:
 - CONTRACTOR SHALL NOT DISTURB ROOTS 1-1/2" AND LARGER IN DIAMETER WITHIN THE CRITICAL ROOT ZONE (CRZ) OF EXISTING TREES, AND SHALL EXERCISE ALL POSSIBLE CARE AND PRECAUTIONS TO AVOID DAMAGE TO TREE ROOTS, TRUNKS, AND BRANCHES. THE CRZ IS DEFINED AS A CIRCULAR AREA EXTENDING OUTWARD FROM THE TREE TRUNK, WITH A RADIUS EQUAL TO 1" FOR EVERY 1" OF TRUNK DIAMETER-AT-BREAST-HEIGHT (4.5' ABOVE THE AVERAGE GRADE AT THE TRUNK).
 - ALL EXCAVATION WITHIN THE CRZ SHALL BE PERFORMED USING HAND TOOLS. NO MACHINE EXCAVATION OR TRENCHING OF ANY KIND SHALL BE ALLOWED WITHIN THE CRZ.
 - ALTER ALIGNMENT OF PIPE TO AVOID TREE ROOTS 1-1/2" AND LARGER IN DIAMETER. WHERE TREE ROOTS 1-1/2" AND LARGER IN DIAMETER ARE ENCLOSED IN THE FIELD, TUNNEL UNDER SUCH ROOTS. WRAP EXPOSED ROOTS WITH SEVERAL LAYERS OF BURLAP AND KEEP MOIST. CLOSE ALL TRENCHES WITHIN THE CANOPY DRIP LINES WITHIN 24 HOURS.
 - ALL SEVERED ROOTS SHALL BE HAND PRUNED WITH SHARP TOOLS AND ALLOWED TO AIR-DRY. DO NOT USE ANY SORT OF SEALERS OR WOUND PAINTS.

- J. BACKFILL
- ALL BACKFILL MATERIAL SHALL BE SUBJECT TO APPROVAL BY THE OWNER. BACKFILL MATERIAL SHALL BE FREE FROM RUBBISH, ROCK LARGER THAN 1", LARGE STONES, BRUSH, SOIL, FROZEN MATERIAL OR OTHER UNSUITABLE SUBSTANCES THAT MAY DAMAGE PIPE DURING THE BACKFILL OPERATION. SEPARATE A MINIMUM 1 INCH IN ANY DIRECTION FROM EXCAVATED MATERIAL, AND REMOVE FROM AREAS TO RECEIVE LANDSCAPING. COVER FOR BOTH TOP AND SIDES OF PIPE SHALL BE A MINIMUM OF 2 INCHES OF ROCK-FREE SOIL, SAND, OR OTHER APPROVED MATERIAL.
 - IN THE EVENT THAT THE MATERIAL FROM THE EXCAVATION OR TRENCHING IS FOUND TO BE UNSUITABLE FOR USE IN BACKFILL, IT SHALL BE REMOVED FROM THE SITE AND PROPERLY AND LEGALLY DISPOSED OF BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL THEN PURCHASE AND FURNISH SUITABLE BACKFILL MATERIAL CONSISTING OF EARTH, LOAM, SANDY CLAY, SAND OR OTHER APPROVED MATERIALS FREE OF DEBRIS.
- K. BACKFLOW PREVENTER INSTALLATION: CONTRACTOR SHALL MAKE CONNECTIONS TO EXISTING WATER SOURCES AT LOCATION SHOWN ON PLANS AND AS APPROVED BY THE OWNER, AND SHALL MAKE ANY MINOR CHANGES IN LOCATION AS MAY BE NECESSARY DUE TO ACTUAL SITE CONDITIONS. BACKFLOW PREVENTER HEIGHT SHALL BE AS PER LOCAL CODES AND IRRIGATION DETAILS. INSTALL A BRASS BALL VALVE IMMEDIATELY UPSTREAM OF THE BACKFLOW DEVICE TO SERVE AS AN ISOLATION VALVE. TO EVERY EXTENT POSSIBLE, INSTALL BACKFLOW PREVENTER IN A LOCATION SCREENED FROM PUBLIC VIEW (SUCH AS BEHIND A SHRUB ROW).
- L. PIPING:
 - PIPE SIZE SHALL CONFORM TO THOSE SHOWN ON THE DRAWINGS. NO SUBSTITUTIONS OF SMALLER PIPE SIZES SHALL BE PERMITTED, BUT SUBSTITUTIONS FOR LARGER SIZES MAY BE APPROVED.
 - MAINLINE PIPE AND WIRES SHALL BE INSTALLED WITH A MINIMUM COVER OF 18 INCHES (24" FOR MAINLINE 3"-5", AND 30" FOR MAINLINE 6" AND GREATER). LATERAL PIPE SHALL BE INSTALLED WITH A MINIMUM COVER OF 12 INCHES.
 - ASSEMBLE ALL THREADED FITTINGS WITH TEFLON TAPE, WHICH SHALL BE APPLIED TO MALE THREADED ONLY.
 - ALL SOLVENT-WELD CONNECTIONS SHALL BE MADE WITH APPROVED SOLVENT-WELD PRIMER AND GLUE.
 - PIPE SHALL BE INSTALLED WITH A MINIMUM OF 4" HORIZONTAL CLEARANCE FROM ANY OTHER PIPE AND 2" VERTICAL CLEARANCE FROM ANY PIPES THAT CROSS OVER OR UNDER.
- M. VALVES
 - VALVES SHALL BE INSTALLED PER MANUFACTURER'S DIRECTIONS AND THE IRRIGATION DETAILS.
 - VALVE BOXES SHALL BE INSTALLED FLUSH WITH THE GRADE, WITH CLEAN PEA GRAVEL LOCATED BELOW THE VALVE AS NOTED ON THE DETAILS. LOCATE BOXES WITHIN 12 TO 24" OF SIDEWALKS OR LANDSCAPE EDGES, WITH TOPS OF BOXES 1" ABOVE FINISH GRADE IN TURF, AND 3" ABOVE FINISH GRADE IN SHRUB AREAS (NO AVOID BEING COVERED BY MULCH).
 - EACH VALVE BOX COVER SHALL BE HEAT-BRANDED WITH THE CONTROLLER STATION NUMBER.
 - DO NOT INSTALL MORE THAN TWO VALVES IN A JUMBO BOX.
- N. DRIP IRRIGATION EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S DIRECTIONS AND THE IRRIGATION DETAILS.
 - SUBSURFACE DRIP LINES SHALL BE BURIED NO MORE THAN 2" BELOW FINISH GRADE.
 - DRIP LINES MOUNTED ON GRADE SHALL BE LOCATED BENEATH LANDSCAPE FABRIC, AND SECURED IN PLACE WITH WIRE STAPLES AT A MAXIMUM OF 24"-36" ON CENTER.
 - SPRAY, ROTOR, AND BUBBLER HEADS:
 - ALL SPRAY AND ROTOR HEAD LOCATIONS SHALL BE STAKED, FLAGGED AND/OR OTHERWISE CLEARLY MARKED ON THE GROUND PRIOR TO INSTALLATION. SPRINKLER HEADS SHALL BE INSPECTED AND APPROVED BY THE OWNER'S REPRESENTATIVE BEFORE INSTALLATION.
 - ALL SPRAY HEADS SHALL BE CONNECTED WITH A 12 INCH MINIMUM LENGTH OF 3/8 INCH FLEX PVC. THE FLEX PVC SHALL BE SOLVENT WELDED TO SCHEDULE 40 PVC FITTINGS WITH WELD-ON #795 SOLVENT AND #P-70 PRIMER. ALL ROTORS SHALL BE CONNECTED TO LATERAL LINES WITH PRE-MANUFACTURED SWING JOINTS.
 - ALL ROTOR, SPRAY AND BUBBLER HEADS SHALL BE SET PERPENDICULAR AND FLUSH TO FINISH GRADE AND WITH A CLEARANCE OF FOUR INCHES (MINIMUM) FROM THE EDGE OF ANY BUILDINGS, WALLS, BOULDERS, AND HARDCAPE, WITH A CLEARANCE OF TWELVE INCHES (MINIMUM) FROM BUILDINGS, UNLESS OTHERWISE SPECIFIED.
 - ALL ROTOR, SPRAY AND BUBBLER HEADS SHALL BE FLUSHED AND ADJUSTED FOR OPTIMUM COVERAGE WITH MINIMUM OVERSPRAY ON WALKS, STREETS, WALLS, ETC.
- O. AUTOMATIC CONTROLLER:
 - INSTALL THE CONTROLLER AT THE LOCATION INDICATED BY THE OWNER. INSTALL CONTROLLER WITH A BACKUP BATTERY AS RECOMMENDED BY THE MANUFACTURER.
 - THE IRRIGATION CONTRACTOR SHALL COORDINATE 120 V.A.C. ELECTRICAL POWER TO CONTROLLERS AND DEDICATE ONE (1) 20-AMP BREAKER FOR EACH CONTROLLER. IT SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO MAKE THE FINAL HOOK-UP FROM THE ELECTRICAL SOURCE TO THE CONTROLLER UNIT ONLY.
 - ALL VALVE CONTROL WIRE SHALL BE AWG 14 TYPE UF, 600 VOLT TEST, DIRECT BURIAL. NO SPLICES SHALL BE ALLOWED EXCEPT AT VALVES AND CONTROLLER. WHERE SPLICES MAY BE NECESSARY DUE TO EXCESSIVELY LONG WIRE RUNS, THE CONTRACTOR SHALL MAKE ALL SPLICES IN 6" ROUND VALVE BOXES WITH 3MS'DBY-DIRECT BURIAL SPLICE KIT". THE CONTRACTOR SHALL LABEL ALL WIRES WITH WATERPROOF TAGS AND MARKERS AT ALL SPLICES AND VALVE MANIFOLDS, AND SHALL LEAVE A 24" COIL OF EXCESS WIRE AT EACH CONNECTION.
 - PROVIDE #10 COMMON WIRE, DIRECT BURIAL, TO ALL REMOTE CONTROL VALVES.
 - CONNECT ALL DIRECT BURIAL WIRES TO VALVES USING 3MS'DBY-DIRECT BURIAL SPLICE KIT (UNLESS OTHERWISE SPECIFIED).
 - PROVIDE THREE ADDITIONAL IRRIGATION CONTROL WIRES ALONG EACH BRANCH OF MAINLINE FOR FUTURE EXPANSION. STUB ADDITIONAL CONTROL WIRES INTO BACK OF IRRIGATION CONTROLLERS.
 - THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ALL CONTROL WIRE SLEEVES AND PIPE SLEEVES UNDER PAVED AREAS PRIOR TO PAVING - SEE SLEEVING NOTES.
- Q. INSTALL THE RAIN SENSOR IN THE VICINITY OF THE CONTROLLER, AND COORDINATE LOCATION WITH THE OWNER. PROVIDE A MINIMUM 5' CLEARANCE FROM OTHER OUTDOOR EQUIPMENT, FREE AND CLEAR OF ANY TREE CANOPY OR OTHER OVERHEAD OBSTRUCTIONS, AND ABOVE THE HEIGHT OF THE SPRINKLER COVERAGE. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO ENSURE THE RAIN SENSOR IS PLACED IN A LOCATION WHERE IT CAN RECEIVE ADEQUATE RAINFALL WITHOUT OBSTRUCTIONS. IF IT IS PLACED IN AN INADEQUATE LOCATION, THE IRRIGATION CONTRACTOR MAY BE REQUIRED TO RELOCATE IT AT NO ADDITIONAL COST TO THE OWNER.
- R. THE PUMP SHALL NOT BE STARTED UNTIL A REPRESENTATIVE OF THE PUMP MANUFACTURER INSPECTS THE INSTALLATION AND START-UP. ANY DAMAGE TO THE PUMP WITHOUT A WRITTEN REPORT FROM THE MANUFACTURER'S REPRESENTATIVE SHALL, AT THE OWNER'S OPTION, BE IMMEDIATELY REPAIRED OR REPLACED AT THE CONTRACTOR'S OWN COST.
- S. ALL IRRIGATION EQUIPMENT NOT OTHERWISE DETAILED OR SPECIFIED SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
- T. QUALITY CONTROL
 - PERFORM COVERAGE TESTS AFTER IRRIGATION SYSTEM IS COMPLETED, BUT PRIOR TO ANY PLANTING AND PERFORM TESTING IN THE PRESENCE OF THE IRRIGATION DESIGNER AND THE CONSTRUCTION MANAGER.
 - TEST SYSTEM TO ASSURE THAT ALL LAWN AND PLANTING AREAS ARE WATERED COMPLETELY AND UNIFORMLY.
 - MAKE ALL NECESSARY ADJUSTMENTS TO PROVIDE COMPLETE COVERAGE, INCLUDING REALIGNMENT OF HEADS AND REPLACEMENT OF NOZZLES.
- U. CLEAN UP
 - DURING IRRIGATION EXCAVATION AND INSTALLATION, KEEP ALL PAVEMENT CLEAN AND ALL WORK AREAS IN A NEAT, ORDERLY CONDITION.
 - DISPOSED LEGALLY OF ALL EXCAVATED MATERIALS OFF THE PROJECT SITE.
- V. INSPECTION AND ACCEPTANCE
 - UPON COMPLETION OF THE WORK, THE IRRIGATION CONTRACTOR SHALL PROVIDE THE SITE CLEAN, FREE OF DEBRIS AND TRASH, AND SUITABLE FOR USE AS INTENDED. THE IRRIGATION CONTRACTOR SHALL THEN REQUEST AN INSPECTION BY THE OWNER TO DETERMINE FINAL ACCEPTABILITY.
 - WHEN THE INSPECTED WORK DOES NOT COMPLY WITH THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL REPLACE AND/OR REPAIR THE REJECTED WORK TO THE OWNER'S SATISFACTION WITHIN 24 HOURS.
 - THE MAINTENANCE PERIOD WILL NOT COMMENCE UNTIL THE WORK HAS BEEN RE-INSPECTED BY THE OWNER AND FOUND TO BE ACCEPTABLE. AT THAT TIME, A WRITTEN NOTICE OF FINAL ACCEPTANCE WILL BE ISSUED BY THE OWNER, AND THE MAINTENANCE AND GUARANTEE PERIODS WILL COMMENCE.
 - CONTROL CHART: THE IRRIGATION CONTRACTOR SHALL PROVIDE A 11" X 17" COLOR-CODED, LAMINATED COPY OF THE IRRIGATION LAYOUT AND PLACE IT IN THE CONTROLLER'S COVER. THE CONTROLLER CHART SHALL CLEARLY DELINEATE THE AREAS COVERED BY EACH VALVE AND CONTROL KEY USING A SEPARATE COLOR FOR EACH ZONE.
 - TURN THE FOLLOWING ITEMS IN TO THE OWNER UPON COMPLETION OF THE INSTALLATION:
 - QUICK COUPLER KEYS (2)
 - CONTROLLER MANUAL (1)
 - CONTROLLER KEYS (2)
 - A MINIMUM OF (2) COPIES OF RECORD DRAWINGS. A RECORD DRAWING IS A RECORD OF ALL CHANGES THAT OCCURRED IN THE FIELD AND THAT ARE DOCUMENTED THROUGH CHANGE ORDERS, ADDENDA, OR CONTRACTOR/CONSULTANT DRAWING MARKUPS.
- W. REFER TO THE PLANTING SPECIFICATIONS FOR ADDITIONAL CONDITIONS OF FINAL ACCEPTANCE AND START OF THE MAINTENANCE PERIOD.
- X. WARRANTY
 - THE IRRIGATION SYSTEM SUPPLIED AND INSTALLED SHALL BE WARRANTED (LABOR AND MATERIALS) TO REMAIN OPERATIONAL FOR A PERIOD OF 12 MONTHS AFTER THE DATE OF FINAL ACCEPTANCE. DURING THIS PERIOD, THE CONTRACTOR SHALL ALSO REPAIR ANY SETTLEMENT OF THE IRRIGATION TRENCHES.
 - BY THE END OF THE WARRANTY PERIOD, ANY IRRIGATION PART THAT IS EITHER NON-OPERATIONAL OR THAT IS OPERATING BELOW STANDARDS AS DETERMINED BY THE OWNER, SHALL BE REMOVED FROM THE SITE AND SHALL BE REPLACED. REPLACEMENTS SHALL BE OF THE SAME KIND AS SPECIFIED IN THE IRRIGATION LEGEND, AND SHALL BE INSTALLED AS ORIGINALLY SPECIFIED.
 - IRRIGATION PARTS DAMAGED OR IMPAIRED DUE TO ACTS OF GOD, VANDALISM, AND/OR THE OWNER'S IMPROPER MAINTENANCE SHALL NOT BE COVERED BY THIS WARRANTY.
- Y. SHOULD THE PERMITTING JURISDICTION REQUIRE AN IRRIGATION AUDIT, THE IRRIGATION CONTRACTOR SHALL RETAIN THE SERVICES OF A THIRD-PARTY CERTIFIED LANDSCAPE IRRIGATION AUDITOR, AT NO ADDITIONAL COST TO THE OWNER.



- SECTION**
- CONTROLLER PER LEGEND
 - 1/2" ELECTRICAL CONDUIT BETWEEN CONTROLLER AND ELECT. BOX CLAMP TO WALL
 - SENSOR MONITOR PANEL OR RECEIVER (WHERE OCCURS)
 - WALL (WHERE OCCURS)
 - 120 VOLT SERVICE IN WATERPROOF JUNCTION BOX WITH DISCONNECT SWITCH, INSTALL INSIDE STAINLESS ENCLOSURE
 - C-CLAMPS (TYP.)
 - CONDUIT(S) FOR 24 VOLT CONTROL WIRES. CLAMP TO WALL. USE 1 CONDUIT FOR 0-24 STATIONS. USE 2 CONDUITS FOR 25-48 STATIONS
 - SENSOR CABLES IN CONDUITS (WHERE OCCURS)
 - GROUNDING PER MANUFACTURER
 - FINISH FLOOR SURFACE
- NOTES:
1) MOUNT CONTROLLER AND CABINET PER MANUFACTURER'S DIRECTIONS.
2) 120 V.A.C. POWER PROVIDED BY OTHERS. LANDSCAPE CONTRACTOR SHALL MAKE FINAL CONNECTION AT CONTROLLER. CONNECT TO ELECTRICAL SUPPLY PER NATIONAL ELECTRIC CODE AND LOCAL CODE.
3) LOCATE GROUND ROD 8' MIN. FROM CONTROLLER. VERIFY LOCATION OF GROUND ROD, CONTROLLER AND SOURCE OF ELECTRICITY WITH MANUFACTURER'S REPRESENTATIVE AND OWNER AS PART OF PRE CONSTRUCTION MEETING.



CRITICAL ANALYSIS

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P.O.C. NUMBER: 01
Water Source Information: EXISTING PRIVATE WELL

FLOW AVAILABLE
Point of Connection Size: 4"
Flow Available: 195.88 GPM

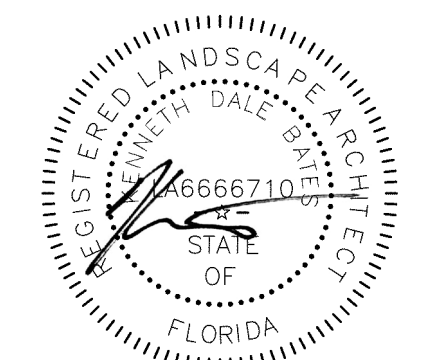
PRESSURE AVAILABLE
Static Pressure at POC: 65.00 PSI
Pressure Available: 65.00 psi

DESIGN ANALYSIS
Maximum Station Flow: 46.28 GPM
Flow Available at POC: 195.88 GPM
Residual Flow Available: 149.6 GPM

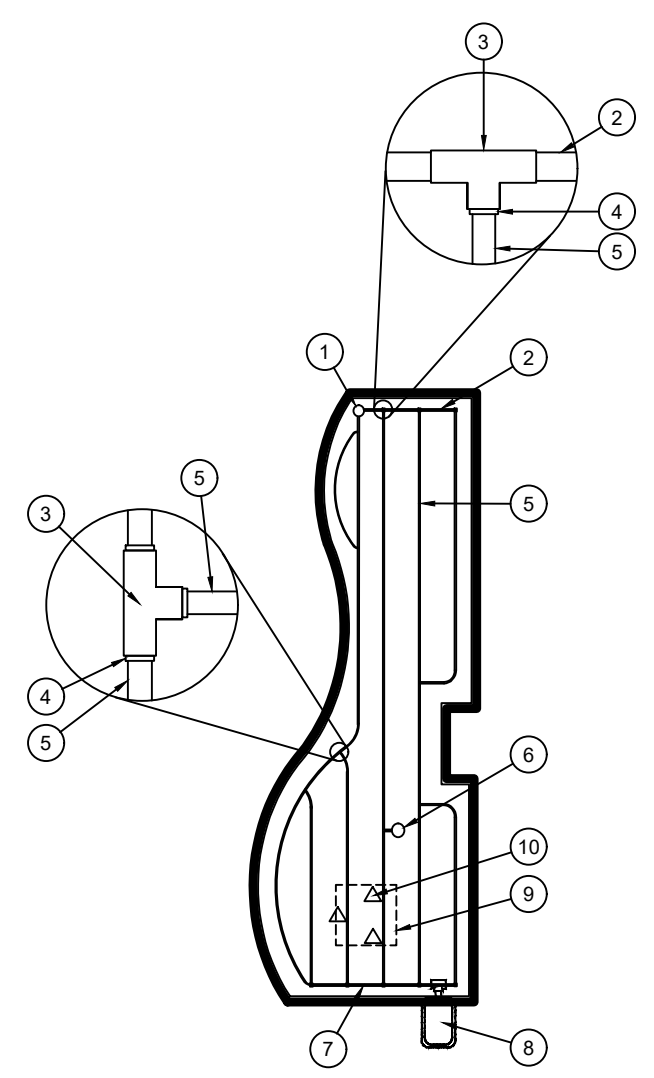
Pressure Req. at Critical Station: 37.28 PSI
Loss for Fittings: 0.63 PSI
Loss for Main Line: 6.3 PSI
Loss for POC to Valve Elevation: 0 PSI
Loss for Backflow: 0 PSI
Loss for Master Valve: 0.83 PSI
Critical Station Pressure at POC: 45.04 PSI
Pressure Available: 65 PSI
Residual Pressure Available: 19.96 PSI

VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	WIRE	PSI	PSI @ POC	PRECIP
1	RAIN BIRD XCZ-100-PRB-COM	1"	AREA FOR DRIPLINE	4.74	215.1	33.77	34.29	0.43 in/h
2	RAIN BIRD PEB-NP-HAN	1-1/2"	TURF ROTARY	46.28	221.3	38.04	40.07	0.6 in/h
3	RAIN BIRD PEB-NP-HAN	1"	TURF SPRAY	22.83	229.2	35.38	36.29	1.56 in/h
4	RAIN BIRD XCZ-100-PRB-COM	1"	AREA FOR DRIPLINE	4.13	328.0	33.34	33.89	0.43 in/h
5	RAIN BIRD PEB-NP-HAN	1-1/2"	TURF ROTARY	40.92	432.9	37.27	45.04	0.51 in/h
6	RAIN BIRD XCZ-100-PRB-COM	1"	AREA FOR DRIPLINE	4.89	433.8	34.53	35.17	0.43 in/h
7	RAIN BIRD XCZ-100-PRB-COM	1"	AREA FOR DRIPLINE	7.37	428.5	35.7	36.5	0.43 in/h
8	RAIN BIRD PEB-NP-HAN	1-1/2"	TURF ROTARY	25.79	421.4	35.84	39.56	0.49 in/h
9	RAIN BIRD PEB-NP-HAN	1-1/2"	TURF SPRAY	32.87	285.2	35.37	42.11	1.54 in/h
10	RAIN BIRD XCZ-100-PRB-COM	1"	AREA FOR DRIPLINE	8.48	277.7	36.45	37.44	0.43 in/h
11	RAIN BIRD XCZ-100-PRB-COM	1"	AREA FOR DRIPLINE	3.82	123.7	33.1	33.65	0.43 in/h
12	RAIN BIRD XCZ-100-PRB-COM	1"	AREA FOR DRIPLINE	7.11	112.6	35.48	36.13	0.43 in/h
13	RAIN BIRD PEB-NP-HAN	1-1/2"	TURF SPRAY	32.89	102.5	35.37	38.1	1.55 in/h

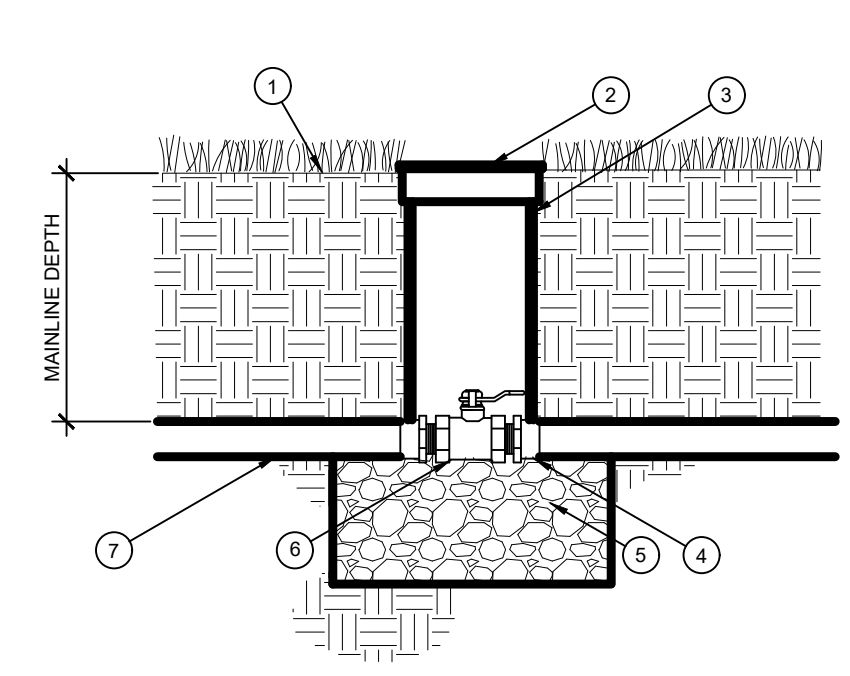


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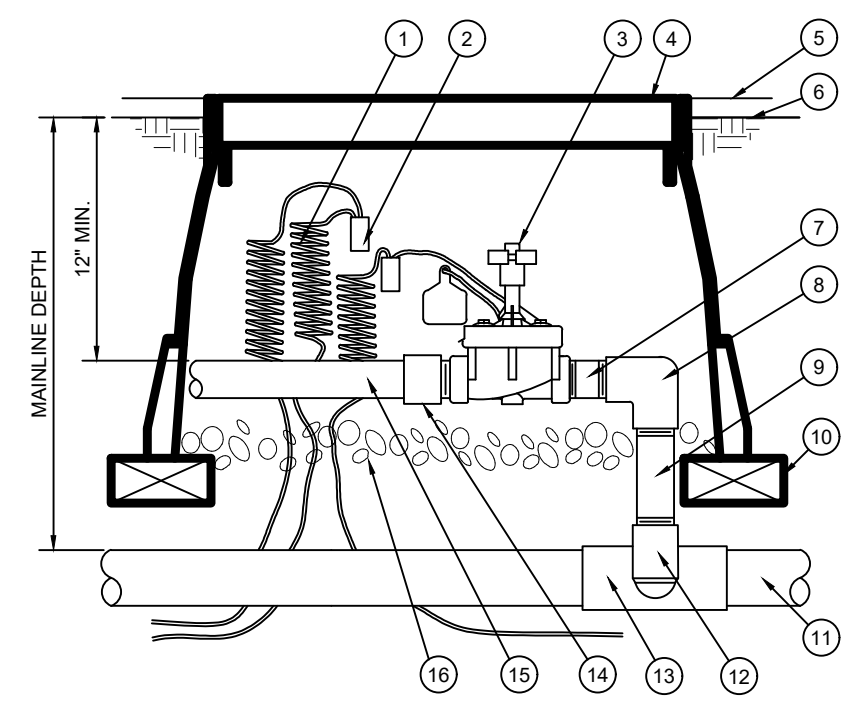
- 1 FLUSH VALVE
 - 2 SCH. 40 PVC EXHAUST HEADER
 - 3 SCH. 40 PVC TEE OR ELL
 - 4 COMPRESSION ADAPTER
 - 5 DRIP LINE
 - 6 AIR RELIEF VALVE AT HIGH POINT OF SYSTEM (WHEN INDICATED ON PLANS)
 - 7 SCH. 40 PVC SUPPLY HEADER
 - 8 CONTROL VALVE
 - 9 TREE ROOT BALL (WHERE OCCURS IN DRIP AREA)
 - 10 RAINBIRD PC-07 EMITTERS (3) OR EQUAL, WITH DIFFUSER CAPS, INSERTED IN DRIP LINE AND GENERALLY SPACED EVENLY AROUND TREE NEAR EDGES OF ROOT BALL (WHERE OCCURS)
- NOTE: SET DRIP LINES 3"-6" AWAY FROM HARDSCAPE

I SUBSURFACE DRIP LINE LAYOUT
SCALE: NOT TO SCALE



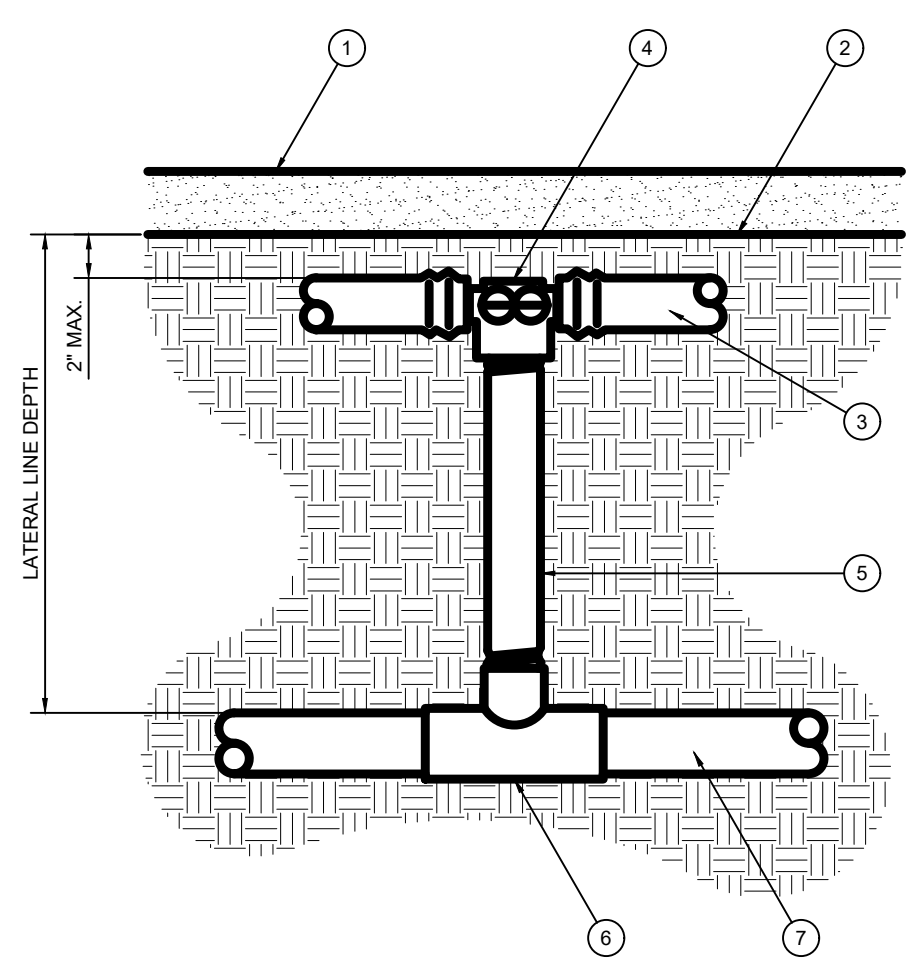
- 1 FINISH GRADE AT 1" BELOW TOP OF BOX IN TURF AREAS; 2" BELOW TOP OF BOX IN SHRUB/GROUND COVER AREAS
- 2 9" ROUND VALVE BOX WITH LOCKABLE LID
- 3 EXTENSION SECTION AS NECESSARY TO MEET GRADE
- 4 PVC MALE ADAPTER
- 5 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
- 6 BRASS BALL VALVE (SIZED PER MAINLINE)
- 7 IRRIGATION MAINLINE

G BRASS BALL VALVE
SCALE: NTS



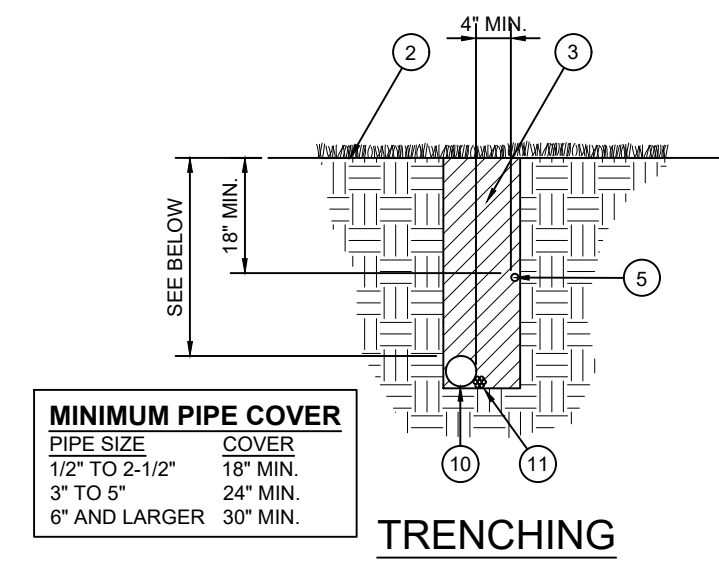
- 1 30-INCH LINEAR LENGTH OF WIRE, COILED
- 2 WATERPROOF CONNECTION (ANY APPROVED)
- 3 REMOTE CONTROL VALVE
- 4 JUMBO PLASTIC VALVE BOX BY CARSON (OR EQUAL)
- 5 TOP OF MULCH
- 6 FINISHED GRADE-1" BELOW TOP OF BOX IN TURF AREAS, 2" IN SHRUB AREAS
- 7 PVC SCH 80 NIPPLE (CLOSE)
- 8 PVC SCH 40 ELL
- 9 PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
- 10 BRICK (1 OF 4)
- 11 PVC MAINLINE PIPE
- 12 SCH. 40 PVC ELL
- 13 PVC SCH 40 TEE OR ELL
- 14 PVC SCH 40 MALE ADAPTER
- 15 PVC LATERAL PIPE
- 16 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

E REMOTE CONTROL VALVE
SCALE: NTS

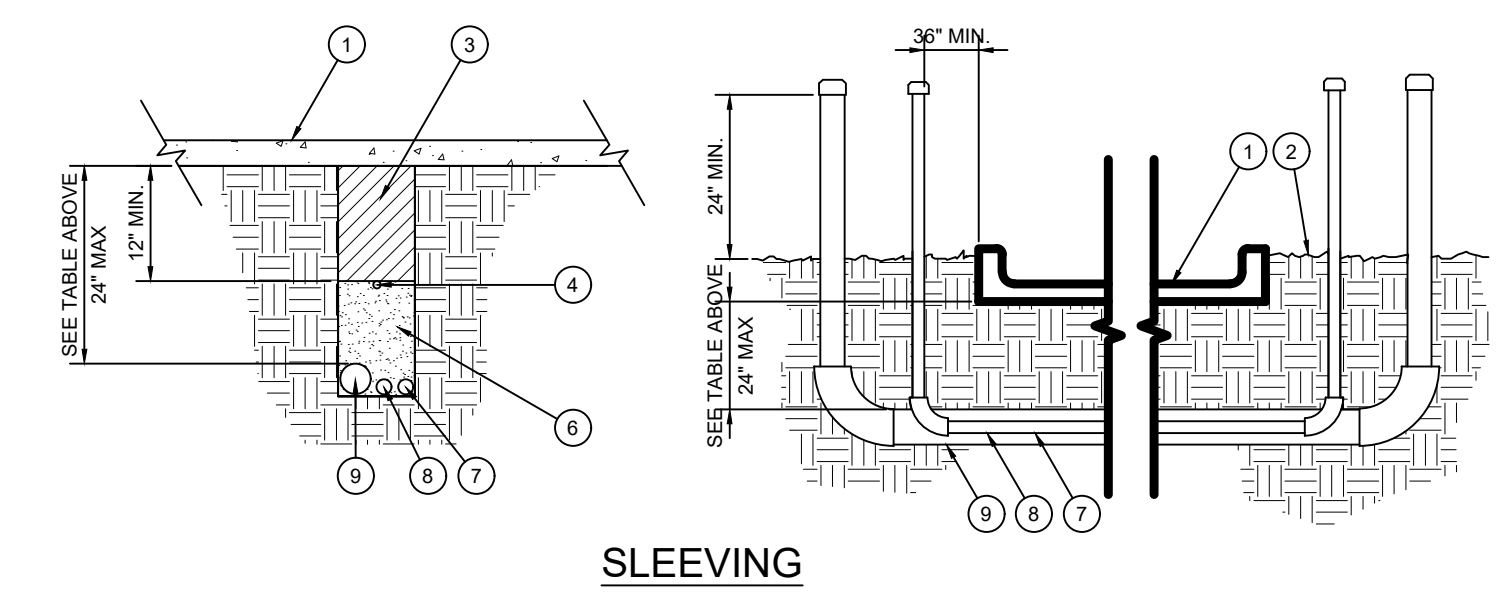


- 1 TOP OF MULCH
- 2 FINISH GRADE
- 3 DRIP LINE PER PLAN
- 4 INSERT TEE OR ELBOW
- 5 SCH. 80 PVC NIPPLE (LINE SIZE)
- 6 SCH. 40 PVC TEE (SST)
- 7 SCH. 40 PVC SUPPLY HEADER (SIZE PER PLAN)

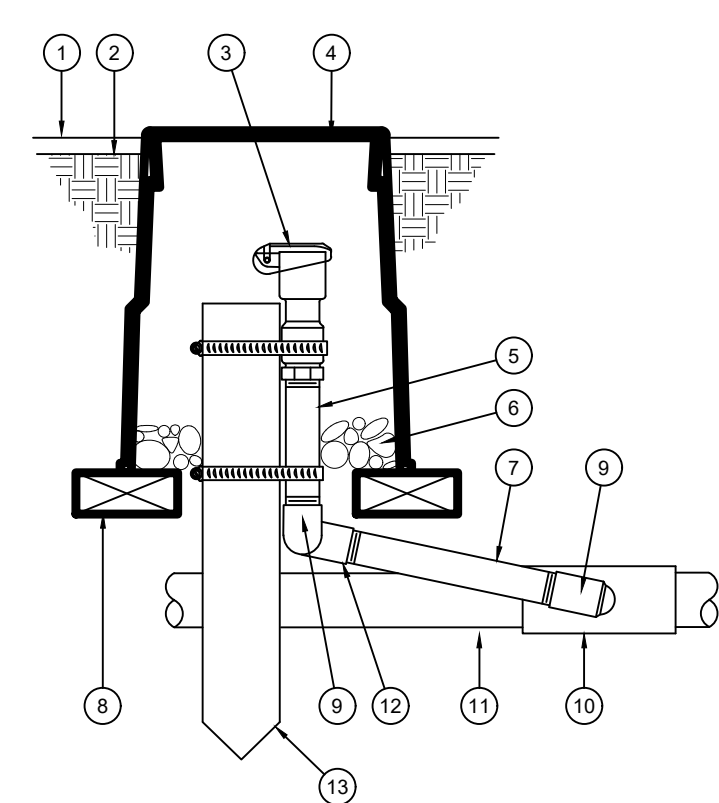
J SUBSURFACE DRIPLINE CONNECTION
SCALE: NOT TO SCALE



- 1 PAVEMENT SURFACE
- 2 FINISH GRADE
- 3 TRENCH BACKFILL
- 4 LOCATOR WIRE W/BURIED CAUTION TAPE
- 5 PVC IRRIGATION LATERAL
- 6 SAND BACKFILL
- 7 SCH. 40 PVC LATERAL SLEEVE - SEE PLANS FOR SIZE
- 8 SCH. 40 PVC WIRE SLEEVE FOR CONTROL WIRES, MIN. 2" DIA.
- 9 SCH. 40 PVC MAINLINE SLEEVE - SEE PLANS FOR SIZE
- 10 PVC IRRIGATION MAINLINE
- 11 CONTROL WIRES - TAPE TO MAINLINE AT 10' INTERVALS
- 12 PVC CAP, SOLVENT WELDED



H PIPE AND SLEEVE INSTALLATION
SCALE: NTS



- 1 TOP OF MULCH
- 2 FINISHED GRADE-1" BELOW TOP OF BOX IN TURF AREAS, 2" IN SHRUB AREAS
- 3 QUICK-COUPLING VALVE
- 4 10" ROUND PLASTIC VALVE BOX BY CARSON (OR EQUAL)
- 5 6" LONG BRASS NIPPLE
- 6 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
- 7 BRASS NIPPLE (LENGTH AS REQUIRED)
- 8 BRICK (1 OF 2)
- 9 PVC SCH 40 STREET ELL
- 10 PVC SCH 40 TEE OR ELL
- 11 PVC MAINLINE PIPE
- 12 PVC SCH 40 ELL
- 13 2" x 2" REDWOOD STAKE WITH STAINLESS STEEL GEAR CLAMPS OR EQUIVALENT SUPPORT SYSTEM

F QUICK COUPLER
SCALE: NTS

Approved Site Review
CLERMONT
03/17/2022 2:07:24

DATE	REMARKS

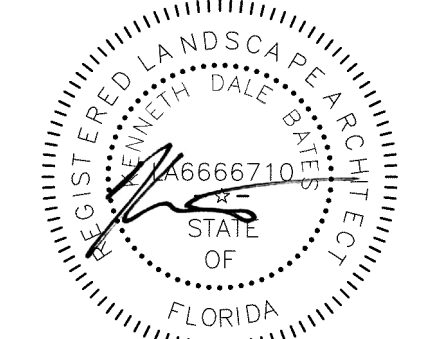
CONTRACT DATE: 01.17.22
BUILDING TYPE: END. 2.0
PLAN VERSION: JANUARY 2022
BRAND DESIGNER:
SITE NUMBER: 315420
STORE NUMBER: 457313
PA/PM: JN
DRAWN BY.:
JOB NO.: 2021088.46

TACO BELL
HAMMOCK RIDGE & U.S. 27
CLERMONT, FL 34711

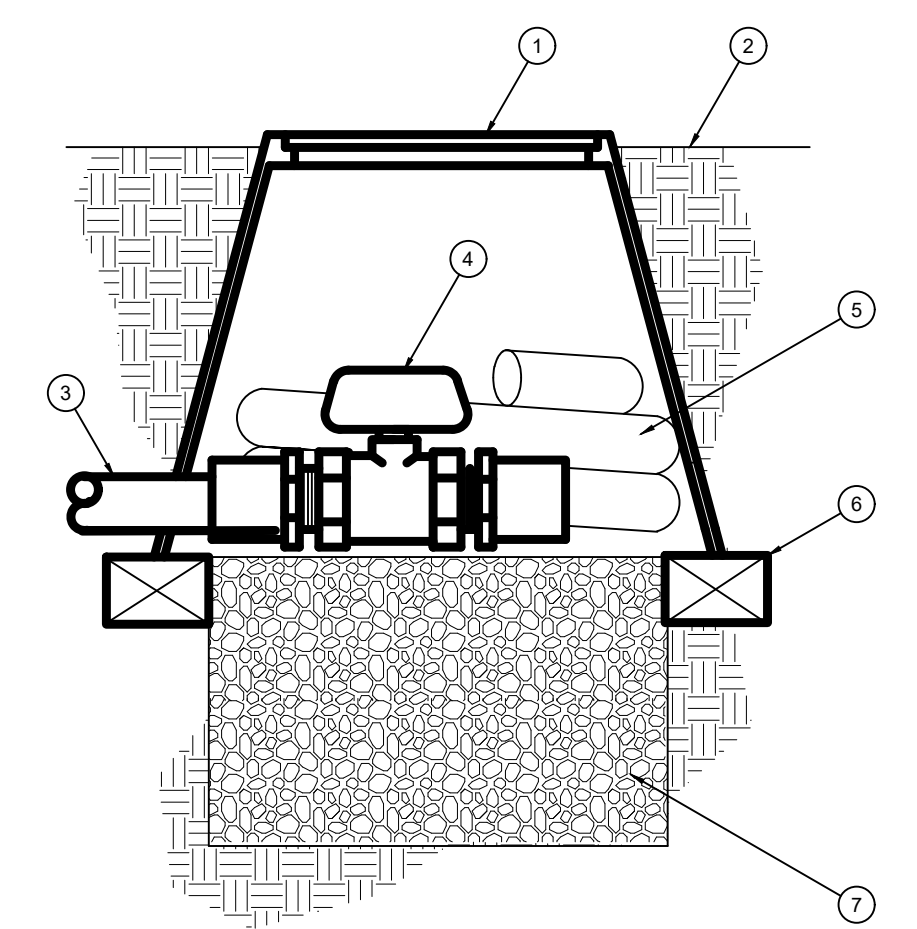


ENDEAVOR 2.0
IRRIGATION
DETAILS

LI-3

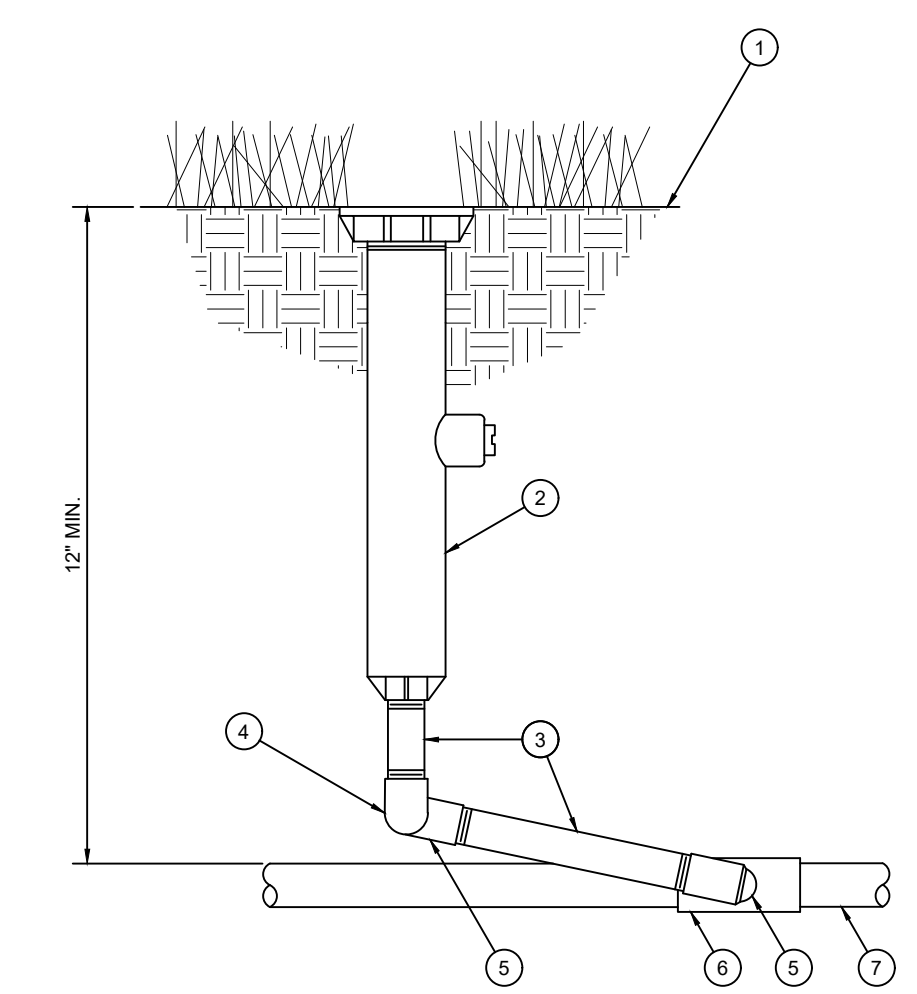


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- ① 10" ROUND PLASTIC VALVE BOX WITH LOCKABLE LID, "CARSON" OR APPROVED EQUAL
- ② FINISH GRADE - TOP OF VALVE BOX TO BE 2" ABOVE FINISH GRADE IN PLANTER AREAS
- ③ DRIP EXHAUST HEADER
- ④ BALL VALVE, LINE SIZE
- ⑤ 3' COILED LENGTH OF LINE SIZE FLEX HOSE, SOLVENT WELD TO VALVE
- ⑥ RED BRICK TYPICAL, 3 REQUIRED
- ⑦ 6" DEEP LAYER OF PEA GRAVEL

K FLUSH VALVE
SCALE: NTS



- ① FINISH GRADE
- ② POP-UP SPRAY HEAD
- ③ SCH. 80 PVC NIPPLE (LENGTH AS REQUIRED)
- ④ SCH. 40 PVC ELL
- ⑤ SCH. 40 PVC STREET ELL
- ⑥ SCH. 40 PVC TEE OR ELL
- ⑦ PVC LATERAL PIPE

L POP-UP SPRAY HEAD
SCALE: NTS



DATE	REMARKS

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 CLERMONT, FL 34711



ENDEAVOR 2.0
 IRRIGATION
 DETAILS

LI-4